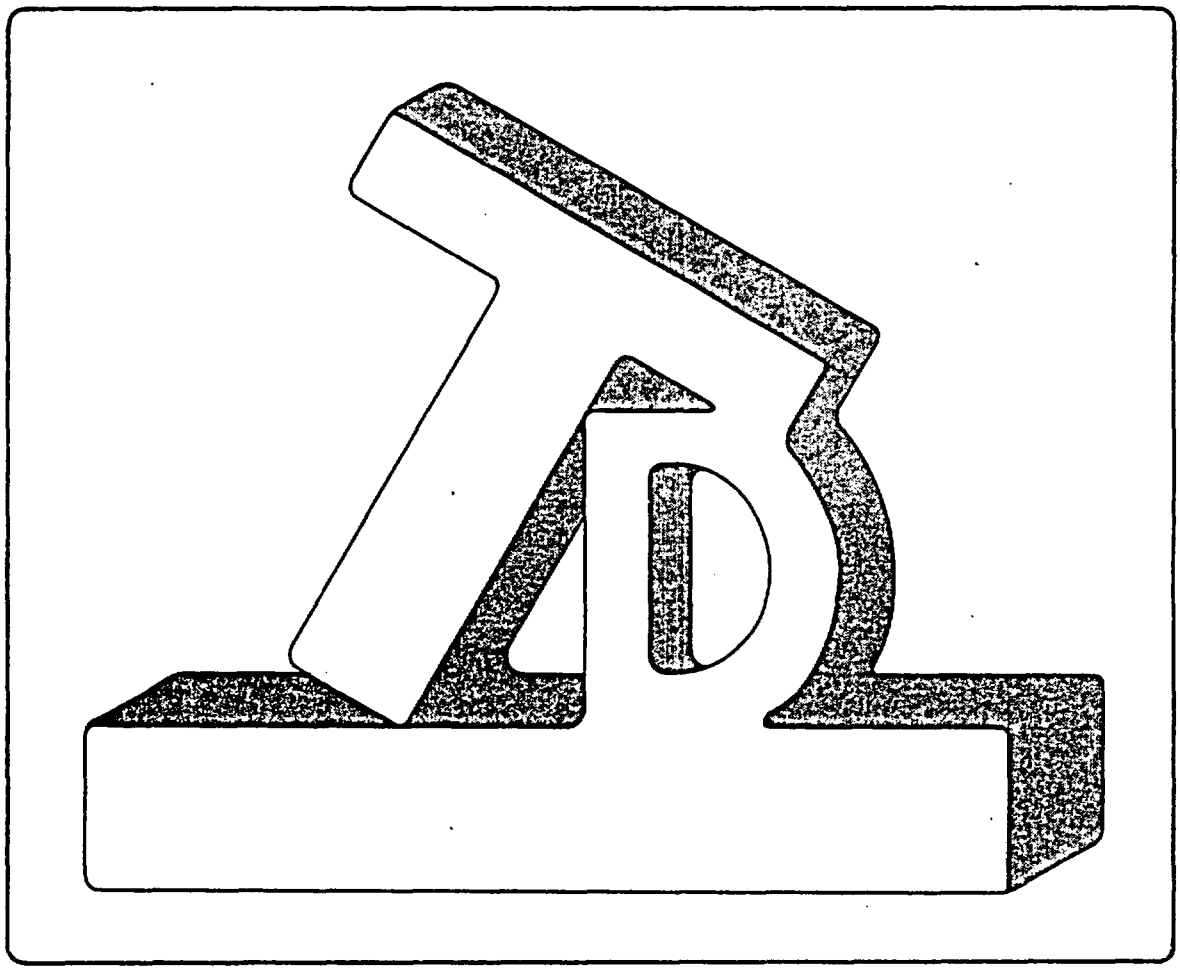
TECHNICAL DATA MANAGEMENT SYSTEM



ONWI
Office of Nuclear Waste Isolation

Technical Data Management System
Borehole Summary Information

This document contains information on the Office of Nuclear Waste Isolation (ONWI) borehole activities relating to the siting of a nuclear waste repository.

Information presented include types of tests performed at the various drilling sites, logs taken, formations penetrated, and basic data on the drilling methods employed. The information is organized by salt basin, (i.e., Gulf Interior, Paradox, and Permian) and by state.

The standard units of measure used in the Technical Data Management System (TDMS) are metric units; however, English units are presented in parantheses. A "YES" indicates that logs were taken or an activity was performed, with results being available for review. A "NR" represents items where data are not recorded (in the database) either because the database personnel have not been informed to date or because the data are not known to the technical authorities and may require further investigation.

The sources of information used are cited under the SOURCES field and is linked to the INITIALIZATION data field via source numbers. The INITIALIZATION field presents information in the following order: the date of data entry, the technical authority (manager) within ONWI responsible for the generation of the data/the TDMS authority, the initials of the person entering the data into the computer system, the data field numbers, and the source number(s) in parantheses. The data field numbers are the numbers associated with each data field name; i.e., field #3 is the number associated with Well Identification. A list of the field numbers is included on the input form found in the Appendix. The source number is associated with the citation number found with each data reference listed under the SOURCES field. In some cases, a source number may not be used but the technical authority will be cited as the source of the information. Thus, the INITIALIZATION and SOURCES fields allow the user of the database to know the origination of the data presented with each data field.

ITEM 1

ACCESSION NUMBER :162
RECORD TYPE :borehole summary
WELL ID :, DOE LA Power & Light LH-2A
BASIN,SUBBASIN :, Gulf Interior, Vacherie Dome
COUNTY,STATE :, Webster Parish, LA
LATITUDE :, 32-35 deg-min
LONGITUDE :, 93-23 deg-min
SECTION,BLOCK :, Sec 3, T18N R10W
DRILLING COMPLETION DATE :, 800131 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 60.8, (199.57) meters(feet)
KELLY BUSHING ELEVATION :, 64.4, (211.57) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 563.9, (1850) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, conditioned mud mix
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 71.1, (28), 0.0, 22.9, (0-75)
, NR, 44.4, (17-1/2), 21.7, 123.4, (71.6-405)
, NR, 25.1, (9-7/8), 121.9, 563.9, (400-1850)
, NR, 27.9, (11), 506.6, 557.8, (1662-1830)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 21.7, (71.6)
, 32.4, (12-3/4), 121.9, (400)
, 16.8, (6-5/8), 506.6, (1662)
, 11.4, (4-1/2), 480.3, (1575.7-1662)
, 11.4, (4-1/2), 547.0, (1794.8-1814)
, 11.4, (4-1/2), 506.6, (1662-1794.8), .01 inch screen
LITHOLOGIC LOGS :, YES, general description, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, micro laterolog, SP, conductivity, acoustic gravel pack, cement bond, BHC, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting samples, sample lithology, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, RIVER TERRACE-ALLUVIUM, 0.0, 20.7, (0-68)
, SPARTA, 20.7, 39.6, (68-130)
, CANE RIVER, 39.6, 106.7, (130-350)
, WILCOX, 106.7, 265.2, (350-870)
, MIDWAY, 265.2, 478.5, (870-1570)
, ARKADELPHIA, 478.5, 504.5, (1570-1655)
, NACATOCH, 504.5, 563.9, (1655-1850)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 506.6, 547.0, (1662-1794.8), during formation tests
, sidewall cores, 165.5, 556.3, (543-1825)

FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 506.6, 547.0, (1662-1794.8)
HYDROGEOLOGIC MONITORING :, YES, initial capacity tests, groundwater samples long term water level monitoring. Water levels between 5.0 m (16.8 feet) and 5.6 m (18.5 feet) from 4/26/80 to 3/30/81
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, hydraulic
, water chemistry
LITHOLOGY [formation,description]:
, RIVER TERRACE-ALLUVIUM, mostly light to dark yellow-brown sand fine to medium grained. Some yellow-brown sandy siltstone
, SPARTA, fine colorless sand, interbeds of lignite, clay and siltstone
, CANE RIVER, silty light gray claystone and gray siltstone interbedded with sand
, MIDWAY, fine light yellow sandstone, gray silty claystone, light gray marlstone
, ARKADELPHIA, white chalk containing clay, silt and sand, interbeds of marlstone
, NACATOCH, light gray very fine sand interbedded with dark gray silty marlstone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-61,63,70,72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,73,83, (2)
000000, OE Swanson, KA St. John, CAB, 46, (3)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site LH-2, ONWI-181
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report North Louisiana Study Area, Volume V Appendix, ONWI-119
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 2

ACCESSION NUMBER :163
RECORD TYPE :borehole summary
WELL ID :, DOE-Continental Forest Industries LH-7A
BASIN,SUBBASIN :, Gulf Interior, Vacherie Dome
COUNTY,STATE :, Bienville Parish, LA
LATITUDE :, 32-29 deg-min
LONGITUDE :, 92-84 deg-min
SECTION,BLOCK :, Sec 5, T17N R5W
DRILLING COMPLETION DATE :, 800311 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 99.2, (325.57) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 798.1, (2618.7) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, conditioned mud mix
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 71.1, (28), 0.0, 17.4, (0-57)

, NR, 44.4, (17-1/2), 17.4, 123.4, (57-405)
, NR, 25.1, (9-7/8), 121.9, 798.1, (400-2618.7)
, NR, 30.5, (12), 449.9, 478.5, (1476-1570)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 17.4, (57)
, 32.4, (12-3/4), 121.9, (400)
, 16.8, (6-5/8), 449.9, (1476)
, 11.4, (4-1/2), 438.3, (1438-1480)
, 11.4, (4-1/2), 475.8, (1561-1565)
, 11.4, (4-1/2), 451.1, (1480-1500), .008 inch slotted screen
, 11.4, (4-1/2), 463.3, (1520-1561), .008 inch slotted screen
LITHOLOGIC LOGS :, YES, general description, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, micro laterolog, SP, BHC sonic, gravel pack acoustic, cement bond, gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting samples, sample lithology, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, RIVER TERRACE-ALLUVIUM, 0.0, 9.1, (0-30)
, COOK MOUNTAIN, 9.1, 27.4, (30-90)
, SPARTA, 27.4, 213.4, (90-700)
, CANE RIVER, 213.4, 286.5, (700-940)
, CARRIZO, 286.5, 318.5, (940-1045)
, WILCOX, 318.5, 477.6, (1045-1567)
, MIDWAY, 477.6, 698.9, (1567-2260)
, ARKADELPHIA, 688.9, 720.9, (2260-2365)
, NACATOCH, 720.9, 763.5, (2365-2505)
, SARATOGA, 763.5, 780.9, (2505-2562)
, MARLBROOK, 780.9, 798.1, (2562-2618)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 451.1, 469.7, (1480-1541), during formation test
, sidewall cores, 149.4, 789.4, (490-2590)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 451.1, 469.7, (1480-1541)
, drawdown and recovery, NR, NR, NR, (1520-1561)
HYDROGEOLOGIC MONITORING :, YES, initial capacity, water level monitoring. Water levels between 78.9m (259.1 feet) and 73.5m (241 feet) from 5/16/80 to 12/4/80. Water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, water chemistry
LITHOLOGY [formation,description]:
, RIVER TERRACE-ALLUVIUM, colorless to light-brown fine sand mixed with red, brownish yellow or light gray clay
, COOK MOUNTAIN, mostly brownish-gray silty claystone
, SPARTA, colorless to light-gray fine to medium grained sands

, CANE RIVER, brownish-gray claystone
, CARRIZO, very fine to medium sands
, WILCOX, very fine to medium grained sands some dark gray to black silty clay and light-gray siltstone
, MIDWAY, dark gray claystone
, ARKADELPHIA, light to medium gray marlstone
, NACATOCH, light to medium gray siltstone interbeds with chalk, claystone and sand
, SARATOGA, white to light gray chalk
, MARLBROOK, very light gray chalky locally silty marlstone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-61,63,70,72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,73,83, (2)
000000, OE Swanson, KA St. John, CAB, 46,74, (3)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site LH-7, ONWI-183
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report North Louisiana Study Area, Volume V Appendix, ONWI-119
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 3

ACCESSION NUMBER :164
RECORD TYPE :borehole summary
WELL ID :, DOE-Continental Forest Industries LRH-13A
BASIN,SUBBASIN :, Gulf Interior, Rayburns Dome
COUNTY,STATE :, Bienville Parish, LA
LATITUDE :, 32-13 deg-min
LONGITUDE :, 92-65 deg-min
SECTION,BLOCK :, Sec 7, T14N R6W
DRILLING COMPLETION DATE :, 800412 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 73.6, (241.65) meters(feet)
KELLY BUSHING ELEVATION :, 77.2, (253.65) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 452.5, (1484.77) meters(feet)
DRILLING TECHNIQUE :, bucket auger
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 71.1, (28), 0.0, 21.6, (0-71)
, NR, 25.1, (9.87), 16.2, 452.5, (53-1484.7)
, NR, 27.9, (11), 320.0, 374.3, (1050-1228)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 21.3, (70)
, 16.8, (6-5/8), 320.0, (1050)
, 11.4, (4-1/2), 306.0, (1004-1046)
, 11.4, (4-1/2), 337.4, (1107-1117)
, 11.4, (4-1/2), 370.3, (1215-1219)
, 11.4, (4-1/2), 318.8, (1046-1107), .01 inch screen
, 11.4, (4-1/2), 340.5, (1117-1215), .01 inch screen
LITHOLOGIC LOGS :, YES, general description, paleontology, well cuttings,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, microlog, SP, acoustic gravel pack, cement bond, BHC sonic,

gamma, gamma-gamma, neutron porosity, caliper, dip, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, SPARTA, 0.0, 58.5, (0-192)
, CANE RIVER, 58.5, 125.0, (192-410)
, WILCOX, 125.0, 420.6, (410-1380)
, MIDWAY, 420.6, 452.5, (1380-1484)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 318.8, 370.3, (1046-1215), during formation tests
, sidewall cores, 27.4, 452.5, (90-1484)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, packer, 1, 318.8, 337.4, (1046-1107)
, packer, 1, 340.5, 370.3, (1117-1215)
HYDROGEOLOGIC MONITORING :, YES, initial capacity tests, water level monitoring. Water levels between 50.9m (167.4 feet) and 50.9m (167.3 feet) from 8/4/80 to 2/25/81. Water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, permeability test
HYDROCHEMICAL TESTS [type,comments] :
, permeability test
, water chemistry
LITHOLOGY [formation,description]:
, SPARTA, gray-olive green fine to medium grained sand, interbeds of light-brown-gray claystone
, CANE RIVER, brownish-gray claystone interbeds with yellowish gray siltstone, marlstone with interbeds of dolomite and siltstone
, WILCOX, grayish-olive-green very fine to medium sand, interbedded with grayish claystone, brownish sandy siltstone, marlstone, lignite beds, limestone and dolomite
, MIDWAY, dark and brownish gray claystone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-54,61,63,70,72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,83, (2)
000000, OE Swanson, KA St. John, CAB, 82,83, (3)
000000, OE Swanson, KA St. John, CAB, 46,74, (4)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site LRH-13, ONWI-184
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report North Louisiana Study Area, Volume V Appendix, ONWI-119
, (3) Slaughter George M. et al, February 1983. Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Company, ONWI-356
, (4) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 4

ACCESSION NUMBER :170

RECORD TYPE :borehole summary
WELL ID :, DOE-Continental Forest Industries LVH-6A
BASIN,SUBBASIN :, Gulf Interior, Vacherie Dome
COUNTY,STATE :, Bienville Parish, LA
LATITUDE :, 32-20 deg-min
LONGITUDE :, 93-10 deg-min
SECTION,BLOCK :, Sec 35, T17N R8W
DRILLING COMPLETION DATE :, 800529 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 68.0, (223.16) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 914.4, (3000) meters(feet)
DRILLING TECHNIQUE :, bucket auger
DRILLING FLUID PROGRAM :, mud mix
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 29.6, (0-97)
, NR, 38.1, (15), 26.5, 123.4, (87-405)
, NR, 25.1, (9-7/8), 121.9, 914.4, (400-3000)
, NR, 30.5, (12), 772.7, 826.0, (2535-2710)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 26.5, (87.25)
, 27.3, (10-3/4), 121.9, (400)
, 16.8, (6-5/8), 772.7, (2535)
, 11.4, (4-1/2), 760.5, (2495-2537)
, 11.4, (4-1/2), 785.5, (2577-2582)
, 11.4, (4-1/2), 822.1, (2697-2702)
, 11.4, (4-1/2), 773.3, (2537-2577), .01 inch slotted screen
, 11.4, (4-1/2), 787.0, (2582-2697), .01 inch slotted screen
LITHOLOGIC LOGS :, YES, general description, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, microlog, SP, acoustic, cement bond, sonic, gamma, gamma-gamma, neutron porosity, caliper, dip, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting samples, sample lithology, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, SPARTA, 0.0, 34.1, (0-112)
, CANE RIVER, 34.1, 103.0, (112-338)
, WILCOX, 103.0, 295.7, (338-970)
, MIDWAY, 295.7, 527.3, (970-1730)
, ARKADELPHIA, 527.3, 556.3, (1730-1825)
, NACATOCH, 556.3, 608.1, (1825-1995)
, SARATOGA, 608.1, 627.9, (1995-2060)
, MARLBROOK, 627.9, 682.8, (2060-2240)
, ANNONA, 682.8, 710.2, (2240-2330)
, OZAN, 710.2, 773.6, (2330-2538)
, AUSTIN, 773.6, 914.4, (2538-3000)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 773.3, 785.5, (2537-2697), during formation test
, sidewall cores, 249.9, 914.4, (820-3000)

FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, packer, NR, 773.3, 785.5, (2537-2577)
, packer, NR, 787.0, 822.1, (2582-2697)
HYDROGEOLOGIC MONITORING :, YES, initial capacity, and water level monitoring. Water levels between 38.5m (126.6 feet) and 38.9m (127.8 feet) from 8/26/80 to 8/24/81. Water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, permeability analysis
HYDROCHEMICAL TESTS [type,comments] :
, permeability analysis
, water chemistry
LITHOLOGY [formation,description]:
, SPARTA, mostly very light gray to pale orange fine to medium grained sands
, CANE RIVER, brownish gray claystone and some marlstone
, WILCOX, grayish silty claystone with interbeds of lignite and gray-brown-red fine grained sand
, MIDWAY, medium gray claystone and light gray marlstone
, ARKADELPHIA, chalky light gray marlstone to pale yellow limestone and chalk
, NACATOCH, light gray, very fine coarse silt, light-yellow-gray medium to very coarse siltstone
, SARATOGA, very light gray to white chalk grading into light gray marlstone
, MARLBROOK, moderate to light gray chalky marlstone
, ANNONA, white to light gray chalk grading into marlstone
, OZAN, moderately light gray marlstone, partly chalky and silty
, AUSTIN, light gray fine to medium sand interbedded with light gray fine sandstone and moderately gray marlstone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, (1)
000000, OE Swanson, KA St. John, CAB, 60,83, (2)
000000, OE Swanson, KA St. John, CAB, 82,83, (3)
000000, OE Swanson, KA St. John, CAB, 46,74, (4)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site LVH-6, ONWI-182
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report North Louisiana Study Area, Volume V Appendix, ONWI-119
, (3) Slaughter, George M. et al, February 1983. Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Testing Company, ONWI-356
, (4) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 5

ACCESSION NUMBER :23
RECORD TYPE :borehole summary
WELL ID :, LH-17A
BASIN,SUBBASIN :, Gulf Interior, Vacherie Dome
COUNTY,STATE :, Bienville Parish, LA
LATITUDE :, 32-17 deg-min
LONGITUDE :, 93-20 deg-min
SECTION,BLOCK :, Sec 12, T15N R10W

DRILLING COMPLETION DATE :, 800721 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 82.3, (270) meters(feet)
KELLY BUSHING ELEVATION :, 82.9, (272) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 731.5, (2400) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 14.6, (48)
, 27.3, (10-3/4), 121.9, (400)
, 16.8, (6-5/8), 607.2, (1992)
LITHOLOGIC LOGS :, YES, general description, paleontology
GEOPHYSICAL LOGS :, YES, temperature, compensated density, compensated neutron, caliper, gamma ray, SP, BHC sonic, dual induction, laterolog, formation tester, microelectric
CORE LOGS :, NO,
MUD LOGS :, YES
FORMATIONS PENETRATED [interval in meters(ft)] :
, QUATERNARY, 0.0, 30.5, (0-100)
, WILCOX, 30.5, 185.9, (100-610)
, MIDWAY, 185.9, 358.1, (610-1175)
, ARKADELPHIA, 358.1, 390.1, (1175-1280)
, NACATOCH, 390.1, 449.0, (1280-1473)
, SARATOGA, 449.0, 463.3, (1473-1520)
, MARLBROOK, 463.3, 524.3, (1520-1720)
, ANNONA, 524.3, 554.7, (1720-1820)
, OZAN, 554.7, 609.6, (1820-2000)
, AUSTIN, 609.6, 731.5, (2000-2400)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall, 125.0, 731.2, (410-2399)
, water samples, 607.5, 616.3, (1993-2022)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, initial capacity, NR, 607.5, 616.3, (1993-2022), results=95 minute capacity of 0.18 gal/min/ft of drawdown
HYDROGEOLOGIC MONITORING :, YES, water levels between 84(276) and 86(281) meters(feet) on 11/18/80 and 3/30/81 respectively. Initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, NR,
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, field tests, dissolute solids of 45,634 mg/l indicates brine(>35K mg/l)
LITHOLOGY [formation,description]:
, QUATERNARY, sand with traces of claystone
, WILCOX, three variations of sand, sandstone, and silty sandy, claystone
, MIDWAY, gray claystone

, ARKADELPHIA, marlstone replaced by limestone interbeds near bottom
, NACATOCH, light sands partly consolidated in a chalky matrix
, SARATOGA, marlstone
, MARLBROOK, marlstone
, ANNONA, chalk
, OZAN, marlstone with siltstone and chalk interbeds
, AUSTIN, fine sand with interbeds of claystone, marlstone, and chalk
INITIALIZATION [date,authorities,field numbers,source] :
830826, OE Swanson, MJ Gollis, BJM, 2-47,50,53-82 (1)
830826, OE Swanson, MJ Gollis, BJM, 49,83 (2)
831031, OE Swanson, KA St. John, CAB, 51,52,62,71 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report:Site LH-17, ONWI-185
, (2) Geologic Area Characterization Appendix, Louisiana Study Area, Gulf Coast Salt Dome Project
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 6

ACCESSION NUMBER :34
RECORD TYPE :borehole summary
WELL ID :, US DOE - Continental Forest Industries #1
BASIN,SUBBASIN :, Gulf Interior, Rayburns Dome
COUNTY,STATE :, Bienville Parish, LA
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 31, T15 R5W
DRILLING COMPLETION DATE :, 780506 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 65.5, (215) meters(feet)
KELLY BUSHING ELEVATION :, 68.9, (226) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1528.0, (5013) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, NR, (NR), NR, NR, (NR)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, (NR), 129.2, (424)
LITHOLOGIC LOGS :, YES,
GEOPHYSICAL LOGS :, YES, caliper, compensated density, temperature,
CORE LOGS :, YES,
MUD LOGS :, YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 0.0, 42.4, (0-139)
, SALT, 42.4, 1528.0, (139-5013)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 33.2, 808.3, (109-2652)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:

, core closure, NR, NR, NR, (NR)
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, strength
, creep
, index
ROCK SAMPLE TESTS [type,comments] :
, field content, average content much less than 1% (field estimate)
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CAPROCK, inequidimensional halite with many near-vertical anhydrite bonds, Bonds are diffuse and rarely more than 2 in, in thickness
, SALT , equidimensional and megacrystalline halite with broadly spaced near-vertical bands of anhydrite
INITIALIZATION [date,authorities,field numbers,source] :
830914, OE Swanson, MJ Golis, NRC, 2-53,60,62-72,74-99, (1)
830914, OE Swanson, MJ Golis, NRC, 54,61 temperature, 73, (2)
830914, OE Swanson, MJ Golis, NRC, 61 caliper and compensated density, (3)
831031, OE Swanson, KA St. John, CAB, 46,51,52,74,63, (OE Swanson)
831031, OE Swanson KA St. John, CAB, 81, (4)
SOURCES:
, (1) Nance, D. et al, 1979. Lithology of the Rayburns Dome Salt Core,, Institute for Environmental Studies, Louisiana State University, E511- 02500-3
, (2) Martinez, J. D. et al, 1979. An Investigation of the Utility of Gulf Coast Salt Domes for the Storage or Disposal of Radioactive Wastes, Institute for Environmental Studies, Louisiana State University, E511-02500-A-1
, (3) Hawkins, M. F. Jr,, 1978. An Engineering Report of the Coreholes at Vacherie and Rayburns Salt Domes - North Louisiana Salt Dome Basin, Institute for Environmental Studies, Louisiana State University
, (4) Pfeifle, T. W. et al, July 1983. Preliminary Constitutive Properties for Salt and Nonsalt Rocks From Four Potential Repository Sites, RE/SPEC Inc, ONWI-450

ITEM 7

ACCESSION NUMBER :36
RECORD TYPE :borehole summary
WELL ID :, US DOE-Smith #1
BASIN,SUBBASIN :, Gulf Interior, Vacherie Dome
COUNTY,STATE :, Webster Parish, LA
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 16, T17N R8W
DRILLING COMPLETION DATE :, 780411 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 70.1, (230) meters(feet)
KELLY BUSHING ELEVATION :, 73.5, (241.3) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1533.8, (5032) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, mud in saturated brine changed to clear saturated brine at 506.0 m(1660 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :

, NR, NR, (NR), NR, NR, (NR)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, (NR), 296.3, (972)
LITHOLOGIC LOGS :, YES
GEOPHYSICAL LOGS :, YES, caliper, compensated density, temperature
CORE LOGS :, YES
MUD LOGS :, YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 165.5, 248.6, (593-815.5)
, SALT, 248.6, 1533.8, (815.5-5032)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 165.5, 248.7, (543-816)
, 10.2, (4), 248.7, 1015.3, (816-3331)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, core closure, NR, NR, NR, (NR)
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, strength
, creep
, index
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CAPROCK, carbonate (21 ft) porous with open fissues and vugs, gypsum (3 ft) fine grained and crystalline, anhydrite (249 ft) fine grained and crystalline with contact surfaces and inclusions of anhydrite blocks
, SALT, halite (90%) and minor anhydrite in stuply dipping, folded bands of varying fabric
INITIALIZATION [date,authorities,field numbers,source] :
830907, OE Swanson, MJ Golis, NRC, 2-60,62-72,74,99, (1)
830907, OE Swanson, MJ Golis, NRC, 54,61, (2)
830907, OE Swanson, MJ Golis, NRC, 61 caliper and compensated density, (3)
831031, OE Swanson, KA St. John, CAB, 46,63,74, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 81, (4)
SOURCES:
, (1) Nance, D. et al, 1979. Lithology of the Vacherie Salt Dome Core, Institute for Environmental Studies, Louisiana State University, E511-02500-5
, (2) Martinez, J.D. et al, 1979. An Investigation of the Utility of Gulf Coast Salt Domes for the Storage or Disposal of Radioactive Wastes, Institute for Environmental Studies, Louisiana State University, E511-02500-A-1
, (3) Hawkins, M.F. Jr., 1978. An Engineering Report of the Boreholes at Vacherie and Rayburn's Salt Dome-North Louisiana Salt Dome Basin, Institute for Environmental Studies, Louisiana State University
, (4) Pfeifle, T. W. et al, July 1983. Preliminary constitutive Properties for Salt and Nonsalt Rocks From Four Potential Repository Sites, RE/SPEC Inc, ONWI-450

ITEM 8

ACCESSION NUMBER :171
RECORD TYPE :borehole summary
WELL ID :, DOE-Anderson MH-6A
BASIN,SUBBASIN :, Gulf Interior, Lampton Dome
COUNTY,STATE :, Marion, MS
LATITUDE :, 31-26 deg-min
LONGITUDE :, 89-43 deg-min
SECTION,BLOCK :, Sec 4, T5N R17W
DRILLING COMPLETION DATE :, 790903 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 135.4, (444.61) meters(feet)
KELLY BUSHING ELEVATION :, 139.0, (456.32) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1066.8, (3500) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.9, (0-62.3)
, NR, 38.1, (15), 0.0, 123.4, (0-405)
, NR, 25.1, (9-7/8), 0.0, 1066.8, (0-3500)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.9, (62.3)
, 27.3, (10-3/4), 123.3, (404.5)
, 16.8, (6-5/8), 995.5, (3266)
, 11.4, (4-1/2), 994.9, (3242.5-3264)
, 11.4, (4-1/2), 1003.7, (3285-3293)
LITHOLOGIC LOGS :, YES, paleontology, well cuttings, general description,
GEOPHYSICAL LOGS :, YES, induction electric, SP, acoustic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 64.6, (0-212)
, HATTIESBURG-CATAHOULA, 64.6, 310.9, (212-1020)
, CATAHOULA (HETEROSTEGINA), 310.9, 332.2, (1020-1090)
, CATAHOULA (LOWER), 332.2, 434.3, (1090-1425)
, CHICKASAWHAY, 434.3, 477.9, (1425-1568)
, BUCATUNNA, 477.9, 488.6, (1568-1603)
, VICKSBURG, 488.6, 513.0, (1603-1683)
, RED BLUFF, 513.0, 525.2, (1683-1723)
, YAZOO, 525.2, 605.6, (1723-1987)
, PACHUTA MARL, 605.6, 617.2, (1987-2025)
, NORTH TWISTWOOD CREEK CLAY, 617.2, 618.4, (2025-2029)
, MOODYS BRANCH, 618.4, 621.8, (2029-2040)
, COCKFIELD, 621.8, 709.6, (2040-2328)
, COOK MOUNTAIN, 709.6, 743.7, (2328-2440)
, SPARTA, 743.7, 856.5, (2440-2810)
, ZILPHA, 856.5, 923.6, (2810-3030)
, WINONA, 923.6, 935.7, (3030-3070)
, TALLAHATTA, 935.7, 995.8, (3070-3267)
, WILCOX, 995.8, 1066.8, (3267-3500)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 994.9, 1001.3, (3264-3285), during formation test
, sidewall cores, 382.2, 1048.6, (1254-3440.5)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 994.9, 1001.3, (3264-3285), .006 slotted screen, 4-5/8 inch diameter
HYDROGEOLOGIC MONITORING :, YES, Initial capacity test, water levels between (275.2 feet and 267.5 feet) 83.8-81.5 m from 9/7/79 to 12/2/80. Water levels initially montored monthly, then quarterly."
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, field tests
LITHOLOGY [formation,description]:
, CITRONELLE, clear moderate to reddish orange, pink yellow very fine to very coarse grained sand and varicolored gravel
, HATTIESBURG-CATAHOULA, orange and yellowish gray clay, gravel, and clear white, yellow, orange and pink very fine to very coarse sand
, CATAHOULA (HETEROSTEGINA), interbedded white to light gray part sandy limestone, grayish clay and very fine to very coarse sand
, CATAHOULA (LOWER), olive clay, light gray sandy limestone, clear to white fine and medium grained sand
, CHICKASAWHAY, interbedded olive gray and yellowish brown clay, clear fine to very coarse grained sand
, BUCATUNNA, dark yellowish brown and greenish gray clay
, VICKSBURG, white bioclastic, part sandy, part silty limestone
, RED BLUFF, yellowish gray clay and white sandy limestone
, YAZOO, light olive-gray, yellowish-gray and brown clay with minor limestone, mudstone, and sand
, PACHUTA MARL, white limestone
, NORTH TWISTWOOD CREEK CLAY, yellowish gray clay
, MOODYS BRANCH, white hard limestone
, COCKFIELD, interbedded olive gray and yellow brown clay, very fine to medium grained sand, white limestone, and green-brown sandy siltstone
, COOK MOUNTAIN, white locally sandy limestone
, SPARTA, interbedded olive gray and yellow-brown clay, fine sand, pale green, gray and brown silty mudstone and limestone
, ZILPHA, yellow-brown and olive-gray clay, minor interbedded limestone, dolomite, mudstone and sand
, WINONA, white and light gray limestone, pale greenish gray silty shale
, TALLAHATTA, yellowish-brown-gray clay, pale grayish green and white silty limestone, pale green, brown, gray shale, light gray fine sandstone
, WILCOX, light olive gray, dark yellow-brown silty clay, dark green very fine to medium grained sand, pale green and gray silty shale, and pale gray to white very sandy limestone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-61,63,70-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,73,83, (2)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
000000, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site MH-6, ONWI-175
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII Appendix, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 9

ACCESSION NUMBER :172
RECORD TYPE :borehole summary
WELL ID :, DOE-Beard MH-7A
BASIN,SUBBASIN :, Gulf Interior, Lampton Dome
COUNTY,STATE :, Forrest, MS
LATITUDE :, 31-25 deg-min
LONGITUDE :, 89-18 deg-min
SECTION,BLOCK :, Sec 9, T5N R13W
DRILLING COMPLETION DATE :, 790816 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 64.1, (210.4) meters(feet)
KELLY BUSHING ELEVATION :, 67.3, (220.75) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 868.7, (2849.9) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.6, (0-61)
, NR, 38.1, (15), 18.6, 123.8, (61-406)
, NR, 25.1, (9-7/8), 123.8, 868.7, (406-2849.9)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.6, (61)
, 27.3, (10-3/4), 123.1, (404)
, 16.8, (6-5/8), 807.7, (2650)
, 11.4, (4-1/2), 808.0, (2629-2651)
, 11.4, (4-1/2), 816.3, (2673-2678)
LITHOLOGIC LOGS :, YES, well cuttings, general description, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, SP, acoustic, sonic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 33.5, (0-110)
, HATTIESBURG-CATAHOULA, 33.5, 195.1, (110-640)
, CATAHOULA (HETEROSTEGINA), 195.1, 219.5, (640-720)
, CATAHOULA (LOWER), 219.5, 258.8, (720-849)
, CHICKASAWHAY, 258.8, 303.9, (849-997)
, BUCATUNNA, 303.9, 320.0, (997-1050)
, VICKSBURG, 320.0, 350.2, (1150-1149)
, RED BLUFF, 350.2, 361.2, (1149-1185)
, YAZOO, 361.2, 417.6, (1185-1370)
, PACHUTA MARL, 417.6, 425.2, (1370-1395)
, NORTH TWISTWOOD CREEK CLAY, 425.2, 429.8, (1395-1410)
, MOODYS BRANCH, 429.8, 434.7, (1410-1426)
, COCKFIELD, 434.7, 491.0, (1426-1611)
, COOK MOUNTAIN, 491.0, 559.3, (1611-1835)
, SPARTA, 559.3, 596.2, (1835-1956)
, ZILPHA, 596.2, 650.5, (1956-2134)

, WINONA, 650.5, 661.1, (2134-2169)
, TALLAHATTA, 661.1, 725.4, (2169-2380)
, WILCOX, 725.4, 868.7, (2380-2849)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 808.0, 814.7, (2651-2673), during formation test
, sidewall cores, 200.3, 854.1, (657-2802)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown, NR, 808.0, 814.7, (2651-2673), flowing well, .006 slotted screen, 4-5/8 inch diameter
HYDROGEOLOGIC MONITORING :, YES, initial capacity test, water level monitoring. Water levels between 80.5-81.2m (264.2 feet and 266.5 feet) between 3/28/80 and 12/1/80. Water levels initially monitored monthly then quarterly.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, field tests
, gas analysis
LITHOLOGY [formation,description]:
, CITRONELLE, white, orange, yellow, pink gravelly sand fine to very coarse grained
, HATTIESBURG-CATAHOULA, interbedded clear to white very fine to very coarse sand, buff gray and brown-green clay, minor lignite, gravel and mudstone
, CATAHOULA (HETEROSTEGINA), predominantly white to light gray limestone with interbedded white very fine to coarse sand and light green, gray clay
, CATAHOULA (LOWER), interbedded clear/white very fine to very coarse grained sand, light green gray, brown clay, white chalky limestone
, CHICKASAWHAY, predominantly brown, green, gray, orange clay with fine sand and white sandy limestone
, BUCATUNNA, gray and tan clay
, VICKSBURG, white limestone
, RED BLUFF, white limestone and buff clay
, YAZOO, tan, light green and gray clay
, PACHUTA MARL, white limestone and clear very fine to medium grained sand
, NORTH TWISTWOOD CREEK CLAY, buff gray, and tan/brown clay
, MOODYS BRANCH, white limestone
, COCKFIELD, interbedded brown and tan clay, clear and light green medium to coarse sand, and white sandy limestone
, COOK MOUNTAIN, white limestone with a clay interval
, SPARTA, clear very fine to very coarse grained sand, brownish clay, brown sandy siltstone, minor dolomite limestone and mudstone
, ZILPHA, brownish silty clay
, WINONA, brown clay, white limestone, brown fine to coarse grained sand, minor dolomite and mudstone
, TALLAHATTA, tan and green-gray clay and white to light gray sandy, silty limestone
, WILCOX, predominantly dark brown, green/brown silty clay and clear, tan, green very fine to medium grained silty sand, minor limestone mudstone and lignite
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,46-61,63,70,72, 74,99, (1)
000000, OE Swanson, KA St. John, CAB, 73,83,60, (2)
000000, OE Swanson, KA St. John, CAB, 46,74, (3)

000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site MH-7, ONWI-176
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Characterization Report Mississippi Study Area, Volume VII, Appendix, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 10

ACCESSION NUMBER :173
RECORD TYPE :borehole summary
WELL ID :, DOE-Masonite MH-8A
BASIN,SUBBASIN :, Gulf Interior, Lampton Dome
COUNTY,STATE :, Marion, MS
LATITUDE :, 31-09 deg-min
LONGITUDE :, 89-41 deg-min
SECTION,BLOCK :, Sec 10, T2N R17W
DRILLING COMPLETION DATE :, 791103 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 74.4, (244.3) meters(feet)
KELLY BUSHING ELEVATION :, 77.4, (254.3) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1127.8, (3700) meters(feet)
DRILLING TECHNIQUE :, rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.1, (0-59.6)
, NR, 38.1, (15), 18.4, 123.4, (60.4-405)
, NR, 25.1, (9-7/8), 123.4, 1127.8, (405-3700)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.3, (60)
, 27.3, (10-3/4), 121.9, (400)
, 16.8, (6-5/8), 969.3, (3180)
, 11.4, (4-1/2), 969.0, (3117-3179)
, 11.4, (4-1/2), 973.5, (3190-3194)
LITHOLOGIC LOGS :, YES, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, SP, acoustic, sonic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting samples, gas content monitoring, sample lithologies,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG-CATAHOULA, 0.0, 411.5, (0-1350)
, CATAHOULA (HETEROSTEGINA), 411.5, 499.9, (1350-1640)
, CATAHOULA (LOWER), 499.9, 527.3, (1640-1730)
, CHICKASAWHAY, 527.3, 562.1, (1730-1844)
, BUCATUNNA, 562.1, 570.0, (1844-1870)
, VICKSBURG, 570.0, 613.9, (1870-2014)
, RED BLUFF, 613.9, 634.0, (2014-2080)
, YAZOO CLAY, 634.0, 656.2, (2080-2153)
, PACHUTA MARL, 656.2, 670.6, (2153-2200)
, NORTH TWISTWOOD CREEK CLAY, 670.6, 676.7, (2200-2220)

, MOODYS BRANCH, 676.7, 687.0, (2220-2254)
, COCKFIELD, 687.0, 724.8, (2254-2378)
, COOK MOUNTAIN, 724.8, 779.7, (2378-2558)
, SPARTA, 779.7, 835.8, (2558-2742)
, ZILPHA, 835.8, 899.2, (2742-2950)
, WINONA, 899.2, 905.9, (2950-2972)
, TALLAHATTA, 905.9, 953.4, (2972-3128)
, WILCOX, 953.4, 1127.8, (3128-3700)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 969.0, 972.3, (3179-3190), during formation tests
, sidewall cores, 472.4, 1117.1, (1550-3665)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 969.0, 972.3, (3179-3190), .006 slotted screen, 4-5/8 inch diameter
HYDROGEOLOGIC MONITORING :, YES, initial capacity test. Water levels (between 201.8 feet and 197.5 feet) 61.5-60.2m between 11/12/79 to 12/2/80. Water levels initially monitored monthly then quarterly.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, field tests
LITHOLOGY [formation,description]:
, HATTIESBURG-CATAHOULA, interbedded tan olive gray silty sandy clay, clear white and pink fine to coarse grained sand, gravel, tan yellowish gray sandy siltstone, silty mudstone and white chalky limestone
, CATAHOULA (HETEROSTEGINA), white to gray limestone and clear very fine to very coarse grained sand
, CATAHOULA (LOWER), predominantly light olive gray clay with interbedded smoky and pink fine to coarse sand, light olive gray shale and white chalky sandy limestone
, CHICKASAWHAY, interbedded grayish clay, white and gray very fine to very coarse sand, fine to coarse white sandstone
, BUCATUNNA, light olive gray clay with minor sand, sandstone and limestone
, VICKSBURG, white to gray chalky limestone
, RED BLUFF, light olive gray clay, white to gray chalky limestone, and clear to gray very fine to coarse grained sand
, YAZOO CLAY, grayish clay
, PACHUTA MARL, yellowish gray clay and limestone
, NORTH TWISTWOOD CREEK CLAY, light olive gray clay and greenish brown silty mudstone
, MOODYS BRANCH, white chalky limestone and clear fine to coarse grained sand
, COCKFIELD, grayish clay, pale green to grayish brown silty shale and greenish brown, olive gray chalky limestone
, COOK MOUNTAIN, white to pale green chalky limestone, minor interbedded olive gray clay
, SPARTA, interbedded olive gray and yellowish brown clay, buff to white limestone, brownish shale
, ZILPHA, brownish clay and brown, tan and pale green silty shale
, WINONA, mottled gray chalky limestone
, TALLAHATTA, interbedded light olive gray to dark yellowish brown clay, greenish and yellowish gray silty shale, pale greenish gray chalky limestone
, WILCOX, interbedded light olive gray silty clay, pale greenish gray sandy limestone, gray brown and green sandy siltstone, clear green, brown, white and pink very fine to very coarse sand, and brown to black lignite
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-54,61,63,70, 72-74,99, (1)

000000, OE Swanson, KA St. John, CAB, 73,60,83, (2)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
000000, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site MH-8, ONWI-177
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Characterization Report Mississippi Study Area, Volume VII Appendix, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 11

ACCESSION NUMBER :174
RECORD TYPE :borehole summary
WELL ID :, DOE-Masonite MRIG-10
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-25 deg-min
LONGITUDE :, 88-57 deg-min
SECTION,BLOCK :, Sec 12, T5N R10W
DRILLING COMPLETION DATE :, 791016 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 86.7, (284.6) meters(feet)
KELLY BUSHING ELEVATION :, 88.5, (290.6) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 822.7, (2699.38) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.7, (0-61.4)
, NR, 38.1, (15), 18.7, 123.4, (61.4-404.9)
, NR, 25.1, (9-7/8), 123.4, 822.7, (404.9-2699.4)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.7, (61.4)
, 27.3, (10-3/4), 121.9, (400)
, 16.8, (6-5/8), 796.8, (2614)
, 11.4, (4-1/2), 796.8, (2551-2614)
, 11.4, (4-1/2), 805.0, (2635-2641)
LITHOLOGIC LOGS :, YES, paleontology, well cuttings,
GEOPHYSICAL LOGS :, YES, induction electric, SP, acoustic, sonic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 45.7, (0-150)
, HATTIESBURG-CATAHOULA, 45.7, 253.0, (150-830)
, CATAHOULA (HETEROSTEGINA), 253.0, 289.6, (830-950)
, CATAHOULA (LOWER), 289.6, 343.2, (950-1126)
, CHICKASAWHAY, 343.2, 374.9, (1126-1230)
, BUCATUNNA, 374.9, 398.1, (1230-1306)
, VICKSBURG, 398.1, 427.9, (1306-1404)
, RED BLUFF, 427.9, 443.5, (1404-1455)

, YAZOO, 443.5, 475.5, (1455-1560)
, PACHUTA MARL, 475.5, 484.6, (1560-1590)
, NORTH TWISTWOOD CREEK CLAY, 484.6, 492.6, (1590-1616)
, MOODYS BRANCH, 492.6, 498.0, (1616-1634)
, COCKFIELD, 498.0, 566.3, (1634-1858)
, COOK MOUNTAIN, 566.3, 600.5, (1858-1970)
, SPARTA, 600.5, 666.9, (1970-2188)
, ZILPHA, 666.9, 708.7, (2188-2325)
, WINONA, 708.7, 727.6, (2325-2387)
, TALLAHATTA, 727.6, 795.5, (2387-2610)
, WILCOX, 795.5, 822.7, (2610-2699)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 796.9, 803.3, (2614.5-2635.5), during formation tests
, sidewall cores, 177.1, 816.9, (581-2680)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 796.9, 803.3, (2614.5-2625.5), .006 slotted screen, 4-5/8 inch diameter
HYDROGEOLOGIC MONITORING :, YES, initial capacity test, levels between (253.8 feet and 251.8 feet) 77.3-76.7m from 11/10/79 to 5/27/80. Water levels initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, permeability tests
HYDROCHEMICAL TESTS [type,comments] :
, field tests
, permeability tests
LITHOLOGY [formation,description]:
, CITRONELLE, unconsolidated sand and gravel, with traces of white chalky limestone
, HATTIESBURG-CATAHOULA, interbedded unconsolidated white, light gray fine sand and yellow to olive gray clay
, CATAHOULA (HETEROSTEGINA), white chalky sandy limestone with interbedded very fine to coarse grained sand and olive gray clay
, CATAHOULA (LOWER), perdominantly olive gray clay with interbedded gray chalky limestone and medium to fine grained sand
, CHICASAWHAY, interbedded olive gray clay, white to gray sandy limestone and fine grained sand
, BUCATUNNA, olive gray clay with interbedded fine to medium grained sand and light green to brown mudstone
, VICKSBURG, white chalky limestone
, RED BLUFF, olive gray clay with interbedded white chalky limestone
, YAZOO, light olive gray clay with beds of white sandy chalky limestone
, PACHUTA MARL, white and brown chalky limestone
, NORTH TWISTWOOD CREEK CLAY, light olive gray clay with interbedded light green shale
, MOODYS BRANCH, white to gray sandy limestone
, COCKFIELD, predominantly olive gray clay, light green to brown silty shale and light brown, green, white sandy limestone
, COOK MOUNTAIN, part sandy chalky limestone
, SPARTA, interbedded olive gray clay, white gray and brown sandy limestone, light brown and gray green silty shale
, ZILPHA, predominantly light olive gray clay with minor interbedded white to light brown sandy shale
, WINONA, white, yelloy gray limestone, interbedded gray green silty shale
, TALLAHATTA, interbedded light olive gray clay, white gray and brown sandy chalky limestone, gray green and brown silty shale
, WILCOX, olive gray fine to very coarse grained sand, light greenish gray to brown silty shale with minor limestone and lignite
INITIALIZATION [date,authorities,field numbers,source] :

000000, OE Swanson, KA St. John, CAB, 2-45,47-54,61,63,70,72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,73,83, (2)
000000, OE Swanson, KA St. John, CAB, 82,83, (3)
000000, OE Swanson, KA St. John, CAB, 46,74, (4)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report; Site MRIG-10, ONWI-179
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII Appendix, ONWI-120
, (3) Slaughter, George M. et al, February 1983. Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Testing Company, ONWI-356
, (4) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 12

ACCESSION NUMBER :84
RECORD TYPE :borehole summary
WELL ID :, DOE-ROWELL MH-4A
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-15 deg-min
LONGITUDE :, 88-59 deg-min
SECTION,BLOCK :, Sec 3, T3N R10W
DRILLING COMPLETION DATE :, 790718 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 55.9, (183.3) meters(feet)
KELLY BUSHING ELEVATION :, 59.8, (196.3) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 823.1, (2700.65) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.3, (0-60)
, NR, 38.1, (15), 18.3, 122.8, (60-403)
, NR, 14.9, (9-7/8), 122.8, 823.0, (400-2701)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.3, (60)
, 27.3, (10-3/4), 121.9, (400)
, 16.8, (6-5/8), 763.5, (2505)
, 11.4, (4-1/2), 762.9, (2503)
, 11.4, (4-5/8), 769.3, (2524), .006 inch slotted screen
LITHOLOGIC LOGS :, YES, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, SP, acoustic, sonic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 54.3, (0-178)
, HATTIESBURG-CATAHOULA, 54.3, 245.1, (178-804)
, CATAHOULA (HETEROSTEGINA), 245.1, 283.5, (804-930)
, CATAHOULA (LOWER), 283.5, 348.1, (930-1142)

, CHICKASAWHAY, 348.1, 362.1, (1142-1188)
, BUCATUNNA, 362.1, 381.0, (1188-1250)
, VICKSBURG, 381.0, 401.7, (1250-1318)
, RED BLUFF, 401.7, 426.7, (1318-1400)
, YAZOO, 426.7, 443.5, (1400-1455)
, PACHUTA MARL, 443.5, 457.8, (1455-1502)
, NORTH TWISTWOOD CREEK CLAY, 457.8, 461.2, (1502-1513)
, MOODYS BRANCH, 461.2, 467.6, (1513-1534)
, COCKFIELD, 467.6, 510.2, (1534-1674)
, COOK MOUNTAIN, 510.2, 543.8, (1674-1784)
, SPARTA, 543.8, 600.5, (1784-1970)
, ZILPHA, 600.5, 629.1, (1970-2064)
, WINONA, 629.1, 638.3, (2064-2094)
, TALLAHATTA, 638.3, 711.7, (2094-2335)
, WILCOX, 711.7, 823.1, (2335-2701)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 229.0, 785.0, (751.5-2575.5)
, water samples, NR, NR, (2503-2524)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown, NR, 762.9, 769.4, (2503.2-2524.6), flowing well
HYDROGEOLOGIC MONITORING :, YES, water level initially monitored monthly, then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, gas analysis
, water samples
LITHOLOGY [formation,description]:
, CITRONELLE, yellow-brown medium sand
, HATTIESBURG-CATAHOULA, interbedded white to light grey fine sand and greenish-gray and pale red clay
, CATAHOULA(HETEROSTEGINA), white chalky sandy limestone and white fine sandstone
, CATAHOULA (LOWER), white, fine to medium-grained sandstone, pale brown to gray clay with interbedded white chalky limestone
, CHICKASAWHAY, tan to brown clay
, BUCATUNNA, white to gray sandy chalky limestone grading down into gray clay
, VICKSBURG LIMESTONE, white sandy limestone
, RED BLUFF, greenish gray clay and white to gray chalky limestone
, YAZOO CLAY, light brown to gray clay
, PACHUTA MARL, white to gray chalky limestone
, NORTH TWISTWOOD CREEK CLAY, pale brown and olive gray clay
, MOODYS BRANCH, white to olive green chalky silty limestone
, COCKFIELD, light brown and green clay, white to light green sandy limestone
, COOK MOUNTAIN, white and light gray chalky sandy limestone
, SPARTA, grey and brown clay, brown and green silty/sandy shale
, ZILPHA, green and brown clay and shale
, WINONA, light gray, brown, green marly limestone, fine sand

, TALLAHATTA, brown and green silty shale, white and light green-gray chalky sandy limestone
, WILCOX, predominantly gray, brown, green clay and clear and green fine to medium sand interbedded with marl
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 1-47,50,53-61,70,72,99 (1)
831031, OE Swanson, KA St. John, CAB, 51,52,60,62,63,71 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,73,74 (2)
831031, OE Swanson, KA ST. John, CAB, 49,60,72,83 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site MH-4, ONWI-173
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September
, (3) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report, Mississippi Study Area, Volume VII, July, ONWI-120

ITEM 13

ACCESSION NUMBER :175
RECORD TYPE :borehole summary
WELL ID :, DOE-Smith MRIH-11A
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-19 deg-min
LONGITUDE :, 88-60 deg-min
SECTION,BLOCK :, Sec 9, T4N R10
DRILLING COMPLETION DATE :, 791002 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 55.0, (180.4) meters(feet)
KELLY BUSHING ELEVATION :, 58.0, (190.5) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1841.3, (6041.15) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.1, (0-59.4)
, NR, 38.1, (15), 0.0, 245.4, (0-805)
, NR, 25.1, (9-7/8), 245.4, 1841.3, (805-6041.1)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.1, (59.46)
, 27.3, (10-3/4), 243.8, (800)
, 16.8, (6-5/8), 1280.5, (4201)
, 11.4, (4-1/2), 1289.9, (4160.9-4232)
, 11.4, (4-1/2), 1289.9, (4226-4231.86)
LITHOLOGIC LOGS :, YES, paleontology, well cuttings,
GEOPHYSICAL LOGS :, YES, induction electric, acoustic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG-CATAHOULA, 0.0, 213.4, (0-700)
, CATAHOULA (HETEROSTEGINA), 213.4, 237.7, (700-780)
, CATAHOULA (LOWER), 237.7, 298.7, (780-980)
, CHICKASAWHAY, 298.7, 334.4, (980-1097)
, BUCATUNNA, 334.4, 347.5, (1097-1140)

, VICKSBURG, 347.5, 366.1, (1140-1201)
, RED BLUFF, 366.1, 378.9, (1201-1243)
, YAZOO, 378.9, 395.3, (1243-1297)
, PACHUTA, 395.3, 413.9, (1297-1258)
, NORTH TWISTWOOD CREEK CLAY, 413.9, 420.0, (1358-1378)
, MOODYS BRANCH, 420.0, 424.6, (1378-1393)
, COCKFIELD, 424.6, 474.9, (1393-1558)
, COOK MOUNTAIN, 474.9, 509.0, (1558-1670)
, SPARTA, 509.0, 559.0, (1670-1834)
, ZILPHA, 559.0, 597.4, (1834-1960)
, WINONA, 597.4, 609.6, (1960-2000)
, TALLAHATTA, 609.6, 678.2, (2000-2225)
, WILCOX, 678.2, 1438.7, (2225-4720)
, MIDWAY, 1438.7, 1675.8, (4720-5498)
, CLAYTON, 1675.8, 1682.8, (5498-5521)
, SELMA CHALK, 1682.8, 1841.3, (5521-6041)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 1281.7, 1288.1, (4205-4226), during formation test
, sidewall cores, 254.5, 1788.6, (835-5868)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown and recovery, NR, 1281.7, 1288.1, (4205-4226), .006 mesh screen, 4-5/8 inch diameter
HYDROGEOLOGIC MONITORING :, YES, initial capacity testing, long-term water level monitoring. Water levels between (95.1 feet and 89.5 feet) 29.0-27.3m between 10/29/79 and 11/7/80. Water levels initially monitored monthly then quarterly.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, permeability tests
HYDROCHEMICAL TESTS [type,comments] :
, field tests
, permeability tests
LITHOLOGY [formation,description]:
, HATTIESBURG-CATAHOULA, interbedded medium to very coarse grained sand and yellow gray to olive gray clay
, CATAHOULA (HETEROSTEGINA), white, bioclastic sandy limestone. Interbedded yellowish gray clay and fine to very coarse grained sand
, LOWER CATAHOULA, white to light gray sandy chalky limestone, interbedded very fine to medium grained sand and light olive gray clay
, CHICKASAWHAY, white to tan locally sandy limestone, interbedded light olive gray clay and fine to medium grain sand
, VICKSBURG, white to gray chalky sandy limestone
, RED BLUFF, light olive gray clay and white chalky limestone
, YAZOO, mottled light olive gray and yellow gray clay
, PACHUTA, white to gray chalky locally sandy marl
, NORTH TWISTWOOD CREEK, light olive gray clay
, MOODYS BRANCH, white chalky sandy and bioclastic limestone
, COCKFIELD, interbedded yellow-gray-brown clay and greenish gray chalky limestone
, COOK MOUNTAIN, white chalky sandy to silty limestone

, SPARTA, interbedded olive-gray and yellow-brown clay, green gray silty shale and brown-green siltstone
, ZILPHA, predominantly olive gray clay, interbedded gray shale, brown siltstone and very fine to coarse sand
, WINONA, brownish gray to green siltstone, white sandy limestone
, TALLAHATTA, interbedded olive gray clay, light gray silty sandy limestone and light gray and brown siltstone
, WILCOX, interbedded white to gray fine grained sand, light gray siltstone gray-olive gray silty clay, gray brown silty shale, white gray sandy limestone
, MIDWAY, predominantly olive gray clay with interbedded fine grained silty sand and gray silty shale, Lignite, pyrite and glauconite common
, CLAYTON, white to light gray chalky silty limestone
, SELMA CHALK, interbedded olive gray clay, dark-gray to pale green silty shale and white, gray, pale green chalky silty limestone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-45,47-54,61,63,70, 72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 60,73,83, (2)
000000, OE Swanson, KA St. John, CAB, 82,83, (3)
000000, OE Swanson, KA St. John, CAB, 46,74, (4)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site MRIH-II, ONWI-180
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII Appendix, ONWI-120
, (3) Slaughter, George M. et al, February 1983. Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Testing Company, ONWI-356, (4) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 14

ACCESSION NUMBER :117
RECORD TYPE :borehole summary
WELL ID :, DOE-USA MCCG-1
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-09 deg-min
LONGITUDE :, 89-00 deg-min
SECTION,BLOCK :, Sec 9, T2N R10W
DRILLING COMPLETION DATE :, 790509 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 67.4, (221) meters(feet)
KELLY BUSHING ELEVATION :, 70.4, (231) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 575.7, (1888.91) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, saturated brine solution
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 76.2, (30), 0.0, 18.3, (0-60)
, NR, 43.2, (17), 18.3, 150.6, (60-494)
, NR, 27.9, (11), 150.6, 364.2, (494-1195)
, NR, 19.9, (7-7/8), 364.2, 575.7, (1195-1889)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 18.0, (59)
, 32.3, (12-1/2), 150.6, (494)

, 21.9, (8-5/8), 364.2, (1195)
LITHOLOGIC LOGS :, YES, paleontology,
GEOPHYSICAL LOGS :, YES, induction electric, SP, acoustic, acoustic televiewer, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, YES, conventional cores, photographs,
MUD LOGS :, YES, cutting samples, gas detector,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 6.7, (0-22)
, HATTIESBURG, 6.7, 360.3, (22-1182)
, CAPROCK, 360.3, 422.5, (1182-1386)
, SALT, 422.5, 575.7, (1386-1888.9)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 8.9, (3.5), 331.3, 349.0, (1087-1145)
, 8.9, (3.5), 364.2, 575.7, (1195-1889)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 195.1, 363.9, (640-1194)
, formation water samples, NR, NR, (1195-1370)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, straddle packer, NR, 417.6, 420.9, (1370-1381)
, initial capacity test, NR, NR, NR, NR
, NR, NR, 364.2, 417.3, (1195.2-1369.0)
HYDROGEOLOGIC MONITORING :, YES, water levels between 32.6 m (106.9 ft) and 31.8 m (104.6 ft) on 10/29/79 and 12/4/80 respectively. Initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, petrologic analysis
ROCK SAMPLE TESTS [type,comments] :
, elemental composition
HYDROCHEMICAL TESTS [type,comments] :
, gas analysis
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, V2-45,47-50,52-74 (1)
831031, OE Swanson, KA St. John, CAB, 51 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 73,74,46 (2)
831031, OE Swanson, KA St. John, CAB, 60,81 (3)
831031, OE Swanson, KA St. John, CAB, 82 (4)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site MCCG-1, ONWI-170
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September
, (3) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (4) Law Engineering Testing Company, 1983. Petrographic and Geochemical Characteristics of the Cypress Creek Salt Core, July, ONWI-365

ITEM 15

ACCESSION NUMBER :83

RECORD TYPE :borehole summary
WELL ID :, DOE-USA MCCG-2
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-11 deg-min
LONGITUDE :, 89-00 deg-min
SECTION,BLOCK :, Sec 33, T3N R10W
DRILLING COMPLETION DATE :, 790910 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 59.9, (196.89) meters(feet)
KELLY BUSHING ELEVATION :, 62.9, (206.73) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 913.5, (2997.2) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, bentonitic mud;
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 76.2, (30), 0.0, 18.4, (0-60.4)
, NR, 43.2, (17), 18.4, 126.6, (60.4-415.5)
, NR, 25.1, (9-7/8), 126.6, 913.5, (415.5-2997)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 50.8, (20), 18.4, (60.4)
, 32.3, (12-3/4), 125.9, (413)
, 16.8, (6-5/8), 813.7, (2669.5)
, 11.4, (4-1/2), 812.3, (2665)
, 11.8, (4-5/8), 816.0, (2677), .006 slotted screen
LITHOLOGIC LOGS :, YES, paleontology,
GEOPHYSICAL LOGS :, YES, electric, induction electric, electric survey, SP, acoustic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, QUATERNARY, 0.0, 16.8, (0-55)
, HATTIESBURG-CATAHOULA, 16.8, 396.2, (55-1300)
, CATAHOULA (HETEROSTEGINA), 396.2, 423.7, (1300-1390)
, CATAHOULA (LOWER), 423.7, 442.0, (1390-1450)
, CHICKASAWHAY, 442.0, 507.5, (1450-1665)
, BUCATUNNA, 507.5, 535.2, (1665-1756)
, VICKSBURG , 535.2, 584.3, (1756-1917)
, RED BLUFF, 584.3, 614.2, (1917-2015)
, YAZOO, 614.2, 631.6, (2015-2072)
, COCOA SAND, 631.6, 651.7, (2072-2138)
, NORTH TWISTWOOD CREEK CLAY, 651.7, 655.3, (2138-2150)
, MOODYS BRANCH, 655.3, 662.9, (2150-2175)
, COCKFIELD, 662.9, 717.8, (2175-2355)
, COOK MOUNTAIN, 717.8, 771.8, (2355-2532)
, SPARTA, 771.8, 819.9, (2532-2690)
, ZILPHA, 819.9, 845.8, (2690-2775)
, WINONA, 845.8, 855.9, (2775-2808)
, TALLAHATTA, 855.9, 913.5, (2808-2997)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA

SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 143.3, 899.2, (470-2950)
, groundwater samples, 812.5, 815.7, (2665-2676)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, aquifer, NR, 812.5, 815.7, (2665.6-2676.1)
HYDROGEOLOGIC MONITORING :, YES, long-term water level monitoring. Water levels between 31.0m (101.9 feet) and 30.6m (100.4 feet) from 9/29/79 to 12/4/80. Initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, QUATERNARY, upper 5 ft sand followed by white, red, orange sandy to silty clay
, HATTIESBURG-CATAHOULA, sand medium to coarse, clay light gray to olive gray, black lignite, and vari colored limestone
, CATAHOULA (HETEROSTEGINA), fine to medium grained sand and white to gray limestone
, CHICKASAWHAY, very fine to medium grained sand, white chalky limestone
, BUCATUNNA, very fine to coarse sand, yellow to olive gray clay
, VICKSBURG LIMESTONE, white chalky limestone with minor sand, clay, mudstone and dolomite
, RED BLUFF, yellow-gray clay, fine to medium grained sand, white to gray limestone
, YAZOO CLAY, yellowish gray clay
, COCOA SAND, quartz, fine to medium sand
, NORTH TWISTWOOD CREEK CLAY, light olive grey clay
, MOODYS BRANCH, very fine sand, white chalky limestone, brown silty mudstone
, COCKFIELD, yellowish gray and light clay, very fine to medium sand
, COOK MOUNTAIN, white to gray limestone
, SPARTA, light olive gray and yellow-gray silty clay, white and gray fine sand
, ZILPHA, yellowish gray clay, brown silty mudstone
, WINONA, white limestone, clear to pale green very fine sand
, TALLAHATTA, yellowish gray and tan clay, silty hard shale, brown silty mudstone
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 22-45,47-50,53-61,70,72,74,99 (1)
831031, OE Swanson, KA St. John, CAB, 46,73,74 (2)
831031, OE Swanson, KA St. John, CAB, 60,72 (3)
831031, OE Swanson, KA St. John, CAB, 51,52,62,71,63 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report; Site MCCG-2, ONWI-171
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September
, (3) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report, Mississippi Study Area, Volume VII, July, ONWI-120

ITEM 16

ACCESSION NUMBER :81
RECORD TYPE :borehole summary
WELL ID :, DOE-USA MCCH-3B
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome

COUNTY,STATE : , Perry, MS
LATITUDE : , 31-05 deg-min
LONGITUDE : , 89-00 deg-min
SECTION,BLOCK : , Sec 33, T2N R10W
DRILLING COMPLETION DATE : , 790529 (yymmdd)
BOREHOLE STATUS : , observation
GROUND LEVEL ELEVATION : , 78.6, (258.1) meters(feet)
KELLY BUSHING ELEVATION : , 81.7, (267.9) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE : , 1249.8, (4100.3) meters(feet)
DRILLING TECHNIQUE : , rotary;
DRILLING FLUID PROGRAM : , bentonitic mud;
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.3, (0-60)
, NR, 38.1, (15), 18.3, 125.6, (60-412)
, NR, 25.1, (9.87), 125.6, 1249.7, (412-4100)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.3, (60)
, 27.3, (10-3/4), 123.4, (405)
, 16.8, (6-5/8), 1051.6, (3450)
, 11.4, (4-1/2), 1050.7, (3447)
, 11.8, (4-5/8), 1063.8, (3490), .006 inch slotted screen
LITHOLOGIC LOGS : , YES, paleontology,
GEOPHYSICAL LOGS : , YES, induction electric, acoustic, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS : , NO,
MUD LOGS : , YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 35.1, (0-115)
, HATTIESBURG-CATAHOULA (UPPER), 35.1, 528.8, (115-1735)
, CATAHOULA (HETEROSTEGINA), 528.8, 612.7, (1735-2010)
, CATAHOULA (LOWER), 612.7, 641.9, (2010-2106)
, CHICKASAWHAY, 641.9, 676.7, (2106-2220)
, BUCATUNNA, 676.7, 695.6, (2220-2282)
, VICKSBURG, 695.6, 762.0, (2282-2500)
, RED BLUFF, 762.0, 791.9, (2500-2598)
, YAZOO, 791.9, 810.8, (2598-2660)
, PACHUTA MARL, 810.8, 847.4, (2660-2780)
, COCOA SAND, 810.8, 847.4, (2660-2780)
, NORTH TWISTWOOD CREEK CLAY, 847.4, 850.4, (2780-2790)
, MOODYS BRANCH, 850.4, 861.7, (2790-2827)
, COCKFIELD, 861.7, 947.9, (2827-3110)
, COOK MOUNTAIN, 947.9, 1021.1, (3110-3350)
, SPARTA, 1021.1, 1065.3, (3350-3495)
, ZILPHA, 1065.3, 1079.6, (3495-3542)
, WINONA, 1079.6, 1094.2, (3542-3590)
, TALLAHATTA, 1094.2, 1246.6, (3590-4090)
, WILCOX, 1246.6, 1249.8, (4090-4100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 523.0, 1246.6, (1716-4090)

, water samples, 1050.7, 1063.8, (3447-3490)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 1050.7, 1063.8, (3447-3490)
HYDROGEOLOGIC MONITORING :, YES, water level monitoring. Initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, permeability analysis
HYDROCHEMICAL TESTS [type,comments] :
, permeability analysis
LITHOLOGY [formation,description]:
, CITRONELLE, white to brown fine to coarse sand
, HATTIESBURG-CATAHOULA, interbedded sand and clay with prominead gravel beds
, HETERSTEGINA ZONE, gray to white chalky limestone, light olive gray clay
, LOWER CATAHOULA, interbedded gray chalky limestone, medium to coarse sand, and light gray clay
, CHICKASAWHAY, fine to medium white sand and light olive gray clay
, BUCATUNNA, gray clay, traces of lignite, and pyrite, limestone and sand
, VICKSBURG, light gray limestone
, RED BLUFF, gray limestone with interbedded light olive-gray clay and fine to medium grained sand
, YAZOO CLAY, light olive-gray clay
, PACHUTA MARL and COCOA SAND, gray claystone, light gray fine and medium-grained sand, light olive gray clay
, NORTH TWISTWOOD CREEK CLAY, light olive gray clay
, MOODYS BRANCH, gray to white limestone and gray, fine sand
, COCKFIELD, interbedded gray, fine to coarse sand, sandy limestone, mottled gray and red-brown clay
, COOK MOUNTAIN, light gray sandy limestone
, SPARTA, interbedded olive gray clay, gray limestone, fine to coarse sand beds. Pyrite common
, ZILPHA, mottled light olive gray and dark gray clay, greenish gray shale
, WINONA, light gray and green fine to coarse sand, pale brown limestone with interbedded olive gray clay
, TALLAHATTA, pale brown and greenish gray shale, light gray limestone, olive gray clay
, WILCOX, light olive gray clay, coarse sand, abundant glauconite
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-45,47,50,53-61,70,72,73,74,99 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 49,60,72 (3)
831031, OE Swanson, KA St. John, CAB, 82,83 (4)
831031, OE Swanson, KA St. John, CAB, 51,52,62,63,71 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site MCCH-3, ONWI-172
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September
, (3) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report, Mississippi Study Area, Volume VII, July, ONWI-120
, (4) Slaughter, G. M. et al, February 1983, Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Testing Company, ONWI-356

ITEM 17

ACCESSION NUMBER :82
RECORD TYPE :borehole summary

WELL ID : DOE-USA MH-5A
BASIN,SUBBASIN : Gulf Interior, Cypress Creek Dome
COUNTY,STATE : Forrest, MS
LATITUDE : 31-04 deg-min
LONGITUDE : 89-18 deg-min
SECTION,BLOCK : Sec 4, T1N R13W
DRILLING COMPLETION DATE : 790630 (yymmdd)
BOREHOLE STATUS : observation
GROUND LEVEL ELEVATION : 96.3, (315.8) meters(feet)
KELLY BUSHING ELEVATION : 99.4, (326.1) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE : 1094.0, (3589.3) meters(feet)
DRILLING TECHNIQUE : rotary;
DRILLING FLUID PROGRAM : bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.6, (0-61)
, NR, 38.1, (15), 0.0, 125.0, (0-410)
, NR, 25.1, (9-7/8), 0.0, 976.0, (0-3202)
, NR, 14.9, (5-7/8), 976.0, 1094.0, (3202-3589)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.3, (60)
, 27.3, (10-3/4), 121.0, (397)
, 16.8, (6-5/8), 899.8, (2952)
, 11.4, (4-1/2), 1073.2, (3521)
, 11.4, (4-1/2), 1094.0, (3589)
, 11.8, (4-5/8),1079.6, (3542), .006 inch slotted screen
LITHOLOGIC LOGS : YES, paleontology,
GEOPHYSICAL LOGS : YES, induction electric, SP, acoustic, gamma, gamma-gamma, neutron porosity, caliper, temperature,
CORE LOGS : NO,
MUD LOGS : YES,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 24.4, (0-80)
, HATTIESBURG-CATAHOULA, 24.4, 451.1, (80-1480)
, CATAHOULA (HETEROSTEGINA), 451.1, 466.3, (1480-1530)
, CATAHOULA (LOWER), 466.3, 946.8, (1530-1630)
, CHICKASAWHAY, 946.8, 520.0, (1630-1706)
, BUCATUNNA, 520.0, 526.4, (1706-1727)
, VICKSBURG, 526.4, 577.3, (1727-1894)
, RED BLUFF, 577.3, 599.2, (1894-1966)
, YAZOO, 599.2, 609.6, (1966-2000)
, PACHUTA MARL, 609.6, 637.6, (2000-2092)
, NORTH TWISTWOOD CREEK CLAY, 637.6, 640.7, (2092-2102)
, MOODYS BRANCH, 640.7, 643.7, (2102-2112)
, COCKFIELD, 643.7, 666.3, (2112-2186)
, COOK MOUNTAIN, 666.3, 710.2, (2186-2330)
, SPARTA, 710.2, 768.1, (2330-2520)
, ZILPHA, 768.1, 787.0, (2520-2582)
, WINONA, 787.0, 794.3, (2582-2606)
, TALLAHATTA, 794.3, 852.2, (2606-2796)
, WILCOX, 852.2, 1094.0, (2796-3589.3)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 289.6, 1082.7, (950-3552)
, groundwater samples, 1073.2, 1079.6, (3521-3542)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 1073.2, 1079.6, (3521-3542)
HYDROGEOLOGIC MONITORING :, YES, long term water level monitoring, water levels between 56.1 m (184.2 ft) to 53.4 m (175.6 ft) from 7/2/79 to 12/2/80. Initially monitored monthly then quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, white, clear, pink and orange very fine to coarse grained sand
, HATTIESBURG-CATAHOULA, interbedded very fine to coarse sand and light grays and brown clay
, CATAHOULA (HETEROSTEGINA), white, part sandy, bioclastic limestone, clear fine sand and yellow gray slightly silty sand
, CATAHOULA (LOWER), interbedded clear fine sand, grayish clay and sandy chalky limestone
, CHICKASAWHAY, interbedded grayish clay and clear, some black fine partly silty sand
, BUCATUNNA, gray clay
, VICKSBURG, white sandy limestone
, RED BLUFF, grayish clay, white sandy limestone, clear and gray very fine grained sand
, YAZOO, gray and yellowish gray silty clay
, PACHUTA MARL, gray and brownish gray clay, white and light gray limestone
, NORTH TWISTWOOD CREEK CLAY, gray clay
, MOODYS BRANCH, olive gray clay and white sandy limestone
, COCKFIELD, white and gray sandy limestone, greenish fine sandstone, gray clay
, COOK MOUNTAIN, white and light gray sandy limestone
, SPARTA, white sandy part silty limestone, grayish silty sandy clay, white, locally black fine grained sand
, ZILPHA, brown and olive gray clay
, WINONA, brownish silty clay and light gray, olive gray, green sandy siltstone
, TALLAHATTA, interbedded brownish clay, white and light gray fine sandstone, grayish sandy siltstone
, WILCOX, grayish clay, light gray, greenish gray sand and sandstone, white, gray and pink limestone, light to dark gray siltstone and brownish black lignite
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-45,47,50,53-61,63,70,72,74,99 (1)
831031, OE Swanson, KA St. John, CAB, 46,73,74 (2)
831031, OE Swanson, KA St. John, CAB, 49,60,72 (3)
831031, OE Swanson, KA St. John, CAB, 51,52,62,71 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site MH-5, ONWI-174
, (2) Ertec Inc, 1983, Annual Report-1983 Pontentiometric-Level Monitoring Program Mississippi and Louisiana, September
, (3) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report, Mississippi Study Area, Volume VII, July, ONWI-120

ITEM 18

ACCESSION NUMBER ;118
RECORD TYPE ;borehole summary
WELL ID ;, MCCG-101
BASIN,SUBBASIN ;, Gulf Interior, Cypress Creek Dome
COUNTY,STATE ;, Perry, MS
LATITUDE ;, NR deg-min
LONGITUDE ;, NR deg-min
SECTION,BLOCK ;, Sec 4, T2N R10W
DRILLING COMPLETION DATE ;, 790419 (yymmdd)
BOREHOLE STATUS ;, observation
GROUND LEVEL ELEVATION ;, 71.4, (234.5) meters(feet)
KELLY BUSHING ELEVATION ;, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE ;, 51.9, (170.5) meters(feet)
DRILLING TECHNIQUE ;, mud rotary;
DRILLING FLUID PROGRAM ;, fresh water mud from surface to 47.5m (156 feet)
DRILLING PROGRAM [bit,dia,-cm(in),interval-m(ft),comments] :
, NR, 20.3, (8), 0.0, 47.2, (0-155)
, NR, 12.7, (5), 47.2, 51.9, (155-170)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 47.3, (155.61), PVC
LITHOLOGIC LOGS ;, YES, field boring log, well cuttings,
GEOPHYSICAL LOGS ;, YES, gamma, electric,
CORE LOGS ;, NO,
MUD LOGS ;, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 9.8, (0-32)
, HATTIESBURG, 9.8, 51.8, (32-170)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num,,interval in meters(ft),comments]:
, drill stem, NR, 47.2, 50.3, (155-165), HATTIESBURG
HYDROGEOLOGIC MONITORING ;, YES, Water levels between 50.0m (164.13 ft) and 50.5m (165.72 ft) on 1/25/80 and 4/1/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, (ASTM D 2487-69, 2488-69)
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, gray white to red-brown very silty clay and to brown silty fine sand
, HATTIESBURG, gray-green silty clays interbedded with clayey silts of low-medium plasticity
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-5,70,73-74,47-61,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)

831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 19

ACCESSION NUMBER :119
RECORD TYPE :borehole summary
WELL ID :, MCCG-102
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 21, T2N R10W
DRILLING COMPLETION DATE :, 790430 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 75.5, (247.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 61.1, (200.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 58.2m (191 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 61.1, (0-200.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 58.0, (190.67), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistivity, SP,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 35.1, (0-115)
, HATTIESBURG, 35.1, 61.0, (115-200)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 57.9, 61.0, (190-200), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water levels between 56.7m (186) and 57.0m (187) on 1/29/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR

LITHOLOGY [formation,description]:
, CITRONELLE, gray and orange-red to pink mottled silty clay interbedded with pink to red silty fine sand
, HATTIESBURG, gray to tan silty clay interbedded with dark gray to tan clayey silt and silty fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-44,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 20

ACCESSION NUMBER	:120
RECORD TYPE	:borehole summary
WELL ID	:, MCCG-103
BASIN,SUBBASIN	:, Gulf Interior, Cypress Creek Dome
COUNTY,STATE	:, Perry, MS
LATITUDE	:, NR deg-min
LONGITUDE	:, NR deg-min
SECTION,BLOCK	:, Sec 28, T2N R10W
DRILLING COMPLETION DATE	:, 790518 (yymmdd)
BOREHOLE STATUS	:, capped
GROUND LEVEL ELEVATION	:, 75.7, (248.5) meters(feet)
KELLY BUSHING ELEVATION	:, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 82.3, (270) meters(feet)
DRILLING TECHNIQUE	:, mud rotary:
DRILLING FLUID PROGRAM	:, fresh water mud from surface to 79.2m (260 feet)

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 82.3, (0-270)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 79.3, (260.52), PVC

LITHOLOGIC LOGS	:, YES, well cuttings,
GEOPHYSICAL LOGS	:, YES, gamma,
CORE LOGS	:, NO,
MUD LOGS	:, NO,

FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 38.1, (0-125)
, HATTIESBURG, 38.1, 82.3, (125-270)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 79.2, 82.3, (260-270), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water levels between 56.4m (185 ft) and 56.7m (186 ft) on 2/18/80 and 4/29/80 respectively. Monitored quarterly until June 1983, casing hole filled in

GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red to pink silty clay, silty clayey fine sand and yellow-brown clayey sand with medium-fine quartz and chert gravel
, HATTIESBURG, blue-gray to gray-blue sandy silty clay to clayey silt to silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,6371,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 21

ACCESSION NUMBER :116
RECORD TYPE :borehole summary
WELL ID :, MCCG-104
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 5, T2N R10W
DRILLING COMPLETION DATE :, 790508 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 73.5, (241) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 29.1, (95.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 26.2 m (86 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 29.1, (0-95.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 26.0, (85.89), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 10.7, (0-35)

, HATTIESBURG, 10.7, 29.0, (35-95)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 25.9, 29.0, (85-95), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water levels between 63.1 m (207 ft) and 63.4 m (208 ft) on 2/18/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, orange-tan clayey fine sandy silt to gray-brown sand
, HATTIESBURG, grayish silty clay with clayey silt and clayey fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 22

ACCESSION NUMBER :73
RECORD TYPE :borehole summary
WELL ID :, MCCG-105
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 5, T2N R10W
DRILLING COMPLETION DATE :, 790513 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 83.2, (272.9) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 27.5, (90.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary:
DRILLING FLUID PROGRAM :, fresh water mud from surface to 24.4(80) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 27.5, (0-90.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:

, 5.1, (2), 24.4, (80.02), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 9.8, (0-32)
, HATTIESBURG, 9.8, 27.4, (32-90)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 24.4, 27,4, (80-90), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water levels between 71.9(236) and 72.5(238) meters(feet) on 2/18/80 and 4/29/80 respectively.
Monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown and orange clayey fine sandy silt to red and orange clayey silty sand
, HATTIESBURG, gray silty clay interbedded with yellow fine sand and sandy clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,70,73-74,47-61,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 23

ACCESSION NUMBER :74
RECORD TYPE :borehole summary
WELL ID :, MCCG-106
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 4, T2N R10W
DRILLING COMPLETION DATE :, 790512 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 79.1, (259.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 33.6, (110.5) meters(feet)

DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 30.5(100) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 33.6, (0-110.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 30.5, (100), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistivity,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 22.9, (0-75)
, HATTIESBURG, 22.9, 33.5, (75-110)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 30.5, 33.5, (100-110), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level at 71.3 (234) meters (feet) on 6/16/79
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown clayey, silty, fine sand to gray silty, clayey, fine sand with gray-white/red silty clay
, HATTIESBURG, gray fine sandy, clayey silt to gray-green and red silty, locally plastic clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf CoastSalt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 24

ACCESSION NUMBER :115
RECORD TYPE :borehole summary
WELL ID :, MCCG-107
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 8, T2N R10W
DRILLING COMPLETION DATE :, 790502 (yymmdd)

BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 76.9, (252.6) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 29.1, (95.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 25.9 m (85 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 29.1, (0-95.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 26.0, (85.43), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 25.9, 29.0, (85-95), CITRONELLE
HYDROGEOLOGIC MONITORING :, YES, water level between 68.9 m (226 ft) and 70.1 m (230 ft) on 2/18/80 and 4.24.80 respectively, monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 25

ACCESSION NUMBER :114
RECORD TYPE :borehole summary
WELL ID :, MCCG-108
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome

COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 9, T2N R10W
DRILLING COMPLETION DATE :, 790516 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 6.1, (20.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NA
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, NR, NR, NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NA, NA, NA, NA
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, NO,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 6.1, (0-20)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE, hole backfilled
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, gray clayey silty fine sand and silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 26

ACCESSION NUMBER :113
RECORD TYPE :borehole summary

WELL ID :, MCCG-109
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 9, T2N R10W
DRILLING COMPLETION DATE :, 790515 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 6.2, (20.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 6.2, (20.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NA
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, NR, NR, NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NA, NA, NA, NA
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, NO,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, ALLUVIUM, 0.0, 3.7, (0-12)
, CITRONELLE, 3.7, 6.2, (12-20)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, ALLUVIUM, interbedded dark gray fine sandy clayey silt and silty fine sand
, CITRONELLE, gray to white silty, clayey fine sand with local subangular gravel
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,70,73-74,47-61,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 27

ACCESSION NUMBER :75
RECORD TYPE :borehole summary
WELL ID :, MCCG-110
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 10, T2N R10W
DRILLING COMPLETION DATE :, 790512 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 73.4, (240.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 26.2, (86) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 23.5 (77) meters (feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 26.2, (0-86)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 23.3, (76.84), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 22.9, (0-75)
, HATTIESBURG, 22.9, 26.2, (75-86)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 23.2, 26.2, (76-86), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level between 63.1 (207) and 63.4 (208) meters (feet) on 1/25/80 and 4/29/80 respectively. Monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, grayish clayey, silty sand to silty clay to sandy silt to sandy clay to silty very fine sand
, HATTIESBURG, gray very fine sandy, very silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)

831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 28

ACCESSION NUMBER :76
RECORD TYPE :borehole summary
WELL ID :, MCCG-111
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 8, T2N R10W
DRILLING COMPLETION DATE :, 790516 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 63.3, (207.9) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.7, (120.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 33.5(110) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 33.5, (110.49), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 33.5, 36.6, (110-120), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, minimum water level 63.4 (208) meters (feet) on 3/29/80, flowing well 4/29/80, Monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:

, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 29

ACCESSION NUMBER :112
RECORD TYPE :borehole summary
WELL ID :, MCCG-112
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 11, T2N R10W
DRILLING COMPLETION DATE :, 790426 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 96.7, (317.7) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 55.0, (180.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 51.8 m (170 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 55.0, (0-180.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 50.3, (0-165)
, HATTIESBURG, 50.3, 54.9, (165-180)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 51.8, 54.9, (170-180), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level between 59.1 m (194 ft) and 58.2 m (191 ft) on 1/25/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :

, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, orange-red to brown to gray-tan to white fine sand interbedded with silty clays
, HATTIESBURG, blue-gray and brown mottled fine sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,42-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 30

ACCESSION NUMBER :111
RECORD TYPE :borehole summary
WELL ID :, MCCG-113
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 790501 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 82.1, (269.4) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 26.0, (85.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 22.9m (75 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 26.0, (0-85.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 23.0, (75.52), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE

FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 22.9, 25.9, (75-85), CITRONELLE
HYDROGEOLOGIC MONITORING :, YES, water level between 64.6 m (212 ft) and 65.5 m (215 ft) on 2/18/80 and 4/29/80 respectively. Monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-73,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 31

ACCESSION NUMBER :110
RECORD TYPE :borehole summary
WELL ID :, MCCG-114
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 15, T2N R10W
DRILLING COMPLETION DATE :, 790509 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 70.6, (231.9) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 23.0, (75.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 19.8m (65 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 23.0, (0-75.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 19.9, (65.61), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 23, (0-75)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 19.8, 22.9, (65-75), CITRONELLE
HYDROGEOLOGIC MONITORING :, YES, water level between 62.5m (205 ft) and 63.1m (207 ft) on 1/29/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown to tan fine sand interbedded with gray sandy silty clay and orange silty medium-fine sand and quartz, chert gravel
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 32

ACCESSION NUMBER :77
RECORD TYPE :borehole summary
WELL ID :, MCCG-115
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 20, T2N R10W
DRILLING COMPLETION DATE :, 790515 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 57.7, (189.7) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 47.3, (155.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 44.2(145) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 47.3, (0-155.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 44.2, (145.58), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,

FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 22.9, (0-75)
, HATTIESBURG, 22.9, 47.2, (75-155)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 44.2, 47.2, (145-155), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level between 57.5 (188.5) and 57.6 (189) meters (feet) on 1/25/80 and 4/29/80 respectively. Monitored quarterly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown to gray silty fine sand to chert gravel and tan sandy, clayey silt and gray silty clay
, HATTIESBURG, gray silty clay with brownish clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,7073-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,6371,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 33

ACCESSION NUMBER :109
RECORD TYPE :borehole summary
WELL ID :, MCCG-116
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, NR
BOREHOLE STATUS :, capped - not surveyed
GROUND LEVEL ELEVATION :, 54.9, (180) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 7.7, (25.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NA
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :

, NR, NR, NR, NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, NO,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 7.7, (0-25)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, grayish-sandy clayey silt and silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report
Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area,
Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 34

ACCESSION NUMBER :78
RECORD TYPE :borehole summary
WELL ID :, MCCG-117
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 28, T2N R10W
DRILLING COMPLETION DATE :, 790517 (yymmdd)
BOREHOLE STATUS :, complete

GROUND LEVEL ELEVATION :, 75, (246.2) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 33.6, (110.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 30.5(100) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 33.6, (0-110.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 30.6, (100.53)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 33.5, (0-110)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 30.5, 33.5, (100-110), CITRONELLE
HYDROGEOLOGIC MONITORING :, YES, water level between 62.8 (206) and 63.7 (209) meters (feet) on 1/29/80 and 4/30/80 respectively. Monitored quarterly until December 1982, well destroyed
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, pink silty coarse to fine sand with quartz and chert gravel
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 35

ACCESSION NUMBER :79
RECORD TYPE :borehole summary
WELL ID :, MCCG-118
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome

COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 22, T2N R10W
DRILLING COMPLETION DATE :, 790428 (yymmdd)
BOREHOLE STATUS :, complete
GROUND LEVEL ELEVATION :, 71.6, (235.3) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.6, (100.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 27.4(90) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 30.6, (0-100.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 27.5, (90.54), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 17.7, (0-58)
, HATTIESBURG, 17.7, 30.5, (58-100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 27.4, 30.5, (90-100), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level between 60.7 (199) and 61.9 (203) meters (feet) on 1/29/80 and 4/30/80 respectively. Monitored quarterly until December 1982, well destroyed
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, light gray sandy silty clay and sand with trace of chert gravel
, HATTIESBURG, light gray very silty clay and slightly clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 36

ACCESSION NUMBER :127
RECORD TYPE :borehole summary
WELL ID :, MCCG-119
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 33, T3N R10W
DRILLING COMPLETION DATE :, 790510 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 61.0, (200.3) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 24.5, (80.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, fresh water mud from surface to 21.6(71) meters(feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 24.5, (0-80.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 21.5, (70.8), PVC
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 4.6, (0-15)
, HATTIESBURG, 4.6, 24.4, (15-80)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 21.3, 24.4, (70-80), HATTIESBURG
HYDROGEOLOGIC MONITORING :, YES, water level between 51.8m (170.1 ft) and 51.9m (170.3 ft) on 1/25/80 and 3/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, orange silty fine sand and sandy clayey silt
, HATTIESBURG, gray silty clay interbedded with clayey silt and very silty very fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74 (3)
SOURCES:

, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 37

ACCESSION NUMBER :80
RECORD TYPE :borehole summary
WELL ID :, MCCG-120
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, NR
DRILLING COMPLETION DATE :, 790517 (yymmdd)
BOREHOLE STATUS :, capped - not surveyed
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 4.0, (13) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NA
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, NR, NR, NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, NO,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 4.0, (0-13)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, gray fine sandy clayey silt and mottled silty clay
INITIALIZATION [date,authorities,field numbers,source] :

830926, OE Swanson, KA St. John, CAB, 2-45,47-61,70,73-74,80 (1)
831031, OE Swanson, KA St. John, CAB, 46,74 (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :126
RECORD TYPE :borehole summary
WELL ID :, MCCG-201
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 29, T2N R10W
DRILLING COMPLETION DATE :, 800429 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 45.8, (150.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 45.8, (0-150.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 29.6, (0-97)
, HATTIESBURG, 29.6, 45.7, (97-150)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR

LITHOLOGY [formation,description]:
, CITRONELLE, red-yellow-orange silty sand, light gray silty clays with gray-green clayey silts, silty fine sands
, HATTIESBURG, gray-green sandy clay, sandy silt, silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 39

ACCESSION NUMBER :125
RECORD TYPE :borehole summary
WELL ID :, MCCG-202
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 15, T2N R10W
DRILLING COMPLETION DATE :, 800429 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.6, (100.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 30.6, (0-100.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 20.4, (0-67)
, HATTIESBURG, 20.4, 30.5, (67-100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :

, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, light gray-tan silty clays with clayey silt and silty sand
, HATTIESBURG, grayish-green clay and fine sandy silt
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 40

ACCESSION NUMBER :124
RECORD TYPE :borehole summary
WELL ID :, MCCG-203
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 18, T2N R10W
DRILLING COMPLETION DATE :, 800427 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 72.8, (236.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.2, (99) meters(feet)
DRILLING TECHNIQUE :, mud rotary:
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 30.2, (0-99)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 6.7, (0-22)
, HATTIESBURG, 6.7, 30.2, (22-99)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish-brown gravelly silty medium to fine sand
, HATTIESBURG, greenish gray silty clay, fine sandy clayey silt and silty medium sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :123
RECORD TYPE :borehole summary
WELL ID :, MCCG-204
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 7, T2N R10W
DRILLING COMPLETION DATE :, 800428 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 75.9, (249.3) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 33.6, (110.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary:
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 33.6, (0-110.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,

GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 33.5, (0-110)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :YES, water levels monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, mainly red-brown to pink silty, clayey, sand with local gravel, some sandy clayey silt and gray-brown clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI 165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :122
RECORD TYPE :borehole summary
WELL ID :, MCCG-206
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 21, T2N R10W
DRILLING COMPLETION DATE :, 800422 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 68.7, (225.7) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 48.9, (160.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 48.9, (0-160.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 23.8, (0-78)
, HATTIESBURG, 23.8, 48.8, (78-160)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red, orange, yellow, and gray silty fine sands
, HATTIESBURG, grayish green clayey sandy silt and clayey silty sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI 165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :108
RECORD TYPE :borehole summary
WELL ID :, MCCG-207
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 7, T2N R10W

DRILLING COMPLETION DATE :, 800427 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 55.0, (180.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NR
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 55.0, (0-180.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 43.3, (0-142)
, HATTIESBURG, 43.3, 55.0, (142-180)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown silty sand, some gravel and sandy silt
, HATTIESBURG, gray-green sandy silty clay, sandy clayey silt and silty clayey sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc. 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :107

RECORD TYPE :borehole summary
WELL ID :, MCCG-208
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 21, T2N R10W
DRILLING COMPLETION DATE :, 800422 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 71.9, (236) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 58.0, (190.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 58.0, (0-190.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 50.3, (0-165)
, HATTIESBURG, 50.3, 57.9, (165-190)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown and gray-greens clay and clayey silt with gravel
, HATTIESBURG, grayish to greenish clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165

, (2) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

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ACCESSION NUMBER :121
RECORD TYPE :borehole summary
WELL ID :, MCCG-209
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 800509 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, (188) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.6, (100.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 30.6, (0-100.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, ALLUVIUM, 0.0, 4.3, (0-14)
, CITRONELLE, 4.3, 12.5, (14-41)
, HATTIESBURG, 12.5, 30.5, (41-100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, ALLUVIUM, black-brown organic silt with wood fragments and brownish-gray gravelly silty coarse to fine sand

, CITRONELLE, brown-grayish gravelly sand to silty sand
, HATTIESBURG, yellow-gray sand with sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 46

ACCESSION NUMBER :85
RECORD TYPE :borehole summary
WELL ID :, MCCG-210
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 19, T2N R10W
DRILLING COMPLETION DATE :, 800426 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 75.9, (249.1) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 54.6, (179) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 54.6, (0-179)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 41.1, (0-135)
, HATTIESBURG, 41.1, 54.6, (135-179)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num,,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests

GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown sandy silt, clayey silty sand to brown and gray silty clay, clayey silt, silty sands
, HATTIESBURG, gray-green clays with some sandy clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
831031, OE Swanson, KA St. John, CAB, 81 (2)
831031, OE Swanson, KA St. John, CAB, 73 (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74 (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, July, ONWI-120
, (3) Ertec, Inc, 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana, September

ITEM 47

ACCESSION NUMBER :86
RECORD TYPE :borehole summary
WELL ID :, MCCG-211
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 21, T2N R10W
DRILLING COMPLETION DATE :, 800423 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 74.7, (245) meters(feet)
KELLY BUSHING ELEVATION :, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 45.6, (150.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5.87), 0.0, 45.6, (0-150.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 32.0, (0-105)
, HATTIESBURG, 32.0, 45.7, (105-150)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA

SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown and yellowish sandy silt with silty clayey sand and sandy silty clay
, HATTIESBURG, gray-green to yellow-orange sandy, locally clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec, Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 48

ACCESSION NUMBER :105
RECORD TYPE :borehole summary
WELL ID :, MCCG-212
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 8, T2N R10W
DRILLING COMPLETION DATE :, 800430 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 64.6, (212) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 26.0, (85.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 26.0, (0-85.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric, gamma,

CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, ALLUVIUM, 0.0, 1.2, (0-4)
, CITRONELLE, 1.2, 12.8, (4-42)
, HATTIESBURG, 12.8, 25.9, (42-85)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, ALLUVIUM, grayish orange silty fine sand
, CITRONELLE, reddish-gray sandy silty clay and silty sand
, HATTIESBURG, olive green and yellowish brown silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 49

ACCESSION NUMBER :106
RECORD TYPE :borehole summary
WELL ID :, MCCG-213
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, Ms
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 22, T2N R10W
DRILLING COMPLETION DATE :, 800508 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl

TOTAL DEPTH OF BOREHOLE :, 36.7, (120.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 28.0, (0-92)
, HATTIESBURG, 28.0, 36.6, (92-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, predominantly gray-green silty clays with some silty sand
, HATTIESBURG, olive green sandy silt, silty sand and silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec, Inc, September 1983, Annual Report-1983 Potentometric-Level Monitoring Program Mississippi and Louisiana

ITEM 50

ACCESSION NUMBER :87
RECORD TYPE :borehole summary
WELL ID :, MCCG-214
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 28, T2N R10W

DRILLING COMPLETION DATE :, 800424 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 72.3, (237.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 58.0, (190.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 58.0, (0-190.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 25.0, (0-82)
, HATTIESBURG, 25.0, 57.9, (82-190)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish silty, locally gravelly sand, some sandy silt
, HATTIESBURG, gray-green sandy and silty clays
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 51

ACCESSION NUMBER :88
RECORD TYPE :borehole summary
WELL ID :, MCCG-215
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome

COUNTY,STATE : , Perry, MS
LATITUDE : , NR deg-min
LONGITUDE : , NR deg-min
SECTION,BLOCK : , Sec 21, T2N R10W
DRILLING COMPLETION DATE : , 800416 (yymmdd)
BOREHOLE STATUS : , plugged
GROUND LEVEL ELEVATION : , 78.9, (259.2) meters(feet)
KELLY BUSHING ELEVATION : , NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE : , 51.9, (170.5) meters(feet)
DRILLING TECHNIQUE : , mud rotary;
DRILLING FLUID PROGRAM : , bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 51.9, (0-170.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS : , YES, well cuttings,
GEOPHYSICAL LOGS : , YES, gamma, resistivity,
CORE LOGS : , NO,
MUD LOGS : , NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 47.2, (0-155)
, HATTIESBURG, 47.2, 51.8, (155-170)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING : , YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown to gray silty sands interbedded with clayey silts
, HATTIESBURG, olive greenish-gray sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec, Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 52

ACCESSION NUMBER :89
RECORD TYPE :borehole summary
WELL ID :, MCCG-216
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 28, T2N R10W
DRILLING COMPLETION DATE :, 800417 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 74.2, (243.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 64.1, (210.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 64.1, (0-210.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 56.4, (0-185)
, HATTIESBURG, 56.4, 64.0, (185-210)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish brown silty sand interbedded with sandy clayey silt, sand silty clay and silty sand
, HATTIESBURG, grayish green fine sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165

ITEM 53

ACCESSION NUMBER :104
RECORD TYPE :borehole summary
WELL ID :, MCCG-217
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 8, T2N R10W
DRILLING COMPLETION DATE :, 800430 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 86.3, (283) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 45.8, (150.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 45.8, (0-150.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 32.0, (0-105)
, HATTIESBURG, 32.0, 45.7, (105-150)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish brown silty fine sand, some silty clay
, HATTIESBURG, grayish green fine sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
821031, OE Swanson, KA St. John, CAB, 81, (2)

831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec, Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :90
RECORD TYPE :borehole summary
WELL ID :, MCCG-218
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 800507 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.6, (100.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 30.6, (0-100.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR

LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec, Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 55

ACCESSION NUMBER :91
RECORD TYPE :borehole summary
WELL ID :, MCCG-219
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 800424 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :58.8, (193) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 42.8, (140.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 42.8, (0-140.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :

, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec, Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 56

ACCESSION NUMBER :92
RECORD TYPE :borehole summary
WELL ID :, MCCG-220
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, Ms
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 8, T2N R10W
DRILLING COMPLETION DATE :, 800429 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, 61.0, (200) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.7, (120.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NONE
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:

, NONE
HYDROGEOLOGIC MONITORING ;YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1), Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 57

ACCESSION NUMBER :93
RECORD TYPE :borehole summary
WELL ID :, MCCG-221
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 4, T2N R10W
DRILLING COMPLETION DATE :, 800508 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 24.5, (80.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 24.5, (0-80.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 6.7, (0-22)
, HATTIESBURG, 6.7, 24.4, (22-80)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA

SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-orange sandy silt and silty fine sand
, HATTIESBURG, gray-olive-green silty clay interbedded with sandy silt and sandy clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 58

ACCESSION NUMBER :94
RECORD TYPE :borehole summary
WELL ID :, MCCG-222
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 800423 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 66.4, (218.2) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 27.5, (90.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary:
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 27.5, (0-90.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :

, CITRONELLE, 0.0, 6.7, (0-22)
, HATTIESBURG, 6.7, 27.4, (22-90)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, yellow-brown sandy clayey silt and red-brown-gray silty clayey gravelly fine sand
, HATTIESBURG, gray green clay interbedded with clayey silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 59

ACCESSION NUMBER :95
RECORD TYPE :borehole summary
WELL ID :, MCCG-223
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 20, T2N R10W
DRILLING COMPLETION DATE :, 800414 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 55.7, (182.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 21.7, (71.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 21.7, (0-71.5)

CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, ALLUVIUM, 0.0, 5.2, (0-17)
, HATTIESBURG, 5.2, 21.6, (17-71)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, ALLUVIUM, gray to yellow orange silty gravelly sand
, HATTIESBURG, gray-green silty clay and clayey sandy silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAb, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 60

ACCESSION NUMBER :96
RECORD TYPE :borehole summary
WELL ID :, MCCG-225
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 20, T2N R10W
DRILLING COMPLETION DATE :, 800425 (yymmdd)
BOREHOLE STATUS :, plugged

GROUND LEVEL ELEVATION :, 58.2, (191.2) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 39.7, (130.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 39.7, (0-130.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, ALLUVIUM, 0.0, 5.2, (0-17)
, HATTIESBURG, 5.2, 39.6, (17-130)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, ALLUVIUM, brown to pinkish gray clayey silty sand
, HATTIESBURG, greenish gray clay interbedded with clayey silt and clayey silty sand
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-level Monitoring Program Mississippi and Louisiana

ITEM 61

ACCESSION NUMBER :97
RECORD TYPE :borehole summary
WELL ID :, MCCG-226
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min

LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 18, T2N R10W
DRILLING COMPLETION DATE :, 800509 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 63.9, (209.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 48.9, (160.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 48.9, (0-160.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 32.0, (0-105)
, HATTIESBURG, 32.0, 48.8, (105-160)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown-orange silty sand interbedded with silty clay
, HATTIESBURG, gray-green and black mottled silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80 (1)
811031, Oe Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 62

ACCESSION NUMBER :98
RECORD TYPE :borehole summary

WELL ID :, MCCG-227
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 20, T2N R10W
DRILLING COMPLETION DATE :, 800408 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 62.2, (204.4) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 29.4, (96.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NR
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 29.4, (0-96.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 17.7, (0-58)
, HATTIESBURG, 17.7, 29.3, (58-96)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown clayey sand with sandy clayey silt
, HATTIESBURG, light gray silty sand clay with micaceous, lignitic, clayey sandy silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study

Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 63

ACCESSION NUMBER :99
RECORD TYPE :borehole summary
WELL ID :, MCCG-229
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 9, T2N R10W
DRILLING COMPLETION DATE :, 800430 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 24.5, (80.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 24.5, (0-80.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 19.8, (0-65)
, HATTIESBURG, 19.8, 24.4, (65-80)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, yellow-brown clayey sandy silt and clayey silty sand with red-brown and green-gray sandy clay and sand
, HATTIESBURG, gray-green clay with minor interbedded fine sand
INITIALIZATION [date,authorities,field numbers,source] :

830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 64

ACCESSION NUMBER :100
RECORD TYPE :borehole summary
WELL ID :, MCCG-230
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 22, T2N R10W
DRILLING COMPLETION DATE :, 800414 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 82.7, (271.4) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 57.6, (189) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 57.6, (0-189)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistance,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 53.3, (0-175)
, HATTIESBURG, 53.3, 57.9, (175-190)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :

, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, yellow-orange to olive silty clays interbedded with sandy and clayey silt, some silty sand
, HATTIESBURG, gray, locally lignitic clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 65

ACCESSION NUMBER :101
RECORD TYPE :borehole summary
WELL ID :, MCCG-231
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 10, T2N R10W
DRILLING COMPLETION DATE :, 800414 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 27.5, (90.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 27.5, (0-90.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 18.9, (0-62)
, HATTIESBURG, 18.9, 27.4, (62-90)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:

, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown sandy silty clay and red-brown clayey silty locally gravelly sand
, HATTIESBURG, gray-green and brown mottled fine sandy silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 66

ACCESSION NUMBER :102
RECORD TYPE :borehole summary
WELL ID :, MCCC-232
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, T2N R10W
DRILLING COMPLETION DATE :, 800430 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 70.7, (232.2) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 39.7, (130.5) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 39.7, (0-130.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 31.1, (0-102)
, HATTIESBURG, 31.1, 39.6, (102-130)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, predominantly reddish-brown silty sands
, HATTIESBURG, grayish-green sandy silty clay, clayey silty sand and clayey sandy silt
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 67

ACCESSION NUMBER :103
RECORD TYPE :borehole summary
WELL ID :, MCCG-233
BASIN,SUBBASIN :, Gulf Interior, Cypress Creek Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 28, T2N R10W
DRILLING COMPLETION DATE :, 800426 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 71.6, (235) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 45.5, (149) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,

GEOPHYSICAL LOGS :, YES, gamma, electric,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 35.1, (0-115)
, HATTIESBURG, 35.1, 45.4, (115-149)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES, water levels initially monitored monthly
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, predominantly red-brown-orange silty clayey gravelly sand, some green-grays sandy silt and silty fine sand
, HATTIESBURG, green-gray clayey sandy silt and silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830926, OE Swanson, KA St. John, CAB, 2-51,53-61,70,80, (1)
811031, OE Swanson, KA St. John, CAB, 73, (2)
811031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Cypress Creek Dome, ONWI-165
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 68

ACCESSION NUMBER :27
RECORD TYPE :borehole summary
WELL ID :, MRIG-201
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 22, T5N R10W
DRILLING COMPLETION DATE :, 791215 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 74.4, (244) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :*, 24.7, (81) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :

, NR, 7.6, (3), 0.0, 24.5, (0-80.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 24.1, (79)
LITHOLOGIC LOGS :YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, caliper
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, NR, (0-NR)
, HATTIESBURG, NR, 24.7, (NR-81)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 21.0, 24.1, (69-79)
HYDROGEOLOGIC MONITORING :, YES, water levels between 66(218) and 69(228) meters(feet) on 4/30/80 and 1/25/80 respectively.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
INITIALIZATION [date,authorities,field numbers,source] :
830829, OE Swanson, KA St. John, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt domes Shallow Borings Report:Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July, 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :29
RECORD TYPE :borehole summary
WELL ID :, MRIG-202
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 26, T5N R10W
DRILLING COMPLETION DATE :, 791019 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 85.8, (281.5) meters(feet)
KELLY BUSHING ELEVATION :, 86.0, (282) meters(feet) above msl

TOTAL DEPTH OF BOREHOLE :, 61.0, (200) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 16.5, (6-1/2), 0.0, 61.0, (0-200)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 27.1, (89)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistivity, SP, caliper, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 3.1, (0-10)
, HATTIESBURG, 3.1, 61.0, (10-200)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 26.8, 29.9, (88-98)
HYDROGEOLOGIC MONITORING :, YES, water levels between 74(243) and 75(245) , Monitored quarterly.meters(feet)
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 30 tests(ASTM D 1586-67, 2487-69, 2488-69)
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, yellowish orange coarse to fine gravelly sandy clay and reddish brown medium to fine silty sand
, HATTIESBURG, seven variations of clay and sand
INITIALIZATION [date,authorities,field numbers,source] :
830829, OE Swanson, MJ Golis, BJM, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, Gulf Coast Salt Domes Shallow Borings Report;Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

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ACCESSION NUMBER :25
RECORD TYPE :borehole summary
WELL ID :, MRIG-203
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min

LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 23, T5N R10W
DRILLING COMPLETION DATE :, 791010 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 64.3, (211) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.9, (121) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 36.6, (0-120)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 29.0, (95)
LITHOLOGIC LOGS :, NO
GEOPHYSICAL LOGS :, YES, gamma, resistivity, SP, caliper, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, NR, (0-NR)
, HATTIESBURG, NR, 36.9, (NR-121)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 29.0, 32.0, (95-105)
HYDROGEOLOGIC MONITORING :, YES, water levels between 56(184.8) and 56(185.2) meters(feet) on 1/9/80 and 3/30/80 respectively,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
INITIALIZATION [date,authorities,field numbers,source] :
830829, OE Swanson, MJ Gollis, BJM, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report:Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :26
RECORD TYPE :borehole summary

WELL ID ;, MRIG-204
BASIN,SUBBASIN ;, Gulf Interior, Richton Dome
COUNTY,STATE ;, Perry, MS
LATITUDE ;, NR deg-min
LONGITUDE ;, NR deg-min
SECTION,BLOCK ;, Sec 22, T5N R10W
DRILLING COMPLETION DATE ;, 791130 (yymmdd)
BOREHOLE STATUS ;, capped
GROUND LEVEL ELEVATION ;, NR meters(feet)
KELLY BUSHING ELEVATION ;, 83.8, (275) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE ;, 55.2, (181) meters(feet)
DRILLING TECHNIQUE ;, mud rotary
DRILLING FLUID PROGRAM ;, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] ;
, NR, 15.2, (6), 0.0, 54.9, (0-180)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 17.1, (56)
LITHOLOGIC LOGS ;, NO
GEOPHYSICAL LOGS ;, YES, resistivity, SP, gamma, Neutron
CORE LOGS ;, NO,
MUD LOGS ;, NO,
FORMATIONS PENETRATED [interval in meters(ft)] ;
, CITRONELLE, 0.0, NR, (0-NR)
, HATTIESBURG, NR, 55.2, (NR-181)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] ;
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 16.8, 19.8, (55-65)
HYDROGEOLOGIC MONITORING ;, YES, water level between 77(254) and 79(259) meters(feet) on 1/9/80 and 4/30/80 respectively.
GEOMECHANICAL FIELD TESTS [type,comments] ;
, NR,
GEOMECHANICAL LAB TESTS [type,comments] ;
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] ;
, NR,
HYDROCHEMICAL TESTS [type,comments] ;
, NR,
LITHOLOGY [formation,description]:
, NR,
INITIALIZATION [date,authorities,field numbers,source] ;
830829, OE Swanson, MJ Golis, BJM, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report:Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study

Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :30
RECORD TYPE :borehole summary
WELL ID :, MRIG-205
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 22, T5N R10W
DRILLING COMPLETION DATE :, 791211 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 67.7, (222) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 43.0, (141) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 42.7, (0-140)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 9.1, (30)
LITHOLOGIC LOGS :, NO
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, NR, (0-NR)
, HATTIESBURG, NR, 43.0, (NR-141)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 8.8, 11.9, (29-39)
HYDROGEOLOGIC MONITORING :, YES, water level between 64(210) and 65(214) meters(feet) on 1/10/80 and 3/30/80 respectively;
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
INITIALIZATION [date,authorities,field numbers,source] :
830829, OE Swanson, MJ Golis, BJM, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)

831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company,July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volum VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :24
RECORD TYPE :borehole summary
WELL ID :, MRIG-208
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 24, T5N R10W
DRILLING COMPLETION DATE :, 791204 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 68.0, (223) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 23.2, (76) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 22.9, (0-75)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NA
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistivity, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 23.2, (0-76)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NA
HYDROGEOLOGIC MONITORING :, NA
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 15 tests-ASTM D 1586-67, 2487-69, 2488-69
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:

, CITRONELLE, brownish to reddish interbedded coarse to fine chert and quartz gravel and silty, clayey coarse to fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830829, OE Swanson, MJ Gollis, BJM, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 74

ACCESSION NUMBER	:128
RECORD TYPE	:borehole summary
WELL ID	:, MRIG-209
BASIN,SUBBASIN	:, Gulf Interior, Richton Dome
COUNTY,STATE	:, Perry, MS
LATITUDE	:, NR deg-min
LONGITUDE	:, NR deg-min
SECTION,BLOCK	:, Sec 23, T5N R10W
DRILLING COMPLETION DATE	:, 791209 (yymmdd)
BOREHOLE STATUS	:, capped
GROUND LEVEL ELEVATION	:, NR, NR meters(feet)
KELLY BUSHING ELEVATION	:, 73.2, (240) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 24.4, (80) meters(feet)
DRILLING TECHNIQUE	:, mud rotary;
DRILLING FLUID PROGRAM	:, bentonitic mud

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 24.5, (0-80.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 14.9, (49)

LITHOLOGIC LOGS	:, YES, well cuttings,
GEOPHYSICAL LOGS	:, YES, gamma, resistivity, SP, neutron,
CORE LOGS	:, NO,
MUD LOGS	:, NO,

FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 24.4, (0-80)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 14.6, 17.7, (48-58)
HYDROGEOLOGIC MONITORING :, YES, water level between 61.4(201.53) and 62.2(204.26) meters(feet) between 1/23/80 and 4/30/80, respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, Penetration Tests, 16 tests, (ASTM D 1586-67, 2487-69, 2488-69), N values, (# of 140lb/30 inch blows for 12 inch penetration), min=6, max=stall

GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, 4 variations of sand, clay, gravel
70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 75

ACCESSION NUMBER :44
RECORD TYPE :borehole summary
WELL ID :, MRIG-210
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 36, T5N R10W
DRILLING COMPLETION DATE :, 791023 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 74.7, (245) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 54.9, (180) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 55.0, (0-180.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 17.7, (58)
LITHOLOGIC LOGS :, YES,, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 23.5, (0-77)
, HATTIESBURG, 23.5, 54.9, (77-180)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 17.4, 20.4, (57-67)
HYDROGEOLOGIC MONITORING :, YES, water level between 59 (195) and 60 (198) meters (feet) on 1/8/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 28 tests - N values min=6 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, 4 variations of sand, clay, and gravel
, HATTIESBURG, 3 variations of clay and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 76

ACCESSION NUMBER :37
RECORD TYPE :borehole summary
WELL ID :, MRIG-211
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, SEC 25, T5N R10W
DRILLING COMPLETION DATE :, 791106 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, meters(feet)
KELLY BUSHING ELEVATION :, 70.1, (239) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 43.3, (142) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 43.3, (0-142)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 18.3, (60)
LITHOLOGIC LOGS :, YES, well cuttings,

GEOPHYSICAL LOGS :, YES, gamma, neutron, resistivity, SP, caliper
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 22.3, (0-73)
, HATTIESBURG, 22.3, 43.3, (73-142)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill test, NR, 17.7, 20.7, (58-68)
HYDROGEOLOGIC MONITORING :, YES, water level between 54 (179) and 56 (183) meters (feet) on 1/10/80 and 4/30/83, respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 25 tests - N values min=12 max=66
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, 4 variations of silt, sand, gravel
, HATTIESBURG, 3 veritions of clay, silt
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 77

ACCESSION NUMBER :38
RECORD TYPE :borehole summary
WELL ID :, MRIG-212
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 35, T5N R10W
DRILLING COMPLETION DATE :, 791107 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 85.4, (280.5) meters(feet)
KELLY BUSHING ELEVATION :, 85.3, (280) meters(feet) above msl

TOTAL DEPTH OF BOREHOLE :, 54.9, (180) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 55.0, (0-180.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 45.7, (150)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistivity, SP, neutron, caliper
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 8.5, (0-28)
, HATTIESBURG, 8.5, 54.9, (28-180)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 45.4, 48.5, (149-159)
HYDROGEOLOGIC MONITORING :, YES, water level between 66 (217) and 67 (219) . Monitored quarterly,meters (feet) on 1/10/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 28 tests - N values min=8 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, clay mineral analysis
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, 2 variations of clay and sand
, HATTIESBURG, 6 variations of clay and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 78

ACCESSION NUMBER ;45
RECORD TYPE :borehole summary
WELL ID :, MRIG-213

BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 36, T5N R10W
DRILLING COMPLETION DATE :, 791113 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR, meters(feet)
KELLY BUSHING ELEVATION :, 54.3, (178) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.5, (100) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 30.6, (0-100.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 22.6, (74)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, caliper, gamma, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, TERRACE, 0.0, 10.1, (0-33)
, CITRONELLE, 10.1, 25.0, (33-82)
, HATTIESBURG, 25.0, 30.5, (82-100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 21.9, 25.0, (72-82)
HYDROGEOLOGIC MONITORING :, YES, water levels between 51 (166) and 52 (169) , Monitored quarterlymeters (feet) on 1/26/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 20 tests - N values min=5 max=89
GEOMECHANICAL LAB TESTS [type,comments] :
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, TERRACE DEPOSIT, 4 variations of silt, clay, sand, and gravel
, CITRONELLE, 2 variations of sand and clay
, HATTIESBURG, gray-green slightly fine sandy, silty clay
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:

, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 79

ACCESSION NUMBER :129
RECORD TYPE :borehole summary
WELL ID :, MRIG-215
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 1, T4N R10W
DRILLING COMPLETION DATE :, 791117 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 67.1, (220.2) meters(feet)
KELLY BUSHING ELEVATION :, 67.1, (220) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.6, (120) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 30.8, (101)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma, caliper, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 7.3, (0-24)
, HATTIESBURG, 7.3, 36.6, (24-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 30.5, 32.9, (100-108)
HYDROGEOLOGIC MONITORING :, YES, water levels between 59.4(195) and 60.0(197) meters(feet) on 1/10/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 22 tests, N values, min=8, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish brown and yellowish brown banded clayey silty medium to fine sand

, HATTIESBURG, 5 variations of sand and clay
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Gollis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 80

ACCESSION NUMBER :130
RECORD TYPE :borehole summary
WELL ID :, MRIG-216
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 1, T4N R10W
DRILLING COMPLETION DATE :, 791115 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 66.6, (218.5) meters(feet)
KELLY BUSHING ELEVATION :, 66.4, (218) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.6, (120) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 66.6, (0-218.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 30.5, (100)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma, neutron, caliper,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 11.3, (0-37)
, HATTIESBURG, 11.3, 36.6, (37-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 29.9, 32.9, (98-108)
HYDROGEOLOGIC MONITORING :, YES, water level between 45.7(150) and 46.3(152) , Monitored quarterlymeters(feet) on 1/10/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 24 tests, N values, min=6, max=stall

GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, brown, tan, and grayish white gravelly silty medium to fine sand
, HATTIESBURG, 7 variations of clay, sand and silt
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 81

ACCESSION NUMBER :41
RECORD TYPE :borehole summary
WELL ID :, MRIG-217
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 11, T4N R10W
DRILLING COMPLETION DATE :, 791206 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, meters(feet)
KELLY BUSHING ELEVATION :, 82.3, (270) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 54.9, (180) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 54.7, (0-179.6)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 49.1, (161)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 32.9, (0-108)
, HATTIESBURG, 32.9, 54.6, (108-179)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA

SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 48.5, 50.0, (159-164)
HYDROGEOLOGIC MONITORING :, YES, water levels between 43 (137) and 42 (138) meters (feet) on 1/6/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 28 tests - N valuues min=6 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, 3 variations of sand and clay
, HATTIESBURG, 3 variations of clay, silt and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,53-61,47-51,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swansons, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 82

ACCESSION NUMBER :42
RECORD TYPE :borehole summary
WELL ID :, MRIG-219
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR, deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 27, T5N R10W
DRILLING COMPLETION DATE :, 791121 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 73.2, (240) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 43.0, (141) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 42.9, (0-140.9)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 29.9, (98)
LITHOLOGIC LOGS :, YES, well cuttings,

GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron, resistivity, SP
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0.0, 43.0, (0-141)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 29.3, 32.3, (96-106)
HYDROGEOLOGIC MONITORING :, YES, water level between 58 (192) and 59 (193) . Monitored quarterlymeters (feet) on 4/40/80 and 1/16/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 24 tests - N values min=11 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, clay mineral analysis
, grain size distribution
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, HATTIESBURG, 9 variations of sand, clay, and silt
INITIALIZATION [date,authorities,field numbers,source] :
, 830906, OE Swanson, MJ Gollis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 83

ACCESSION NUMBER :43
RECORD TYPE :borehole summary
WELL ID :, MRIG-220
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 1, T4N R10W
DRILLING COMPLETION DATE :, 751105 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, meters(feet)
KELLY BUSHING ELEVATION :, 65.8, (216) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.6, (120) meters(feet)
DRILLING TECHNIQUE :, mud rotary

DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 21.0, (69)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron, resistivity, SP
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, TERRACE, 0.0, 36.6, (0-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 20.7, 23.8, (68-78)
HYDROGEOLOGIC MONITORING :, YES, water level between 47 (156) and 48 (159) meters (feet) on 1/10/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR,
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, TERRACE DEPOSIT, 6 variations of silt, sand and clay
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 84

ACCESSION NUMBER :40
RECORD TYPE :borehole summary
WELL ID :, MRIG-222
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 35, T5N R10W

DRILLING COMPLETION DATE :, 791120 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR, meters(feet)
KELLY BUSHING ELEVATION :, 63.7, (209) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 37.8, (124) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.3, (8), 0.0, 18.6, (0-61)
, NR, 14.9, (5-7/8), 18.6, 37.8, (61-124)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 10.2, (4), 12.8, (42)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, caliper, neutron, resistivity, SP,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 7.0, (0-23)
, HATTIESBURG, 7.0, 37.8, (23-124)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 12.2, 15.2, (40-50)
HYDROGEOLOGIC MONITORING :, YES, water level between 59 (194) and 60 (196) , monitored quarterlymeters (feet) on 2/20/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 22 tests - N values min=3 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, tan to brown clayey, silty, gravelly fine to coarse sand
, HATTIESBURG, 8 variations of clay, sand, and silt
INITIALIZATION [date,authorities,field numbers,source] :
830920, OE Swanson, MJ Golis, NRC, 2-44,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Test Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 85

ACCESSION NUMBER :39
RECORD TYPE :borehole summary
WELL ID :, MRIG-223
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 2, T4N R10W
DRILLING COMPLETION DATE :, 791130 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR meters(feet)
KELLY BUSHING ELEVATION :, 80.8, (265) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 48.8, (160) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, NR
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.3, (8), 0.0, 39.6, (0-130)
, NR, 14.9, (5-7/8), 39.6, 48.8, (130-160)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 10.2, (4), 26.2, (86)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma, neutron, caliper
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 29.9, (0-98)
, HATTIESBURG, 29.9, 48.8, (98-160)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, (NR)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 25.9, 29.0, (85-95)
HYDROGEOLOGIC MONITORING :, YES, water levels between 59 (193) and 60 (197) , Monitored quarterlymeters (feet) on 1/7/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 26 tests - N Values min=16 max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR,
HYDROCHEMICAL TESTS [type,comments] :
, NR,
LITHOLOGY [formation,description]:
, CITRONELLE, 2 variations of sand and gravel
, HATTIESBURG, 5 variations of sand and clay
INITIALIZATION [date,authorities,field numbers,source] :
830920, OE Swanson, MJ Golis, NRC, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)

831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 86

ACCESSION NUMBER :131
RECORD TYPE :borehole summary
WELL ID :, MRIG-224
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 3, T4N R10W
DRILLING COMPLETION DATE :, 791211 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, 79.9, (262) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 39.6, (130) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.3, (8), 0.0, 39.6, (0-120)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 10.2, (4), 36.9, (121)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron, resistivity, SP,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 39.6, (0-130)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 36.0, 39.0, (118-128)
HYDROGEOLOGIC MONITORING :, YES, water levels between 53.0(174) and 54.0(177) meters(feet) on 1/26/80 and 3/31/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 23 tests, N values, min=13, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :

, NR
LITHOLOGY [formation,description]:
, CITRONELLE, 7 variations of clay, silt, sand and gravel
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :132
RECORD TYPE :borehole summary
WELL ID :, MRIG-226
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 26, T5N R10W
DRILLING COMPLETION DATE :, 791024 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 80.1, (262.6) meters(feet)
KELLY BUSHING ELEVATION :, 79.9, (262) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 48.8, (160) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 48.9, (0-160.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 20.1, (66)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 3.7, (0-12)
, HATTIESBURG, 3.7, 48.8, (12-160)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 19.5, 22.6, (64-74)
HYDROGEOLOGIC MONITORING :, YES, water levels between 72.2(237) and 72.8(239) . Monitored quarterlymeters(feet) on 1/9/80 and 4/30/80 respectively

GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 26 tests, N values, min=8, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, reddish brown sandy, silty clay to brown and tan mottled clayey silty medium to fine sand
, HATTIESBURG, 8 variations of clay and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45, 47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

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ACCESSION NUMBER :133
RECORD TYPE :borehole summary
WELL ID :, MRIG-227
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 34, T5N R10W
DRILLING COMPLETION DATE :, 791118 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, 72.3, (237.3) meters(feet)
KELLY BUSHING ELEVATION :, 72.2, (237) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 42.7, (140) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 42.8, (0-140.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, 20.1, (66)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron, resistivity, SP,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0.0, 42.7, (0-140)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA

SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 19.8, 22.9, (65-75)
HYDROGEOLOGIC MONITORING :, YES, water levels between 62.2(204) and 62.8(206) , Monitored quarterlymeters(feet) on 1/9/80 and 3/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 24 tests, N values, min=13, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, HATTIESBURG, 5 variations of clay and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (S Daneman-ONWI)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

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ACCESSION NUMBER :134
RECORD TYPE :borehole summary
WELL ID :, MRIG-228
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 33, T5N R10W
DRILLING COMPLETION DATE :, 791006 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, 56.4, (185) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.6, (120) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 36.6, (0-120)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 30.5, (100)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, SP, resistivity, caliper, gamma, neutron,

CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0.0, 36.6, (0-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 29.9, 32.9, (98-108)
HYDROGEOLOGIC MONITORING :, YES, water levels between 50.9(167) and 51.2(168) meters(feet) on 1/9/80 and 4/29/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 22 tests, min=17, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, HATTIESBURG, 5 variations of clay and silt
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Gollis, CAB, 2-45,47-51,53-61,70,73=-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 90

ACCESSION NUMBER :135
RECORD TYPE :borehole summary
WELL ID :, MRIG-229
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 32, T5N R10W
DRILLING COMPLETION DATE :, 791008 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, 44.2, (145) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 30.2, (99) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 30.3, (0-99.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NA, NA, NA, NA
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, gamma, neutron, SP, resistivity,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, RECENT ALLUVIUM, 0.0, 14.0, (0-46)
, TERRACE,14.0, 22.3, (46-73)
, HATTIESBURG, 22.3, 30.5, (73-100)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 20 tests, n values, min=16, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, RECENT ALLUVIUM, 4 variations of clay, sand, gravel and organic matter
, TERRACE DEPOSIT, interbedded dark gray silty, clayey, fine sand and fine sandy clayey silt
, HATTIESBURG, 2 variations of clay, silt and sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :136
RECORD TYPE :borehole summary
WELL ID :, MRIG-230
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min

LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 34, T5N R10W
DRILLING COMPLETION DATE :, 791203 (yymmdd)
BOREHOLE STATUS :, observation
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, 78.6, (258) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 48.5, (159) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.3, (8), 0.0, 41.1, (0-135)
, NR, 14.9, (5-7/8), 41.1, 48.6, (135-159.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 10.2, (4), 37.2, (122)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, neutron, resistivity,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 42.1, (0-138)
, HATTIESBURG, 42.1, 48.5, (138-159)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 36.9, 39.9, (121-131)
HYDROGEOLOGIC MONITORING :, YES, water levels between 43.9(144) and 44.2(145) . Monitored quarterlymeters(feet) on 1/26/80 and 4/30/80 respectively
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 26 tests, N values, min=10, max=stall
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, 3 variations of clay and sand
, HATTIESBURG, 2 variations of sand
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)
831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :137
RECORD TYPE :borehole summary
WELL ID :, MRIG-232
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 4, T4N R9W
DRILLING COMPLETION DATE :, 791202 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, NR, NR meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 36.6, (120) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.3, (6), 0.0, 36.7, (0-120.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 5.1, (2), 33.5, (110)
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, resistivity, SP, gamma, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0.0, 36.6, (0-120)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 32.9, 36.0, (108-118)
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests, 22 tests, N values, min=14, max=43
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, HATTIESBURG, 4 variations of clay and silt
INITIALIZATION [date,authorities,field numbers,source] :
830906, OE Swanson, MJ Golis, CAB, 2-45,47-51,53-61,70,73-80,99, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 62,63,71,72, (OE Swanson)

831031, OE Swanson, KA St. John, CAB, 46,74, (3)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :63
RECORD TYPE :borehole summary
WELL ID :, MRIG-301
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 14, T5N R10W
DRILLING COMPLETION DATE :, 800225 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 83.0, (272.3) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 152.4, (500) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 10.2, (4), 0.0, 152.4, (0-500)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, YES, SP, resistivity, acoustic-velocity, gamma, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
, clay mineral analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR

LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :64
RECORD TYPE :borehole summary
WELL ID :, MRIG-302
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 23, T5N R10W
DRILLING COMPLETION DATE :, 800305 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 77.5, (254.7) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 152.4, (500) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 152.4, (0-500)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, NO,
GEOPHYSICAL LOGS :, YES, SP, resistivity, caliper, density, gamma, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :

, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 73, (2)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :65
RECORD TYPE :borehole summary
WELL ID :, MRIG-303
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 27, T5N R10W
DRILLING COMPLETION DATE :, 800229 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 70.4, (231) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 149.7, (491) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 149.7, (0-491)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, density, SP, resistivity, gamma, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0,0, 149.7, (0-491)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :

, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, HATTIESBURG, gray clay to fine sandy clay interbedded with sandy silt, silty sand to sandy clay and medium-fine sand, clayey sand. Limestone and calcite fragments with traces of clay, pyrite (caprock)
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 73, (2)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :66
RECORD TYPE :borehole summary
WELL ID :, MRIG-304
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 34, T5N R10W
DRILLING COMPLETION DATE :, 800311 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 72, (236.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 152.4, (500) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 152.4, (0-500)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, density, SP, resistivity, gamma, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG, 0.0, 152.4, (0-500)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:

, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, HATTIESBURG, tan to gray silty fine sandy clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report; Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :67
RECORD TYPE :borehole summary
WELL ID :, MRIG-305
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 3, T4N R10W
DRILLING COMPLETION DATE :, 800319 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 70.2, (230.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 167.8, (550.9) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 167.8, (0-551)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, SP, resistivity, gamma, caliper, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 59.4, (0-195)

, HATTIESBURG, 59.4, 167.8, (195-551)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, grayish sandy silty clay to silty clay to clay interbedded with silty clayey fine sand, silty sand, sandy clayey silt to fine sand
, HATTIESBURG, greenish gray fine sandy silty clay and silty clayey fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :68
RECORD TYPE :borehole summary
WELL ID :, MRIG-306
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 2, T4N R10W
DRILLING COMPLETION DATE :, 800326 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 69, (226.2) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 149.4, (490) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 149.4, (0-490)

CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS : , YES, well cuttings,
GEOPHYSICAL LOGS : , YES, caliper, density, gamma, resistance, neutron, SP, resistivity,
CORE LOGS : , NO,
MUD LOGS : , NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 15.8, (0-52)
, HATTIESBURG, 15.8, 149.4, (52-490)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING : , YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, red-brown silty sandy clay and clayey sand to silty, clayey fine to medium sand
, HATTIESBURG, red-tan to gray sandy clay
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 73, (2)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :69
RECORD TYPE :borehole summary
WELL ID :, MRIG-307
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 35, T5N R10W
DRILLING COMPLETION DATE :, 800410 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 65, (213.6) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 162.6, (533.5) meters(feet)

DRILLING TECHNIQUE : , mud rotary;
DRILLING FLUID PROGRAM : , bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 162.0, (0-533)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS : , YES, well cuttings,
GEOPHYSICAL LOGS : , YES, gamma, resistance, neutron, caliper, density, differential temperature, SP, resistivity,
CORE LOGS : , NO,
MUD LOGS : , NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, TERRACE, 0.0, 2.1, (0-7)
, HATTIESBURG, 2.1, 162.0, (7-533)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING : , YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, TERRACE, dark yellow-brown clayey slightly gravelly coarse to fine sand
, HATTIESBURG, grayish sand clay to sandy, silty clay with red mottled clayey sand and orange-brown clayey fine sandy silt
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report; Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

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ACCESSION NUMBER :70
RECORD TYPE :borehole summary
WELL ID :, MRIG-308
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min

LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 36, T5N R10W
DRILLING COMPLETION DATE :, 800329 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 74.8, (245.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 152.4, (500) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 15.2, (6), 0.0, 152.4, (0-500)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, caliper, density, SP, resistivity, gamma, resistance, neutron,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 23.5, (0-77)
, HATTIESBURG, 23.5, 152.4, (77-500)
CORES [diameter in cm(in), interval in maters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, tan to red-brown-yellow sandy silty clay, sandy clay with clayey silty sand and sandy silt, orange silty quartz and chert gravel to fine sand
, HATTIESBURG, green-gray sandy clayey silt and silty fine sandy clay, silty clayey fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 81, (2)
831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983, Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 101

ACCESSION NUMBER :71
RECORD TYPE :borehole summary
WELL ID :, MRIG-309
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 34, T5N R10W
DRILLING COMPLETION DATE :, 800512 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 76.3, (250.6) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 109.7, (360) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, NR
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 109.7, (0-360)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, gamma, resistance, neutron, caliper, density, SP, resistivity,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 59.4, (0-195)
, HATTIESBURG, 59.4, 109.7, (195-360)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, grain size analysis
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, CITRONELLE, gray to olive to blue gray sandy silty clay to silty clay with silty fine sand, clayey silt, and fine sand
, HATTIESBURG, olive green interbedded silty fine sandy clay, clayey, fine sandy silt and clayey, silty fine sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, Ka St. John, CAB, 81, (2)

831031, OE Swanson, KA St. John, CAB, 73, (3)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Domes, ONWI-167
, (2) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120
, (3) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 102

ACCESSION NUMBER :72
RECORD TYPE :borehole summary
WELL ID :, MRIG-310
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 34, T5N R10W
DRILLING COMPLETION DATE :, 800515 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 72.3, (237.5) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 121.9, (400) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, bentonitic mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 14.9, (5-7/8), 0.0, 121.9, (0-400)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, NR, NR, NR, NR
LITHOLOGIC LOGS :, YES, well cuttings,
GEOPHYSICAL LOGS :, YES, SP, resistivity, gamma, caliper, resistance, neutron, density,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CITRONELLE, 0.0, 30.8, (0-101)
, HATTIESBURG, 30.8, 121.9, (101-400)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NONE
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, NONE
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, penetration tests
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :

, NR
LITHOLOGY [formation,description]:
, CITRONELLE, gray to tan sandy silty clay to sandy clay interbedded with silt, sand and clay
, HATTIESBURG, silty clay and silty sand
INITIALIZATION [date,authorities,field numbers,source] :
830929, OE Swanson, KA St. John, CAB, all, (1)
831031, OE Swanson, KA St. John, CAB, 73, (2)
831031, OE Swanson, KA St. John, CAB, 52,62,71,63,72,74, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Shallow Borings Report: Richton Dome, ONWI-167
, (2) Ertec Inc, September 1983. Annual Report-1983 Potentiometric-Level Monitoring Program Mississippi and Louisiana

ITEM 103

ACCESSION NUMBER :22
RECORD TYPE :borehole summary
WELL ID :, MRIG-9
BASIN,SUBBASIN :, Gulf Interior, Richton Dome
COUNTY,STATE :, Perry, MS
LATITUDE :, 31-32 deg-min
LONGITUDE :, 88-58 deg-min
SECTION,BLOCK :, Sec 26, T5N R10W
DRILLING COMPLETION DATE :, 791130 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 78.2, (256.7) meters(feet)
KELLY BUSHING ELEVATION :, 81.5, (267.48) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 388.6, (1275) meters(feet)
DRILLING TECHNIQUE :, mud rotary
DRILLING FLUID PROGRAM :, fresh water bentonite mud to 174 meters and brine based mud from 174 to 389 meters.
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 18.0, (0-59)
, NR, 38.1, (15), 18.0, 138.1, (59-453)
, NR, 27.9, (11), 137.2, 203.9, (450-669)
, NR, 19.8, (7-13/16), 170.4, 388.3, (559-1274)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 18.0, (59)
, 32.4, (12-3/4), 137.2, (450)
, 21.9, (8-5/8), 170.4, (559)
LITHOLOGIC LOGS :, YES, general descriptions,
GEOPHYSICAL LOGS :, YES, acoustilog, gamma ray, caliper, temperature, compensated density, compensated neutron, SP,
dual induction focused logs, laterolog, differential temperature, resistivity
CORE LOGS :, YES, photographs,
MUD LOGS :, YES, gas analysis log, cutting logs, mud condition
FORMATIONS PENETRATED [interval in meters(ft)] :
, HATTIESBURG-CATAHOULA, 0.0, 178.0, (0-584)
, CAPROCK, 178.0, 233.8, (584-767)
, SALT, 233.8, 388.6, (767-1275)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 138.4, 388.6, (454-1255)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :

, sidewall, 138.4, 388.6, (454-1275)
, water samples, 170.4, 234.7, (559-770)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, slug, NR, 228.6, 234.7, (750-770)
, production, NR, 170.4, 234.7, (559-770)
, recovery, NR, 170.4,234.7, (559-770)
HYDROGEOLOGIC MONITORING :, YES, water levels on monthly basis initially then quarterly.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO,
GEOMECHANICAL LAB TESTS [type,comments] :
, strength,
, index,
, thermal,
, grain size analysis,
ROCK SAMPLE TESTS [type,comments] :
, thin section petrographic analysis,
, elemental composition
, gas analysis
HYDROCHEMICAL TESTS [type,comments] :
, major constituents,
, minor constituents,
INITIALIZATION [date,authorities,field numbers,source] :
830825, OE Swanson, MJ Golis BJM, 2-45,50-54,61,63,70,72-80, (1)
830825, OE Swanson, MJ Golis, BJM, 82-83, (2)
830825, OE Swanson, MJ Golis, BJM, 81, (3)
831031, OE Swanson, KA St. John, CAB, 47,49,72,71, (4)
831031, OE Swanson, KA St. John, CAB, 46,60,62, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site MRIG-9, ONWI-178
, (2) Drumheller, J.C. et al, 1982, Petrographic and Geochemical Characteristics of the Richton Salt Core, ONWI-277, Law Engineering Testing Company
, (3) Pfeifle, T. W. et al, 1983, Constitutive Properties of Salt from Four Sites, ONWI-314, RE/SPEC Inc.
, (4) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 104

ACCESSION NUMBER	:33
RECORD TYPE	:borehole summary
WELL ID	:, Detten #1
BASIN,SUBBASIN	:, Permian, Palo Duro
COUNTY,STATE	:, Deaf Smith, TX
LATITUDE	:, 34-56 deg-min
LONGITUDE	:, 102-22 deg-min
SECTION,BLOCK	:, Sec 52, K-3
DRILLING COMPLETION DATE	:, 820505 (yymmdd)
BOREHOLE STATUS	:, plugged
GROUND LEVEL ELEVATION	:, 1175.0, (3855.0) meters(feet)
KELLY BUSHING ELEVATION	:, 1177.1, (3861.9) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 865.4, (2839.3) meters(feet)

, sidewall, 138.4, 388.6, (454-1275)
, water samples, 170.4, 234.7, (559-770)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, slug, NR, 228.6, 234.7, (750-770)
, production, NR, 170.4, 234.7, (559-770)
, recovery, NR, 170.4,234.7, (559-770)
HYDROGEOLOGIC MONITORING :, YES, water levels on monthly basis initially then quarterly.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO.
GEOMECHANICAL LAB TESTS [type,comments] :
, strength,
, index,
, thermal,
, grain size analysis,
ROCK SAMPLE TESTS [type,comments] :
, thin section petrographic analysis,
, elemental composition
, gas analysis
HYDROCHEMICAL TESTS [type,comments] :
, major constituents,
, minor constituents,
INITIALIZATION [date,authorities,field numbers,source] :
830825, OE Swanson, MJ Golis BJM, 2-45,50-54,61,63,70,72-80, (1)
830825, OE Swanson, MJ Golis, BJM, 82-83, (2)
830825, OE Swanson, MJ Golis, BJM, 81, (3)
831031, OE Swanson, KA St. John, CAB, 47,49,72,71, (4)
831031, OE Swanson, KA St. John, CAB, 46,60,62, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Report: Site MRIG-9, ONWI-178
, (2) Drumheller, J.C. et al, 1982. Petrographic and Geochemical Characteristics of the Richton Salt Core, ONWI-277, Law Engineering Testing Company
, (3) Pfeifle, T. W. et al, 1983. Constitutive Properties of Salt from Four Sites, ONWI-314, RE/SPEC Inc.
, (4) Law Engineering Testing Company, July 1982. Gulf Coast Salt Domes Geologic Area Characterization Report Mississippi Study Area, Volume VII, ONWI-120

ITEM 104

ACCESSION NUMBER	:33
RECORD TYPE	:borehole summary
WELL ID	:, Detten #1
BASIN,SUBBASIN	:, Permian, Palo Duro
COUNTY,STATE	:, Deaf Smith, TX
LATITUDE	:, 34-56 deg-min
LONGITUDE	:, 102-22 deg-min
SECTION,BLOCK	:, Sec 52, K-3
DRILLING COMPLETION DATE	:, 820505 (yymmdd)
BOREHOLE STATUS	:, plugged
GROUND LEVEL ELEVATION	:, 1175.0, (3855.0) meters(feet)
KELLY BUSHING ELEVATION	:, 1177.1, (3861,9) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 865.4, (2839.3) meters(feet)

DRILLING TECHNIQUE :, mud rotary; diamond coring;
DRILLING FLUID PROGRAM :, fresh water to 344.1 m (1129 ft), salt-mud system below 334.1 m (1129 ft)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, tri-cone, 44.5, (17-1/2), 0.0, 16.8, (0-55)
, tri-cone, 31.1, (12-1/4), 16.8, 342.6, (55-1124)
, tooth & diamond core, 21.6, (8.5), 342.6, 865.4, (1124-2839.3)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 34.0, (13-3/8), 16.2, (53)
, 24.4, (9-5/8), 342.0, (1122)
LITHOLOGIC LOGS :, YES
GEOPHYSICAL LOGS :, YES, proximity log-micrology, sonic waveform, dual induction, compensated sonic, temperature, compensated neutron, density, continuous dipmeter, fracture identification, continuous directional, natural gamma ray spectrometry, gamma ray, spontaneous potential, dual laterolog, caliper, Cyberlook, Coriband, Cluster, Geogram, computed directional
CORE LOGS :, YES, field boring log
MUD LOGS :, YES, gas monitoring, collection/description of well cuttings,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 117.0, (0-384)
, DOCKUM, 117.0, 326.1, (384-1070)
, DEWEY LAKE, 326.1, 342.3, (1070-1123)
, ALIBATES, 342.3, 357.2, (1123-1172)
, SALADO, 357.2, 378.0, (1172-1240)
, YATES, 378.0, 404.2, (1240-1326)
, UPPER SEVEN RIVERS, 404.2, 443.8, (1326-1456)
, LOWER SEVEN RIVERS, 443.8, 501.7, (1456-1646)
, QUEEN/GRAYBURG, 501.7, 568.8, (1646-1866)
, UPPER SAN ANDRES, 568.8, 723.6, (1866-2374)
, LOWER SAN ANDRES UNIT 5, 723.6, 784.9, (2374-2575)
, LOWER SAN ANDRES UNIT 4, 784.9, 862.6, (2575-2830)
, LOWER SAN ANDRES UNIT 3, 862.6, 865.4, (2830-2839.3)
CORES [diameter in cm(in), interval in meters(ft),comments]:
,10.2, (4), 344.1, 433.7, (1129-1423)
, 10.2, (4), 574.3, 865.4, (1884-2839.3)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, well cuttings, 0.0, 865.4, (0-2839.3), cuttings each 5-10 ft
, drilling fluid, NR, NR, (NR), during coring
, tracer, NR, NR, (NR), during coring
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, repeat formation, 3, 842.2, 853.8, (2763-2801)
, drill stem, 1, 837.9, 865.3, (2749-2839)
HYDROGEOLOGIC MONITORING :, NO
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE,
GEOMECHANICAL LAB TESTS [type,comments] :
, creep
, strength
ROCK SAMPLE TESTS [type,comments] :
, YES, petrographic analysis
HYDROCHEMICAL TESTS [type,comments] :
, NR, in planning

LITHOLOGY [formation,description]:
, OGALLALA, sandstone, lt. brown, v. fine to coarse grained, loosely to well cemented w/occ. caliche and gravel beds, low to high porosity
, DOCKUM, alternating silty shale and sandstone ending in siltstone
, DEWEY LAKE, siltstone, dk. reddish brown
, ALIBATES, anhydrite, lt. gray w/interbed of med. red brown siltstone and gypsum
, SALADO, siltstone, med. red brown, slightly dolomitic and argillaceous with occ. bed of anhydrite
, YATES, siltstone overlying sandstone, red brown, very fine grain, occ. silty, moderate porosity
, UPPER SEVEN RIVERS, salt interbedded with red brown silty shale, red brown siltstone and anhydrite. Evidence of dissolution in upper portion
, LOWER SEVEN RIVERS, siltstone, medium red brown and brown with occ. thin bed of anhydrite and thick anhydrite at base
, QUEEN/GRAYBURG, siltstone, medium red brown, hard, occ. arenaceous
, UPPER SAN ANDRES, salt with thin interbeds of shale, siltstone and anhydrite with lower seciton of very hard anhydrite interbedded with disseminated salt, thin dolopite, soft shale, and siltstone
, LOWER SAN ANDRES UNIT 5, salt with occ thin interbed of shale and anhydrite and lower sections of anhydrite with interbeds of dolomite, limestone, and soft shale
, LOWER SAN ANDRES UNIT 4, salt with occ thin shale and anhydrite interbed, bottom is dolomite of very slight to low porosity, dolomitic shale at base
, LOWER SAN ANDRES UNIT 3, clean salt
INITIALIZATION [date,authorities,field numbers,source] :
830901, PL Archer, MJ Golis, NRC, all (1)
SOURCES:
, (1) Stone and Webster Engineering Corp., 1982. Well Completion Report, Detten No. 1, Palo Duro Basin,
, (2) Martin, R. J., July 26, 1982. Laboratory Testing of Rock and Salt Samples for Static Moduli, Dynamic Moduli and Triaxial Compressive Strength, Applied Research Associates Inc, for Stone & Webster
, (3) Fukui, L. M., May 2, 1983. Summary of Petrographic and Chemical Data From Palo Duro Basin Samples, Bendix Field Engineering Corporation

ITEM 105

ACCESSION NUMBER	:195
RECORD TYPE	:borehole summary
WELL ID	:, Detten #2
BASIN,SUBBASIN	:, Permian, Palo Duro
COUNTY,STATE	:, Deaf Smith, TX
LATITUDE	:, NR deg-min
LONGITUDE	:, NR deg-min
SECTION,BLOCK	:, Sec 52, Block K-3
DRILLING COMPLETION DATE	:, 830311 (yymmdd)
BOREHOLE STATUS	:, open
GROUND LEVEL ELEVATION	:, 1175.0, (3855) meters(feet)
KELLY BUSHING ELEVATION	:, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 403.9, (1325) meters(feet)
DRILLING TECHNIQUE	:, air mist;
DRILLING FLUID PROGRAM	:, chemical tracer added

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 31.1, (12-1/4), 0.0, 397.8, (0-1305)
, NR, 20.0, (7-7/8), 397.8, 403.9, (1305-1325)
CASING SUMMARY [diameter in cm(in),deptn in m(ft),comments]:
, 24.5, (9.67), 397.8, (1305)

, 40.6, (16), 9.1, (30)
LITHOLOGIC LOGS :, YES, open-hole logs,
GEOPHYSICAL LOGS :, NR,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, YATES, 378.0, 404.2, (1240-1326)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, NR, NR, NR, during drilling
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 397.8, 403.9, (1305-1325)
HYDROGEOLOGIC MONITORING :, YES, water level monitoring - preliminary indications show no water in test zone
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, YES
HYDROCHEMICAL TESTS [type,comments] :
, fluid samples
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, all, (1)
000000, PL Archer, KA St. John, CAB, (Archer)
SOURCES:
, (1) Stone & Webster Engineering Corporation, June 1983, Well Completion Report Dissolution Zone Water Wells Palo Duro Basin, ONWI/SUB/83/E512-05000-T10

ITEM 106

ACCESSION NUMBER :161
RECORD TYPE :borehole summary
WELL ID :, DOE-Settlemyre TOG-1
BASIN,SUBBASIN :, Gulf Interior, Oakwood Dome
COUNTY,STATE :, Freestone, TX
LATITUDE :, 31-32 deg-min
LONGITUDE :, 95-58 deg-min
SECTION,BLOCK :, NR
DRILLING COMPLETION DATE :, 791107 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 109.6, (359.78) meters(feet)
KELLY BUSHING ELEVATION :, 113.0, (370.86) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 413.1, (1355.7) meters(feet)
DRILLING TECHNIQUE :, bucket auger;
DRILLING FLUID PROGRAM :, mud mix
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 40.6, (16), 0.0, 17.4, (0-57)

, NR, 38.1, (15), 17.4, 108.2, (57-355)
, NR, 29.2, (11-1/2), 108.2, 219.8, (355-721)
, NR, 22.2, (8-3/4), 219.8, 413.1, (721-1355.7)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 17.4, (57)
, 32.4, (12-3/4), 106.7, (350)
, 24.5, (9-5/8), 219.8, (721)
LITHOLOGIC LOGS :, YES,
GEOPHYSICAL LOGS :, YES, induction electric, microlog, micro laterolog, SP, BHC, gamma, neutron porosity, fracture ID, compensated density, variable density, differential temperature, temperature,
CORE LOGS :, YES, conventional cores,
MUD LOGS :, YES, cutting samples, sample lithology, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, REKLAW, 0.0, 15.2, (0-50)
, CARRIZO, 15.2, 51.8, (50-170)
, WILCOX, 51.8, 217.3, (170-713)
, UPPER CAPROCK, 217.3, 276.2, (713-906)
, LOWER CAPROCK, 276.2, 354.5, (906-1163)
, SALT, 354.5, 413.1, (1163-1355)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 198.4, 219.8, (651-721), conventional cores
, 10.2, (4), 221.9, 411.8, (728-1351), conventional cores
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, sidewall cores, 137.2, 204.2, (450-670)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, formation, NR, 121.9, 209.1, (400-686)
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, REKLAW, fine grained white to yellow-brown sand, trace of ironstone and lignite
, CARRIZO, medium gray fine grained silty sand
, WILCOX, interbedded light to medium aray fine grained sand, gray siltstone and gray silty claystone
, UPPER CAPROCK, gray limestone
, LOWER CAPROCK, dark gray annydrite
, SALT, almost pure halite, clear to white to light gray
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-54,61-99, (1)
000000, OE Swanson, KA St. John, CAB, 60, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982. Gulf Coast Salt Domes Well Completion Reports Site TOG-1, ONWI-186

ITEM 107

ACCESSION NUMBER :160
RECORD TYPE :borehole summary
WELL ID :, DOE-Settlemyre TOH-2A
BASIN,SUBBASIN :, Gulf Interior, Oakwood Dome
COUNTY,STATE :, Leon, TX
LATITUDE :, 31-31 deg-min
LONGITUDE :, 95-57 deg-min
SECTION,BLOCK :, NR
DRILLING COMPLETION DATE :, 790927 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 114.2, (374.8) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1036.3, (3400) meters(feet)
DRILLING TECHNIQUE :, bucket auger
DRILLING FLUID PROGRAM :, mud mix
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 17.1, (0-56)
, NR, 38.1, (15), 17.1, 107.3, (56-352)
, NR, 25.1, (9-7/8), 107.3, 577.6, (352-1895)
, NR, 25.1, (9-7/8), 588.3, 1036.3, (1930-3400)
, NR, 30.5, (12), 577.6, 588.3, (1895-1930)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 40.6, (16), 17.1, (56)
, 27.3, (10-3/4), 106.7, (350)
, 16.8, (6-5/8), 577.6, (1895)
, 8.9, (3-1/2), 546.5, (1793-1904)
, 8.9, (3-1/2), 586.1, (1923-1944)
, 8.9, (3-1/2), 580.3, (1904-1923)
LITHOLOGIC LOGS :, YES,
GEOPHYSICAL LOGS :, YES, electric, induction electric, micro laterolog, SP, cement bond, sonic, gamma, gamma-gamma, fracture ID, dual caliper, caliper, dip, temperature,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting samples, sample lithology, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, QUEEN CITY, 0.0, 95.1, (0-312)
, MARQUEZ SHALE, 95.1, 125.0, (312-410)
, NEWBY SAND, 125.0, 140.8, (410-462)
, CARRIZO, 140.8, 176.8, (462-580)
, WILCOX, 176.8, 740.7, (580-2430)
, MIDWAY, 740.7, 939.4, (2430-3082)
, NAVARRO-UPPER, 939.4, 1017.4, (3082-3338)
, NACATOCH, 1017.4, 1026.6, (3338-3368)
, NAVARRO-LOWER, 1026.6, 1036.3, (3368-3400)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 580.3, 586.1, (1904-1923), during formation test
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown, NR, 580.3, 586.1, (1904-1923)
, repeat formation, NR, 106.7, 1036.3, (350-3400)

HYDROGEOLOGIC MONITORING :, YES, initial capacity, water level monitoring, Water levels between (305.4 feet and 299.6 feet) 93.1-91.3 m from 10/2/79 to 3/4/80
GEOMECHANICAL FIELD TESTS (type,comments) :
, NR
GEOMECHANICAL LAB TESTS (type,comments) :
, NR
ROCK SAMPLE TESTS (type,comments) :
, permeability analysis
HYDROCHEMICAL TESTS (type,comments) :
, field tests
, permeability analysis
LITHOLOGY (formation,description):
, QUEEN CITY, orange to clear fine to medium grained sand interbedded light gray to brown gray silty clay and light to medium gray silty sand
, MARQUEZ SHALE, medium-dark gray siltstone, traces of glauconite, pyrite, lignite
, NEWBY SAND, medium gray to clear very fine to medium grained sand
, CARRIZO, predominantly light gray fine grained sand
, WILCOX, interbedded sequence of sands to shales
, MIDWAY, medium gray siltstone and claystone
, NAVARRO-UPPER, limestone with medium gray silty marlstone
, NACATOCH, interbedded marlstone and sandstone, some interbedded limestone
, NAVARRO-LOWER, marlstone and white limestone
INITIALIZATION (date,authorities,field numbers,source) :
000000, OE Swanson, KA St. John, CAB, 2-54, 61,63,70,72-74,99, (1)
000000, OE Swanson, KA St. John, CAB, 03, (2)
000000, OE Swanson, KA St. John, CAB, 82,83, (3)
000000, OE Swanson, KA St. John, CAB, 60,62,71, (UE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Reports Site TOH-2, ONWI-187
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report East Texas Study Area, Volume VIII Appendix, ONWI-118
, (3) Slaughter, George M. et al, February 1982, Permeability of Selected Sediments in the Vicinity of Five Salt Domes in the Gulf Interior Region, Law Engineering Testing Company, ONWI-356

ITEM 108

ACCESSION NUMBER :159
RECORD TYPE :borehole summary
WELL ID :, DOE-Settlemyre TOH-5D
BASIN,SUBBASIN :, Gulf Interior, Oakwood Dome
COUNTY,STATE :, Freestone, TX
LATITUDE :, 31-33 deg-min
LONGITUDE :, 95-56 deg-min
SECTION,BLOCK :, NR
DRILLING COMPLETION DATE :, 791018 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 129.0, (423.7) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 205.1, (673) meters(feet)
DRILLING TECHNIQUE :, bucket auger:

DRILLING FLUID PROGRAM :, mud with injection of diethyl ether
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 66.0, (26), 0.0, 15.3, (0-50.7)
, NR, 20.0, (7.87), 15.3, 204.9, (50.7-672.6)
, NR, 29.2, (11.5), 15.3, 182.9, (50.7-600)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 35.5, (14), 15.3, (50.7)
, 16.8, (6-5/8), 144.2, (473)
, 8.9, (3-1/2), 144.2, (473-493)
, 8.9, (3-1/2), 157.7, (517.7-599)
LITHOLOGIC LOGS :, YES, well cuttings, general description,
GEOPHYSICAL LOGS :, YES, induction electric, lateral log, SP, cement bond, sonic, gamma, caliper,
CORE LOGS :, NO,
MUD LOGS :, YES, gas monitoring,
FORMATIONS PENETRATED [interval in meters(ft)] :
, QUEEN CITY, 0.0, 100.0, (0-328)
, REKLAW, 100.0, 139.6, (328-458)
, CARRIZO, 139.6, 184.1, (458-604)
, WILCOX, 184.1, 205.1, (604-673)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 144.2, 150.3, (473-493), during formation test
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drawdown, NR, 144.2, 150.3, (473-493)
HYDROGEOLOGIC MONITORING :, YES, water levels between 86.1-85.4 m (282.4 feet and 280.4 feet) from 10/17/79 to 3/4/80, Initial capacity testing
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, NR
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, field tests
LITHOLOGY [formation,description]:
, QUEEN CITY, orange to clear fine to medium grained sand, medium-dark gray silty sand fine grained, interbedded siltstones and sands with some dark gray clays
, REKLAW-MARQUEZ SHALE, medium to dark gray locally sandy siltstone interbedded with brown-greenish gray clay
, REKLAW-NEWBY SAND, medium gray to clear sand locally silty fine to medium grained
, CARRIZO, clear to light gray fine silty sand followed by sandy silt and clear to white clay
, WILCOX, fine to medium grained sand interbedded with siltstone
INITIALIZATION [date,authorities,field numbers,source] :
000000, OE Swanson, KA St. John, CAB, 2-61,63,70,72-99, (1)
000000, OE Swanson, KA St. John, CAB, 83, (2)
000000, OE Swanson, KA St. John, CAB, 62,71, (OE Swanson)
SOURCES:
, (1) Law Engineering Testing Company, 1982, Gulf Coast Salt Domes Well Completion Report: Site TOH-5, ONWI-188
, (2) Law Engineering Testing Company, July 1982, Gulf Coast Salt Domes Geologic Area Characterization Report East Texas Study Area, Volume VIII Appendix, ONWI-118

ITEM 109

ACCESSION NUMBER :192
RECORD TYPE :borehole summary
WELL ID :, G Friemel #1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Deaf Smith, TX
LATITUDE :, 34-55 deg-min
LONGITUDE :, 102-22 deg-min
SECTION,BLOCK :, Sec 6, Block 3
DRILLING COMPLETION DATE :, 820331 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 1163.2, (3816.7) meters(feet)
KELLY BUSHING ELEVATION :, 1165.3, (3823.2) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 826.0, (2710.2) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, chemical tracer added to drilling fluid, salt-base mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 31.1, (12-1/4), 0.0, 322.8, (0-1059)
, NR, 44.4, (17-1/2), 0.0, 15.2, (0-50)
, diamond and tooth bits, 21.6, (8-1/2), 322.8, 826.0, (1059-2710)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 15.2, (50)
, 24.4, (9-5/8), 322.5, (1058)
LITHOLOGIC LOGS :, YES, field boring log,
GEOPHYSICAL LOGS :, YES, dip, dual induction, temperature, sonic, variable density, compensated neutron,
CORE LOGS :, YES, continuous core,
MUD LOGS :, YES, gas detector, pump stroke counter, gas chromatograph, H2S gas detector, depth meter, lithologic ID,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 79.9, (0-262)
, DOCKUM, 79.9, 300.2, (262-985)
, DEWEY LAKE, 300.2, 319.4, (985-1048)
, ALIBATES, 319.4, 331.6, (1048-1088)
, SALADO, 331.6, 354.8, (1088-1164)
, YATES, 354.8, 380.4, (1164-1248)
, UPPER SEVEN RIVERS, 380.4, 410.3, (1248-1346)
, LOWER SEVEN RIVERS, 410.3, 464.8, (1346-1525)
, QUEEN/GRAYBURG, 464.8, 531.0, (1525-1742)
, UPPER SAN ANDRES, 531.0, 680.0, (1742-2231)
, LOWER SAN ANDRES UNIT 5, 680.0, 742.2, (2231-2435)
, LOWER SAN ANDRES UNIT 4, 742.2, 819.3, (2435-2688)
, LOWER SAN ANDRES UNIT 3, 819.3, 826.0, (2688-2710)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 362.7, 399.9, (1190-1312)
, 10.2, (4), 520.9, 826.0, (1709-2710), continuous core through lower San Andres Unit 4 dolomite
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, NR, NR, NR, mean SCN-concentration 279 ppm
, mud samples, NR, NR, NR, collected once every core run

, cutting samples, NR, NR, NR, every 1.5m (5 feet) while coring
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 792.5, 826.0, (2600-2710)
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, creep
, strength
ROCK SAMPLE TESTS [type,comments] :
, petrographic analysis
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, OGALLALA, light brown sandstone with caliche and gravel layers
, DOCKUM, red-brown sandstone, siltstone, and shales
, DEWEY LAKE, dark red-brown siltstone
, ALIBATES, light gray annydrite with thin red-brown siltstone
, SALADO, red-brown siltstone with anhydrite interbeds at base
, YATES, red-brown siltstone with occasional silty shale
, UPPER SEVEN RIVERS, salt with interbeds of red-brown siltstone and anhydrite
, LOWER SEVEN RIVERS, red-brown to brown siltstone with occasional anhydrite, thick basal anhydrite
, QUEEN/GRAYBURG, red-brown siltstone
, UPPER SAN ANDRES, salt with interbeds of red-brown shale, siltstone, and basal anhydrite
, LOWER SAN ANDRES UNIT 5, salt with interbeds of red-brown shale and anhydrite. Massive dolomite and basal anhydrite
, LOWER SAN ANDRES UNIT 4, salt with shale and annydrite interbeds, olive dolomite, and limestone
, LOWER SAN ANDRES UNIT 3, salt
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 2-73,99, (1)
000000, PL Archer, KA St. John, CAB, 81, (2)
000000, PL Archer, KA St. John, CAB, 74,80, (Archer)
000000, PL Archer, KA St. John, CAB, 82, (3)
SOURCES:
, (1) Stone & Webster Engineering Corporation, July 1982. Well Completion Report Friemel No. 1 Palo Duro Basin, Draft, Volume 1
, (2) Martin, R.J., July 26, 1983. Laboratory Testing of Rock and Salt Samples For Static Moduli, Dynamic Moduli and Triaxial Compressive Strength, Applied Research Associates Inc, for Stone & Webster
, (3) Fukui, L.M., May 2, 1983. Summary of Petrographic and Chemical Data for Palo Duro Basin Samples, Bendix Field Engineering Corporation, for ONWI

ITEM 110

ACCESSION NUMBER :193
RECORD TYPE :borehole summary
WELL ID :, Grabbe #1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Swisher, TX
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 202, M-9
DRILLING COMPLETION DATE :, 781122 (yymmdd)

BOREHOLE STATUS : plugged
GROUND LEVEL ELEVATION : 1047.0, (3435) meters(feet)
KELLY BUSHING ELEVATION : NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE : 1283.8, (4212) meters(feet)
DRILLING TECHNIQUE : NR;
DRILLING FLUID PROGRAM : mud mix-gel to 216.4m (710 feet), Drill-S to 1283.2m (4210 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, diamond, 21.6, (8-1/2), NR, NR, NR
, NR, 44.4, (17-1/2), NR, NR, NR
, NR, 31.8, (12-1/2), NR, NR, NR
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 24.4, (9-5/8), 216.4, (710)
, 33.8, (13-3/8), 23.8, (78)
LITHOLOGIC LOGS : YES,
GEOPHYSICAL LOGS : YES, BHC sonic, fracture ID, compensated neutron, compensated sonic, dual induction, dual laterolog,
CORE LOGS : YES, continuous cores, slabbed core photographs, whole core photographs,
MUD LOGS : YES, drilling rate record, cuttings, gas chromatograph record,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 184.1, (0-604)
, DOCKUM-TRIASSIC, 184.1, 214.0, (604-702)
, PERMIAN, 214.0, 282.9, (702-928)
, ALIBATES/YATES, 282.9, 361.5, (928-1180)
, SALADO SALT, 361.5, 509.6, (1186-1672)
, UPPER SAN ANDRES, 509.6, 722.4, (1672-2370)
, LOWER SAN ANDRES, 722.4, 893.1, (2510-2930)
, GLORIETA, 893.1, 908.3, (2930-2980)
, SAN ANGELO, 908.3, 993.7, (2980-3260)
, CLEAR FORK, 993.7, 1170.4, (3260-3840)
, TUBB, 1170.4, 1274.1, (3840-4180)
, TUBB/LOWER CLEAR FORK, 1274.1, 1283.2, (4180-4210)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 770.1, 801.7, (2526.5-2630.2)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, mud tests, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, repeat formation, 1, 67.1, 204.2, (220-670)
, repeat formation, 1, 838.2, 937.0, (2750-3074)
HYDROGEOLOGIC MONITORING : NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, creep
, strength
, index
, thermal analyses
ROCK SAMPLE TESTS [type,comments] :
, petrographic analysis
HYDROCHEMICAL TESTS [type,comments] :
, organo-geochem analyses
, normalized paraffin

LITHOLOGY [formation,description]:
, NR
, NR
, PERMIAN, siltstone
, ALIBATES/YATES, 1st salt at 317m, (1040 feet) followed by siltstone
, SALADO, 62.8m (206 feet) salt between 361.5-424.3m (1186-1392 feet)
, UPPER SAN ANDRES, massive salt and anhydrite, some dolomite and claystone
, LOWER SAN ANDRES, 46.6m (153 feet) salt interval between 722.4-765.1m (2370-2510 feet), dolomite and anhydrite
, GLORIETA, massive salt, mudstone and claystone
, SAN ANGELO, 30.5m (100 foot) salt interval between 908.3-938.8m (2980-3080 feet)
, CLEAR FORK, 103.6m (340 foot salt) interval with minor 0.6-3.0m (2-10 foot) shale breaks, mudstone, anhydrite and some claystone
, TUBB, massive salt, siltstone, mudstone, claystone
, TUBB/LOWER CLEAR FORK, massive salt, mudstone, anhydrite and some claystone
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 1-70,72,73, (1)
000000, PL Archer, KA St. John, CAB, 82, (4)
000000, PL Archer, KA St. John, CAB, 71,81, (3)
000000, PL Archer, KA St. John, CAB, 74,80,83, (Archer)
000000, PL Archer, KA St. John, CAB, 83, (2)
SOURCES:
, (1) Gruy Federal, Inc, 1979. Hole Completion Report DOE-Gruy Federal Inc. - D.M. Grabbe #1 Swisher County, Texas, LaVerne B. Cobb, ONWI/SUB/12-01700-4
, (2) Texas Bureau of Economic Geology, 1982. Summary Well Report DOE-Gruy Federal #1 Grabbe Swisher County, Texas, University of Texas-Austin
, (3) Pfeifle, T.W. et al, April 1983. Constitutive Properties of Salt from Four Sites, RE/SPEC Inc, ONWI-314
, (4) Fukui, L.M., May 2, 1983. Summary of Petrographic and Chemical Data for Palo Duro Basin Samples, Bendix Field Engineering Corporation, for ONWI

ITEM 111

ACCESSION NUMBER	:32
RECORD TYPE	:borehole summary
WELL ID	:, Harman #1
BASIN,SUBBASIN	:, Permian, Palo Duro
COUNTY,STATE	:, Swisher, TX
LATITUDE	:, 34-42 deg-min
LONGITUDE	:, 101-47 deg-min
SECTION,BLOCK	:, Sec 16, M-9
DRILLING COMPLETION DATE	:, 820907 (yymmdd)
BOREHOLE STATUS	:, capped, well plugged between 371.9 and 426.7 meters
GROUND LEVEL ELEVATION	:, 1076.6, (3532) meters(feet)
KELLY BUSHING ELEVATION	:, 1079.0, (3540.3) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 930.3, (3052) meters(feet)
DRILLING TECHNIQUE	:, mud rotary;
DRILLING FLUID PROGRAM	:, fresh water mud to 324.3 meters (1064 ft); salt . In March 1983, salt mud displayed by freshwater mudsaturated mud below 324.3 meters

DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 44.5, (17-1/2), 0.0, 14.6, (0-48)
, DSJ, 31.1, (12-1/4), 14.6, 324.3, (48-1064)

, CM-16/FDT/GP702, 21.6, (8-1/2), 324.3, 930.3, (1064-3052)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 34.0, (13-3/8), 14.6, (48)
, 24.4, (9-5/8), 324.3, (1064)
, 5.6, (2-1/5), 352.7, 361.8, (1157-1187), in March 1983
LITHOLOGIC LOGS :, YES, well cuttings, field boring log
GEOPHYSICAL LOGS :, YES, dual induction, microresistivity, sonic, temperature, compensated neutron, lithology density, continuous dipmeter, fraction identification, continuous directional, natural gamma ray spectrometer, caliper, gamma ray, spontaneous potential, well seismic velocity, cyberlook, coriband, cluster, program, well seismic report, computed directional
CORE LOGS :, YES, core sample status log, core sample storage log,
MUD LOGS :, YES, gas detector, mud check twice daily
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 78.6, (0-258)
, DOCKUM, 78.6, 306.9, (258-1007)
, DEWEY LAKE , 306.9, 323.7, (1007-1062)
, ALIBATES, 323.7, 335.9, (1062-1102)
, SALADO, 335.9, 360.6, (1102-1183)
, YATES, 360.6, 379.8, (1183-1246)
, UPPER SEVEN RIVERS, 379.8, 457.5, (1246-1501)
, LOWER SEVEN RIVERS, 457.5, 521.2, (1501-1710)
, QUEEN/GRAYBURG, 521.2, 594.1, (1710-1949)
, UPPER SAN ANDRES, 594.1, 751.6, (1949-2466)
, LOWER SAN ANDRES UNIT 5, 751.6, 808.0, (2466-2651)
, LOWER SAN ANDRES UNIT 4, 808.0, 893.4, (2651-2931)
, LOWER SAN ANDRES UNIT 3, 893.4, 918.1, (2931-3012)
, LOWER SAN ANDRES UNIT 2, 918.1, 930.3, (3012- 3052)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 326.1, 397.2, (1070-1303)
, 10.2, (4), 549.9, 930.3, (1804-3052)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, mud tracer, NR, NR, (NR), each core run
, cuttings, NR, NR, (NR), each 5 feet while coring
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, RFT, 7, 356.0, 904.4, (1168-2967)
, straddle packer, 1, 865.6, 885.8, (2840-2906)
, straddle packer, 1, 862.6, 929.7, (2830-3050)
, pump, NR, 342.6, 370.0, (1124-1214), planned
HYDROGEOLOGIC MONITORING :, YES, planned
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO,
GEOMECHANICAL LAB TESTS [type,comments] :
, YES, planned
ROCK SAMPLE TESTS [type,comments] :
, YES, planned
HYDROCHEMICAL TESTS [type,comments] :
, YES, planned
LITHOLOGY [formation,description]:
, OGALLALA, brown sandstone and reddish-brown siltstone
, DOCKUM, brown siltstone with brown sandstone and minor gray limestone

, DEWEY LAKE, reddish-brown siltstone
, ALIBATES, light gray anhydrite and minor reddish-brown siltstone
, SALADO, light gray-purple anhydrite with basal brick red siltstone
, YATES, brick red sandy siltstone with minor anhydrite inclusions
, UPPER SEVEN RIVERS, light to medium gray salt with thin beds of reddish-brown siltstone and sandstone and gray anhydrite
, LOWER SEVEN RIVERS, reddish-brown siltstone with brown sandstone and minor gray salt and gray anhydrite
, QUEEN/GRAYBURG, reddish-brown siltstone with minor light gray anhydrite
, UPPER SAN ANDRES, pale brown salt with light gray anhydrite and basal minor brown siltstone, gray shale, and gray dolomite
, LOWER SAN ANDRES #5, light gray and brown salt with light gray anhydrite and some grayish-green dolomitic limestone
, LOWER SAN ANDRES #4, light brownish-gray salt with minor light gray anhydrite and massive basal light greenish-tan limestone
, LOWER SAN ANDRES #3, light brown salt, beige dolomite, and light gray anhydrite
, LOWER SAN ANDRES #2, light gray and brown salt and light brown dolomite
INITIALIZATION [date,authorities,field numbers,source] :
830902, PL Archer, MJ Gollis, NRC, 2-99, (1)
SOURCES:
, (1) Stone & Webster Engineering Corporation, 1983. Well Completion Report Harman No. 1 Palo Duro Basin, ONWI-510
, (2) Stone & Webster Engineering Corporation, June 1983. Well Completion Report Dissolution Zone Water Wells Palo Duro Basin, ONWI/SUB/83/E512-05000-T10

ITEM 112

ACCESSION NUMBER :189
RECORD TYPE :borehole summary
WELL ID :, J Friemel #1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Deaf Smith, TX
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, NR
DRILLING COMPLETION DATE :, 830318 (yymmdd)
BOREHOLE STATUS :, open
GROUND LEVEL ELEVATION :, 1223.8, (4015.9) meters(feet)
KELLY BUSHING ELEVATION :, 1226.8, (4024.9) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 2524.6, (8283) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, drilling mud with mud tests performed twice per day
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, auger bit, 76.2, (30), 0.0, 17.4, (0-57)
, NR, 50.8, (20), 17.4, 368.8, (57-1210)
, NR, 37.5, (14-3/4), 368.8, 1432.0, (1210-4698)
, rock bit, 22.2, (8-3/4), 1432.0, 2524.6, (4698-8283)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 55.9, (22), 17.4, (57), conductor casing
, 40.6, (16), 368.8, (1210), surface casing
, 27.3, (10-3/4), 1432.0, (4698), intermediate casing
, 14.0, (5-1/2), 2524.6, (8283), production casing
LITHOLOGIC LOGS :, YES, well cuttings, field boring log,
GEOPHYSICAL LOGS :, YES, gamma, spontaneous potential, caliper, dual induction/dual laterolog, microresistivity, compensated sonic, long spared sonic, lithodensity, natural gamma ray spectrometry, compensated neutron, dipmeter, temperature, well seismic monitor log, fracture ID, Cyberlook, Coriband, cluster,

geogram, computed directional, vertical seismic profile, cement bond/variable density,
CORE LOGS :, YES, continuous core, photographs, core sample storage log,
MUD LOGS :, YES, gas detector record, gas chromatograph record, infrared analyzer record, pump stroke counter record, drilling rate,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 120.1, (0-394)
, DOCKUM, 120.1, 335.3, (394-1100)
, DEWEY LAKE, 335.3, 362.1, (1100-1188)
, ALIGATES, 362.1, 369.7, (1188-1213)
, SALADO, 369.7, 390.1, (1213-1280)
, YATES, 390.1, 410.9, (1280-1348)
, UPPER SEVEN RIVERS, 410.9, 455.4, (1348-1494)
, LOWER SEVEN RIVERS, 455.4, 513.9, (1494-1686)
, QUEEN/GRAYBURG, 513.9, 574.6, (1686-1885)
, UPPER SAN ANDRES, 574.6, 691.3, (1885-2368)
, LOWER SAN ANDRES UNIT 5, 691.3, 782.1, (2368-2566)
, LOWER SAN ANDRES UNIT 4, 782.1, 860.2, (2566-2822)
, LOWER SAN ANDRES UNIT 3, 860.2, 897.6, (2822-2945)
, LOWER SAN ANDRES UNIT 2, 897.6, 919.9, (2945-3018)
, LOWER SAN ANDRES UNIT 1, NA, NA, (NA)
, GLORIETA, 919.9, 1110.4, (3018-3643)
, UPPER CLEAR FORK, 1110.4, 1264.3, (3643-4148)
, TUBB, 1264.3, 1335.6, (4148-4382)
, LOWER CLEAR FORK, 1335.6, 1433.2, (4382-4702)
, RED CAVE, 1433.2, 1601.1, (4702-5253)
, WICHITA, 1601.1, 1701.4, (5253-5582)
, WOLFCAMP, 1701.4, 2070.2, (5582-6792)
, PENNSYLVANIAN, 2070.2, 2524.6, (6792-8283)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, (NR), 107.3, 370.6, (352-1216)
, NR, (NR), 377.7, 446.2, (1239-1464)
, NR, (NR), 562.7, 862.6, (1846-2830)
, NR, (NR), 1682.2, 1838.6, (5519-6032)
, NR, (NR), 1957.1, 1992.5, (6421-6537)
, NR, (NR), 2346.4, 2371.4, (7698-7780)
, NR, (NR), 2452.7, 2524.6, (8047-8283)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, mud samples, NR, NR, (NR), once per core run
, tracer analysis, NR, NR, (NR)
, fluid sampling, NR, NR, (NR), in progress
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, NR, 389.8, 446.2, (1279-1464)
, drill stem, NR, 725.4, 839.1, (2380-2753)
, drill stem, NR, 1716.0, 1801.1, (5630-5909)
, pump test, NR, NR, NR, (NR), in progress
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, strength, in progress

, velocity, in progress
ROCK SAMPLE TESTS (type,comments) :
, planned
, permeability
HYDROCHEMICAL TESTS (type,comments) :
, dissolved organic materials
, isotopic composition
, gas samples
, age dating
, delta deuterium, 180, 36 Cl
LITHOLOGY (formation,description):
, OGALLALA, reddish-tan claystone and sandstone unconsolidated to soft, fine-subrounded to round grains (poor recovery)
, DOCKUM, red-brown sandy siltstone with layers of claystone and sandstone
thick layer of tan sandstone, mostly fine-grained from 237.7-266.7m (780-875 ft), grading to conglomerate to 271.3m (890 ft)
, DEWEY LAKE, red-brown siltstone and claystone
, ALIGATES, light green to white dolomite with some siltstone
, SALADO, red-brown siltstone with some gypsum and anhydrite
, YATES, red-brown siltstone
, UPPER SEVEN RIVERS, interbedded gray anhydrite and red-brown claystone/siltstone, salt with some siltstone/claystone and
anhydrite from 416.4-445.0m (1366-1460 ft)
, LOWER SEVEN RIVERS, red-brown siltstone with occasional anhydrite
, QUEEN/GRAYBURG, red-brown siltstone with occasional sandstone zones
, UPPER SAN ANDRES, salt with varying amounts of red-brown claystone impurities, occasional anhydrite and dolomite layers, mostly
anhydrite with interbeds of dolomite and siltstone at the base
, LOWER SAN ANDRES UNIT 5, upper portion- alternating beds of salt with some red-brown claystone inpurities and bluish gray
anhydrite, lower portion- alternating beds of bluish gray anhydrite and grayish brown dolomite
, LOWER SAN ANDRES UNIT 4, salt with varying amounts of red-brown claystone, mainly calcareous dolomite with anhydrite beds at
the base
, LOWER SAN ANDRES UNIT 3, clear to white salt with a 9.1m (30 feet) thick layer of gray-brown dolomite at the base
, LOWER SAN ANDRES UNIT 2, upper portion- clear to white salt with red-brown siltstone impurities, lower portion- light to medium
gray dolomite with occasional interbeds of salt
, LOWER SAN ANDRES UNIT 1, absent
, GLORIETA, thick salt sequence with varying quantities of red-brown siltstone impurities, occasional sandstone
, UPPER CLEAR FORK, mainly salt with some beds of red-brown siltstone, light tan dolomite and white anhydrite, sequence of white
anhydrite, red-brown siltstone and light tan dolomite at the base
, TUBB, red-brown siltstone with some anhydrite and salt
, LOWER CLEAR FORK, alternating beds of red-brown siltstone, clear to white salt and white anhydrite
, RED CAVE, red shale with some siltstone and anhydrite
, WICHITA, u. upper section-interbedded anhydrite, red shale with some medium olive-gray dolomite, lower section-olive-gray
argillaceous dolomite with anhydrite
, WOLFCAMP, top-thick sequence of olive-gray dolomite 61m (200 ft), middle-limestone varying in color from olive gray-tan to dark
gray (300 ft), bottom-thick sequence of dark gray to black argillite 213.4m (700 ft)
, PENNSYLVANIAN, thick medium gray shale sequence grading into a sequence of alternating shale and tan limestone and then into a
mainly limestone zone, mainly black limestone shale and arkosic sandstone (granite wash) from 2347.0-2524.6m (7700-8283 ft)
INITIALIZATION (date,authorities,field numbers,source) :
000000, P Arcner, KA St. Jonn, CAB, 2-74, (1)
000000, PL Archer, KA St. Jonn, CAB, 80-82, (Archer)
000000, N Hubbard, KA St. Jonn, CAB, 83, (2) for DUM and (Hubbard) for remainder
SOURCES:
, (1) Stone & Webster Engineering Corporation, October 1983. Well Completion Report J. Friemel No. 1 (PD-9) Palo Duro Basin,

Draft, ONWI/SUB/83/E512-05000-T11
, (2) Means, J.L. et al, September 1983. The Organic Geochemistry of Deep Ground Waters From the Palo Duro Basin, Texas, Battelle Columbus Laboratories

ITEM 113

ACCESSION NUMBER :187
RECORD TYPE :borehole summary
WELL ID :, Mansfield No. 1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Oldham, TX
LATITUDE :, 35-23 deg-min
LONGITUDE :, 102-24 deg-min
SECTION,BLOCK :, Sec 6, H-3
DRILLING COMPLETION DATE :, 820219 (yymmdd)
BOREHOLE STATUS :, plugged back to 5171 feet
GROUND LEVEL ELEVATION :, 1125.5, (3692.6) meters(feet)
KELLY BUSHING ELEVATION :, 1128.1, (3701) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 2258.3, (7409) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, sodium thiocyanate tracer added to drilling mud; mud tests twice per day
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 44.4, (17-1/2), 0.0, 12.5, (0-41)
, NR, 31.1, (12-1/4), 12.5, 369.4, (41-1212)
, diamond, 21.6, (8-1/2), 369.4, 1522.8, (1212-4996)
, NR, 20.0, (7-7/8), 1522.8, 2258.3, (4996-7409)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 9.8, (32)
, 24.5, (9-5/8), 366.7, (1203)
, 13.9, (5-1/2), 1576.1, (5171)
LITHOLOGIC LOGS :, YES, field boring log,
GEOPHYSICAL LOGS :, YES, density, temperature, dip, gamma, neutron porosity, sonic, laterolog, microlaterolog, caliper, fracture ID, continuous directional, resistivity, cement bond, dual induction,
CORE LOGS :, YES, continuous cores,
MUD LOGS :, YES, gas detector, gas chromatograph, H2S detector, pump stroke counter, depth meter, cutting samples,
FORMATIONS PENETRATED [interval in meters(ft)] :
, DOCKUM, 0.0, 151.2, (0-496)
, DEWEY LAKE, 151.2, 160.9, (496-528)
, ALIBATES, 160.9, 169.5, (528-556)
, SALADO, 169.5, 186.5, (556-612)
, YATES, 186.5, 199.6, (612-655)
, UPPER SEVEN RIVERS, 199.6, 209.4, (655-687)
, LOWER SEVEN RIVERS, 209.4, 234.7, (687-770)
, QUEEN/GRAYBURG, 234.7, 300.2, (770-985)
, UPPER SAN ANDRES, 300.2, 418.5, (985-1373)
, LOWER SAN ANDRES #5, 418.5, 471.2, (1373-1546)
, LOWER SAN ANDRES #4, 471.2, 553.2, (1546-1815)
, LOWER SAN ANDRES #3, 553.2, 591.3, (1815-1940)
, LOWER SAN ANDRES #2, 591.3, 602.9, (1940-1978)

, LOWER SAN ANDRES #1, 602.9, 609.9, (1978-2001)
, GLORIETA, 609.9, 777.2, (2001-2550)
, UPPER CLEAR FORK, 777.2, 934.2, (2550-3065)
, TUBB, 934.2, 971.4, (3066-3187)
, LOWER CLEAR FORK, 976.4, 1030.5, (3187-3381)
, RED CAVE, 1030.5, 1243.9, (3381-4081)
, WICHITA, 1243.9, 1376.2, (4081-4515)
, WOLFCAMP, 1376.2, 1996.5, (4515-6550)
, PENNSYLVANIAN, 1996.5, 2249.1, (6550-7379)
, PRECAMBRIAN, 2249.1, 2258.3, (7379-7409)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 14.0, 1079.0, (46-3540), continuous
, 10.2, (4), 1225.9, 1256.7, (4022-4123), continuous
, 10.2, (4), 1339.0, 1522.5, (4393-4995), continuous
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, 3575.9, 1413.7, (4514-4638), during drilling and corings, SCN=between 4.71-5.38 ppm
, tracer analysis, 1468.5, 1490.5, (4818-4890), SCN=between 0.29-0.31 ppm
, cutting samples, NR, NR, NR, every 1.5m (5 ft) while coring, every 3m (10 ft) while drilling
, mud samples, NR, NR, NR, taken once every core run
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, recovery, 1, 3575.9, 1413.7, (4514-4638), PI at 1245 psia
, recovery, 1, 1468.5, 1490.5, (4818-4890), initial formation pressure (PI) at 1407 psia
, drawdown, 1, 1468.5, 1490.5, (4818-4890), formation fluid discharge (Q) 190 standard tank barrels (STB) per day
, drawdown , 1, 3575.9, 1413.7, (4514-4638), Q = 62 STB per day
, drill stem, 1, 1463.1, 1522.8, (4800-4996), Wolfcamp formation
, drill stem, 1, 2133.6, 2258.3, (7000-7409), Pennsylvanian Granite to Precambrian rhyolite
, drill stem, 1, 2015.2, 2023.9, (6612-6640), Pennsylvanian Limestone
, drill stem, , 1, 1466.7, 1475.2, (4812-4820), Wolfcamp formation
,
HYDROGEOLOGIC MONITORING :, NR,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NR
GEOMECHANICAL LAB TESTS [type,comments] :
, creep
, strength
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, fluid samples
, dissolved organic normal
, isotopic composition
, gas samples
, age dating
LITHOLOGY [formation,description]:
, DOCKUM, interbedded reddish brown siltstone, sandstone and shale
, DEWEY LAKE, reddish brown silty shale
, ALIBATES, whitish arenaceous dolomite
, SALADO, reddish brown siltstone and shale; base is anhydrite
, YATES, reddish brown siltstone and shale
, UPPER SEVEN RIVERS, reddish brown siltstone and shale with some thin beds of salt

, LOWER SEVEN RIVERS, reddish brown siltstone
, QUEEN/GRAYBURG, reddish brown sandstone, siltstone and shale with thin beds of salt and anhydrite
, UPPER SAN ANDRES, brown and gray salt with thin interbeds of shale, siltstone and anhydrite; basal thick beds of anhydrite
, LOWER SAN ANDRES #5, brown and gray salt with thin interbeds of shale, siltstone and annydrite; basal thick beds of anhydrite
, LOWER SAN ANDRES #4, brown and gray salt with thin interbeds of shale; base is thick beds of dolomite and anhydrite with basal black shale
, LOWER SAN ANDRES #3, brown and gray salt with thin interbeds of shale and sandstone with basal annydrite and dolomitic shale
, LOWER SAN ANDRES #2, brown and gray salt with thin interbeds of shale with basal anhydrite and shale
, LOWER SAN ANDRES #1, gray dolomite and anhydrite with a basal shale
, GLORIETA, interbedded red brown salt, sandstone, siltstone and shale
, UPPER CLEAR FORK, interbedded brown salt, siltstone, and shale with basal dolomite
, TUBB, red brown and gray siltstone
, LOWER CLEAR FORK, interbedded gray brown salt, siltstone, shale and gray annydrite
, RED CAVE, reddish brown, brown and gray siltstone and shale with some sandstone; basal portion also has thin beds of anhydrite
, WICHITA, interbedded gray annydrite, shale and limestone
, WOLFCAMP, upper dolomite capping thick sequence of limestone with shale at base
, PENNSYLVANIAN, interbedded arkosic sandstone, limestone and shale
, PRECAMBRIAN, rhyolite
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 1-71,99, (1)
000000, PL Archer, KA St. John, CAB, 72,73, (2)
000000, N Hubbard, KA St. John, CAB, 83, (4) for DOM, (5) for isotopes, (2) for fluid samples (Hubbard) for remainder
SOURCES:
, (1) Stone and Webster Engineering Corporation, 1982. Well Completion Report Mansfield No. 1 Palo Duro Basin, Draft, for ONWI, Vol. 1
, (2) Stone and Webster Engineering Corporation, 1983. Pumping Test and Fluid Sampling Report Mansfield No. 1 Well Palo Duro Basin, ONWI/SUB/83/E512-05000-T9
, (3) Martin, R. J., 1983. Laboratory Testing of Rock and Salt Samples For Static Moduli, Pynamic Moduli and Triaxial Compressive Strength, July 26, Applied Research Associates Inc, to Stone & Webster
, (4) Means, J. L. et al, July 1983. The Organic Geochemistry of Deep Ground Waters and Radionuclide Partitioning Experiments Under Hydrothermal Conditions, Battelle Columbus Laboratories, ONWI-448
, (5) Laul, J. C., et al, 1983. An Aspect of Th and Ra Chemistry in the Wolfcamp and Granite Wash Aquifers, Palo Duro Basin, Texas, Abstract 1983, American Geophysical Union Spring Meeting

ITEM 114

ACCESSION NUMBER	:190
RECORD TYPE	:borehole summary
WELL ID	:, Mansfield No. 2
BASIN,SUBBASIN	:, Permian, Palo Duro Basin
COUNTY,STATE	:, Oldham, TX
LATITUDE	:, NR deg-min
LONGITUDE	:, NR deg-min
SECTION,BLOCK	:, Sec 6, Block M-3, A-426
DRILLING COMPLETION DATE	:, 821211 (yymmdd)
BOREHOLE STATUS	:, capped - well pumping/testing planned
GROUND LEVEL ELEVATION	:, 1125.3, (3692) meters(feet)
KELLY BUSHING ELEVATION	:, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 237.1, (778) meters(feet)
DRILLING TECHNIQUE	:, NR;

DRILLING FLUID PROGRAM :, chemical tracer added, air-mist
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 31.1, (12-1/4), 0.0, 220.4, (0-723)
, NR, 17.2, (6-3/4), 220.4, 237.1, (723-778)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 24.5, (9-5/8), 221.6, (722)
, 34.7, (13-5/8), 5.5, (18)
LITHOLOGIC LOGS :, YES, open hole logs,
GEOPHYSICAL LOGS :, YES, density, neutron, dual induction,
CORE LOGS :, NO,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, LOWER SEVEN RIVERS, 209.4, 237.1, (687-778)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, (NR), 220.4, 237.7, (723-780)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, NR, NR, NR, during drilling
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, packer, NR, 221.9, 231.0, (728-758)
HYDROGEOLOGIC MONITORING :, YES, water level monitoring - preliminary indications show water level about 141.7m (465 feet) (12/10/82)
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, in progress
HYDROCHEMICAL TESTS [type,comments] :
, fluid samples
, isotopic composition
, dissolved organic materials
, gas analysis
, age dating
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 2-74, (1)
000000, N Hubbard, KA St. John, CAB, 83, (Hubbard)
000000, PL Archer, KA St. John, CAB, 80-82, (P Archer)
SOURCES:
, (1) Stone & Webster Engineering Corporation, June 1983, Well Completion Report Dissolution Zone Water Wells Palo Duro Basin, ONWI/SUB/83/E512-05000-T10

ITEM 115

ACCESSION NUMBER :194
RECORD TYPE :borehole summary
WELL ID :, Rex White #1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Randall, TX

LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 17, Block 8
DRILLING COMPLETION DATE :, 760928 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 1085.4, (3561) meters(feet)
KELLY BUSHING ELEVATION :, 1089.1, (3573) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1220.0, (4001.5) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, Dril-S type mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, diamond, 21.6, (8-1/2), 0.0, 1219.2, (0-4000)
, OSC-3, 44.4, (17-1/2), 0.0, 28.0, (0-92)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 34.0, (13-3/8), 28.0, (92)
, 24.4, (9-5/8), 167.6, (550)
LITHOLOGIC LOGS :, YES, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, dual laterolog, dual induction, variable density, compensated sonic, fracture ID, density,
CORE LOGS :, YES, core photographs,
MUD LOGS :, YES, gas chromatographic analysis, sample lithologies, drilling rate record, gas detector, cutting description,
FORMATIONS PENETRATED [interval in meters(ft)] :
, TRIASSIC (DOCKUM), 81.7, 121.9, (268-400)
, PERMIAN, 121.9, 144.5, (400-474)
, ALIBATES, 144.5, 205.1, (474-673)
, SALADO SALT, 205.1, 350.5, (673-1150)
, UPPER SAN ANDRES, 350.5, 532.5, (1150-1747)
, LOWER SAN ANDRES, 532.5, 619.4, (1747-2032)
, BASAL SAN ANDRES, 619.4, 675.1, (2032-2215)
, GLORIETA-SAN ANGELO, 675.1, 748.0, (2215-2454)
, CLEAR FORK, 748.0, 921.1, (2454-3022)
, TUBB, 921.1, 984.5, (3022-3230)
, LOWER CLEAR FORK, 984.5, 1114.1, (3230-3655)
, RED CAVE, 1114.1, 1200.9, (3655-3940)
, WICHITA (PANHANDLE LIME), 1200.9, 1219.5, (3940-4001)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 3.7, 309.1, (12-1014)
, 10.2, (4), 572.0, 572.8, (1876.7-1879.3)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, mud samples, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, repeat formation, 1, 112.8, 121.9, (370-400)
, repeat formation, 1, 171.9, 1109.8, (564-3541)
HYDROGEOLOGIC MONITORING :, NR,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, creep
, strength
, thermal analyses

ROCK SAMPLE TESTS [type,comments] :
, petrographic analysis
, x-ray diffractometer trace
HYDROCHEMICAL TESTS [type,comments] :
, fluid samples
, organo-geocnem tests
, normalized paraffin
LITHOLOGY [formation,description]:
, NR
, NR
, NR
, SALADO SALT, firmsalt with considerable anhydrite and somewhat shaley
, UPPER SAN ANDRES, massive, clean, hard salt zone with minor anhydrite and shale breaks
, LOWER SAN ANDRES, massive, clean, firm crystalline salt, dolomite
, BASAL SAN ANDRES, clean, hard crystalline salt
, SAN ANDRES/TOP GLORIETA
, UPPER CLEAR FORK, clean, nard salt with some shale zones and anhydrite beds
tnree significant shale breaks with thickest being 2.4m (8 feet)
, NR
, LOWER CLEAR FORK, clean, nard crystalline salt, anhydrite and dolomite
, RED CAVE, dark anhydrite and red shale
, PANHANDLE (PANHANDLE LIME), dolomite
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 1-73,99, (1)
000000, PL Archer, KA St. John, CAB, 81,82, (2)(4)
000000, PL Archer, KA St. John, CAB, 71,81, (3)
SOURCES:
, (1) Gruy Federal, Inc, December 22 1978. Hole Completion Report DOE-Gruy Federal, Inc-Rex H. White #1 Randall County, Texas. ONWI/SubE512-01700-2, LaVerne Cobb (mgr)
, (2) Texas Bureau of Economic Geology, 1982. Summary Well Report DOE-Gruy Federal #1 Rex White Randall County, Texas, University of Texas-Austin
, (3) Pfeifle, T.W. et al, April 1983. Constitutive Properties of Salt from Four Sites, RE/SPEC Inc, ONWI-314
, (4) Fukui, L.M., May 2, 1983. Summary of Petrographic and Chemical Data for Palo Duro Basin Samples, Bendix Field Engineering Corporation, for ONWI

ITEM 116

ACCESSION NUMBER :191
RECORD TYPE :borehole summary
WELL ID :, Sawyer #2
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Donley, TX
LATITUDE :, NR deg-min
LONGITUDE :, NR deg-min
SECTION,BLOCK :, Sec 5, Block G
DRILLING COMPLETION DATE :, 821013 (yymmdd)
BOREHOLE STATUS :, capped - well pumping/testing planned
GROUND LEVEL ELEVATION :, 786.4, (2580) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 239.0, (784) meters(feet)

DRILLING TECHNIQUE :, air mist;
DRILLING FLUID PROGRAM :, conventional bentonite mud mix, chemical tracer added
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 31.1, (12-1/4), 0.0, 232.3, (0-762)
, NR, 17.2, (6-3/4), 232.3, 239.0, (762-784)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 22.0, (8-5/8), 232.6, (763)
, 33.9, (13-3/8), 9.1, (30)
LITHOLOGIC LOGS :, YES, open hole logs,
GEOPHYSICAL LOGS :, YES, cement bond, gamma,
CORE LOGS :, NR,
MUD LOGS :, NO,
FORMATIONS PENETRATED [interval in meters(ft)] :
, LOWER SAN ANDRES UNIT 4, 230.4, 239.0, (756-784)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, chemical tracer analysis, NR, NR, NR, during drilling
, fluid sampling, NR, NR, NR, planned
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 232.3, 238.4, (762-782)
HYDROGEOLOGIC MONITORING :, YES, water level monitoring
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, fluid samples
, isotopic composition
, dissolved organic materials
, age dating
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, PL Archer, KA St. John, CAB, 2-74, (1)
000000, N Hubbard, KA St. John, CAB, 83, (Hubbard)
000000, PL Archer, KA St. John, CAB, 80-82, (Archer)
SOURCES:
, (1) Stone & Webster Engineering Corporation, June 1983. Well Completion Report Dissolution Zone Water Wells Palo Duro Basin, ONWI/SUB/83/E512-05000-T10

ITEM 117

ACCESSION NUMBER :188
RECORD TYPE :borehole summary
WELL ID :, Stone-Webster Holtzclaw #1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Randall, TX

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LATITUDE                    :, NR deg-min
LONGITUDE                   :, NR deg-min
SECTION,BLOCK               :, Sec 57, H8
DRILLING COMPLETION DATE    :, 830324 (yymmdd)
BOREHOLE STATUS             :, capped
GROUND LEVEL ELEVATION      :, 1104.1, (3622.4) meters(feet)
KELLY BUSHING ELEVATION     :, 1109.0, (3638.5) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE     :, 879.2, (2884.4) meters(feet)
DRILLING TECHNIQUE          :, mud rotary;
DRILLING FLUID PROGRAM      :, mud-saturated salt
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 22.2, (8-3/4), 0.0, 879.2, (0-2884)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 27.3, (10-3/4), 342.9, (1125)
, 40.6, (16), 12.6, (41.4)
LITHOLOGIC LOGS             :, YES, field boring log,
GEOPHYSICAL LOGS            :, YES, compensated sonic,
CORE LOGS                   :, YES, status log,
MUD LOGS                    :, YES,
FORMATIONS PENETRATED [interval in meters(ft)]              :
, OGALLALA, 0.0, 70.1, (0-230)
, DOCKUM, 70.1, 317.3, (230-1041)
, DEWEY LAKE, 317.3, 335.3, (1041-1100)
, ALIBATES, 335.3, 348.4, (1100-1143)
, SALADO, 348.4, 371.3, (1143-1218)
, YATES, 371.3, 392.6, (1218-1288)
, UPPER SEVEN RIVERS, 392.6, 394.1, (1288-1293)
, SALT, 394.1, 441.4, (1293-1448)
, LOWER SEVEN RIVERS, 441.4, 499.0, (1448-1637)
, QUEEN/GRAYBURG, 499.0, 572.4, (1637-1878)
, UPPER SAN ANDRES, 572.4, 722.1, (1878-2369)
, LOWER SAN ANDRES UNIT 5, 722.1, 780.9, (2369-2562)
, LOWER SAN ANDRES UNIT 4, 780.9, 860.2, (2562-2822)
, LOWER SAN ANDRES UNIT 3, 860.2, 877.2, (2822-2878)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.16, (4), 334.4, 427.0, (1097-1401)
, 10.16, (4), 427.0, 702.3, (1401-2304)
, 10.16, (4), 702.3, 879.2, (2304-2884.4)
SAMPLING PROGRAM [type, interval in meters(ft),comments]    :
, NR, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, inflate straddle, 1, 388.9, 403.0, (1276-1322)
, inflate straddle, 1, 347.5, 361.5, (1140-1186)
, inflate straddle, 1, 214.0, 228.0, (702-748)
HYDROGEOLOGIC MONITORING    :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments]    :
, NONE
ROCK SAMPLE TESTS [type,comments]          :
```

, NR
HYDROCHEMICAL TESTS [type,comments] :
, NR
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, PA Archer, KA St. John, CAB, all, (1)
SOURCES:
, (1) Stone & Webster Engineering Corporation, 1983, Preliminary Well Data Holtzclaw No. 1 Palo Duro Basin

ITEM 118

ACCESSION NUMBER :186
RECORD TYPE :borehole summary
WELL ID :, Stone-Webster Sawyer No. 1
BASIN,SUBBASIN :, Permian, Palo Duro
COUNTY,STATE :, Donley, TX
LATITUDE :, 35-00 deg-min
LONGITUDE :, 100-52 deg-min
SECTION,BLOCK :, Sec 5, Block G
DRILLING COMPLETION DATE :, 811014 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 786.7, (2580.1) meters(feet)
KELLY BUSHING ELEVATION :, 789.3, (2589.6) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1464.9, (4806) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, sodium thiocyanate tracer added to drilling fluid, drilling mud tested twice per day
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, diamond, 21.6, (8-1/2), 102.7, 1200.3, (337-3938)
, NR, 12.1, (4-3/4), 1200.3, 1464.9, (3938-4806)
, NR, 31.1, (12-1/4), 20.1, 102.7, (66-337)
, NR, 44.4, (17-1/2), 0.0, 20.1, (0-66)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 13.9, (5-1/2), 1200.3, (337-3938), from Kelly Bushing
, 10.2, (4), 1453.3, (3938-4768)
, 33.9, (13-3/8), 20.1, (66)
, 24.5, (9-5/8), 102.7, (66-337)
LITHOLOGIC LOGS :, YES, field boring log,
GEOPHYSICAL LOGS :, YES, dual laterolog, compensated neutron, formation density, gamma, dual induction, dipmeter log, compensated sonic, cement bond log, temperature, fracture ID, microlog, sonic waveform, variable density, caliper, spontaneous potential, Cyberlook, Coriband, directional,
CORE LOGS :, YES, continuous, core sample status log,
MUD LOGS :, YES, gas detector record, gas chromatograph, H2S detector, pump stroke counter, depth meter, cuttings description,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OVERBURDEN, 0.0, 21.9, (0-72)
, YATES, 21.9, 32.6, (72-107)
, UPPER SEVEN RIVERS, 32.6, 42.1, (107-138)
, LOWER SEVEN RIVERS, 42.1, 104.5, (138-343)
, QUEEN/GRAYBURG, 104.5, 133.5, (343-438)

, UPPER SAN ANDRES, 133.5, 190.8, (438-626)
, LOWER SAN ANDRES #5, 190.8, 230.4, (626-756)
, LOWER SAN ANDRES #4, 230.4, 256.0, (756-840)
, LOWER SAN ANDRES #3, 256.0, 267.0, (840-876)
, LOWER SAN ANDRES #2, 267.0, 284.4, (876-933)
, GLORIETA, 284.4, 341.4, (933-1120)
, UPPER CLEAR FORK, 341.4, 471.5, (1120-1547)
, TUBB, 471.5, 527.0, (1547-1729)
, LOWER CLEAR FORK, 527.0, 643.4, (1729-2111)
, RED CAVE, 643.4, 718.1, (2111-2356)
, WICHITA, 718.1, 894.3, (2356-2934)
, WOLFCAMP, 894.3, 1086.0, (2934-3563)
, PENNSYLVANIAN, 1086.0, 1362.5, (3563-4470)
, ELLENBURGER, 1362.5, 1453.3, (4470-4768)
, PRECAMBRIAN, 1453.3, 1464.9, (4768-4806)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 20.1, 1200.3, (66-3938)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, NR, NR, NR, mean concentration in drilling fluid 73 ppm
, mud samples, NR, NR, NR, once every core run
, cutting samples, NR, NR, NR, every 1.5m (5 ft) of penetration
, surface and downhole formation samples, 966.8, 972.0, (3172-3189), following pump tests
, surface and downhole formation samples, 1297.9, 1323.5, (4258-4342)
, surface and downhole formation samples, 1371.6, 1374.7, (4500-4510)
, surface and downhole formation samples, 1437.5, 1446.6, (4716-4746)
, surface formation sample, 1403.3, 1414.3, (4604-4640)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 899.2, 951.9, (2950-3123), from K.B.
, drawdown and recovery, 1, 966.8, 972.0, (3172-3189), from K.B.
, drawdown and recovery, 1, 1297.9, 1323.5, (4258-4342)
, drawdown and recovery, 1, 1371.6, 1374.7, (4500-4510)
, drawdown and recovery, NR, 1403.3, 1414.3, (4604-4640)
HYDROGEOLOGIC MONITORING :, YES,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NR
HYDROCHEMICAL TESTS [type,comments] :
, dissolved organic materials
, isotopic composition
, delta deuterium, 180, 36cl
, gas samples
, age dating
LITHOLOGY [formation,description]:
, OVERBURDEN, NR
, YATES, reddish brown siltstone
, UPPER SEVEN RIVERS, broken shale and anhydrite
, LOWER SEVEN RIVERS, broken interbedded reddish-brown siltstone and light gray anhydrite

, QUEEN/GRAYBURG, interbedded gray, red brown siltstone with occasional anhydrite and shale
, UPPER SAN ANDRES, interbedded brown siltstone, shale and gray anhydrite
, LOWER SAN ANDRES #5, interbedded gray anhydrite and shales of various colors
, LOWER SAN ANDRES #4, interbedded sandy siltstone, limestone and shale
, LOWER SAN ANDRES #3, salt and brown shale
, LOWER SAN ANDRES #2, salt and brown shale
, GLORIETA, salt/mudstone with red brown shale and siltstone
, UPPER CLEAR FORK, salt/mudstone, salt, brown shale with occasional anhydrite
, TUBB, gray anhydrite, gray and brown siltstone interbedded with greenish-gray shale
, LOWER CLEAR FORK, gray and brown shale, salt and brown siltstone with occasional anhydrite and limestone
, RED CAVE, gray anhydrite interbedded with greenish gray and red brown shale and dolomite
, WICHITA, dolomite interbedded with shale and anhydrite
, WOLFCAMP, dolomite and limestone with occasional shale and annydrite
, PENNSYLVANIAN, light gray limestone, white to orange arkosic sandstone interbedded with gray shale
, ELLENBURGER, white limestone and dolomite, occasional cherty with basal sand
, PRECAMBRIAN, red rhyolite
INITIALIZATION (date,authorities,field numbers,source) :
000000, PL Archer, KA St. John, CAB, 1-71,99, (1)
000000, PL Archer, KA St. John, CAB, 72,73, (2)
000000, N Hubbard, KA St. John, CAB, 83, (3-DUM)(N. Hubbard-ONWI-deltas and gas)
000000, PL Archer, KA St. John, CAB, 74-81, (Archer)
SOURCES:
, (1) Stone & Webster Engineering Corporation, 1982, Well Completion Report Sawyer No. 1 Palo Duro Basin, Volume 1, Draft
, (2) Stone & Webster Engineering Corporation, 1983, Pumping Test and Fluid Sampling Report Sawyer No. 1 Well Palo Duro Basin, ONWI/SUB/83/E512-05000-T5
, (3) Means, J. L. et al, July 1983, The Organic Geochemistry of Deep Ground Waters and Radionuclide Partitioning Experiments Under Hydrothermal Conditions, Battelle Columbus Laboratories, ONWI-448
, (4) Laul, J. C. et al, 1983, An Aspect of In and Ra Chemistry in the Wolfcamp and Granite Wash Aquifers, Palo Duro Basin, Texas, Abstract 1983, American Geophysical Union Spring Meeting

ITEM 119

ACCESSION NUMBER	:31
RECORD TYPE	:borehole summary
WELL ID	:, Zeeck #1
BASIN,SUBBASIN	:, Permian, Palo Duro:
COUNTY,STATE	:, Swisher, TX
LATITUDE	:, 34-38 deg-min
LONGITUDE	:, 101-41 deg-min
SECTION,BLOCK	:, Sec 28, M-15
DRILLING COMPLETION DATE	:, 820801 (yymmdd)
BOREHOLE STATUS	:, plugged
GROUND LEVEL ELEVATION	:, 1039.4, (3410) meters(feet)
KELLY BUSHING ELEVATION	:, 1039.4, (3420) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE	:, 2328.7, (7640) meters(feet)
DRILLING TECHNIQUE	:, mud rotary
DRILLING FLUID PROGRAM	:, fresh water bentonite mud through Ogallala and Dockum; brine based mud after first salt contact;

DRILLING PROGRAM (bit,dia.-cm(in),interval-m(ft),comments) :
, NR, 44.4, (17-1/2), 0.0, 7.9, (0-26)
, NR, 31.1, (12-1/4), 7.9, 312.1, (26-1024)

, NR, 21.6, (8-1/2), 312.1, 2328.7, (1024-7640)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 34.0, (13-3/8), 7.9, (26)
, 24.4, (9-5/8), 312.1, (1024)
, 14.4, (5-1/2), 2261.9, (7421)
LITHOLOGIC LOGS :, YES, field boring logs,
GEOPHYSICAL LOGS :, YES, resistivity, microresistivity, sonic, temperature compensated neutron, photoelectric density, continuous dipmeter, fracture identification, continuous directional, natural gamma ray spectrometer, caliper, dual laterolog, gamma ray, SP, digital sonic, well seismic logs, Cyberlook Coriband, Cluster, Geogram, Well Seismic report, computed directional,
CORE LOGS :, YES, core sample status log
MUD LOGS :, YES, gas detector record, gas chromatograph record, infrared analyzer record, pump stroke counter record, drilling rate record,
FORMATIONS PENETRATED [interval in meters(ft)] :
, OGALLALA, 0.0, 43.6, (0-143)
, DOCKUM, 43.6, 288.6, (143-947)
, DEWEY LAKE, 288.6, 304.2, (947-998)
, ALIBATES, 304.2, 316.4, (998-1038)
, SALADO, 316.4, 362.1, (1038-1188)
, YATES, 362.1, 394.1, (1188-1293)
, UPPER SEVEN RIVERS, 394.1, 467.9, (1293-1535)
, LOWER SEVEN RIVERS, 467.9, 527.9, (1535-1732)
, QUEEN/GRAYBURG, 527.8, 613.9, (1732-2014)
, UPPER SAN ANDRES, 613.9, 784.6, (2014-2574)
, LOWER SAN ANDRES UNIT 5, 784.6, 832.7, (2574-2732)
, LOWER SAN ANDRES UNIT 4, 832.7, 918.7, (2732-3014)
, LOWER SAN ANDRES UNIT 3, 918.7, 943.1, (3014-3094)
, LOWER SAN ANDRES UNIT 2, 943.1, 963.2, (3094-3160)
, LOWER SAN ANDRES UNIT 1, 963.2, 971.7, (3160-3188)
, GLORIETTA, 971.7, 1096.7, (3188-3598)
, UPPER CLEAR FORK, 1096.7, 1250.0, (3598-4101)
, TUBB, 1250.0, 1337.2, (4101-4387)
, LOWER CLEAR FORK, 1337.2, 1478.3, (4387-4850)
, RED CAVE, 1478.3, 1494.8, (4850-4904)
, WICHITA, 1494.8, 1638.6, (4904-5376)
, WOLFCAMP, 1638.6, 2176.3, (5376-7140)
, PENNSYLVANIAN CARBONATES, 2176.3, 2328.7, (7140-7640)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.2, (4), 315.5, 348.7, (1035-1144)
, 10.2, (4), 574.6, 945.5, (1885-3102)
, 10.2, (4), 1618.2, 1761.8, (5309-5780)
, 10.2, (4), 1798.3, 1846.5, (5900-6058)
, 10.2, (4), 2225.1, 2252.9, (7300-7388)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, fluid sampling, 925.1, 2202.2, (3035-7225), in progress
, tracer analysis, NR, NR, NR, while drilling
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 310.6, 318.2, (1019-1044)
, drill stem, 1, 892.2, 945.8, (2927-3103)
, drill stem, 1, 925.1, 945.8, (3035-3103)

, drill stem, 1, 1635.3, 1689.2, (5365-5542)
, pump, NR, 2178.1, 2202.2, (7146-7225)
HYDROGEOLOGIC MONITORING :, YES, LOWER SAN ANDRES UNIT 4 is being monitored biweekly for pressure buildup.
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, strength, in progress
, index, in progress
, thermal, in progress
ROCK SAMPLE TESTS [type,comments] :
, petrographic descriptions,
HYDROCHEMICAL TESTS [type,comments] :
, major constituents,
, minor constituents,
, gas analysis,
, isotope analysis,
, age dating,
LITHOLOGY [formation,description]:
, OGALLALA, Mostly fluvial coarse to finesands weakly cemented with thin localized beds of gravel, Also local zones of caliche from zero to 10 feet in thickness
, DOCKUM, series of dark brown to brownish red fluvial sandstone
, DEwEY LAKE, dark brownish red shale
, ALIBATES, two beds of white annydrite separated by a shale bed
, SALADO, dark brownish red shale and siltstone base is marked by a thin anhydrite
,YATES, dark brownish red shale with occasional bed of siltstone
, UPPER SEVEN RIVERS, composed mainly of salt with occasional bed of shale and annydrite, Unit is capped by siltstone
, LOwER SEVEN RIVERS, Consists of interbedded siltstone and shale with a medial tight sandstone and a base of salt and annydrite. Upper siltstone may be porous and contain brine
,QUEEN/GRAYBURG, upper portion is interbedded shale and siltstone, The lower portion consists of two siltstone beds separated by shale, Base of unit is shale, The basal siltstone may be porous and contain brine
, UPPER SAN ANDRES, Upper portion of the formation consists of massive beds, This upper portion contains a favorale salt horizon, below which the salt quality deteriorates with the presence of more thin shale beds, The base of the formation is composed of annydrite and shale
, LOWER SAN ANDRES UNIT 5, The upper portion is mostly salt with some shale interbeds, A favorable salt horizon is located in this unit, The base of the unit is annydrite shale
, LOWER SAN ANDRES UNIT 4, Massive salt bed containing occasional shale interbeds less than 5 feet thick overlying massive dolomite and tnick bedded shale, Contains the thickest favorable salt horizon
, LOWER SAN ANDRES UNIT 3, Massive salt beds interbedded with thick shale, Contains one thick anhydrite bed
,LOWER SAN ANDRES UNIT 2, Massive salt overlying thick shale beds and a massive dolomite
, LOWER SAN ANDRES UNIT 1, Dolomite and shale
, UPPER CLEAR FORK, The formation is composed mostly of evaporites (salt, mixed salt and mudstone, and annydrite), interbedded with shale exhibiting little or no porosity
, TUBB, consists of shale interbeaded with slightly porous siltstone
the middle portion and the base may contain evaporites
, LOWER CLEAR FORK, Evaporites interbedded with shale, Middle portion marked by massive salt bed, Porosity is generally very low
, RED CAVE, Mostly red shale with occasional beds of annydrite, No porosity
, WICHITA, Upper portion consists of dolomite interbedded with shale and occasional annydrite bed, Lower portion consists mostly of limestone with an occasional shale bed, the average porosity is low
, WOLFCAMP, Upper 250 feet is porous dolomite underlain by limestone interbedded with shale, Lower half is dolomite interbedded with shale

, PENNSYLVANIAN, Top is limestone followed by massive beds of shale,limestone, and arkosic sandstone (Granite Wash). Lower half is interbedded arkosic sandstne and shale. Limestone and arkosic generally porous but highly variable laterally
INITIALIZATION [date,authorities,field numbers,source] :
830830, P Archer, MJ Gollis, BJM, 2-72 & drill stem and repeat formation test,74,99, (1)
830830, P Archer, MJ Gollis, BJM, 82,83, (2)
830830, P Archer, MJ Gollis, BJM, 81, (3)
830830, P Arcner, MJ Gollis, BJM, aquifer test, (4)
SOURCES:
, (1) Stone & Webster Engineering Corporation, 1983. Well Completion Report Zeeck #1, Palo Duro Basin, 1983
, (2) BFEC, Summary of Petrographic and Chemical Data for Palo Duro Basin Samples Examined by BFEC
, (3) Stone & Webster Engineering Corporation, 1983. Laboratory Test Program for Zeeck #1, OPBST-634
, (4) Stone & webster Engineering Corporation, Pump Testing Summary Report for Zeeck #1

ITEM 120

ACCESSION NUMBER :177
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 1
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, 38-43 deg-min
LONGITUDE :, 109-36 deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 780812 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1468.8, (4819) meters(feet)
KELLY BUSHING ELEVATION :, 1472.2, (4830.5) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 393.2, (1290) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, dry air and air mist
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 22.2, (8-3/4), 236.5, 393.2, (776-1290)
, NR, 31.1, (12-1/4), 29.6, 236.5, (97-776)
, NR, 44.4, (17-1/2), 0.0, 29.6, (0-97)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 29.6, (97)
, 24.5, (9-5/8), 231.3, (759)
LITHOLOGIC LOGS :, YES, well cuttings, field boring log,
GEOPHYSICAL LOGS :, YES, acoustic borehole compensated, caliper, computer processed logs, density/neutron borehole compensated, gamma ray/induction survey, magnetic inclinometer survey, seisviewer survey, temperature log, 3-D velocity, 3-D velocity (cement bond log),
CORE LOGS :, NO,
MUD LOGS :, YES, cutting sample descriptions, drill rate, gas detector, gas chromatograph, blender and cuttings gas analyzer, H2S detector,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 0.0, 196.3, (0-644)
, PARADOX (SALT), 196.3, 393.2, (644-1290)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :

, PENNSYLVANIAN, Top is limestone followed by massive beds of shale,limestone, and arkosic sandstone (Granite Wash). Lower half is interbedded arkosic sandstne and shale. Limestone and arkosic generally porous but highly variable laterally
INITIALIZATION [date,authorities,field numbers,source] :
830830, P Archer, MJ Golis, BJM, 2-72 & drill stem and repeat formation test,74,99, (1)
830830, P Archer, MJ Golis, BJM, 82,83, (2)
830830, P Archer, MJ Golis, BJM, 81, (3)
830830, P Archer, MJ Golis, BJM, aquifer test, (4)
SOURCES:
, (1) Stone & Webster Engineering Corporation, 1983. Well Completion Report Zeeck #1, Palo Duro Basin, 1983
, (2) BFEC, Summary of Petrographic and Chemical Data for Palo Duro Basin Samples Examined by BFEC
, (3) Stone & Webster Engineering Corporation, 1983. Laboratory Test Program for Zeeck #1, OPBST-634
, (4) Stone & Webster Engineering Corporation, Pump Testing Summary Report for Zeeck #1

ITEM 120

ACCESSION NUMBER :177
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 1
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, 38-43 deg-min
LONGITUDE :, 109-36 deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 780812 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1468.8, (4819) meters(feet)
KELLY BUSHING ELEVATION :, 1472.2, (4830.5) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 393.2, (1290) meters(feet)
DRILLING TECHNIQUE :, rotary;
DRILLING FLUID PROGRAM :, dry air and air mist
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 22.2, (8-3/4), 236.5, 393.2, (776-1290)
, NR, 31.1, (12-1/4), 29.6, 236.5, (97-776)
, NR, 44.4, (17-1/2), 0.0, 29.6, (0-97)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 29.6, (97)
, 24.5, (9-5/8), 231.3, (759)
LITHOLOGIC LOGS :, YES, well cuttings, field boring log,
GEOPHYSICAL LOGS :, YES, acoustic borehole compensated, caliper, computer processed logs, density/neutron borehole compensated, gamma ray/induction survey, magnetic inclinometer survey, seisviewer survey, temperature log, 3-D velocity, 3-D velocity (cement bond log),
CORE LOGS :, NO,
MUD LOGS :, YES, cutting sample descriptions, drill rate, gas detector, gas chromatograph, blender and cuttings gas analyzer, H2S detector,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 0.0, 196.3, (0-644)
, PARADOX (SALT), 196.3, 393.2, (644-1290)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :

, tracer analysis, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, swab test, 1, 29.6, 164.3, (97-539)
, injection, 1, 280.4, 295.7, (920-970)
, injection, 1, 301.8, 317.0, (990-1040)
, injection, 1, 323.7, 393.2, (1062-1290)
HYDROGEOLOGIC MONITORING : YES, Depth to static water level = 113.4m, altitude of potentiometric surface = 1355.2m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality
LITHOLOGY [formation,description]:
, CAPROCK, silty sandstone with intervals of dolomite and a zone of interbedded siltstone and anhydrite
, SALT, massive halite with occasional intervals of siltstone and interbeds of shale - siltstone - anhydrite
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, 1-73,99, (1)
000000, RN Helgerson, KA St. John, CAB, 74, (2)
000000, RN Helgerson, KA St. John, CAB, 80-82, (Helgerson)
SOURCES:
, (1) Woodward-Clyde Consultants, 1979. Completion Report for a Three-Hole Drilling and Testing Program, Salt Valley Anticline, Grand County, Utah, Volume 1 and 2, ONWI-34
, (2) Wollitz, L. E., et al, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8 and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 121

ACCESSION NUMBER :178
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 2
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, 38-41 deg-min
LONGITUDE :, 109-38 deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 780824 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1463.7, (4802) meters(feet)
KELLY BUSHING ELEVATION :, 1467.1, (4813.4) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 374.0, (1227) meters(feet)
DRILLING TECHNIQUE :, mud rotary; dry air and air mist;
DRILLING FLUID PROGRAM :, salt-gel mud from 171.3-216.7m (562-711 feet)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 22.2, (8-3/4), 29.0, 374.0, (95-1227)
, NR, 31.7, (12-1/2), 0.0, 206.7, (0-678)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 29.0, (95)

, 24.5, (9-5/8), 206.7, (678)
LITHOLOGIC LOGS :, YES, well cuttings, field boring log,
GEOPHYSICAL LOGS :, YES, acoustic borehole compensated, caliper, computer processed logs, density/neutron borehole compensated, gamma ray/induction survey, magnetic inclinometer survey, seisviewer survey, temperature log, 3-D velocity,
CORE LOGS :, NO,
MUD LOGS :, YES, cutting sample descriptions, drill rate, gas detector, gas chromatograph, blender and cuttings gas analyzer, H2S detector,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 0.0, 170.7, (0-560)
, PARADOX (SALT), 170.7, 374.0, (560-1227)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NA, NA, NA, NA, NA
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, 1, 29.0, 163.1, (95-535)
, injection, 1, 211.8, 374.0, (695-1227)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 112.2m, Altitude of potentiometric surface = 1351.1m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, hydraulic tests
LITHOLOGY [formation,description]:
, CAPROCK, intervals of sandstone, limey mudstone, shaley dolomite, gypsum, dolomite and limey shales
, SALT, massive halite
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, 1-73,99, (1)
000000, RN Helgerson, KA St. John, CAB, 74,83, (2)
000000, RN Helgerson, KA St. John, CAB, 80-82, (Helgerson)
SOURCES:
, (1) Woodward-Clyde Consultants, 1979. Completion Report for A Three-Hole Drilling and Testing Program, Salt Valley Anticline, Grand County Utah, Volume 1 and 2, ONWI-34
, (2) Wollitz, L. etal, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, AND 9, Salt Valley, Grand County, Utah, Open File Report 82-346, U.S. Geological Survey

ITEM 122

ACCESSION NUMBER :179
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 3
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, 38-41 deg-min
LONGITUDE :, 109-37 deg-min
SECTION,BLOCK :, Sec 5, T23N R20E

DRILLING COMPLETION DATE :, 781105 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1467.3, (4814) meters(feet)
KELLY BUSHING ELEVATION :, 1470.8, (4825.5) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1241.8, (4074) meters(feet)
DRILLING TECHNIQUE :, mud rotary;
DRILLING FLUID PROGRAM :, polymer addition to CaCl2 mud
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 31.1, (12-1/4), 29.6, 1241.8, (97-4074)
, NR, 22.2, (8-3/4), 32.6, 158.5, (107-520)
, NR, 44.4, (17-1/2), 0.0, 230.1, (0-755)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 33.9, (13-3/8), 230.1, (755).
LITHOLOGIC LOGS :, YES, lithologic descriptions, field boring log,
GEOPHYSICAL LOGS :, YES, acoustic borehole compensated, caliper, computer processed logs, density/neutron borehole compensated, gamma ray/induction survey, magnetic inclinometer survey, seisviewer survey, temperature log, 3-D velocity,
CORE LOGS :, YES, core photographs, core storage record,
MUD LOGS :, YES, cutting sample descriptions, drill rate, gas detector, gas chromatograph, blender and cuttings gas analyzer, H2S detector, pump stroke count, pit level totalizer, fluid flow sensor,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CAPROCK, 0.0, 170.7, (0-560)
, PARADOX (SALT), 170.7, 1241.8, (560-4074)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.16, (4), NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, swab, 1, 29.6, 158.5, (97-520)
, swab, 1, 29.6, 178.6, (97-586)
, drill stem, 1, 428.2, 466.7, (1405-1531)
, drill stem, 1, 417.0, 1015.3, (1368-3331)
, drill stem, 1, 1135.4, 1177.5, (3725-3863)
, drill stem, 1, 1176.5, 1228.1, (3860-4029)
, drill stem, 1, 1057.7, 1109.2, (3470-3639)
, drill stem, 1, 999.8, 1051.3, (3280-3449)
, drill stem, 1, 740.1, 791.6, (2428-2597)
, drill stem, 1, 630.6, 682.2, (2069-2238)
, drill stem, 1, 557.8, 609.3, (1830-1999)
, drill stem, 1, 491.3, 542.9, (1612-1781)
, swab and injection, 1, 230.1, 1241.8, (755-4074)
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, physical properties analysis
, petrographic analysis
, marker beds
ROCK SAMPLE TESTS [type,comments] :
, hydrocarbon analysis

, kerogen analysis
, gas inclusion analysis
HYDROCHEMICAL TESTS [type,comments] :
, bromine profiles
, halite profiles
LITHOLOGY [formation,description]:
, CAPROCK, silty limestone, intervals of silty-sandy dolomites, limey-sandy mudstone, limey siltstones, claystones and gypsum
, SALT, dominant halite with numerous interbeds of dolomitic black shales, anhydrite, dolomite, sandstone, sandy dolomite, mudstone, dolomitic mudstone and common halite veins
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Woodward-Clyde Consultants, 1979, Completion Report for A Three-Hole Drilling and Testing Program,Salt Valley Anticline, Grand County, Utah, Volume 1 and 2, ONWI-34

ITEM 123

ACCESSION NUMBER :180
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 4
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, 109-44 deg-min
LONGITUDE :, 38-50 deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 790907 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1463.8, (4802) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 161.2, (529) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, polymer mud (144.8-161.2m), dry air (0-130m) and air mist (130-144.8m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 161.2, (0-529)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 133.8, (439)
, 25.0, (9-5/6), 4.6, (15)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, caliper, neutron, gamma-gamma, gamma,
CORE LOGS :, NR,
MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 134.0, 150.0, (440-492)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, NR, 134.0, 150.0, (440-492)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 110.6m, Altitude of potentiometric surface = 1353.2m

GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E. et al, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 124

ACCESSION NUMBER :181
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 5
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 790906 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1463.6, (4802) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 128.0, (420) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, dry air (0-127m) and air mist (127-128m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 128.0, (0-420)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 134.0, (440)
, 25.0, (9-5/6), 4.6, (15)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, neutron, gamma-gamma, gamma,
CORE LOGS :, NR,
MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 110.0, 125.0, (361-410)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:

, pump, NR, 110.0, 125.0, (361-410)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 108.6m, Altitude of potentiometric surface = 1355.2m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E., et al, 1982, Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 125

ACCESSION NUMBER :182
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 6
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 790924 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1466.2, (4811) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 161.0, (528) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, dry air (0-136m) and air mist (0-161m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 161.0, (0-528)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 133.0, (436)
, 25.0, (9-5/8), 4.4, (14.5)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, caliper, neutron, gamma-gamma, gamma,
CORE LOGS :, NR,
MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :

, water samples, 133.0, 148.0, (436-486)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, NR, 133.0, 148.0, (436-486)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 108.3m, Altitude of potentiometric surface = 1357.9m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E., et al, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 126

ACCESSION NUMBER :183
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 7
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 790923 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1465.9, (4809) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 134.0, (440) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, polymer mud (113-120m), air mist (120-134m) and dry air (0-113m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 134.0, (0-440)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 118.0, (387)
, 25.0, (9-5/6), 5.8, (19)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, neutron, gamma-gamma, gamma,
CORE LOGS :, NR,
MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:

, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 118.0, 133.0, (387-440)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, NR, 118.0, 133.0, (387-440)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 104.1m, Altitude of potentiometric surface = 1361.8m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E., et al, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 127

ACCESSION NUMBER :184
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 8
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 791023 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1469.0, (4820) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 175.0, (574) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, polymer mud (24-175m) and dry air (0-24m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 175.0, (0-574)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 145.0, (476)
, 25.0, (9-5/6), 10.7, (35)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic descriptions,
GEOPHYSICAL LOGS :, YES, caliper, neutron, gamma-gamma, gamma, single point resistivity,
CORE LOGS :, NR,
MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :

, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 145.0, 160.0, (476-525)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, NR, 145.0, 160.0, (476-525)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 102.8m, Altitude of potentiometric surface = 1366.2m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E., et al, 1982, Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 128

ACCESSION NUMBER :185
RECORD TYPE :borehole summary
WELL ID :, DOE Salt Valley No. 9
BASIN,SUBBASIN :, Paradox, Salt Valley
COUNTY,STATE :, Grand, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 5, T23S R20E
DRILLING COMPLETION DATE :, 791026 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1469.3, (4820) meters(feet)
KELLY BUSHING ELEVATION :, NR, NR meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 137.0, (449.5) meters(feet)
DRILLING TECHNIQUE :, NR;
DRILLING FLUID PROGRAM :, polymer mud (0-137m)
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 20.0, (7-7/8), 0.0, 137.0, (0-449.5)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 15.0, (5-9/10), 121.0, (397)
, 25.0, (9-5/6), 10.3, (34)
LITHOLOGIC LOGS :, YES, well cuttings, lithologic description,
GEOPHYSICAL LOGS :, YES, neutron, gamma-gamma, gamma,
CORE LOGS :, NR,

MUD LOGS :, NR,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, NR, NR, NR, NR, NR
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 121.0, 137.0, (397-449.5)
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, pump, NR, 121.0, 137.0, (397-449.5)
HYDROGEOLOGIC MONITORING :, YES, Depth to static water level = 103.6m, Altitude of potentiometric surface = 1365.7m
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, water quality, on water samples
, hydraulic tests
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, all, (1)
SOURCES:
, (1) Wollitz, L. E., et al, 1982. Results of Hydraulic Tests in U.S. Department of Energy's Wells DOE-4,5,6,7,8, and 9, Salt Valley, Grand County, Utah, U.S. Geological Survey, Open-File Report 82-346

ITEM 129

ACCESSION NUMBER :176
RECORD TYPE :borehole summary
WELL ID :, E J Kubat #1
BASIN,SUBBASIN :, Paradox, Elk Ridge
COUNTY,STATE :, San Juan, UT
LATITUDE :, NR-NR deg-min
LONGITUDE :, NR-NR deg-min
SECTION,BLOCK :, Sec 23, T37S R19E
DRILLING COMPLETION DATE :, 810920 (yymmdd)
BOREHOLE STATUS :, plugged
GROUND LEVEL ELEVATION :, 2014.1, (6608) meters(feet)
KELLY BUSHING ELEVATION :, 2019.0, (6624) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1101.0, (3612) meters(feet)
DRILLING TECHNIQUE :, rotary drill;
DRILLING FLUID PROGRAM :, polymer drilling fluid mixed with sodium chloride brine
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, 22.22, (8-3/4), 0.0, 1101.0, (0-3612)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 27.3, (10-3/4), 39.6, (130)
LITHOLOGIC LOGS :, NR,
GEOPHYSICAL LOGS :, YES, sonic, caliper, compensated density, compensated neutron, dipmeter, directional, dual

laterolog, elastic properties, fracture ID, gamma ray, temperature, 3-D velocity, vertical seismic profile survey, synthetic seismogram survey,
CORE LOGS :, YES, 2 cement logs of former plugs,
MUD LOGS :, YES, total gas analyzer, gas chromatograph, hydrogen sulfide detector,
FORMATIONS PENETRATED [interval in meters(ft)] :
, NR, NR, NR, NR
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 10.16, (4), 39.6, 54.9, (130-180)
, 10.16, (4), 396.2, 426.7, (1300-1400)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, tracer analysis, NR, NR, NR, while drilling
, sidewall cores, NR, NR, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, long-term injection, 2, 1023.5, 1089.7, (3358-3575)
, pressure fall-off, 2, 1023.5, 1089.7, (3358-3575)
, short-term injection, 1, 1023.5, 1089.7, (3358-3575)
, slug, 3, 1023.5, 1089.7, (3358-3575)
HYDROGEOLOGIC MONITORING :, NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NONE
GEOMECHANICAL LAB TESTS [type,comments] :
, NONE
ROCK SAMPLE TESTS [type,comments] :
, NONE
HYDROCHEMICAL TESTS [type,comments] :
, hydraulic tests
, water quality
, separator tests
, gas analysis, hydrocarbons, not representative of Leadville Limestone aquifer
LITHOLOGY [formation,description]:
, NR
INITIALIZATION [date,authorities,field numbers,source] :
000000, RN Helgerson, KA St. John, CAB, 1-74, (1)
000000, RN Helgerson, KA St. John, CAB, 83, (2)
000000, RN Helgerson, KA St. John, CAB, 74-82, (Helgerson)
SOURCES:
, (1) Woodward-Clyde Consultants, 1982, E. J. Kubat Borehole, Elk Ridge Study Area of the Paradox Basin Region San Juan, Utah, A Completion Report, ONWI-403
, (2) Thackston, J. W., 1983, Results of Hydraulic Tests at Gibson Dome No. 1, Elk Ridge No. 1, and E. J. Kubat Boreholes, ONWI-491

ITEM 130

ACCESSION NUMBER :35
RECORD TYPE :borehole summary
WELL ID :, Elk Ridge #1
BASIN,SUBBASIN :, Paradox, Elk Ridge Study Area
COUNTY,STATE :, San Juan, UT
LATITUDE :, 37-33 deg-min
LONGITUDE :, 109-48 deg-min

SECTION,BLOCK : , Sec 31, T37S R19E
DRILLING COMPLETION DATE : , 811003 (yymmdd)
BOREHOLE STATUS : , plugged and site restored after hydro testing in March, 1982
GROUND LEVEL ELEVATION : , 2029.4, (6658) meters(feet)
KELLY BUSHING ELEVATION : , 2033.3, (6671) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE : , 1061.3, (3482) meters(feet)
DRILLING TECHNIQUE : ,mud rotary
DRILLING FLUID PROGRAM : , saturated NaCl brine/biopolymer to 369.4 m (1212 ft), HI-Vis polymer plus corrective additives to reduce loss of fluid
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, rock bit, 31.1, (12-1/4), 0.0, 124.1, (0-407)
, diamond core, 6.4, (2-1/2), 127.7, 1061.3, (419-3482)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 24.4, (9-5/8), 125.9, (413)
, 11.4, (4-1/2), 131.1, (430)
LITHOLOGIC LOGS : , YES
GEOPHYSICAL LOGS : , YES, temperature, neutron, density (borehole compensated) , Synthetic seismogram, dual laterology, gamma ray, compro (acoustic), elastic properties, 3D velocity, caliper,
CORE LOGS : , YES
MUD LOGS : , YES, gas types, gas concentrations,
FORMATIONS PENETRATED [interval in meters(ft)] :
, CEDAR MESA, 0.0, 256.0, (0-840)
, ELEPHANT CANYON, 256.0, 395.0, (840- 1296)
, HONAKER TRAIL, 395.0, 769.3, (1296-2524)
, PARADOX, 769.3, 1009.5, (2524-3312)
, PINKERTON TRAIL, 1009.5, 1061.3, (3312-3482)
CORES [diameter in cm(in), interval in meters(ft),comments]:
, 6.4, (2-1/2), 127.7, 1061.3, (419-3482)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, cuttings, 0.0, 124.1, (0-407) at 10-ft intervals
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, constant rate pumpout, 1, 131.0, 498.6, (430-1636)
, recovery , 1, 131.0, 498.6, (430-1636)
HYDROGEOLOGIC MONITORING : , NO,
GEOMECHANICAL FIELD TESTS [type,comments] :
, NO,
GEOMECHANICAL LAB TESTS [type,comments] :
, NO,
ROCK SAMPLE TESTS [type,comments] :
, NO,
HYDROCHEMICAL TESTS [type,comments] :
, hydraulic
LITHOLOGY [formation,description]:
, CEDAR MESA, light colored, quartz rich sandstone with calcareous sandstone and silty calcareous sandstone interbeds
, ELEPHANT CANYON, mixture of sandstone, siltstone and calcareous sandstone and sandy siltstone
, HONAKER TRAIL, limestone intermixed with calcareous sandstone and siltstone as well as sandy dolomite limestone and some cherty limestone
, PARADOX, halite with interbeds of anhydrite, silty anhydrite, and siltstone
, PINKERTON TRAIL, mixture of dolomitic siltstone, silty limestone, limestone and cherty limestone
INITIALIZATION [date,authorities,field numbers,source] :

830907, 2-72, 74-82, RN Helgerson/MJ Golis, NRC, (1)
830907, 73, 83, RN Helgerson/MJ Golis, NRC, (2)
SOURCES:
, (1) Woodward Clyde Consultants, 1982. Completion Report for Elk Ridge No.2 Borehole, ONWI-401
, (2) Thackston, J. W., 1983. Results of Hydraulic Tests at Gibson Dome No. 1, Elk Ridge No. 1 , and E. J. Kubat Boreholes, Woodward-Clyde Consultants, ONWI-491

ITEM 131

ACCESSION NUMBER :20
RECORD TYPE :borehole summary
WELL ID :, Gibson Dome #1
BASIN,SUBBASIN :, Paradox, Gibson Dome
COUNTY,STATE :, San Juan, UT
LATITUDE :, 37-17 deg-min
LONGITUDE :, 102-42 deg-min
SECTION,BLOCK :, Sec 21, T30S R21E
DRILLING COMPLETION DATE :, 810220 (yymmdd)
BOREHOLE STATUS :, capped
GROUND LEVEL ELEVATION :, 1503.3, (4932) meters(feet)
KELLY BUSHING ELEVATION :, 1508.5, (4949) meters(feet) above msl
TOTAL DEPTH OF BOREHOLE :, 1945.9, (6384) meters(feet)
DRILLING TECHNIQUE :, mud rotary, air rotary
DRILLING FLUID PROGRAM :, fresh water mud from surface to 125 meters; air and air foam from 125 to 944 meters; calcium chloride brine from 944 to 1686 meters; x-c polymer drilling fluid from 1686 to 1946 meters.
DRILLING PROGRAM [bit,dia.-cm(in),interval-m(ft),comments] :
, NR, NR, (17-1/2), 0.0, 759.6, (0-2492)
, NR, NR, (12-1/4), 759.6, 1673.1, (2492-5489)
, NR, NR, (8-3/4), 1673.1, 1945.9, (5489-6384)
CASING SUMMARY [diameter in cm(in),depth in m(ft),comments]:
, 34.0, (13-3/8), 759.6, (2492)
, 24.4, (9-5/8), 1673.1, (5489)
, 14.0, (5-1/2), 1945.9, (6384)
LITHOLOGIC LOGS :, YES, field boring log, lithologic summary log
GEOPHYSICAL LOGS :, YES, acoustic, induction, focused, temperature, variable density, density, neutron, gamma ray, caliper, SP, dipmeter, directional survey, fracture id, continuous flowmeter, fluid travel, collar log, spectral gamma, Saraband, Geogram
CORE LOGS :, YES, field boring log, photographs
MUD LOGS :, YES, total gas analyzer, gas chromatograph, H2S detector, pit volume totalizer
FORMATIONS PENETRATED [interval in meters(ft)] :
, CUTLER, 0.0, 164.6, (0-540)
, CEDAR MESA, 164.6, 207.0, (540-679)
*, ELEPHANT CANYON, 207.0, 377.7, (679-1239)
, HONAKER TRAIL, 377.7, 798.0, (1239-2618)
, PARADOX, 798.0, 1678.6, (2618-5507)
, PINKERTON TRAIL, 1678.6, 1741.6, (5507-5714)
, MOLAS, 1741.6, 1786.5, (5714-5861)
, LEADVILLE LIMESTONE, 1786.5, 1929.7, (5861-6331)
, OURAY LIMESTONE, 1929.7, 1945.9, (6331-6384)
CORES [diameter in cm(in), interval in meters(ft),comments]:

, 10.2, (4), 125.0, 1945.9, (410-6384)
SAMPLING PROGRAM [type, interval in meters(ft),comments] :
, water samples, 128.3, 1897.4, (421-6225)
, tracer analysis, NR
FORMATION TESTS [type,num.,interval in meters(ft),comments]:
, drill stem, 1, 164.6, 207.0, (540-679)
, drill stem, 2, 207.0, 377.7, (679-1239)
, drill stem, 4, 377.7, 798.0, (1239-2618)
, drill stem, 7, 798.0, 1678.6, (2618-5507)
, drill stem, 3, 1786.5, 1929.7, (5861-6331)
, slug, NR, NR, NR, NR
, production, NR, NR, NR, NR
HYDROGEOLOGIC MONITORING :, YES, during time frame of testing. No post testing monitoring.
GEOMECHANICAL FIELD TESTS [type,comments] :
, unloading tests, 3 successful at 1458-1507 meters, 1090-1120 meters, and 963 and 1020 meters
, hydraulic fracturing tests, 5 were successful at 954-958, 1091-1122, 1271-1275, 1343-1397, and 1475-1479 meters
GEOMECHANICAL LAB TESTS [type,comments] :
, index,
, strength,
, thermal,
ROCK SAMPLE TESTS [type,comments] :
, mineralogic analysis,
HYDROCHEMICAL TESTS [type,comments] :
, hydraulic
, water samples,
, major constituents,
, minor
, gas analysis
constituents,
, isotopic analysis,
LITHOLOGY [formation,description]:
, CUTLER, medium to light-red arkosic sandstone interbedded with light red silty sandstone
, CEDAR MESA, pale red to grayish-red arkosic sandstone with a few thin, silty arkosic sandstone interbeds
, ELEPHANT CANYON, grayish-red siltstone, interbedded with sandy siltstone and silty limestone, and pink to red limestone
, HUNAKER TRAIL, interbeds of calcerous sandstone, siltstone, mudstone, and shale with silty limestone, dolomitic siltstone and gray limestone
, PARADOX, halite interbedded with dolomitic and argillaceous siltstone,annydrite, and with some dolomite, limestone, and clay stone
, PINKERTON TRAIL, limestone and shale interbedded with annydrite, siltstone and dolomite
, MOLAS, limestone interbedded with shale and dolomite with local thin beds of siltstone, sandstone, and mudstone
, LEADVILLE, limestone and dolomite with minor chert
, OURAY, limestone
INITIALIZATION [date,authorities,field numbers,source] :
830827, RN Helgerson, MJ Gollis, BJM, 2-80, (1)
830827, RN Helgerson, MJ Gollis, BJM, 81, (2) (3) (4)
SOURCES:
, (1) Woodward Clyde Consultants, 1982, Well Completion Report for Gibson Dome #1 Borehole, ONWI-388
, (2) Pfeifle, T.W. et al, 1983, Constitutive Properties of Salt from Four Sites, ONWI-314, RE/SPEC Inc
, (3) Nelson, R.A. et al, 1982, Insitu and Laboratory Geotechnical Test Results from Borehole GD-1 in Southeast Utah, ONWI-400, Woodward Clyde Consultants

, (4) Thackston J. W., 1983, Results of Hydraulic Tests at Gibson Dome No. 1, Elk Ridge No. 1, and E. J. Kubat Boreholes, Woodward-Clyde Consultants, ONWI-491

THIS LIST OF PRINTS IS BASED ON:

	ITEMS	LINE	REQUEST
*	131	1/	TYPE=BOREHOLE SUMMARY
*	131	2/	TYPE=BOREHOLE SUMMARY SORT=COSTA(1,3),WELLID(1,2)

PLEASE MAIL THIS PRINTOUT TO:

BJM 11-10-5

ORDER NUMBER 831202-162358-HDB66 -001 (1 PRINTS).

IVE
OMPT

PE Record Type _____

LLID Well I.D. , _____

SIN 1 Basin , _____ (major) , _____ (minor)

STA 2 County/State , _____ (county) , ☐☐ (state)

TIT 3 Latitude , _____ - _____ (degrees / minutes)

NGIT 4 Longitude , _____ - _____ (degrees / minutes)

CBLK 5 Section/Block , Sec _____ , _____

DT 5 Drilling Completion Date , ☐☐☐☐☐☐ (Y Y M M D D)

RSTAT 6 Borehole Status , _____

ELEV 7 Ground Level Elev. , _____ (meters) , (_____) (feet)

ELEV 9 Kelly Bushing Elev. , _____ (meters) , (_____) (feet)

TDEP 0 Total Depth of Borehole , _____ (meters) , (_____) (feet)

ILTEC 1 Drilling Technique , _____ ; _____ ;

UDPROG 2 Drilling Fluid Program , _____

_____

_____

ILPROG 3 Drilling Program

	Bit Name	Bit Diameter cm	Bit Diameter inches	Interval Top in Meters	Interval Bottom in Meters	Interval Top-Bottom in Feet
,	_____	, _____	, ( )	, _____	, _____	, (-)
comments	, _____ ;					
,	_____	, _____	, ( )	, _____	, _____	, (-)
comments	, _____ ;					
,	_____	, _____	, ( )	, _____	, _____	, (-)
comments	, _____ ;					

9-14-83

SUM
4 **Casing Summary**

Casing Size cm (inches) , Depth meters (feet)

, _____ , ( ), _____ , ( )

omments , _____;

, _____ , ( ), _____ , ( )

omments , _____;

, _____ , ( ), _____ , ( )

omments , _____;

, _____ , ( ), _____ , ( )

omments , _____;

THLOG
0 **Lithologic Logs Taken , ☐ YES,☐ NO,☐ NR,**

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

OPLOG **Geophysical Logs Taken , ☐ YES,☐ NO,☐ NR,**
1

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

IRLOG **Core Logs Taken , ☐ YES,☐ NO,☐ NR,**
2

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

JDLOG **Mud Logs Taken , ☐ YES,☐ NO,☐ NR,**
3

_____ , _____ ,

_____ , _____ ,

_____ , _____ ,

FORMPEN 0 Formations Penetrated

Name of Formation (All Caps)	Interval Top in Meters	Bottom in Meters	Top-Bottom in Feet
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);
, _____	,	,	, (-);

CORES 1 Core

Core Diameter cm	Core Diameter inches	Interval Top in Meters	Bottom in Meters	Top-Bottom in Feet
, _____	, ( ),	,	,	, (-)
comments , _____				;
, _____	, ( ),	,	,	, ( )
comments , _____				;
, _____	, ( ),	,	,	, ( )
comments , _____				;
, _____	, ( ),	,	,	, ( )
comments , _____				;
, _____	, ( ),	,	,	, ( )
comments , _____				;

WPROG
2 **Sampling Program**

Test	Interval Top in Meters	Bottom in Meters	Top-Bottom in Feet
, _____	,	,	, (-)
omments , _____			;
, _____	,	,	, (-)
omments , _____			;
, _____	,	,	, (-)
omments , _____			;
, _____	,	,	, (-)
omments , _____			;
, _____	,	,	, (-)
omments , _____			;

RMTST
3 **Formation Test**

Test Name	No. of Tests	Interval Top in Meters	Bottom in Meters	Top-Bottom in Feet
_____ ,	,	,	,	(-)
omments , _____				;
_____ ,	,	,	,	(-)
omments , _____				;
_____ ,	,	,	,	(-)
omments , _____				;
_____ ,	,	,	,	(-)
omments , _____				;

)NIT
74 **Hydrogeologic Monitoring** , ☐ YES, ☐ NO, ☐ NR,

_____

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MFT
30 **Geomechanical Field Tests**

Test Name	Comments
, _____ ,	;
, _____ ,	;
, _____ ,	;
, _____ ,	;
, _____ ,	;

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Geomechanical Lab Tests

Test Name, Comments

, , ;
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RST
2

Geochemical Rock Sample Tests

Test Name, Comments

, , ;
, , ;
, , ;
, , ;
, , ;

HCT
3

Geochemical Hydrochemical Tests

Test Name, Comments

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TH
9

Lithology

Formation (All Caps), Lithology Description

, , ;
, , ;
, , ;

TH

Lithology

Formation (All Caps) | Lithology Description

, _____ , _____
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, _____ , _____
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ITINFO
995

Initialization Information

☐☐☐☐☐☐, _____,
Y Y M M D D Database Fields

_____/_____, _____, _____;
Technical Authority (First Initials, Last Name) | Input Authority (Initials) | Source

☐☐☐☐☐☐, _____,
Y Y M M D D Database Fields

_____/_____, _____, _____;
Technical Authority (First Initials, Last Name) | Input Authority (Initials) | Source

☐☐☐☐☐☐, _____,
Y Y M M D D Database Fields

_____/_____, _____, _____;
Technical Authority (First Initials, Last Name) | Input Authority (Initials) | Source

RCE
98

Sources (references)

Refer to BPMD Technical Report Format Guide for correct format.

, (1)_____;

, (2)_____;

, (3)_____;

, (4)_____;

, (5)_____;