

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT

TECHNICAL DATA CATALOG (QUARTERLY SUPPLEMENT)



407210115 940708 DR WASTE M-11 PDR

DECEMBER 31, 1993

UNITED STATES DEPARTMENT OF ENERGY

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INTRODUCTION

The March 21, 1993, Department of Energy (DOE)/Nuclear Regulatory Commission (NRC) Site-Specific Procedural Agreement for Geologic Repository Site Investigation and Characterization Program requires the DOE to develop and maintain a catalog of data which will be updated and provided to the NRC at least quarterly. This catalog is to include a description of the data; the time (date), place, and method of acquisition; and where it may be examined. The Yucca Mountain Site Characterization Project (YMP) Technical Data Catalog is published and distributed in accordance with the requirements of the Site-Specific Agreement.

The YMP Technical Data Catalog is a report based on reference information contained in the YMP Automated Technical Data Tracking System (ATDT). The reference information is provided by Participants for data acquired or developed in support of the YMP. The Technical Data Catalog is updated quarterly and published in the month following the end of each quarter. A complete revision to the Catalog is published at the end of each fiscal year. Supplements to the end-of-year edition are published each quarter. These supplements provide information related to new data items not included in previous quarterly updates and data items affected by changes to previously published reference information. The Technical Data Catalog, dated September 30, 1993, should be retained as the baseline document for the supplements until the end-of-year revision is published and distributed in October 1994.

Requests for technical data referenced in the Data Catalog must be submitted in writing to the YMP Project Manager, Robert M. Nelson, Jr., at the following address:

> U.S. Department of Energy Yucca Mountain Site Characterization Project Office P.O. Box 98608 Las Vegas, NV 89193-8608

Requests should reference the Data Tracking Number (DTN) used to identify each data item included in the Data Catalog and should include the following information: the requester's name, organization, address, and telephone number; the scope of the data requested; a description of the intended use of the data; and any special format preferences. In response to specific requests, the YMP will provide the solicited technical data or information regarding where the data may be examined.

The information contained in the Technical Data Catalog is organized by the governing plan under which the referenced technical data were acquired or developed. The applicable governing plans are identified in the Table of Contents. Site Characterization Program Baseline (SCPB) data items referenced in the Catalog are further grouped by SCPB Activity Number.

The Technical Data Catalog format includes the following information for each referenced data item:

- (1) <u>Data Tracking Number</u> Unique identifier for the referenced data item.
- (2) <u>Data Title/Description</u> A brief description of the referenced data item.
- (3) <u>Acquisition/Development Period</u> The date or range of dates during which the referenced data item was acquired or developed.
- (4) <u>Acquisition/Development Location</u> The field or laboratory location where the referenced data item was acquired or developed.

(NOTE: Locations are identified by unique names/identifiers or coordinates. Locations identified by coordinates may be expressed in geographic, Nevada state plane, or Universal Transverse Mercator (UTM). Nevada state plane coordinates are indicated by an "(N)" at the end of each coordinate; UTM coordinates are indicated by a "(U)".)

- (5) <u>Acquisition/Development Method</u> A brief description of the method used and/or the procedure followed to acquire or develop the referenced data item.
- (6) <u>Data Type</u> An "A" for acquired data or a "D" for developed data.
- (7) <u>Oualified</u> A "Y" for Yes or an "N" for No indicating whether or not the referenced data item was acquired or developed in accordance with an NRC accepted quality assurance program or qualified in accordance with appropriate YMP procedures.

(NOTE: Developed data items derived from other data sources are not classified as "Qualified" unless the data sources are also qualified.) (8) <u>Data Location</u> - A "P" indicates that the data reside in, and may be examined only at, a Participant Data Archive. A "T" indicates that the data are in the Technical Data Base (TDB) and may be examined there or at the Central Records Facility (CRF). A "C" indicates that the data are in, and may be examined at, the CRF.

New data items, which were not included in a previous quarterly edition of the Technical Data Catalog, are identified by an asterisk (*) preceding the DTN. Changes to reference information published in a previous edition of the Catalog are identified by a double asterisk (**) preceding the DTN for each affected data item.

Appendix A of this document lists the activity numbers and titles of all SCPB related data items referenced in the Catalog. Appendix B outlines the types of data that are available in the Geologic and Engineering Materials Bibliography of Chemical Species (GEMBOCHS) component of the TDB. Appendix C identifies additions or modifications that were incorporated into the GEMBOCHS data base during the current quarter. Appendix D identifies additions or modifications that were incorporated into the Geographic Nodal Information Study and Evaluation System (GENISES) data base during the current quarter.

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				I	Q U L A O L C	
ENVIRONMENTAL MONITORING AND MITIGATION PLAN						
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD		e o D N 	
**GS920300012548.001	DATA ON GROUND-WATER LEVELS AND SPRING FLOWS, INCLUDING WELL DEPTHS, CASING INFORMATION, DISCHARGE MEASUREMENTS, WELL AND SPRING LOCATIONS.	02/01/90-05/09/91	DATA WERE COLLECTED USING STANDARD USGS PRACTICES.	¥ I	NP	
	ACON/DEVL LOCATION : 36 00'00"N 117 00'00	W ;37 00'00"N 116 0	0' 00"W			
**GS920500012548.002	DATA ON GROUND-WATER LEVELS AND SPRINGFLOWS, INCLUDING WELL DEPTHS, CASING INFORMATION, DISCHARGE MEASUREMENTS, AND WELL AND SPRING LOCATIONS.	05/10/91-12/31/91	DATA WERE COLLECTED USING HP-54, HP-61, HP-99, AND HP-166.	A I	NP	
	ACQN/DEVL LOCATION : 36 00'00"N 117 00'00"	W ;37 00'00"N 116 0	0' 00"W			
**GS920500012548.003	QUARTERLY DATA COLLECTED FOR FIRST QUARTER OF 1992 FOR REPORT "DATA ON GROUND-WATER LEVELS AND SPRINGFLOWS IN THE YUCCA MOUNTAIN REGION OF SOUTHERN NEVADA AND CALIFORNIA, JANUARY - MARCH 1992.	03/21/92-04/30/92	USGS STANDARD METHODS	DI	NP	
	ACON/DEVL LOCATION : USGS WRD, LAS VEGAS		•			
**G5920600012548.004	RAW DATA ON WATER-LEVEL MEASUREMENTS, QW And Spring Discharges for January Thru March 1992.	01/01/92-03/31/92	DATA WERE COLLECTED USING HP-54, RO, WATER-FLOW MEASUREMENTS USING WEIRS, FLUMES, AND BARRELS; HP-61, RO, USE OF HAND-HELD STEEL TAPES (IN VERTICAL BOREHOLES); HP-99, R1, INSTRUCTION FOR OPERATION OF A WELL SOUNDER FOR MEASURING WATER LEVELS; AND HP-166, RO, STREAM DISCHARGE MEASUREMENTS USING A PYGMY METER.	Ał	N P	
	ACQN/DEVL LOCATION : 36 00'N 117 00'W ;37	00'N 116 00'W				

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	ENVIRONMENTAL MONITO	RING AND MITIGATION	I PLAN	T Q D U L I A O F L C I A T F T Y I I P E O
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	EDN
*G5931000121347.006	QUARTERLY DATA REPORT ON PRELIMINARY DATA OF GROUND-WATER LEVELS AND SPRING FLOWS IN THE YUCCA MOUNTAIN REGION FOR THE PERIOD JULY THROUGH SEPTEMBER, 1993 DATA COLLECTED IN COOPERATION WITH THE U.S. DEPT. OF ENERGY AND USGS WATER-RESOURCES MONITORING PROGRAM	07/01/93-10/21/93	FIELD DATA COLLECTED BETWEEN 7/1/93 TO 9/30/93 ACCORDING TO HP-26,R1, METHOD FOR CALIBRATING WATER-LEVEL MEASUREMENT EQUIPMENT USING THE REFERENCE STEEL TAPE; HP-54,R1, WATER-FLOW MEASUREMENTS USING 9 DEGREE V-NOTCH WEIRS, FLUMES AND BARRELS, HP-61,R0, USE OF HAND-HELD STEEL TAPES (I VERTICAL BOREHOLES); HP-99,R1, INSTRUCTIO FOR OPERATION OF A WELL SOUNDER FOR MEASURING WATER LEVELS; AND HP-166,R1, STREAM DISCHARGE MEASUREMENTS USING A PYGMY CURRENT METER	0
	ACQN/DEVL LOCATION : 36 17'24"N 116 32'42" 36 18'17"N 116 24'47" 36 19'54"N 116 18'12" 36 20'14"N 116 13'39" 36 22'29"N 116 16'25" 36 22'30"N 116 39'29" 36 22'30"N 116 39'29" 36 24'11"N 116 16'33" 36 24'32"N 116 16'57" 36 25'25"N 116 19'27" 36 25'25"N 116 17'17" 36 25'25"N 116 27'43" 36 25'25"N 116 27'43" 36 25'55"N 116 20'53" 36 27'55"N 116 19'04" 36 28'48"N 116 20'53" 36 28'48"N 116 19'53" 36 29'20"N 116 19'53" 36 29'20"N 116 08'57" 36 30'09"N 116 30'27"			
· · · · · · · · · · · · · · · · · · ·	36 32' 13"N 116 13' 38" 36 33' 10"N 116 29' 40" 36 34' 28"N 116 23' 47" 36 34' 28"N 116 23' 47" 36 34' 28"N 116 24' 03" 36 34' 56"N 116 35' 25" 36 35' 30"N 116 02' 14" 36 38' 15"N 116 17' 59" 36 38' 25"N 116 24' 33" 36 38' 35"N 116 23' 40" 1		<pre>interiment interiment interime interiment interiment interim interiment interiment interim interiment interiment int</pre>	

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	ENVIRONMENTAL MONITO	RING AND MITIGATION	PLAN	T I Y	I A F T I I	
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD		eo DN 	
	36 41'30"N 116 41'12" 36 45'28"N 116 23'22" 36 54'45"N 116 38'39" J-11 J-12 J-13 UE-25 WT #13 UE-25 WT #15 UE-25P #1 USW VH-1	W W				
*GS931100121347.007	SELECTED GROUND-WATER DATA FOR YUCCA MOUNTAIN REGION, SOUTHERN NEVADA AND EASTERN CALIFORNIA, THROUGH DECEMBER 1992, BY R.J. LACAMERA AND C.L. WESTENBURG.	06/01/93-09/30/93	DATA WAS CHECKED FOR ACCURACY AND REASONABLENESS AND DEVELOPED ACCORDING TO STANDARD USGS PROCEDURE.		NP	

ACQN/DEVL LOCATION : USGS-WRD, LAS VEGAS, NV

METEOROLOGICAL MONITORING PLAN				T Q D U L I A O F L C I A T F T Y I I
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	PEO EDN
*TM00000000001.044	AMBIENT AIR MONITORING REPORT, APRIL - JUNE 1993 ACQN/DEVL LOCATION : YUCCA MOUNTAIN SITE	AREA	REFORMATTING OF DATA ACQUIRED BY DATALOGGERS	
*TM00000000001.045	AMBIENT AIR MONITORING DATA, JANUARY - JUNE 1993 ACQN/DEVL LOCATION : YUCCA MOUNTAIN SITE	01/01/93-06/30/93	DATA ACQUIRED BY DATALOGGERS	AYP
*TM00000000001.046	AMBIENT AIR MONITORING DATA, JULY - September 1993	07/01/93-09/30/93	DATA ACQUIRED BY DATALOGGERS	АУР
	ACON/DEVL LOCATION : YUCCA MOUNTAIN SITE	AREA		а. ¹ .
*TM00000000001.047	AMBIENT AIR MONITORING REPORT, JULY - September 1993	07/01/93-09/30/93	REFORMATTING OF DATA ACQUIRED BY DATALOGGERS.	DYP
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	SITE CHARACTERI	ZATION PLAN BASELIN	IR.	FI	L C I A		
SITE CHARACTERIZATION PLAN BASELINE							
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD	YI PE ED	ĒŌ		
Activity - 8.3.1.2.	1.2.1						
*GS921108312121.001	SURFACE WATER DISCHARGE DATA INCLUDING COPIES OF RECORDER CHAPTS AND PRECIPITATION DATA COLLECTED DURING THE	10/01/91-09/30/92	THESE DATA WERE COLLECTED UNDER HP#'S HP-43, R14R2, INSTALL., OPER., & INSPECT OF TWO TYPES OF NON-RECORDING RAIN GAGES,	A Y	(P		

-54,RUGRI, WATER-FLOW MEAS USING 90 DEG V-NOTCH WEIRS, FLUMES, & BARRELS, HP-91, R3, COLLECT & FIELD ANALY OF SURFACE-WATER SAMPLES, HP-100, RO, R1, STREAM DISCHARGE MEAS USING A TYPE-AA PRICE CURRENT METER. HP-114, ROAR1, EST OF STREAMFLOW DISCHARGE, HP-115, R1, DETER OF PEAK STREAMFLOW DISCHARGE USING CULVERTS, HP-116, RO&R1, METHOD TO INSTALL, OPER, & EXAMINE A REC-STREAMFLOW GAGE THAT USES A STILL-WELL SYSTEM (WITH A CONT GRAPHIC RECORDER), HP-117, ROGRI, INSTALL, INSPECT & MAINT OF SCOUR CHAINS AT STREAMFLOW GAGING SITES, HP-166, ROGR1, STREAM DISCHARGE MEAS USING A PYGMY CURRENT METER, HP169, R1, DETER OF PEAK STREAMFLOW DISCHARGE BY THE SLOPE-AREA METHOD, & HP-219, RO, METHOD TO INSTALL, OPER & EXAM A RECORDING STREAMFLOW GAGE USING THE FLUID DATA G-II MANOMETÉR SYSTEM.

ACON/DEVL LOCATION : 34 50'55"N 117 00'00"W 37 30'00"N 116 13'45"W

VICINITY, NYE COUNTY, NV, AND INYO

COUNTY CA.

*GS930908312121.005 STREAMFLOW AND SELECTED PRECIPITATION 11/01/92-08/27/93 ACQUIRED DATA DATA FOR YUCCA MOUNTAIN AND VICINITY, FILE REPORT US NYE COUNTY, NEVADA, WATER YEARS 1986-90, GUIDELINES. BY T.G. KANE, D.J. BAUER, AND C.M. MARTINEZ.

> ACQN/DEVL LOCATION : USGS, CARSON CITY, NV USGS, LAS VEGAS, NV

11/01/92-08/27/93 ACQUIRED DATA WERE COMPILED INTO AN OPEN D N P FILE REPORT USING GENERAL USGS REPORT GUIDELINES.

	SITE CHARACTERI	ZATION PLAN BASELIN	IB Marka Sala	DIFTYP	ALIFI
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	E	_
*G\$931108312121.006	SURFACE-WATER DISCHARGE DATA INCLUDING COPIES OF RECORDER CHARTS, DISCHARGE MEASUREMENT NOTES, LEVEL NOTES, PRECIPITATION AND WATER SAMPLE ANALYSIS FOR THE YUCCA MIN. AREA, SOUTHERN NEVADA AND SOUTHEASTERN CALIFORNIA, 1993 WATER YEAR.	10/01/92-09/30/93	USGS TWRI'S: BOOK 3: CH.A1, A2, A3, A4, A5, A8; BOOK 5: CH.A1; BOOK 8: CH.A2; AND USGS-WSP 2175. ALSO HP-40, R2, EST. PEAK-STREAMFLOW DISCHARGE BY SLOPE-CONVEYANCE; HP-43, R2, INSTAL., OPER.&INSPECT. 2 TYPES NON-RECORDING RAIN GAGES; HP-44, R3, INSTAL., OPER.&EXAM. CREST-STAGE STRMFLOW GAGES; HP-45, R3, INSTAL.OPER.&EXAM. RECORDING STRMFLOW GAGE USING BUBBLE-GAGE STACOM MANOMETER SYSTEM; HP-91, R3, COLLECT.& FIELD ANALY. SURFACE-WATER)	Y
	(a) An and the second s Second second s Second second s Second second second Second second sec		SAMPLES; HP-100, R1, STREAM DISCHG. MEAS. USING TYPE-AA PRICE CURRENT METER; HP-114,		
		• • • •	R1, EST. STRMFLOW DISCHG.; HP-115,R1, DETER. PEAR STRMFLOW DISCHG. USING		
a din ta di setter da at	(1) A set of the se		CULVERTS; HP-116, R14R2, INSTAL., OPER.4EXAM. RECORDING STRMFLOW GAGE THAT		
		化二甲酸 计数据数据 医白癜白	USES STILLING-WELL SYSTEM WITH CONT. GRAPHIC RECORDER; HP-117, R2, INSTAL.,	т <i>т</i> .	1
			INSPECT. AMAINT. SCOUR CHAINS AT STRMFLOW GAGING SITES; HP-166,R1, STREAM DISCHG.		
	注意 算算に対応して登録した。 注意 算算に対応していた。 注意 算算に対応した。 には、算算に対応した。 ので、 ので、 ので、 ので、 ので、 ので、 ので、 ので、 ので、 ので、		MEAS. USING PYGMY CURRENT METER; HP-169, R2, DETER. PEAK STRMFLOW DISCHG. BY SLOPE-AREA.		· ·
	ACON/DEVL LOCATION : 34 49'13"N 116 23'52"	1997			,
	35 50'55"N 116 13'45" 36 11'48"N 116 22'06"	"W		• • • • •	٢.
	36 23'12"N 116 25'22" 36 26'09"N 116 04'28"	'W			, ,
	36 27'36"N 116 06'28" 36 33'40"N 116 06'00"	W			
	36 34'00"N 115 48'40"	'W			
(W)	36 37'35"N 116 08'31" 36 40'18"N 116 26'03"	W			
	36 41'08"N 116 08'52" 36 44'17"N 116 13'58	W Constant of American Strategy and American	and a second second Second second		
	36 46'06"N 116 19'23' 36 47'35"N 116 24'29'	.M.		1 H N	3
	36 48'27"N 116 05'41" 36 48'27"N 116 24'01"	'W			
	36 50'36"N 116 26'26" 36 50'57"N 116 27'07"	W States and the states of the			i.
				1.1.1.1.1	

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SITE CHARACTERIZATION PLAN BASELINE

DATA TRACKING NO.	TITLE/DESCRIPTION		ACON/DEVL PERIOD	ACQN/DEVL METHOD	PEO EDN
		36 51'06"N 116 25'44" 36 51'16"N 116 27'07" 36 51'39"N 116 26'08" 36 51'59"N 116 23'38" 36 52'06"N 116 45'04" 36 52'06"N 116 45'34" 36 53'13"N 116 22'50" 37 04'12"N 116 20'23" 37 04'19"N 116 20'50" 37 09'51"N 116 12'11" 37 10'57"N 116 15'19"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

Activity - 8.3.1.2.1.3.2

*GS930908312132.018 WATER LEVEL MEASUREMENTS IN WELLS OF AMARGOSA DESERT PERFORMED BETWEEN 3/22/92 £ 9/30/93. THE FOLLOWING LIST IDENTIFIES THE WELL, NUMBER OF MEASUREMENTS IN 1992, & NUMBER OF MEASUREMENTS IN 1993: GS-1,1,3; GS-3 STEEL, 0, 4; GS-3 PVC, 0, 5; GS-3 (FLP), 1, 0; GS-4,1,0; GS-5,1,0; GS-6,1,0; GS-7,1,0; GS-9,1,0; GS-10,1,0; GS-12,1,1; GS-13,1, 1; GS-14,1,1; GS-16,2,6; GS-17 PVC,2,6; GS-18,1,2; GS-20(FLP),0,1; AM-1 STEEL,1, 3; AM-1 PVC, 1, 2; AM-2 STEEL, 1, 4; AM-2 PVC.1.4; BJ,0,3; BT-4,1,1; N25 E5 15,3, 3; JC-5,1,0; LC-262 PVC,1,3; LC-262 STEEL, 1, 3; NA-2, 1, 1; NA-4 (BGWM-2), 0, 2; NA-6 STEEL, 0, 2; NA-6 PVC, 0, 3; NA-7 STEEL, 5, 4; NA-7 PVC, 5, 4; N-8, 0, 2; NA-9 STEEL, 1, 3; NA-9 PVC, 2, 5; NA-10 STEEL, 0, 8; NA-10 PVC, 0, 8; S-1 STEEL, 1, 4; S-1 PVC,1,5; S-2,1,0; ST-1 STEEL,0,16; ST-2 STEEL, 0, 14, ST-2 PVC, 0, 25; WELL FL, 0, 8; WELL #5,0,2; WELL-13,1,0; CINDER LAKE B, 0,1.

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03/22/92-09/30/93 HP-99,R1, INSTRUCTION FOR OPERATION OF A A Y P WELL SOUNDER FOR MEASURING WATER LEVELS.

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ACON/DEVL LOCATION : 36 00'00"N 117 00'00"W :37 00'00"N 116 00'00"W

	SITE CHARACTERI	ZATION PLAN BASELIN	E	TQ DUL IAO FLC IA TFT YII
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	PEO EDN
*GS931008312132.003	HYDROCHEMICAL DATA OF SAMPLES COLLECTED FROM SMALL DIAMETER WELLS	04/15/92-09/29/93	STANDARD NWOL METHODS AND HP-23, R2, COLLECTION AND FIELD ANALYSIS OF GROUND-WATER SAMPLES FROM SATURATED ZONE.	AYP
	ACQN/DEVL LOCATION : USGS NWQL, DENVER, CO	•		
*G5931008312132.004	GROUND-WATER ALTITUDES AND WELL DATA, NYE COUNTY, NEVADA, AND INYO COUNTY,	02/10/91-12/15/92	COMPILATION PRIMARILY FROM USGS NATIONAL WATER INFORMATION SYSTEM (NWIS) AND FROM OTHER PUBLISHED PAPERS.	DNP
	ACON/DEVL LOCATION : USGS, DENVER, CO			
*GS931108312132.019	SPREADSHEETS OF HYDROCHEMICAL ANALYSES, BY JOHN B. CZARNECKI: DATA FROM WELLS USW UZ-14 AND NA-7, NEVADA.	08/21/93-11/15/93	PH AND SPECIFIC CONDUCTANCE DATA COMPILED, FORMATTED AS SPREADSHEET AND PRESENTED AS POSTER.	DYP
Activity - 8.3.1.2.	ACON/DEVL LOCATION : USGS, DENVER, CO			
*GS931208312133.002	DEPTH-TO-WATER DATA FOR UE-29A #1 AND #2	10/01/91-09/30/92	그는 것 같은 사람이 있는 것 같은 것 같	ĂŸP
n 1 1 - Angel State (1997) 1 - Angel State (1	ACQN/DEVL LOCATION : UE-29 UZN-91 UE-29A #1 UE-29A #2	وهوالا فروحا المراجع	(1) Some and the second secon second second sec	
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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD		EODN
*GS931208312133.003	DEPTH-TO-WATER DATA FOR UE-29A #1 AND #2 And UE-29 U2N #91 Collected in Water Year 1993	10/01/92-09/30/93	DATA COLLECTED ACCORDING TO HP-99,R1, INSTRUCTION FOR OPERATION OF A WELL SOUNDER FOR MEASURING WATER LEVELS, AND HP-61,R0, USE OF HAND-HELD STEEL TAPES (IN VERTICAL BOREHOLES).	A :	ΥP
	ACQN/DEVL LOCATION : UE-29 UZN #91 UE-29A #1 UE-29A #2				
Activity - 8.3.1.2.	2.3.1				
*GS930808312231.005	SPATIAL VARIABILITY IN HYDROLOGIC PROPERTIES OF A VOLCANIC TUFF, BY J.D. ISTOK, C.A. RAUTMAN, L.E. FLINT, AND A.L. FLINT.	09/01/92-12/01/92	STANDARD LAB DATA (POROSITY, BULK DENSITY, PARTICLE DENSITY, SATURATED HYDRAULIC CONDUCTIVITY AND SORPTIVITY) WERE USED WITH STANDARD STATISTICAL AND GEOSTATISTICAL METHODS TO EVALUATE SPATIAL VARIABILITY AND CORRELATIONS OF PROPERTIES TO OBSERVED LITHOLOGY.	DI	Ŋ ₽
	ACON/DEVL LOCATION : HYDROLOGIC RESEARCH F	ACILITY, AREA 25, M	ERCURY, NV		
Activity - 8.3.1.2.	2.7.1				

*GS930908312271.022 TRACER INJECTION DATA FROM UE-25 UZ#16, 05/27/92-03/29/93 DATA WERE COLLECTED IN ACCORDANCE WITH AYP UE-25 NRG#1, UE-25 NRG#3, UE-25 NRG#2, METHODS DESCRIBED IN HP-07, R1 4R1-M1, USE OF A TRACE GAS FOR DETERMINING ATMOSPHERIC USW NRG-6, AND CORE SEALING DATA FROM CONTAMINATION IN A DRY-DRILLED BOREHOLE; UE-25 UZ#16, UE-25 NRG#1, AND USW NRG-6. HP-160, R1 & R1-M1, METHODS FOR ANALYSIS OF SAMPLES FOR GAS COMPOSITION BY GAS CHROMOTOGRAPHY; HP-237T, R0, (SN-0030), METHODS FOR SEALING UNSATURATED ZONE BOREHOLE CORE SAMPLES TO PRESERVE MOISTURE CONTENT; AND HP-238T, RO, (SN-0031), INJECTION OF A TRACE GAS FOR DETERMINING ATMOSPHERIC CONTAMINATION IN A DRY-DRILLED

BOREHOLE.

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ACQN/DEVL LOCATION : UE-25 NRG#1 UE-25 NRG#2 UE-25 NRG#3 UE-25 NRG#3 UE-25 UZ#16

TO DUL IAO F 1. C SITE CHARACTERIZATION PLAN BASELINE IA ፐዮፐ YII PEO DATA TRACKING NO. TITLE/DESCRIPTION ACON/DEVL PERIOD ACON/DEVL METHOD EDN _____ USW NRG-6 Activity - 8.3.1.2.2.9.1 *GS930908312291.005 ESTIMATION OF UNSATURATED ZONE LIQUID 09/01/92-05/30/93 ESTIMATES WERE MADE OF LIQUID FLUX AT 4 DNP WATER FLUX AT BOREHOLES UE-25 UZ#4. BOREHOLE LOCATIONS USING MEASURED WATER UE-25 UZ#5, USW UZ-7, AND USW UZ-13, POTENTIALS AND CONSTRUCTED SATURATION YUCCA MOUNTAIN, NEVADA, FROM SATURATION PROFILES AND ESTIMATES OF EFFECTIVE AND WATER POTENTIAL PROFILES BY EDWARD HYDRAULIC CONDUCTIVITY PROVIDED BY THE VAN M. KWICKLIS, ALAN L. FLINT, AND R.W. GENUCHTEN HYDRAULIC FUNCTIONS. SATURATION AND FLUX CALCULATIONS PERFORMED USING HEALY. LOTUS 1-2-3. and the second second ACON/DEVL LOCATION : USGS, DENVER, CO 12.20 Activity - 8.3.1.2.3.1.2 **GS930208312312.004 1992 CONTINUOUS NETWORK TRANSDUCER AND 01/01/92-12/31/92 TRANSDUCER AND RELATED DATA COLLECTED AYP RELATED DATA. DATA IN THE FORM OF USING TRANSDUCERS/21X SYSTEMS OR LOGBOOKS, STRIPCHARTS, AND ELECTRONIC TRANSDUCER/DCP SYSTEMS. REFERENCE HP-196. DATA (AS STORED ON THE NWIS/ADAPS R1. METHOD FOR COLLECTING WATER LEVEL DATA USING DATA COLLECTION PLATFORMS; HP-60, R2 SYSTEM) . METHOD FOR MONITORING WATER LEVEL CHANGES USING PRESSURE TRANSDUCERS AND PRESSURE TRANSMITTERS; HP-71, RO, METHOD FOR MONITORING WATER-LEVEL CHANGES USING A CAMPBELL SCIENTIFIC 21X MICROLOGGER. 2.1 ACON/DEVL LOCATION : UE-25 WT #13 UE-25 WT #16 UE-25 WT #3 UE-25 WT #6 100 20 UE-258 #1 and the second secon UE-25P #1 USW G-3 USW H-1 USW E-3 USW H-4 USW H-5 USW H-6 USW WT-11 USW WT-2

DATA TRACKING NO.	SITE CHARACTE	RIZATION PLAN BASELIN ACQN/DEVL PERIOD		I F T Y P	QUALIFIED -	0 C A T I 0
*G\$931008312312.022	WATER-LEVEL DATA FROM THE PERIODIC NETWORK, 3RD QUARTER 1993 ONLY.	07/01/93-10/01/93	DATA COLLECTED ACCORDING TO HP-75,R1, Method for measuring water-levels in wells Using Reeled (2600 ft and 2800 ft) steel Tapes.	A	Y 1	₽
	ACQN/DEVL LOCATION : UE-25 WT #3 UE-25C #1 UE-25C #2 UE-25C #3 USW H-3 USW H-4 USW H-5 USW H-6 USW UZ-14 USW VH-1 USW WT-10 USW WT-2 USW WT-7	-				
*GS931008312312.023	RAW TRANSDUCER CALIBRATION DATA, WELLS UE-25P #1 AND UE-25 WT #13, 3RD QUARTER 1993 ONLY.	07/01/93-10/01/93	DATA COLLECTED ACCORDING TO HP-60,R3, METHOD FOR MONITORING WATER LEVEL CHANGES USING PRESSURE TRANSDUCERS AND PRESSURE TRANSMITTERS, AND HP-196,R1, METHOD FOR COLLECTING WATER LEVEL DATA USING DATA COLLECTION PLATFORMS.	A	Y 1	P
	NON / NEW TOCHTON . HE-25 MT #13					

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ACQN/DEVL LOCATION : UE-25 WT #13 , UE-25P #1

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SITE CHARACTERIZATION PLAN BASELINE

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	DATA TRACKING NO.	TITLE/DESCRIPTION		ACON/DEVL PERIOD	ACQN/DEVL METHOD	-	Ē	_
	*G8931008312312.024	DEVELOPED WATER LEVEL DATA CON WATER-LEVEL WORKSHEETS AND CAN REGRESSIONS FOR DATA COLLECTED SELECTED WELLS IN THE YUCCA MO AREA, NEVADA. THIRD QUARTER (LIBRATION D AT OUNTAIN	10/01/93-10/07/93	WATER LEVEL DATA DEVELOPED USING STANDARD STATISTICAL TECHNIQUES.) D	Y	P
		ACQN/DEVL LOCATION : USGS, DE	NVER, CO	•				
	*G8931108312312.026	SCIENTIFIC NOTEBOOK SN-0049, S CAPACITY TESTS AT WELL USW UZ- SCIENTIFIC NOTEBOOK CONTAINS I CHEMICAL ANALYSIS DATA AND WA	–14. The RAW TER—LEVEL		DATA COLLECTED ACCORDING TO THE PROCEDURE OUTLINED IN THE SCIENTIFIC NOTEBOOK: SN-0049,R0, SPECIFIC CAPACITY TESTS AT WELL UZ-14.	IS A	¥	P
		DATA. ACQN/DEVL LOCATION : USW C2-14	and a stand of the	$(x_1, \dots, x_{n-1}) \in \mathbb{R}^n$				
·	na na serie da serie No serie da s	ACON/DEVL LOCATION : USW CZ-14	a State	· · · · · · · · · · · · · · · · · · ·	(1) Services and the service of t			
	Activity - 8.3.1.2.	the second se						
	*GS930908312323.003	HYDROCHEMICAL DATA FROM ANALYS WATER SAMPLES COLLECTED AT FIL STATIONS: J-13/20, J-13/40,	ELD	12/17/91-08/25/93	STANDARD USGS NWOL PROCEDURE	A	Y	P
	e altra destructiones Altra destructiones Altra destructiones	ARMY1/4.7. ARMY1/5.5. J-12/20.	, J-12/40, B/19/92, 1, JF-3, N SPRING	na tha an tha			. 5	
		STAININGER SPRING, VIRGIN SPR 3/17/93, SARATOGA SPRING, GRAN	ing Pevine		(1) A second state of the second state of t			
	n de Arbeinsen af Stats Domonie arbeins	ACQN/DEVL LOCATION : USGS NWQ	L, DENVER, CO) a set official second to	n an sy sin den seen an transmission and an			
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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	EDN	
Activity - 8.3.1.2.	3.3.1				
*G8921108312331.001	REVISED PRELIMINARY POTENTIOMETRIC Surface map of Yucca Mountain and Vicinity, Nevada, by E.M. Ervin, R.R. Luckey & D.J. Burkhardt	09/01/91-08/31/92	WATER-LEVEL DATA WERE ANALYZED TO DETERMINE POSSIBLE TRENDS IN THE POTENTIOMETRIC SURFACE. MAP WAS PLOTTED FROM WATER LEVEL DATA AND TREND ANALYSIS.	DNP	•
	ACON/DEVL LOCATION : USGS, DENVER, CO				
*GS931008312331.001	SUMMARY OF REVISED POTENTIOMETRIC Surface Map, Yucca Mountain and Vicinity, Nevada, by E.M. Ervin, R.R. Luckey and D.J. Burkhardt	08/31/92-11/30/92	SUMMARY OF SOURCE DATA.	DNP	?
	ACON/DEVL LOCATION : USGS, DENVER, CO		ł		
Activity - 8.3.1.2.	3.3.2				
*GS930808312332.003	POROSITIES OF CORE SAMPLES FROM BULLFROG MEMBER FORMATION (EAST OF LITTLE SKULL MOUNTAIN)	07/22/93-07/27/93	HP-229,R1, DETERMINATION OF WATER CONTENT AND PHYSICAL PROPERTIES FOR LABORATORY ROCK SAMPLES	а у р	?
	ACQN/DEVL LOCATION : HRF, AREA 25, NTS				

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD		• E • D	
Activity - 8.3.1.3.	2.1.2	1				
*LA00000000071.001	CHEMISTRY OF DIAGENETICALLY ALTERED . TUFFS AT YUCCA MOUNTAIN	01/01/82-08/30/86	X-RAY FLUORESCENCE, ELECTRON MICROPROBE, And atomic absorption spectrophotometry	A	N	P
	ACON/DEVL LOCATION : LANL		a de la companya Referencia en la companya de la companya de la companya Referencia en la companya de la comp			
*LA000000000071.002	CHEMISTRY OF DIAGENETICALLY ALTERED TUFFS AT A POTENTIAL NUCLEAR WASTE REPOSITORY, YUCCA MOUNTAIN, NYE COUNTY, NEVADA	01/01/86-09/30/86		D) N :	P
$+e^{i t t^{1/2} t} = dt_{0} t^{1/2} e^{i t} e^{i t} = 0$	ACQN/DEVL LOCATION : LANL					
Activity - 8.3.1.3.	2.2.1	and the second second second	a service and the service of the ser			
**LA0000000023.002	MINERALOGY AND CLINOPTILOLITE K/AR RESULTS FROM YUCCA MOUNTAIN, NEVADA, USA; A POTENTIAL HIGH-LEVEL RADIOACTIVE WASTE REPOSITORY SITE		SECONDARY MINERALS SEPARATED BY SEDIMENTATION AND HEAVY LIQUIDS AND IDENTIFIED BY X-RAY DIFFRACTION AND SCANNING ELECTRON MICROSCOPY. POTASSIUM AND ARGON CONTENTS OF CLINOPTILOLITES DETERMINED BY FLAME PHOTOMETER AND MASS SPECTROMETER, RESPECTIVELY (TWS-EES-1-10-91-4). APPARENT AGES CALCULATED FROM POTASSIUM AND ARGON DATA.	Ъ.) Y	T
	ACON/DEVL LOCATION : CASE WESTERN RESERVE LANL	UNIVERSITY		; -	41	
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DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	E	D 1	N -
Activity - 8.3.1.3.	2.2.2					
**LA00000000017.002	DEHYDRATION AND REHYDRATION OF A TUFF VITROPHYRE	05/01/92-03/19/93	HEATING, WEIGHING, X-RAY DIFFRACTION THERMOGRAVIMETRIC ANALYSIS, FOURIER-TRANSFORM INFRARED SPECTROGRAPHY, MOISTURE-EVOLUTION AND ATOMIC ABSORPTION.	D	N	T
	ACQN/DEVL LOCATION : LANL					
*LA00000000060.001	THERMAL BEHAVIOR OF NATURAL ZEOLITES	11/01/92~06/30/93	A REVIEW OF THE LITERATURE ON THE STABILITY OF NATURAL ZEOLITES WAS MADE, AND RESULTS OBTAINED BY THE LANL YMP EFFORT WERE INCLUDED. THESE YMP RESULTS WERE EITHER PREVIOUSLY PUBLISHED OR ARE IN PREPARATION FOR PUBLICATION.		N	₽
	ACQN/DEVL LOCATION : LANL					
*LA00000000060.002	X-RAY POWDER DIFFRACTION DATA ON NATURAL Zeolites	07/01/86-01/30/90	X-RAY DIFFRACTION DATA	A	N	P
	ACQN/DEVL LOCATION : LANL					
*LA00000000068.001	ZEOLITE STABILITY CONSTRAINTS ON RADIOACTIVE WASTE ISOLATION IN ZEOLITE-BEARING VOLCANIC ROCKS	04/15/80-04/15/81	A REVIEW OF THE LITERATURE OF THE STABILITY OF ZEOLITES WAS MADE AND CONCLUSIONS WERE REACHED ON POSSIBLE CONSTRAINTS FOR RADIOACTIVE WASTE ISOLATION.	D	N 1	₽

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	PEO EDN
*LA00000000074.001	COMPOSITION ON THE THERMAL EXPANSION/CONTRACTION OF CLINOPTILOLITE	08/01/83-01/30/84	THE LATTICE PARAMETERS OF NATURAL AND CATION-EXCHANGED CLINOPTILOLITES WERE STUDIED AS A FUNCTION OF TEMPERATURE USING A HIGH-TEMPERATURE X-RAY POWDER DIFFRACTOMETER.	DNP G
		n den ser en		
Activity - 8.3.1.3	ACQN/DEVL LOCATION : LANL .5.1.1 How The second and the second		的话,就就说道:"你们的话,你是你 我们们们就是你们就能能做你了。"他们就是你们们的,我们也能能不是你。 我们们们们都能是你们的时候你的你?""你就是你们的你们,你们们们们们们。"	
**LA00000000053.001	ACTINIDE (IV) AND ACTINIDE (VI) CARBONATE SPECIATION STUDIES BY PAS AND NMR SPECTROSCOPIES.	07/09/90-01/07/93	PULSED-LASER PHOTOACOUSTIC SPECTROSCOPY (PAS) AND FOURIER-TRANSFORM NUCLEARMAGNETIC RESONANCE (NMR) SPECTROSCOPY HAVE BEEN EMPLOYED TO STUDY THE SPECIATION OF ACTINIDE (IV) AND (VI) IONS.	DYT
erarerougures friede	ACQN/DEVL LOCATION : LANL	A Third A C. Sweet States	TUNG. A SAME A SAME A SAME A SAME TA SAME A SA	
Activity - 8.3.1.3	.6.2.1		· · · · · · · · · · · · · · · · · · ·	1 1 5 3 -
**LA00000000034.002	DIFFUSION OF SORBING AND NON-SORBING RADIONUCLIDES.	11/25/91-03/25/92	DIFFUSION MEASUREMENTS IN ROCK BEAKERS.	DYT
	ACQN/DEVL LOCATION : LANL		3.1.1. Constraints of the second s	
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Activity - 8.3.1.4.	, 2 , 1 , 1					
**GS930708314211.040	BEDROCK GEOLOGIC MAP OF THE LONE MOUNTAIN PLUTON AREA, ESMERALDA COUNTY, NEVADA, BY FLORIAN MALDONADO.	01/01/83-01/01/84	MAP IS A COMPILATION OF FIELD DATA AND AERIAL PHOTO ANALYSIS INTEGRATED WITH PREVIOUSLY PUBLISHED DATA. CHARACTERIZATION OF MAJOR STRUCTURAL FEATURES INCLUDE HOMOGENEITY, JOINT FREQUENCY, JOINT AND BEDDING ATTITUDES, DIKE TRENDS, AND AEROMAGNETICS. FOLIATION DIRECTIONS, JOINT STRIKES, AND JOINT DIPS CHARACTERIZED BY MODAL ANALYSES AND ROSE DIAGRAMS.		N :	P
	ACON/DEVL LOCATION : USGS, DENVER, CO					
*GS931008314211.034	PRELIMINARY LITHOLOGY WELL REPORT FOR UE-25WT#14	02/01/84-04/23/88	ANALYSIS OF CORE DRILLED PRIOR TO FEBRUARY 1984. GEOPHYSICAL LOGS WERE MADE FROM SCIENTIFIC OBSERVATIONS OF BIT CUTTING SAMPLES.	Å	N	₽
	ACON/DEVL LOCATION : USGS, DENVER, CO					
*GS931008314211.035	GRAPHICAL LITHOLOGIC LOG OF DRILL HOLE RF-8 (UE-25 RF #8), VERSION 1.0	08/01/93-09/02/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	¥	₽
	NON ART TOCHTON . CANDLE MANACEMENT FI	CILITY NTS				

ACQN/DEVL LOCATION : SAMPLE MANAGEMENT FACILITY, NTS

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	SITE CHARACT	TERIZATION PLAN BASELIN	TE	TQ DUL IAO FLC IA
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*GS931008314211.036	RF-3 (UE-25 RF #3), VERSION 1.0		THESE DATA WERE ACQUIRED FROM ANALYSES OF Core Using SN-0001, Stratigraphic Studies From Geologic Description of Core, Bit Cuttings, And Outcrop.	АҮР
	ACON/DEVL LOCATION : SAMPLE MANAGEMENT			
*GS931008314211.037	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-3 (UE-25 NRG#3), VERSION 1.0	가 있다니 이 나가 나가 못 못하지 못하	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	
	ACON/DEVL LOCATION : SAMPLE MANAGEMENT	FACILITY. NTS		
	CPADUTCAL LITUOLOGIC LOG OF BODTHOLE		States (States (C), 1993) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	
+G5931008314211.038	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-2A (UE-25 NRG#2A), VERSION 1.0			
	and the protocol water from the second se		CUTTINGS, AND OUTCROP.	•
•	ACON/DEVL LOCATION : SAMPLE MANAGEMENT			
	[34] D. Weinger, A. Sterner, S. Sterne			
*GS931008314211.039	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-2 (UE-25 NRG#2), YUCCA MOUNTAIN, NEVADA: VERSION 1.0		CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT	АҮР
	The device device the second second second second		CUTTINGS, AND OUTCROP.	. #* 7.57
	ACQN/DEVL LOCATION : SAMPLE MANAGEMENT	FACILITY, NTS	a the second	
	ACQN/DEVL LOCATION : SAMPLE MANAGEMENT	an an the second second second		
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*GS931008314211.045	GRAPHICAL LITHOLOGIC LOG OF BORE HOLE USW NRG-6, VERSION 1.0.	08/01/93-09/02/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF Core USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	ΥP	
	ACQN/DEVL LOCATION : SAMPLE MANAGEMENT FA	CILITY, NTS				
*GS931108314211.041	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-2B (UE-25 NRG#2B), YUCCA MOUNTAIN, NEVADA: VERSION 1.0	08/01/93-10/01/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	ΥP	
	ACON/DEVL LOCATION : SAMPLE MANAGEMENT FA	CILITY, NTS				
*GS931108314211.042	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-4 (UE-25 NRG#4), VERSION 1.0	08/01/93-09/30/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	ΥP	
	ACON/DEVL LOCATION : SAMPLE MANAGEMENT FA	CILITY, NTS				
*G5931108314211.043	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE NRG-5 (UE-25 NRG#5), VERSION 1.0	08/01/93-09/30/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	ΥP	
	ACQN/DEVL LOCATION : SAMPLE MANAGEMENT FA	CILITY, NTS				

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACON/DEVL METHOD	P		ō
*GS931108314211.044	SUMMARY LITHOLOGIC DESCRIPTION OF THE UPPER TIVA CANYON FORMATION AND TUFF UNIT "X" IN THE NORTH RAMP AREA, BY THOMAS MOYER, JEFFREY GESLIN AND DAVID BUESCH	08/01/93-09/17/93	EXAMINATION OF GEOLOGIC DESCRIPTION OF CORE INFORMATION COLLECTED IN FY'93 TO SUMMARIZE AND PROVIDE EXPLANATIONS TO ACCOMPANY SOURCE DATA.	D	YI	P
	ACON/DEVL LOCATION : USGS, LAS VEGAS, NV	•				
*G5931208314211.046	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE UE-25 NRG#1, VERSION 1.0	01/01/93-11/18/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	YE	2
 Altabatistis attempting attempt	ACON/DEVL LOCATION : SAMPLE MANAGEMENT FAC	ILITY, NTS	(a) A. B. C. M. WARK MARK MARK AND AND A STREAM AND ADDRESS AND ADD ADDRESS AND ADDRESS			• • •
*G5931208314211.047	GRAPHICAL LITHOLOGIC LOG OF BOREHOLE USW UZ-16, VERSION 1.0 ACON/DEVIL LOCATION : SAMPLE MANAGEMENT FAC	01/01/93-11/18/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS AND OUTCOOP	Å		
el de la deservación de la consecu- la constante de la consecuencia de	ACQN/DEVL LOCATION : SAMPLE MANAGEMENT FAC	ILITY, NTS				
*GS931208314211.048	UZ-14, VERSION 1.0	01/01/93-11/18/93	THESE DATA WERE ACQUIRED FROM ANALYSES OF CORE USING SN-0001, STRATIGRAPHIC STUDIES FROM GEOLOGIC DESCRIPTION OF CORE, BIT CUTTINGS, AND OUTCROP.	A	YE	2
	ACON/DEVL LOCATION : SAMPLE MANAGEMENT FAC	TLTTY, NTS				
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*G\$931208314211.049	REVISED STRATIGRAPHIC NOMENCLATURE AND MACROSCOPIC IDENTIFICATION OF LITHOSTRATIGRAPHIC UNITS EXPOSED AT YUCCA MOUNTAIN, NEVADA, BY D.C. BUESCH, R.W. SPENGLER, T. MOYER, AND J. GESLIN.	07/30/93-09/30/93	MACROSCOPIC AND MICROSCOPIC OBSERVATIONS INCLUDING PHENOCRYST ASSEMBLAGES, DEPOSITION TEXTURES AND STRUCTURES, ZONES OF WELDING, ZONES OF CRYSTALLIZATION, AND SURFACE ROUGHNESS AND ORIENTATION OF FRACTURES	D	Y	P
· .	ACQN/DEVL LOCATION : USGS, LAS VEGAS, NV					
*GS931208314211.050	INTEGRATED GEOLOGY ALONG THE NORTH RAMP EXPLORATORY STUDIES FACILITY, YUCCA MOUNTAIN, NEVADA, BY D.C. BUESCH, R.P. DICKERSON, R.M. DRAKE, AND R.W. SPENGLER	09/15/93-12/20/93	ANALYSIS AND INTEGRATION OF SURFACE MAPPING RELATIONSHIPS, LITHOLOGIC LOGS OF CORE FROM DRILL HOLES, AND SURFACE AND DOWN HOLE GEOPHYSICS.	D	N	P
	ACON/DEVL LOCATION : USGS, LAS VEGAS, NV					
*GS931208314211.051	X-RAY FLUORESCENCE ELEMENTAL Compositions, 3/9/93 - 3/14/93	03/09/93-03/14/93	USGS TECHNICAL PROCEDURE GCP-25,R0, Determination of Chemical Composition by Energy Dispersive X-Ray Fluorescence Spectrometry	A	Y	P
	ACQN/DEVL LOCATION : USGS, DENVER, CO					

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	SITE CHARACTERI	ZATION PLAN BASELIN	NE .	I F T Y	ŪI AC LA F1 I	0 C A T I
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	-		-
Activity - 8.3.1.4.	2.1.2					
*GS930808314212.010	GRAVITY AND MAGNETIC DATA OF MIDWAY Valley, Southwest Nevada, by D.A. Ponce, V.E. Langenheim, and R.F. Sikora	09/30/92-08/30/93	COMPILATION AND ANALYSIS OF THE SOURCE DATA	D	YI	?
	ACON/DEVL LOCATION : USGS, MENLO PARK, CA					•
*GS930808314212.011	GRAVITY AND MAGNETIC STUDY OF YUCCA WASH, SOUTHWEST NEVADA, BY V.E. LANGENHEIM, D.A. PONCE, H.W. OLIVER, AND	09/30/92-08/30/93	COMPILATION AND ANALYSIS OF THE SOURCE DATA	D	YI	P
	R.F. SIKORA		$M_{\rm eff} = 10^{-10} M_{\odot}^{-1}$. For the set of the state of the state of the state $\frac{1}{2}$		۲.	•
	ACQN/DEVL LOCATION : USGS, MENLO PARK, CA					
Activity - 8.3.1.4.	2.1.3					
**G8930708314213.009	MAGNETIC SUSCEPTIBILITY (MS_SI) AND MAGNETIC FIELD (TOTAL FIELD TM, HORIZONTAL FIELD HM, VERTICAL FIELD ZD) LOGS. SUSCEPTIBILITY REPORTED IN MICRO-SI UNITS, MAGNETIC FIELD		USGS TECHNICAL PROCEDURES GPP-15, R1 AND GPP-17, R1; MAGNETIC SUSCEPTIBILITY BOREHOLE LOGGING OPERATIONS AND MAGNETOMETER BOREHOLE LOGGING OPERATIONS.		ΎΣ	P
		n an tha an t				÷
	ACQN/DEVL LOCATION : NRG-6 USW UZ-16	. ·				a
	WATER PERMEABILITY AND SELECTED PROPERTIES MEASURED ON CORE SAMPLES FROM THE YUCCA MOUNTAIN USW GU-3/G-3 AND USW G-4 BOREHOLES, NEVADA TEST SITE, BY L.A. ANDERSON.		CORE SAMPLES FROM THE YM-USW GD-3/USW G-3 AND USW G-4 BOREHOLES WERE MEASURED FOR BULK DENSITY, GRAIN DENSITY, POROSITY, RESISTIVITY, AND WATER PERMEABILITY TO DETERMINE RELATIVE LEVELS OF FLUID		NI	9
" 			CONDUCTIVITY ATTRIBUTABLE TO THE MATRIX OF THE TUFFS ENCOUNTERED WITHIN THE RESPECTIVE BOREHOLES.			
	ACON/DEVL LOCATION : USGS, DENVER, CO	· · · ·	(1) And the second sec second second sec			

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	SITE CHARACTER	ZATION PLAN BASELIN	Ε	I F T Y	Q L U A C L A L A F T I I O	
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD		Е U В N 	
*GS931208314213.011	SATURATION LEVELS AND TRENDS IN THE UNSATURATED ZONE, YUCCA MOUNTAIN, NEVADA, BY P. NELSON.	08/01/93-12/15/93	CALIPER, DENSITY, AND EPITHERMAL NEUTRON LOGS WERE EXAMINED; WATER CONTENT AND POROSITY WERE COMPUTED TO ANALYZE TRENDS, LOGS FROM 15 "WT" BOREHOLES DRILLED TO THE DEPTH OF THE STATIC WATER LEVEL ARE PRESENTED.	D	N P	I
	ACON/DEVL LOCATION : USGS, DENVER, CO					
Activity - 8.3.1.4.	2.2					
*SNSAND877081A0.000	SAND&7-70&1A: "STYLES OF EXTENSION IN THE NEVADA TEST SITE REGION, SOUTHERN WALKER LANE BELT; AN INTEGRATION OF VOLCANO-TECTONIC AND DETACHMENT FAULT MODELS"	01/01/87-12/01/87	DETAILED GEOLOGICAL INFORMATION, SUPPORTED BY GEOPHYSICAL DATA AND DRILL HOLES, INDICATES THAT SEVERAL DEFORMATIONAL STYLES CHARACTERIZE THE WALKER LANE BELT OF THE SOUTH-CENTRAL GREAT BASIN AND NEVADA TEST SITE REGION. (SEE SAND87-7081A FOR A DETAILED DESCRIPTION).	D	NC	:
	ACON/DEVL LOCATION : SNL					
Activity - 8.3.1.4.	2.2.1		-			
*GS931008314221.011	STRUCTURAL CHARACTER OF THE NORTHERN SEGMENT OF THE PAINTBRUSH CANYON FAULT, YUCCA MOUNTAIN, NEVADA, BY R.P. DICKERSON AND R.W. SPENGLER	05/01/93-09/30/93	TECHNICAL PROCEDURE GP-01, R2 GEOLOGIC MAPPING.	D	N P	

ACQN/DEVL LOCATION : USGS, DENVER, CO

DATA TRACKING NO.	SITE CHARACTERI TITLE/DESCRIPTION	ZATION PLAN BASELIN ACQN/DEVL PERIOD		TQL IACCFLCA TFLT YECON EDN
*GS931208314221.012	FAULT ATTITUDE DATA OF THE PAINTBRUSH Canyon Fault System.	05/01/92-11/05/93	NWM-USGS GP-01, R2, GEOLOGIC MAPPING.	АУР
	ACQN/DEVL LOCATION : N770270(N) E570900(N)	;N793000 (N) E57900	0 (N)	
· .	FIELD DATA AND PETROGRAPHIC DATA FOR Welded TUFF in the Rhyolite of Calico Hills, in fortymile Wash.	04/01/93-12/03/93	TECHNICAL PROCEDURE GP-01,R2, GEOLOGIC MAPPING, AND GP-18,R1, PETROGRAPHIC ANALYSIS OF VOLCANIC ROCKS.	АУР
	ACON/DEVL LOCATION : USGS, DENVER, CO	en e		
*GS931208314221.014	PETROGRAPHIC EVIDENCE FOR A WELDED TUFF IN THE RYHOLITE OF CALICO HILLS, BY DICKERSON, R P AND HUNTER C W. ACON/DEVL LOCATION : USGS, DENVER, CO		REPORT WAS DEVELOPED BY ANALYZING AND INTERPRETING FIELD MAPPING AND PETROGRAPHIC ANALYSIS OF THIN SECTIONS DATA.	DYP
	and the second			
	PHOTOMICROGRAPHS OF THIN SECTIONS FROM ANTLER RIDGE	05/01/93-12/06/93	GP-18, R1, PETROGRAPHIC ANALYSIS OF VOLCANIC ROCKS	АҮР
o e ^{le} t30 und 333055 rade Le reschieder en en en		la filologi e e e e e e e e e e e e e e e e e e e		· · ·
*GS931208314221.016	PETROGRAPHIC AND GEOCHEMICAL CHARACTERISTICS OF TIVA CANYON TUFF, ANTLER RIDGE, YUCCA MOUNTAIN, NEVADA, BY F. SINGER, F.J. BYERS, JR., B.L. WIDMAN AND R.P. DICKERSON	10/01/93-12/06/93	DETAILED PETROGRAPHIC EXAMINATION OF AN ANTLER RIDGE THIN SECTION SUITE DESCRIBING POST DEPOSITIONAL MINERAL CHANGES RELATED TO COOLING OF TIVA CANYON TUFF WELDED ASH-FLOW UNITS (E.G. DEVITRIFICATION AND VAPOR PHASE MINERALOGY) AIDED BY CHEMICAL ANALYSIS	3
en an	ACON/DEVL LOCATION : USGS, DENVER, CO	and a second s		

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	, SITE CHARACTERI	ZATION PLAN BASELIN	IE.	TQ DUL IAO FLC IA TFT YII	
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACON/DEVL METHOD	PEO EDN	
*GS931283117452.005	GEOLOGIC MAPPING IN CRATER FLAT, IN AND AROUND FOUR 7.5 MINUTE QUADRANGLES: 1) EAST OF BEATTY MOUNTAIN, 2) BEATTY MOUNTAIN, 3) CRATER FLAT, 4) BIG DUNE.	03/14/93-05/15/93	TECHNICAL PROCEDURE GP-01,R2, GEOLOGIC MAPPING.	ΆΥΡ	
	ACON/DEVL LOCATION : 36 52'30"N 116 37'30"	W ;37 00'00"N 116 3	0°00"₩		
Activity - 8.3.1.4.	2.2.2				
*GS931008314222.006	FRACTURE DATA FOR P2001 PAVEMENT AT FRAN RIDGE, DATED 02/09/93, 3/16-17/93, AND 4/9/93.		TECHNICAL PROCEDURE NWM-USGS GP-12,R1, MAPPING FRACTURES ON PAVEMENTS, OUTCROPS, AND ALONG TRAVERSES.	АУР	
	ACON/DEVL LOCATION : P2001 PAVEMENT				
Activity - 8.3.1.4.	2.2.4				
*GS931008314224.006	GEOLOGIC FIELD MAPPING NOTEBOOKS AND LINE SURVEY COMPILATIONS FOR EXPLORATORY STUDIES FACILITY.	04/14/93-09/10/93	SN-0041,R0, UNDERGROUND MAPPING OF THE NORTH RAMP STARTER TUNNEL AND APPURTENANCES	АУР	
	ACQN/DEVL LOCATION : NORTH RAMP OF ESF, AR	EA 25, NTS			
*GS931008314224.007	FULL-PERIPHERY MAPS, NORTH RAMP OF THE Exploratory studies facility, through October, 1993.	04/14/93-09/10/93	SN-0041,R0, UNDERGROUND MAPPING OF THE North RAMP STARTER TUNNEL AND APPURTENANCES	АҮР	
	ACON/DEVL LOCATION : NORTH RAMP OF ESF, AR	EA 25, NTS			

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DUL IAO FLC SITE CHARACTERIZATION PLAN BASELINE 1 A TFT YII PEO DATA TRACKING NO. TITLE/DESCRIPTION ACON/DEVL PERIOD ACON/DEVL METHOD EDN Activity - 8.3.1.4.2.2.5 01/01/93-12/09/93 SP-13.R1, VSP AND CROSSHOLE TOMOGRAPHIC AYP *GS931208314225.001 VSP DATA FROM USW NRG-6 AND USW WT-2 SURVEYS ACON/DEVL LOCATION : N760586.96610(N) E562111.65543(N) N760592.39532(N) E562159.11495(N) N760596.53374(N) E562060.00276(N) N760613,91922(N) E562209.96883(N) N760617.72844(N) E562016.83945(N) N760635.22251(N) E561971.61496(N) N760643.42035(N) E562248.65178(N) (急致) 化二十四十 N760660.54000(N) 2561923.56000(N) n de provinse de la compañía de la c N760674.34866(N) E562286.07975(N) 1.1.1.1.1.1 N7607C8.62988(N) E562322.38096(N) A State of the second se N760709.03529(N) E561861.06022(N) N760743.42170 (N) E562356.79929 (N) and a shear the N760768.46645 (N) E562406.87925 (N) 1.1.1.1.1.1.1 (1) States and the second sec second sec N760789.85461(N) E562446.05127(N) 化化化学 化生产 N760802.13060(N) E562490.77385(N) N760904.52429(N) E562897.30774(N) 1. 1.12 N760812.43019(N) E562540.73690(N) a fra goran tagwar Nana ang sa N760817.82754 (N) E562590.35809 (N) N760819.13400 (N) E562836.77942 (N) しいたと酒 Concernence de la concernencia de la concerne de la N760822.32512(N) E562640.04954(N) N760823.01716(N) E562686.90466(N) N760823.72724 (N) E562787.52201 (N) N760824.51338 (N) E562739.71504 (N) N766067.45545(N) E564351.69944(N) N766649.33809(N) E564161.39669(N) N766726.02466 (N) E564552.00920 (N) STATE COMPANY TOTAL STATE OF A STATE the second second والمراجع وال 29

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	SITE CHARACTERI	IZATION PLAN BASELIN	E		I A F T I I
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	Ē	
Activity - 8.3.1.4.	3.1.1				
*TM000000000CL.003	PRELIMINARY COMPOSITE BOREHOLE LOG AND SHIFT DRILLING SUMMARIES FOR UE-25NRG#4.	06/17/93-07/21/93	GRAPHICAL REPRESENTATION OF BOREHOLES LITHOLOGY AND RELATED DRILLING INFORMATION. CORE RUN INTERVALS PROVIDED ON THE SHIFT DRILLING SUMMARIES.	Ab	1 5
	ACQN/DEVL LOCATION : N767080.2(N) E566820.	. 0 (N)			
Activity - 8.3.1.5.	1.2.1	· ·			
*GS931208315121.002	STABLE ISOTOPE ANALYSES OF GASTROPODS, 10/93-11/93.	10/01/93-11/30/93	NWM-USGS GCP-16,R3, CARBONATE CARBON AND OXYGEN ISOTOPE ANALYSES.	A 3	(P
	ACQN/DEVL LOCATION : USGS, DENVER, CO		1		
*GS931208315121.003	MOLLUSCS AS CLIMATE INDICATORS - PRELIMINARY RESULTS OF STABLE ISOTOPE AND SPECIES ANALYSIS, BY S.E. SHARPE, J.F. WHELAN, R.M. FORESTER, AND T. MCCONNAUGHEY	09/30/93-12/15/93	EVALUATION OF THE USE OF ISOTOPE SIGNATURE ANALYSIS OF MOLLUSCS WITHIN A SAMPLE TO DETERMINE THE CLIMATE VARIABILITY ASSOCIATED WITH THE SAMPLE'S TIMESPAN	: D Y	(P
	ACON/DEVL LOCATION : DESERT RESEARCH INSTI	TUTE, RENO, NV			

DATA TEACHING ND. TITLE/DESCRIPTION ACGN/DEVL PERIOD A Y P ACGN/DEVL LOCATION : USGS, DERVER; CO ACGN/DEVL PERIOD ACGN/DEVL PERIOD ACGN/DEVL PERIOD ACGN/DEVL PERIOD ACGN/DEVL PERIOD AY P ACGN/DEVL POCATION : USGS, DERVER; CO ACGN/DEVL PERIOD ACGN			•		· · · · ·		-	
DATA TRACKING 30. TITLE/DESCRIPTION ACOM/DEVL PERIOD ACOM/DEVL METHOD ACOM/DEVL METHOD Activity - 0.3.1.5.1.2.7 ************************************						D I	Ũ A L	Ö C
DATA TRACKING NO. TITLE/DESCRIPTION ACON/DEVL PERIOD ACON/DEVL METHOD P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			SITE CHARACTER	IZATION PLAN BASELIN	NE		F	T
 *GS931208315122.003 FOSSIL OSTRACODE SPECIMENS FROM HARSH DEPOSITS IN LAS VEGAS ALLEY *GS931208315122.004 LOCATION : USGS, DENVER, CO *GS931208315122.004 LOCATION : USGS, DENVER, CO *GS931208315122.004 LOCATION : USGS, DENVER, CO *GS93120831512.004 LOCATION : USGS, DENVER, CO *GS93120831514.005 *GS93120831514.005 *GS93120831514.005 *GS93120831514.005 *GS93120831514.005 *GS93120831514.005 *GS931208315141.005 *GS93120831514.005 *GS931208315141.005 *GS931208315141.00			TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD	P	E	Ō
DEPOSITS IN LAS VEGAS ALLEY TRENCH WALL AND NATURAL OUTCROP SAMPLING FOLLOWED HU-TS,RI, NOMARINE CALCHROUS ACQM/DEVL LOCATION : USGS, DENVER/ CO *GS931208315122.004 LEVELS AND STYLES OF PRECIPITATION DURING THE LATE GLACIAL IN SOUTHERN MENDAD RECONSTRUCTED FROM THE FORSIL OSTANCODE RECORD, BY R.M. FORSSTER AND A.J. GNITH *GS931008315141.005 STRACODE RECORD, BY R.M. FORSSTER AND ACQM/DEVL LOCATION : USGS, DENVER, CO Activity - 5.3.1.5.1.4.1 *GS931008315141.005 STRACODE RECORD DIONIDE CONCENTRATIONS IN STONY, COARSE-TEXTURED DISTINGTION FOR OF CARDON DIONIDE CONCENTRATIONS IN STONY, COARSE-TEXTURED DISTINGTONE AND J.W. HANDEN BY C.L. TERMUME AND J.W. HANDEN BY C.L. TERMUME AND J.W. HANDEN ACQM/DEVL LOCATION : USGS, MENLO PARK, CA ACQM/DEVL LOCATION : USGS, MENLO PARK, CA ACQM/DEVL LOCATION : USGS, MENLO PARK, CA		Activity - 8.3.1.5.	1.2.2	i				
ACGN/DEVI LOCATION : USGS, DERVER, CO *GS931208315122.004 LEVELS AND STILES OF PRECIPITATION DURING THE LATE GLACIAL IN SOUTHERN DURING THE LATE GLACIAL IN SOUTHERN DURING THE LATE GLACINGTHOUSE TRACH THE SOUTHERN A.J. SHITL. ACGN/DEVI LOCATION : USGS, DERVER, CO Activity - 8.3.1.5.1.4.1 *GS931008315141.006 SEASONAL VARIATIONS OF CARDON DIOXIDE DY CL. TERUTHERN NEVARIA, U.S.A., BY C.L. TERUTHERN NEVARIANEN ACQN/DEVIL LOCATION : USGS, MENLO PARK, CA		*G8931208315122.003	DEPOSITS IN LAS VEGAS ALLEY	01/20/93-12/01/93	TRENCH WALL AND NATURAL OUTCROP SAMPLING FOR COORDINATED STUDIES, SAMPLE PROCESSING FOLLOWED HP-78,R1, NONMARINE CALCEREOUS MICROFOSSIL SAMPLE PREPARATION AND DATA		Y	₽
MEAR_THE BASE OF UNIT E (QUADE 1986, QUADE OSTRACODE RECORD, BY R.M. FORSTER AND A.J. SMITH. ACQN/DEVL LOCATION : USGS, DENVER, CO Activity - 8.3.1.5.1.4.1 *GSSJ1008315141.005 SEASONAL VARIATIONS OF CARBON DIOXIDE CONCENTRATIONS IN STONY, COARSE-TEXTORED DESENT SOILS OF SOUTHERN NEWADA, U.S.A. BY C.L. TERNURE AND J.W. HARDEN ACQN/DEVL LOCATION : USGS, MENLO PARK, CA ACQN/DEVL LOCATION : USGS, MENLO PARK, CA			ACON/DEVL LOCATION : USGS, DENVER, CO	an an an an an an an a	10 - 10			
ACQN/DEVL LOCATION : USGS, DENVER, CO Activity - 8.3.1.5.1.4.1 *GSSSSI008315141.006 SEASOMAL VARIATIONS OF CARBON DIOXIDE DESERT SOLIA OF SOUTHERN HURVADA, U.S.A., BY C.I. TERHUNE AND J.W. HARDEN BY C.I. TERHUNE AND J.W. HARDEN ACQN/DEVL LOCATION : USGS, MENLO PARK, CA 31		*GS931208315122.004	NEVADA RECONSTRUCTED FROM THE FOSSIL	09/30/93-11/30/93	THE OSTRACODE CONTENTS OF SEVERAL SAMPLES Collected from Near the top of Unit D and Near the base of Unit E (Quade 1986, Quade	5	1.1	P
ACQM/DEVL LOCATION : USGS, DENVER, CO Activity - 8.3.1.5.1.4.1 *GS931008315141.005 SEASONAL VARIATIONS OF CARBON DIOXIDE CONCENTRATIONS IN STONY, COARSE-TEXTURED DESERT SOLLS OF SOUTHERN NEVADA, U.S.A., BY C.L. TERHUNE AND J.W. HARDEN ACQN/DEVL LOCATION : USGS, MENLO PARK, CA ACQN/DEVL LOCATION : USGS, MENLO PARK, CA 31	•		OSTRACODE RECORD, BY R.M. FORESTER AND	$(t) \chi_0(t) \chi_{t+1} \sim c_0(t+1) \chi_0(t)$	TO PROVIDE PRELIMINARY PALEOHYDROLOGICAL			
*GS\$31008315141.006 SEASONAL VARIATIONS OF CARBON DIOXIDE DESERT SOILS OF SOUTHERN MEVADA, U.S.A., BY C.L. TERHOME AND J.W. HARDEN ACQN/DEVL LOCATION : USGS, MENLO PARK, CA 31			ACQN/DEVL LOCATION : USGS, DENVER, CO	1				
*GS\$31008315141.006 SEASONAL VARIATIONS OF CARBON DIOXIDE DESERT SOILS OF SOUTHERN MEVADA, U.S.A., BY C.L. TERHOME AND J.W. HARDEN ACQN/DEVL LOCATION : USGS, MENLO PARK, CA 31		Activity - 8.3.1.5.	(1) Strategy and the Collection of the Advances of the space of the second strategy and the second					
USED TO OBTAIN THE CONSTANT BY WHICH THE PERK AREAS WERE CONVERTED INTO PERCENTAGE OF CO2.		*G\$931008315141.006	SEASONAL VARIATIONS OF CARBON DIOXIDE CONCENTRATIONS IN STONY, COARSE-TEXTURED DESERT SOILS OF SOUTHERN NEVADA, U.S.A., BY C.L. TERHUNE AND J.W. HARDEN	01/01/86-07/07/87	SAMPLES WERE ANALYZED BY GAS CHROMOTOGRAPHY TO MEASURE CO2 CONCENTRATION. AVERAGE PEAK AREA OF FREE ATMOSPHERE SAMPLES SUBTRACTED FROM PEAK		N	5
			[14] A. A. M. Markov, C. Sharkov, "A strain of the stra		USED TO OBTAIN THE CONSTANT BY WHICH THE PEAK AREAS WERE CONVERTED INTO PERCENTAGE OF CO2.		,*	
31		and the second	ACON/DEVL LOCATION : USGS, MENLO PARK, CA		sun met mich i Klannsson i Kolonia (* 1250) Michael (* 1252)	•	А. 1	
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	SITE CHARACTERI	ZATION PLAN BASELIN	16	I A T F T Y I I P E O
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	EDN
Activity - 8.3.1.5.	1.4.3			
*GS931108315143.001	THERMOLUMINESCENCE AGE DATING FOR MIDWAY VALLEY TRENCHES 4, 5A, AND 14D, STAGECOACH ROAD TRENCH 1, AND BUSTED BUTTE WALL 4	11/19/92-11/16/93	NWM-USGS GCP-29,R0, THERMOLUMINESCENCE DATING	АҮР
	ACON/DEVL LOCATION : TL LAB, USGS, DENVER			
Activity - 8.3.1.5.	2.1.3			
*GS930908315213.020	USGS NWQL WATER CHEMISTRIES DERIVED FROM Samples collected 6-1-93 to 6-8-93.	06/01/93-09/12/93	STANDARD USGS NATIONAL WATER QUALITY LAB METHODS AND PROCEDURES.	АҮР
	ACQN/DEVL LOCATION : USGS NWQL, ARVADA, CO	•		
*GS930908315213.021	PHYSICAL WATER PROPERTIES OBTAINED IN FIELD DURING SAMPLING TRIPS FROM 1988 THROUGH 5/2/89. DATA RECORDED ON SAMPLE COLLECTION FORMS.	01/01/88-05/02/89	YMP-USGS TECHNICAL PROCEDURES HP-59,R0, METHOD FOR CALIBRATING DIGITAL THERMOMETERS; HP-23,R0, COLLECTION AND FIELD ANALYSIS OF GROUND-WATER SAMPLES FROM SATURATED ZONE; AND HP-91,R0, COLLECTION AND FIELD ANALYSIS OF SURFACE WATER SAMPLES	A N P

ACQN/DEVL LOCATION : 35 00'00"N 118 00'00"W ;38 00'00"N 115 00'00"W

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD
Activity - 8.3.1.5.	.2.1.4		
	METEOROLOGICAL DATA FROM A STATION AT ORGAN PIPE CACTUS NAT'L MONUMENT, ARIZONA: BAROMETRIC PRESSURE, SOLAR	08/03/92-07/18/93	SCIENTIFIC NOTEBOOK PLAN NWM-USGS HP-211T, R0, LONG TERM METEOROLOGICAL DATA COLLECTION. AFTER APPROVAL OF THE ACSR
en an an Artan Merida an Argen	RADIATION, AIR TEMPERATURE, WIND SPEED, WIND DIRECTION.	n an	NO. YMP-USGS-ACS G1236221-1, RO THE DATA COLLECTION HAS BEEN CONTINUED IN A SIMILAR MANNER BUT WITHOUT USING A CONTROLLED SNP.
	ACQN/DEVL LOCATION : 32 05'24"N 112 44'21	*Ware of the second second	
an a	[1] [et Bit] (BDD) and approximate the straight of		
*G\$930908315214.030	CHEMICAL ANALYSIS OF SURFACE-WATER, Spring, and precipitation samples Collected from Kawich and Stewart Creek	02/18/92-09/17/92	STANDARD USGS CENTRAL LABORATORY ANALYSIS PROCEDURES.
	BASINS FROM FEBRUARY, 1992, TO AND		
	SEPTEMBER, 1992. SAMPLES ANALYZED FOR ANIONS, CATIONS, STABLE ISOTOPES, AND PHYSICAL PARAMETERS.		
· 网络马克拉马克 · 马克曼尔曼尔	ACQN/DEVL LOCATION : USGS CENTRAL LAB, AR	VADA. CO	
	in the second		
*G5931008315214.031	FIELD NOTES FOR THE ANALOG RECHARGE PROJECT FROM JUNE, 1992, TO SEPTEMBER, 1992.	06/09/92-09/30/92	DATA ACQUIRED USING THE FOLLOWING PROCEDURES: HP-16,R3, COLLECTION OF ATM PRECIP SAMPLES FOR H-2 AND 0-18 ANALYSIS; HP-54,R1, WATER-FLOW MMT USING WEIRS,
	(1997) An Arabita Shara and Arabita Angelera Shara ang ang ang ang ang ang ang ang ang an	· ·	FLUMES, AND BARRELS; HP-57, R1, USING WATER-LEVEL RECORDERS; HP-91, R3, COLLECTION AND ANALYSIS OF SURFACE-WATER
n tafén Durang di Pangan ta Pangan	and and the contract of the second	 A state of the sta	SAMPLES; HP-97, R1, MMT OF TEMP AND RH USING A CSI 207 PROBE; HP-165, R0,
	nan an an an an an an an Arabana an Arabana.		MEASURING SNOW WATER CONTENT; HP-166,R1, STREAM DISCHARGE MEASUREMENT USING A PYGMY CURRENT METER; HP-167,R0, PRECIP MMT USING
			A BELFORT WEIGHING RAIN GAGE; HP-168,R0, MMT OF ENERGY FLUX DENSITY BY A PYRANOMETER; HP-170,R1, MEASURING TEMP
			USING A CSI 107 PROBE; HP-171,R1, LOW TENSION VADOSE MOISTURE SAMPLING; HP-172, R0, WATER LEVEL MMT USING A TEN-TURN POT;
			HP-184, R1, COLLECTION OF ATM PRECIP SAMPLES FOR CHEMICAL ANALYSIS; AND HP-198,

		34			Q	L
	SITE CHARACTERI	ZATION PLAN BASELIN	-	I F T Y	A L I F I	0 C A T I
DATA TRACKING NO.		ACQN/DEVL PERIOD	ACQN/DEVL METHOD	E -		0 N -
			AN RM YOUNG WIND MONITOR.			
	ACQN/DEVL LOCATION : 37 57'19"N 117 21'37"	W ;38 53'23"N 116 2	5'23"W			
*GS931008315214.032	METEOROLOGICAL, DISCHARGE, AND WATER-QUALITY DATA FOR 1992 FROM TWO BASINS IN CENTRAL NEVADA, BY P.W. MCKINLEY AND THOMAS OLIVER	12/01/92-10/08/93	DATA WERE DEVELOPED INTO DAILY VALUE TABLES USING THE NATIONAL WATER INFORMATION SYSTEM (NWIS) DATABASE. MISSING DATA WERE ESTIMATED BY REGRESSION TO OTHER METEOROLOGICAL DATA USING MINITAB RELEASE 7.2 OR WERE ESTIMATED BY INTERPOLATION.		Y	P
	ACON/DEVL LOCATION : USGS, DENVER, CO					
Activity - 8.3.1.5.	2.1.5					
**GS910608315215.010	TABLE OF STRONTIUM ISOTOPE DATA IN SUPPORT OF PUBLICATION.	12/01/90-12/31/90	USGS STANDARD COLLECTION METHODS.	D	Y	T
	ACON/DEVL LOCATION : CRATER FLAT, NTS					
*G\$930908315215.027	865R/87SR MASS SPECTROMETER DATA FOR Samples Run 3/2/92 - 11/18/92.	03/02/92-11/18/92	GCP-12,R3, RB-SR ISOTOPE GEOCHEMISTRY.	A	Y	P
	ACON/DEVL LOCATION : SOLID MASS SPECTROMET	ER BAY, USGS, DENVE	R, CO			
*GS931008315215.028	SPECIMEN DESCRIPTIONS WITH PHOTOS FOR Calcite-Silica Studies, April - Sept. 1993.	04/10/93-09/30/93	USGS TECH PROCEDURE GCP-02, R2, LABELING, Identification, and control of samples for Geochemistry & Isotope Geology.	A	Y	P
	ACON/DEVL LOCATION : USGS, DENVER, CO					
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	SITE CHARACTER	IZATION PLAN BASELIN	ne .	I F T	Q U L O C I A F T I I
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD	-	e o d n
*GS931008315215.030	CARBON AND OXYGEN ISOTOPE ANALYSES OF CAVITY- AND FRACTURE-COATING CALCITE AND SOIL CARBONATE FROM DRILL HOLES AND OUTCROPS, MAY '89 - OCT. '93.	05/15/89-10/31/93	NWM-USGS GCP-16,R3, CARBONATE CARBON AND Oxygen isotope analyses.	A	YP
	ACON/DEVL LOCATION : USGS, DENVER, CO	•			
*G\$931108315215.031	STRONTIUM ISOTOPES IN CARBONATE DEPOSITS AT CRATER FLAT, NV, BY B.D. MARSHALL, K. FUTA, Z.E. PETERMAN, AND J.S. STUCKLESS.	01/01/90-12/31/90	TO HELP CHARACTERIZE THE ORIGINS AND ESTIMATE THE AGES OF SOME HYDROGENIC DEPOSITS, DATA FROM STRONTIUM ISOTOPE ANALYSES OF CARBONATES ARE COMPARED.		NP
ener ander sonder en energener Bereiten en e			SAMPLE DATA FROM SOILS, VEINS, EOLIAN DUST, AND PALEOZOIC BASEMENT TAKEN SOUTH AND WEST OF YM ARE COMPARED TO SIMILAR SAMPLE DATA FROM EAST OF YM AND TO TERTIARY AQUIFER WATER. SR ISOTOPE RATIOS VS FREQUENCY ARE PRESENTED IN HISTOGRAMS.		
	ACQN/DEVL LOCATION : USGS, DENVER, CO.				÷
*GS931108315215.033	FLUID INCLUSION TEMPERATURES FROM DRILL Holes USW G-1 AND G-2, OCT. 92 - SEPT. 93.	10/01/92-09/30/93	NHM-USGS GCP-27,R0, DETERMINATION OF TEMPERATURE AND SALINITY FROM MINERAL-HOSTED FLUID INCLUSIONS.	A	Y P
	ACON/DEVL LOCATION : HARVARD UNIV., CAMBR	IDGE, MA			
*GS931108315215.034	CARBON 14 AGES FROM DRILL HOLES USW G-1, G-2, GU-3, AND G-4, APRIL 92 - JAN. 93.	04/01/92-01/31/93	DATA WERE ACQUIRED BY DR. T. STAFFORD OF THE UNIVERSITY OF COLORADO. CARBONATE CARBON WAS EXTRACTED BY STANDARD 14C	A	ΥP
ana di sa 300 maya.	44. The Annual American Strength and the Annual American S Annual American Strength and the Annual American Strength and the Annu	ta an	PROCEDURES AND THE 14C CONTENT WAS DETERMINED BY AMS AT LAWRENCE LIVERMORE NATIONAL LABORATORIES.	,	
a an ann an Stàite Anns an Anns an Anns an Anns an Anns an Anns an	ACON/DEVL LOCATION : LLNL, LIVERMORE, CA UNIV. OF COLORADO, BO	DULDER, CO	na an a		
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DATA TRACKING NO.	SITE CHARACTERI TITLE/DESCRIPTION		_	T D I F T Y P E	Ū100111100	0 C A T I 0
*GS931108315215.035	OXYGEN STABLE ISOTOPE ANALYSES OF OPAL FROM DRILL HOLES AND OUTCROPS, JUNE 92 - AUG. 92.	 06/01/92-08/31/92	DATA WERE ACQUIRED BY DR. L. KNAUTH OF ARIZONA STATE UNIV. DR. KNAUTH IS AN APPROVED QA VENDOR. DATA ACQUIRED BY STEPWISE FLUORINATION OF OPALINE SILICA TO REMOVE EXTRANEOUS WATER PRIOR TO EXTRACTION OF THE SILICATE OXYGEN.		- · ¥ 1	- P
	ACQN/DEVL LOCATION : ASU, TEMPE, AZ					
*GS931208315215.036	STABLE ISOTOPE COMPOSITION OF SOIL CO2, MARCH 93 - SEPT. 93.	03/01/93-09/30/93	NWM-USGS GCP-23,R0, EXTRACTION OF SOIL GAS CO2 FOR STABLE ISOTOPE ANALYSIS AND GCP-16,R3, CARBONATE CARBON AND OXYGEN STABLE ISOTOPE ANALYSES.	A	YI	₽
	ACQN/DEVL LOCATION : USGS, DENVER, CO					
*GS931208315215.037	ISOTOPIC STUDIES OF YUCCA MOUNTAIN SOIL FLUIDS AND CARBONATE PEDOGENESIS, BY T. MCCONNAUGHEY, K. WICKLAND, AND J. WHELAN.	09/01/93-12/17/93	STUDY OF ISOTOPIC COMPOSITIONS OF SECONDARY MINERALS PRECIPITATED FROM FLUIDS PERCOLATING THROUGH SOILS, FRACTURES, AND FAULTS, AND ORGANISMS LIVING IN THOSE FLUIDS, TO INFER THE ISOTOPIC COMPOSITIONS OF THE PARENT FLUIDS. TO INCREASE ACCURACY OF THIS PROCESS ISOTOPIC COMPOSITIONS OF MODERN SOIL FLUIDS ARE COMPARED, WHERE POSSIBLE, WITH MODERN CARBONATE PRECIPITATES.	D	YI	₽

ACQN/DEVL LOCATION : USGS, DENVER, CO

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TO DUL IAO FLC SITE CHARACTERIZATION PLAN BASELINE IA TFT YII PEO DATA TRACKING NO. TITLE/DESCRIPTION ACON/DEVL PERIOD ACON/DEVL METHOD EDN Activity - 8.3.1.8.5.1.2 *GS931008318512,009 40AR/39AR AGE OF THE LATHROP WELLS 01/01/88~10/31/89 PALEOMAGNETIC AND 40AR/39AR ANALYSES WERE D N P USED TO PRODUCE ISOCHRON AND VOLCANIC CENTER, YUCCA MOUNTAIN, NEVADA, BY BRENT D. TURRIN, DUANE CHAMPION, AND INVERSE-ISOCHRON PLOTS AND IDEOGRAMS SHOWING INTEGRATED PROBABILITY ROBERT J. FLECK DISTRIBUTION OF 40AR/39AR. ACON/DEVL LOCATION : USGS, DENVER, CO the state of the second s a the state of the second s Activity - 8.3.1.9.2.1.1 *GS930908319211.001 NEW RADIOMETRIC AGES RELATED TO 01/01/86-12/31/90 AGE ANALYSIS OF K-AR AND 40AR/39AR DATA DNP AND DESCRIPTION OF THE GEOLOGIC SETTING. ALTERATION AND MINERALIZATION IN THE VICINITY OF YUCCA MOUNTAIN, NYE COUNTY, NEVADA, BY EDWIN H. MCKEE AND JOEL R. an transformer getalog og BERGOUIST. ACON/DEVL LOCATION : USGS, MENLO PARK, CA 的过去时,这些人的问题。 1943年夏夏夏春晨,他是一个人 e see s Activity - 8.3.1.9.2.1.4 *GS931208319214.002 OIL AND GAS EXPLORATION NEAR YUCCA 10/01/92-12/15/93 NON-YMP INFORMATION WAS REVIEWED INCLUDING D N P INFORMATION OBTAINED FROM WILDCAT WELLS MOUNTAIN, SOUTHERN NEVADA, BY J. GROW, DRILLED IN 1991 IN THE AMARGOSA VALLEY, C. BARKER, AND A. HARRIS. CONODONT ALTERATION INDICES, THERMAL MATURITY, AND ORGANIC GEOCHEMICAL ASSESSMENTS, TO COMPARE THE OIL AND GAS POTENTIAL OF YUCCA MOUNTAIN WITH THE PRODUCING AREA IN RAILROAD VALLEY. ACON/DEVL LOCATION : USGS, DENVER, CO 111411 37

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	E 	D 6	-
Activity - 8.3.1.14	.2.2.1					
*SNL02030193001.012	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, 6 UNCONFINED STRENGTH) FOR DRILLHOLE UE25 NRG-5 SAMPLES FROM DEPTH 847.2 FT. TO 896.5 FT.		STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219: "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1.", ASTM STM D2845-90: "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC CONSTANTS OF ROCK."	A '	ΎΕ	2
	ACON/DEVL LOCATION : NER, INC., WHITE RIVE	R JUNCTION, VERMONT				
*SNL02030193001.013	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, UNCONFINED STRENGTH, TENSILE STRENGTH, 4 POROSITY) FOR DRILLHOLE UE25 NRG-2B SAMPLES FROM DEPTH 2.7 FT. TO 87.6 FT.	09/23/93-11/30/93	STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219: "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1.", ASTM STM D3967-92: "SPLITTING TENSILE STRENGTH OF INTACT ROCK CORE SPECIMENS.", ASTM STM D2845-90: "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC ELASTIC CONSTANTS OF ROCK.", & ASTM STM D854-92: "TEST METHOD FOR SPECIFIC GRAVITY OF	A	X F	?

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ACON/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACON/DEVL METHOD	YII PEO EDN
Activity - 8.3.1.14	.2.2.2			
**SNL02030193001.001	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, 6 UNCONFINED STRENGTH) FOR DRILLHOLE USW NRG-6 SAMPLES FROM DEPTH 22.2 FT. TO 328.7 FT.		STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219 "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1."	AYC
nationalista nationalista e ntres References	ACON/DEVL LOCATION : NER INC., WHITE RIVER	JUNCTION, VERMONT		
**SNL02030193001.002	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, UNCONFINED STRENGTH, TRIAXIAL STRENGTH, TENSILE STRENGTH, & AVERAGE GRAIN DENSITY) FOR DRILLHOLE USW NRG-6 SAMPLES FROM DEPTH 22.2 FT TO 427.0 FT. ACQN/DEVL LOCATION : NER INC., WHITE RIVER		STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219 "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1.", ASTM STT D3967-92 "SPLITTING TENSILE STRENGTH OF INTACT ROCK CORE SPECIMENS", ASTM STM D2845-90 "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC ELASTIC CONSTANTS OF ROCK".	
**SNL02030193001.003	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, UNCONFINED STRENGTH, TENSILE STRENGTH, & AVERAGE GRAIN DENSITY) FOR DRILLHOLE UE-25NRG#2 SAMPLES FROM DEPTH 170.4 FT. TO 200.0 FT.	04/01/93-07/07/93	INTACT ROCK CORE SPECIMENS", ASTM STM D2845-90: "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC ELASTIC CONSTANTS OF ROCK".	1. T
	ACON/DEVL LOCATION : NER, INC., WHITE RIVER	JUNCTION, VERMONT		
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SNL02030193001.007 MECHANICAL PROPERTIES DATA (ULTRASONIC DO/18/93-09/20/93 ASIM 52843-90. LADORATORI PULSE VELOCITIES AND VELOCITIES, STATIC ELASTIC PROPERTIES, TRIAXIAL STRENGTH, & AVERAGE GRAIN ULTRASONIC ELASTIC CONSTANTS OF ROCK.", DENSITY) FOR DRILL HOLE UE-25NRG#3
 SAMPLES FROM DEPTH 263.3 FT. TO 265.7 THE STRENGTH OF ROCK MATERIALS IN TRIAXIAL FT.

ACQN/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT

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TO DUL IAO FLC SITE CHARACTERIZATION PLAN BASELINE IΑ TFT YII PEO TITLE/DESCRIPTION ACON/DEVL PERIOD DATA TRACKING NO. ACON/DEVL METHOD EDN _____ *SNL02030193001.008 MECHANICAL PROPERTIES DATA (ULTRASONIC 04/01/93-06/18/93 ASTM STM D2845-90; . "LABORATORY AYC VELOCITIES, STATIC ELASTIC PROPERTIES, DETERMINATION OF PULSE VELOCITIES AND TRIAXIAL STRENGTH, & AVERAGE GRAIN ULTRASONIC ELASTIC CONSTANTS OF ROCK.", ISRM "SUGGESTED METHODS FOR DETERMINING DENSITY) FOR DRILL HOLE USW NRG-6 SAMPLE THE STRENGTH OF ROCK MATERIALS IN TRIAXIAL 416.0 FT. COMPRESSION: REVISED VERSION", 1983 ACON/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT MECHANICAL PROPERTIES DATA (TENSILE 08/13/93-11/04/93 ASTM STM D3967-92: "SPLITTING TENSILE *SNL02030193001.009 AYP STRENGTH OF INTACT ROCK CORE SPECIMENS.", STRENGTH, AVERAGE GRAIN DENSITY, 4 AND ASTM STM D854-92: "TEST METHOD FOR POROSITY) FOR DRILLHOLE UE25 NRG-5 SAMPLES FROM DEPTH 781.0 FT. TO 991.9 SPECIFIC GRAVITY OF SOILS." FT . ACQN/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT n frankrige Martig and the second 09/23/93-11/02/93 ASTM STM D854-92: "TEST METHOD FOR MECHANICAL PROPERTIES DATA (AVERAGE AYP *SNL02030193001.010 SPECIFIC GRAVITY OF SOILS." GRAIN DENSITY) FOR DRILLHOLE UE25 NRG-2B an in dia terepetak SAMPLES FROM DEPTH 2.7 FT. TO 87.6 FT. a station and a second seco ACQN/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT Martin and the state of a second s And the second second second 08/13/93-11/02/93 ASTM STM D854-92: "TEST METHOD FOR *SNL02030193001.011 MECHANICAL PROPERTIES DATA (POROSITY) AYP SPECIFIC GRAVITY OF SOILS." FOR DRILLHOLE UE25 NRG-2A SAMPLES FROM DEPTH 135.3 FT. TO 166.5 FT. يحادث المتحد والمراجع ACON/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT and the second sec a sa katalar and a second ايو ديد دينه و الدين و ورو و مرو و ورو الدين 1 A. 41

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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD		E (D) -	
*SNL02030193001.012	MECHANICAL PROPERTIES DATA (ULTRASONIC VELOCITIES, STATIC ELASTIC PROPERTIES, & UNCONFINED STRENGTH) FOR DRILLHOLE UE25 NRG-5 SAMPLES FROM DEPTH 847.2 FT. TO 896.5 FT.		STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219: "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1.", ASTM STM D2845-90: "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC CONSTANTS OF ROCK."		YI	₽
	ACQN/DEVL LOCATION : NER, INC., WHITE RIVE	ER JUNCTION, VERMONI				
*SNL02030193001.013	VELOCITIES, STATIC ELASTIC PROPERTIES,	09/23/93-11/30/93	STANDARD LABORATORY ROCK MECHANICS PROCEDURES AS PER TP-219: "UNCONFINED COMPRESSION EXPERIMENTS AT 22 DEGREES C AND A STRAIN RATE OF 10E-5 S-1.", ASTM STM D3967-92: "SPLITTING TENSILE STRENGTH OF INTACT ROCK CORE SPECIMENS.", ASTM STM D2845-90: "LABORATORY DETERMINATION OF PULSE VELOCITIES AND ULTRASONIC ELASTIC CONSTANTS OF ROCK.", & ASTM STM D854-92: "TEST METHOD FOR SPECIFIC GRAVITY OF SOILS."		¥ 1	₽

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ACON/DEVL LOCATION : NER, INC., WHITE RIVER JUNCTION, VERMONT

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DATA TRACKING NO.		ACON/DEVL PERIOD			F I E	T I O
Activity - 8.3.1.14	1.2.3				-	-
	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE RF #8.	06/01/93-06/30/93	LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND	, A	N	P
		elie Belling in Bittgrin (A). ∙	INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON TEMSS ROCK STRUCTURE LOGS.			
	ACON/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY	,除此是一次的原因的时候,是是一个人。 不可能的时候,不可能,可能是一次更加,我都能是是是这些人。 我们就是一般的是一次的是,我们的人们也是是不是是我的人们,我们还是不是我们的人,我们就是			
*SNF29041993002.003	PROJECT GEOLOGY AND ROCK STRUCTURE LOG		GEOTECHNICAL CORE LOGGING OF UE25 NRG-1. SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL		¥	P
	FOR DRILLHOLE UE25 NRG-1. A second se	and the second	LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS			
	and and an	5	BASED UPON TAMSS ROCK STRUCTURAL LOGS.			
	ACQN/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY	. Nelle letter in eller Miller (1997) (1997) (1997) (1997) (1997) (1997) Miller (1997) (1997) (1997) (1997) (1997) (1997) (1997)			
···· ·· · · · · · · · · · · · · · · ·	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2A.	08/01/93-08/31/93	GEOTECHNICAL CORE LOGGING OF UE25 NRG-2A. SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL CORE	A	Y	P
in an			LOGGING BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON TAMSS ROCK STRUCTURAL LOGS.	÷.		l.
· · · · · ·	ACON/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACTLITY				
	ACOMPOSAL DOCATION . THE SAMELE MANAGEMENT	FACIDITI	1997年1月1日) 1997年(1997年) 1997年(1997年) 1997年(1997年) 1997年(1997年)			
	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-3.		GEOTECHNICAL CORE LOGGING OF UE25 NRG-3. SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL	λ	Y	P
e e de la contra de la consecuencia. A	FOR DRILLHULE UEZO NRG-3, denastro de la Regelación de la de la del de la degla de la del gelación de la g	ADIA SA SUMPANA SUM	VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON T4MSS ROCK STRUCTURAL LOGS.		,	
n an an Anna an Anna an Anna an Anna an Anna an Anna Anna Anna	ACON/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY		· .		
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DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	P	E D	ō
*SNF29041993002.006	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE USW NRG-6.		GEOTECHNICAL CORE LOGGING OF USW NRG-6. SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON TEMSS ROCK STRUCTURAL LOGS.		Y	P
	ACON/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY				
*SNF29041993002.007	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-5.	08/01/93-08/30/93	GEOTECHNICAL CORE LOGGING OF UE25 NRG-5. PREPARED IN ACCORDANCE WITH SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO REGORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON T4MSS ROCK STRUCTURE LOGS.	A	Y	P
	ACQN/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY AND JFT A	GAPITO			
*SNF29041993002.008	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-4.	10/01/93-10/29/93	GEOTECHNICAL CORE LOGGING OF UE25 NRG-4. PREPARED IN ACCORDANCE WITH SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON T4MSS ROCK STRUCTURE LOGS.	A	Y	P
	ACQN/DEVL LOCATION : YMP SAMPLE MANAGEMENT	FACILITY AND JFT A	GAPITO			

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	SITE CHARACTERIZATION PLAN BASELINE				
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVI, METHOD	YII PEO EDN	
SNF29041993002.009	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CORE HOLE ROCK STRUCTURAL DATA SUMMARY FOR HOLE UE25 NRG-1, UE25 NRG-2, UE25 NRG-2A, UE25 NRG-3, UE25 NRG-4, UE25 NRG-5, USW NRG-6, 6 RF #8.	11/01/93-11/30/93	GEOTECHNICAL CORE LOGGING OF NRG-1, NRG-2, NRG-2A, NRG-3, NRG-4, NRG-5 & NRG-6. PREPARED IN ACCORDANCE WITH SCIENTIFIC NOTEBOOK FOR GEOTECHNICAL LOGGING OF CORE BY EXAMINATION OF CORE AND VIDEO RECORDS FROM NRG HOLES AND INSTRUCTIONS FOR ESTABLISHING QA RECORDS BASED UPON T&MSS DOOR CORDUCTION	DYP	
	ACQN/DEVL LOCATION : J. F. T. AGAPITO		ROCK STRUCTURE LOGS.		
Activity - 8.3.1.15	.1.1.3		n en stande de la construit de la service de la construit de la service de la service de la service de la serv La service de la construit de la service d		
SNL01A05059301.001	THERMAL CONDUCTIVITY DATA FROM USW NRG-6 DRILLHOLE FROM DEPTH OF 28.8 FT. TO		GUARDED-HEAT-FLOW-METER METHOD.	АҮР	
- Made de <u>strag</u> t. Des contre - energies Activity - 8.3.1.15	a management of the second	MASS.	(a) A set of the se	n 1997 - Angel Starter 1997 - Angel Starter	
	THERMAL EXPANSION DATA FROM USW NRG-6 DRILLHOLE FROM DEPTH OF 28.8 FT. TO 416.0 FT.	05/21/93-11/11/93	SINGLE PUSH-ROD DILATOMETER.	AYP	
	ACON/DEVL LOCATION : HOLOMETRIX, BEDFORD,	MASS.			
	n for Marken and Carlon (1997) (1994) (1997) An Angeland (1997) (1997) (1994) (1997) An Angeland (1997) (1997) (1997) (1997) (1997) (1997) An Angeland (1997) (1997) (1997) (1997) (1997) (1997) An Angeland (1997)	t status sana	 Contraction of the second s Second second se		
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	SITE CHARACTER	IZATION PLAN BASELIN	IE	D I F T Y		
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACQN/DEVL METHOD	-	E (D N 	-
Activity - 8.3.1.15	.1.3.1					
**SNSAND80145300.000	SAND80-1453: "ROCK MECHANICS PROPERTIES OF VOLCANIC TUFFS FROM THE NEVADA TEST SITE." NNA.870406.0497	11/01/78-07/01/80	UNIAXIAL AND TRIAXIAL COMPRESSION TEST AT CONSTANT STRAIN-RATE WERE RUN ON SAMPLES OF VOLCANIC TUFF FROM HOLE UE25A#1 AND G-TUNNEL, BOTH LOCATED ON THE NEVADA TEST SITE. TESTING IS ACCOMPLISHED IN A 1.8 GN ULTRA-STIFF, ELECTRO-HYDRAULIC, SERVO-CONTROLLED COMPRESSION TESTING MACHINE. RAM DISPLACEMENT IS USED AS THE PROGRAMMED FEEDBACK VARIABLE. (FOR MORE DETAIL SEE SAND80-1453)		с и	F
	ACON/DEVL LOCATION : SNL					
Activity - 8.3.1.15	.1.4.1					
**SNSAND80145300.000	SAND80-1453: "ROCK MECHANICS PROPERTIES OF VOLCANIC TUFFS FROM THE NEVADA TEST SITE." NNA.870406.0497	11/01/78-07/01/80	UNIAXIAL AND TRIAXIAL COMPRESSION TEST AT CONSTANT STRAIN-RATE WERE RUN ON SAMPLES OF VOLCANIC TUFF FROM HOLE UE25A#1 AND G-TUNNEL, BOTH LOCATED ON THE NEVADA TEST SITE. TESTING IS ACCOMPLISHED IN A 1.8 GN ULTRA-STIFF, ELECTRO-HYDRAULIC, SERVO-CONTROLLED COMPRESSION TESTING MACHINE. RAM DISPLACEMENT IS USED AS THE PROGRAMMED FEEDBACK VARIABLE. (FOR MORE DETAIL SEE SAND80-1453)		Г И	r
	ACON/DEVL LOCATION : SNL					

ACQN/DEVL LOCATION : SNL

	SITE CHARACTER	IZATION PLAN BASELIN	TE	TQ DUL IAO FLC IA TFT
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	Y I I P E O E D N
Activity - 8.3.1.15	.1.8.1		•	
*SNF28021693001.001	QUALITY OF THE NORTH RAMP STARTER TUNNEL. (ROCK MASS CLASSIFICATION USING THE "O" SYSTEM).		PRELIMINARY ROCK MASS QUALITY WAS ASSESSED BASED ON EXAMINATION OF THE TUNNEL USING THE "Q" SYSTEM. (SEE SNL WA-0065 FOR A MORE DETAILED DESCRIPTION).	DAYC
	ACQN/DEVL LOCATION : TOP HEADING OF THE NO	ORTH RAMP STARTER TO	INNEL	
Activity - 8.3.1.16	3.4.1.1.1.1.1. 3.4.1.1.1.1.1.1.			
*GS931183116111.002	NEVADA TEST SITE FLOOD INUNDATION STUDY - PART OF U.S. GEOLOGICAL SURVEY FLOOD POTENTIAL AND DEBRIS HAZARD STUDY, YUCCA MOUNTAIN SITE, BY JAMES O. BLANTON III.	06/07/91-05/24/92	DEVELOPED USING PROBABLE MAXIMUM FLOOD TECHNIQUE AND METHOD DEFINED IN RECLAMATION TECHNICAL PROCEDURE YMP-USBR HP-03, R0, SPECIAL PROCESS FOR DETERMINING WATER SURFACE PROFILES AND FLOOD INUNDATE	DNP D
		and the second second	SURFACE AREAS.	
n an leanna leann a' tha an tha sha sha ta	ACON/DEVL LOCATION : USBR, DENVER, CO			4
*GS931183116111.003	NEVADA TEST SITE PROBABLE MAXIMUM FLOOD STUDY - PART OF U.S. GEOLOGICAL SURVEY FLOOD POTENTIAL AND DEBRIS HAZARD STUDY, YUCCA MOUNTAIN SITE, BY KENNETH L. BULLARD.		DEVELOPED USING PROBABLE MAXIMUM FLOOD TECHNIQUE WHICH COMPLIES WITH ANSI STANDARD FOR DETERMINING DESIGN BASIS FLOODING AT POWER REACTOR SITES.	DNP
	ACON/DEVL LOCATION : USBR, DENVER, CO		and the second secon	1 - 2 - 2
	ACONTRACT RECEIPTION : USER, DENVER, CO	1 mar 1 m te e 1		
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DATA TRACKING NO.	SITE CHARACTERI	ZATION PLAN BASELIN ACQN/DEVL PERIOD	-	_	ŪALIFIE	-0 C A T I 0
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Activity - 8.3.1.17	.4.1.2					
*GS931083117412.002	SGB LOCAL EARTHQUAKE ARCHIVE TAPES Containing data from June 1993 Through September 1993, Tapes L1247 Through L1256.	06/01/93-09/30/93	SP-11,R3, OPERATION AND CALIBRATION OF REMOTE TELEMETERED SEISMIC ARRAY	A	¥	P
	ACQN/DEVL LOCATION : SOUTHERN GREAT BASIN	SEISMIC NETWORK				
*GS931083117412.003	PRELIMINARY SEISMICITY AND FOCAL Mechanisms for the Southern Great Basin Of Nevada and California: January 1992 Through September 1992, by S.C. Harmsen	05/01/93-10/13/93	REDUCTION OF SEISMOGRAMS OBTAINED FROM THE SGBSN USING COMPUTER MODEL HYPO71.	D	Y	P
	ACON/DEVL LOCATION : USGS BELH, GOLDEN, CO		•			
Activity - 8.3.1.17	4.2.1					
*GS930883117421.002	MAPPING AND CHARACTERIZING THE SURFICIAL PROPERTIES OF THE QUATERNARY DEPOSITS OF MIDWAY VALLEY USING AIRPHOTOS AND FIELD RECONNAISSANCE. SUBSURFACE SOIL DATA WERE RECORDED FROM SOIL PITS MWV-P1 THROUGH MWV-P10, MWV-P12 THROUGH MWV-P17, MWV-P19 THROUGH MWV-P26, AND MWV-P28 THROUGH MWV-P31 ON THESE DIFFERENT QUATERNARY DEPOSITS.		PROCEDURE GP-17, R1, DESCRIBING AND SAMPLING SOILS IN THE FIELD, WAS FOLLOWED DESCRIBING AND SAMPLING SOIL TEST PITS. PROCEDURE GP-01, R2, GEOLOGIC MAPPING, WAS FOLLOWED FOR MAPPING GEOLOGICAL DEPOSITS IN MIDWAY VALLEY.	A	¥	₽

ACQN/DEVL LOCATION : N754750(N) E579000(N) ;N780250(N) E596000(N)

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	SITE CHARACTERI	IZATION PLAN BASELIN	NE	TQ DUL IAO FLC IA TFT YII
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD	PEO EDN
Activity - 8.3.1.17	.4.3.2	•		
*GS930783117432.012	COMPILATION OF KNOWN AND SUSPECTED QUATERNARY FAULTS WITHIN 100 KM OF YUCCA MOUNTAIN, BY L.A. PIETY.		COMPILATION OF PUBLISHED LITERATURE AND READILY AVAILABLE DATA.	DNP
GS931083117432.001	ACQN/DEVL LOCATION : USBR, DENVER, COLORAL TOPOGRAPHIC PROFILES OF THE BEATTY SCARP	•	GP-52,R0, TOPOGRAPHIC PROFILING OF GEOMORPHIC FEATURES FIELD MEASUREMENT	АУР
	ACQN/DEVL LOCATION : 36 48'00"N 116 45'00"	W ;36 52'30"N 116 4	12'00"W	
Activity - 8.3.1.17	.4.5.2.4			•
*G5931283117452.005	CEOLOGIC MAPPING IN CRATER FLAT. IN AND	03/14/93-05/15/93	TECHNICAL PROCEDURE GP-01, R2, GEOLOGIC MAPPING.	A Y P
	ACON/DEVL LOCATION : 36 52'30"N 116 37'30'	W ; 37 00'00"N 116 3	30° 00"W	· ·
*GS931283117452.006	GEOLOGIC MAP OF THE EAST OF BEATTY MOUNTAIN 7.5 MINUTE QUADRANGLE, NYE COUNTY, NEVADA, BY C.J. FRIDRICH, P.P. ORKILD, M. MURRAY, J.R. PRICE, R.L. CHRISTIANSEN, P.W. LIPMAN, W.J. CARR, W.D. QUINLIVAN, AND R.B. SCOTT.		USGS GP-01,R2, GEOLOGIC MAPPING	DYP
	ACON/DEVL LOCATION : USGS, DENVER, CO			
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	SITE CHARACTER	ZATION PLAN BASELIN	IE	TQ DUL IAO FLC IA TFT
DATA TRACKING NO.	TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD '	
Activity - 8.3.1.17	.4.6.1			
*GS931183117461.003	GEOLOGIC MAPPING AND FIELD OBSERVATIONS PERTAINING TO QUATERNARY FAULTING	03/29/91-07/22/93	THE DATA WERE COLLECTED UNDER NWM-USGS GP-01,R1 AND R2, GEOLOGIC MAPPING.	АУР
	ACQN/DEVL LOCATION : 36 41'15"N 116 33'45' 36 56'15"N 116 22'30'			
*GS931183117461.004	PRELIMINARY QUATERNARY FAULT MAP OF THE YUCCA MOUNTAIN REGION, BY F. SIMONDS, J. WHITNEY, K. FOX, A. RAMELLI, J. YOUNT, M. CARR, C. MENGES, R. DICKERSON AND R. SCOTT.		MAP WAS PLOTTED FROM THE INFORMATION OBTAINED THROUGH FIELD OBSERVATIONS.	DYP
	ACON/DEVL LOCATION : USGS, DENVER, CO			
Activity - 8.3.1.17	.4.6.2			
*G5931283117462.006	PRELIMINARY TRENCH LOG, AND ACCOMPANYING DESCRIPTIONS AND DATA SHEETS FOR LITHOLOGIC UNITS, SOILS. AND DEFORMATION, FOR TRENCHES SCR-T1 AND SCR-T3 (PARTS OF BOTH NORTH AND SOUTH WALLS IN EACH TRENCH). LOGS AND DATA PREPARED BY C. MENGES, J. OSWALD AND J. COE. EACH LOG INCLUDES CEILING MAPPED PHOTOGRAMMETRICALLY AND MANUALLY (WITH CONVENTIONAL METHOD).		TECHNICAL PROCEDURE NWM-USGS GP-07, R1, CONVENTIONAL GEOLOGIC MAPPING OF TRENCH WALLS, AND TECHNICAL PROCEDURES NWM-USGS GP-39, R0, GEOPHOTOGRAMMETRIC MAPPING OF TRENCH WALLS: FIELDWORK; AND NWM-USGS GP-40, R0, GEOPHOTOGRAMMETRIC MAPPING OF TRENCH WALLS - LABORATORY METHODS.	АУР
	ACQN/DEVL LOCATION : N718620(N) E556680(N) N721790(N) E559700(N)	1		

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TO DUL IAO FLC SITE CHARACTERIZATION PLAN BASELINE IA TFT YII PEO DATA TRACKING NO. TITLE/DESCRIPTION ACON/DEVL PERIOD ACON/DEVL METHOD EDN *GS931283117462.007 U-TH ISOTOPIC DATA FOR U-SERIES 11/01/93-12/15/93 YMP-USGS GCP-03, R2, U-SERIES DATING AYP DISEQUILIBRIUM DATING OF PEDOGENIC CARBONATE ASSOCIATED WITH OUATERNARY FAULTING ON THE EAST SIDE OF YUCCA MOUNTAIN, DATA INCLUDE SAMPLE AND SPIKE WEIGHTS, AND CUMULATIVE ALPHA DECAY COUNTS FOR 238U, 236U, 232TH, 230TH, AND 229TH AS WELL AS CALCULATED U AND TH CONCENTRATIONS, ACTIVITY RATIOS AND CORRELATION COEFFICIENTS. ACON/DEVI LOCATION : USGS U-SERIES LABS, DENVER, CO *GS931283117462.008 AGE CALCULATED FROM ACQUIRED U-TH 11/01/93-12/15/93 230TH/238U CALCULATIONS DETERMINED BY DYP ISOTOPIC DATA. MIXING LINE REGRESSION USING MAXIMUM LIKELIHOOD ESTIMATION ALGORITHMS (LUDWIG ·新闻建筑,美国新生素和新生活的生活,中国省中国人民的大学和大学和中国中国人 AND TITTERINGTON, MAXIMUM LIKELIHOOD ESTIMATION OF U-TH ERRORS, IN REVIEW FOR PUB. IN GROCHEMICA ET COSMOCHEMICA ACTA) See 1. 38 Jan Langer ACQN/DEVL LOCATION : USGS U-SERIES LABS, DENVER, CO 1. 1. 1. 1. 1. Activity - 8.3.1.17.4;7:1 الراجي العالم والالالي المتعالي المنافع الم THANK I. 06/06/89-06/21/91 ANALYTICAL AND INTERPRETIVE METHODS BASED D N P **GS920283117471.004 COMPARISON OF VIBROSEIS AND EXPLOSIVE ON THE AUTHORS' COMBINED EDUCATION AND SOURCE METHODS FOR DEEP CRUSTAL SEISMIC WORK EXPERIENCES WERE USED TO DEVELOP THIS REFLECTION PROFILING IN THE BASIN AND RANGE PROVINCE, BY T.M. BROCHER AND P.E. ARTICLE HART. 12.0 1. 1. 1. 1. 1. ACON/DEVL LOCATION : USGS, MENLO PARK, CA ni tri shi bi and the second A second s 51

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	SITE CHARACTERI	ZATION PLAN BASELIN	E	T Y	I J F 1 I J	A F I
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD		E (D N 	
Activity - 8.3.1.17	.4.10.2					
*G893103 11 74102.001	STRAIN ACCUMULATION NEAR YUCCA MOUNTAIN, Nevada, 1983 - 1993, by J.C. Savage, M. Lisowski, W.K. Gross, N.E. King, And J.L. Svarc.	07/01/93-07/30/93	DATA WERE DEVELOPED ACCORDING TO THE AUTHORS' EDUCATIONAL AND TECHNICAL EXPERIENCE.	D	NE	>
	ACQN/DEVL LOCATION : USGS, MENLO PARK, CA					
	SURVEY OF DEFORMATION OF 50-KM-APERTURE TRILATERATION NETWORK USING A GEODOLITE, CENTERED ON YUCCA MOUNTAIN, 1983-1984.		THE PROCEDURES USED AND THE ACCURACY ATTAINED FOR THESE SURVEYS ARE DESCRIBED IN SAVAGE AND PRESCOTT (1973), PRECISION OF GEODOLITE DISTANCE MEASUREMENTS FOR DETERMINING FAULT MOVEMENTS, J. GEOPHYS. RES., 78, 6001-6008.	A	NE	>
	ACQN/DEVL LOCATION : USGS, MENLO PARK, CA					
*GS931031174102.003	SURVEY OF DEFORMATION OF 50-KM-APERTURE TRILATERATION NETWORK USING GPS AND A GEODOLITE, CENTERED ON YUCCA MOUNTAIN, 1993	04/01/93-05/30/93	TECHNICAL PROCEDURE NWM-USGS GP-43,R0, GEODETIC TRILATERATION AND GLOBAL POSITIONING SYSTEM (GPS) SURVEYS.	A	YE	>
	ACQN/DEVL LOCATION : USGS, MENLO PARK, CA					

	SITE CHARACTER	IZATION PLAN BASELIN	NE	TQL IQL IAOFLC TFIA TFII PEO
DATA TRACKING NO.	. TITLE/DESCRIPTION	ACON/DEVL PERIOD	ACQN/DEVL METHOD	E D N
Activity - 8.3.2	.4.1.1			
*SNSAND92185300.00	00 SAND92-1853: "EFFECT OF BOUNDARY CONDITIONS ON THE STRENGTH AND DEFORMABILITY OF REPLICAS OF NATURAL FRACTURES IN WELDED TUFF: DATA REPORT"	06/19/92-08/01/93	EP-44, "NORMAL COMPRESSION AND SHEAR TESTS ON ROCK JOINTS." FOUR SERIES OF CYCLIC DIRECT-SHEAR EXPERIMENTS WERE CONDUCTED ON SEVERAL REPLICAS OF THREE NATURAL FRACTURES AND A TENSILE FRACTURE OF WELDEL TUFF FROM YUCCA MOUNTAIN. OBJECTIVE WAS TO EXAMINE THE EFFECT OF CYCLIC LOADING ON	n D
	<pre>Antipaction = Programmed and Antipaction and Antipaction Antipaction and Antipaction Antipaction and Antipaction and Antipaction Antipaction and Antipaction and Antipaction Antipaction and Antipaction Antipaction and Antipaction Antipaction Antipaction and Antipaction Antipact</pre>		JOINT SHEAR BEHAVIOR UNDER DIFFERENT BOUNDARY CONDITIONS. SHEAR TESTS WERE PERFORMED UNDER EITHER DIFFERENT LEVELS OF CONSTANT NORMAL LOAD RANGING BETWEEN 0.6 AND 25.6 KIPS OR CONSTANT NORMAL STIFFNESS RANGING BETWEEN 14.8 AND 187.5 KIPS/IN.	
			(FOR MORE DETAIL SEE SAND92-1853)	
•	ACQN/DEVL LOCATION : UNIVERSITY OF COLORAD	DO AT BOULDER	a di kalan ang kana ta sing kang kana kana kana kana kang kana a	
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	and the second	·		
1997年1月1日(1997年) 1997年(1997年) 1997年(1997年)		tin in de Mirton (exc	en de la companya de La companya de la comp En la companya de la c	
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DATA TRACKING NO. TITLE/DESCRIPTION ACQN/DEVL PERIOD ACQN/DEVL METHOD E		
*SNF30050393001.002 SNL NORTH RAMP STARTER TUNNEL ROCK-MASS 06/01/93-09/30/93 MAKE DISPLACEMENT MEASUREMENTS USING A A MONITORING DATA: PLOTS OF DRIFT CONVERGENCE AND CONVERGENCE RATE FOR ESF STARTER TUNNEL; AND PLOTS OF ROCK BOLT LOAD CELLS.	NC	C
ACON/DEVL LOCATION : NEVADA TEST SITE-NORTH PORTAL/ESF STARTER TUNNEL		
*SNL12011393001.003 NICKEL SORPTION ONTO DIFFERENT 03/26/93-09/20/93 DATA OBTAINED BY BATCH SORPTION METHODS; A SUBSTRATE. SUBSTRATES USED WERE WEDRON NICKEL ANAYLZED BY ATOMIC ABSORPTION; DATA 510 SAND, SYNTHETIC GOETHITE, AND REDUCED USING EXCEL SPREAD SHEET. ACID-WASHED MIN-U-SIL QUARTZ.	N I	8
ACQN/DEVL LOCATION : SNL, ALBUQUERQUE, NM		
*SNL12072193001.001 NOTEBOOK MIT-SAND-AC-6869-1 IN SUPPORT 12/01/92-10/01/93 UNSATURATED SORPTION MEASUREMENTS USING A OF "DEVELOPMENT OF METHODS TO EVALUATE URANIUM DISTRIBUTION COEFFICIENTS IN UNSATURATED MEDIA". 12/01/92-10/01/93 UNSATURATED SORPTION MEASUREMENTS USING A TURBULA MIXER, ANALYSIS BY ICP.	ИІ	₽
ACQN/DEVL LOCATION : MIT, CAMBRIDGE, MASS.		

	SOCIOEC	ONOMIC PLAN		D I	Q U A L I	L O
DATA TRACKING NO.	TITLE/DESCRIPTION	ACQN/DEVL PERIOD	ACON/DEVL METHOD	Y P	FIED	T I O
*TM00121361T1DB.005	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT SOCIOECONOMIC MONITORING PROGRAM 1993 EMPLOYEE SURVEY DATA REPORT, STATE 6 COUNTY DATA, SEPTEMBER 1993	01/01/93-09/30/93	MONITORING OF YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CHARACTERISTICS AS DESCRIBED IN REVISION 0 OF THE SOCIOECONOMIC PLAN	A	Y	с
	ACQN/DEVL LOCATION : TEMSS					
*TM00121361T1EB.001	YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT SOCIOECONOMIC MONITORING PROGRAM QUARTERLY EMPLOYMENT DATA REPORT, JULY 1993 THROUGH SEPTEMBER 1993	07/01/93-09/30/93	MONITORING OF YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CHARACTERISTICS AS DESCRIBED IN REVISION 0 OF THE SOCIOECONOMIC PLAN	А	Y	P
:	ACON/DEVL LOCATION : TEMSS					•

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APPENDIX A

SITE CHARACTE	RIZATION PROGRAM BASELINE ACTIVITY NUMBERS AND NAMES
ACTIVITY NO.	ACTIVITY NAME
8.3.1.2.1.1.1	Precipitation and meteorological monitoring
8.3.1.2.1.2.1	Surface-water runoff monitoring
8.3.1.2.1.2.2	Transport of debris by severe runoff
8.3.1.2.1.3.1	Assessment of the regional hydrogeologic data needs in the saturated zones
8.3.1.2.1.3.2	Regional potentiometric-level distribution and hydrogeologic framework studies
8.3.1.2.1.3.3	Fortymile Wash recharge study
8.3.1.2.1.3.4	Evapotranspiration studies
8.3.1.2.1.4.1	Conceptualization of regional hydrologic flow models
8.3.1.2.1.4.2	Subregional two-dimensional area hydrologic modeling
8.3.1.2.2.1.1	Characterization of hydrological properties of surficial materials
8.3.1.2.2.1.2	Evaluation of natural infiltration
8.3.1.2.2.2.1	Chloride and chlorine-36 measurements of percolation at Yucca Mountain
8.3.1.2.2.3.1	Matrix hydrologic properties testing
8.3.1.2.2.3.2	Site vertical borehole studies
8.3.1.2.2.4.2	Percolation tests in the Exploratory Studies Facility
8.3.1.2.2.4.8	Hydrochemistry tests in the Exploratory Studies Facility
8.3.1.2.2.4.9	Multipurpose-borehole testing
8.3.1.2.2.6.1	Gaseous-phase circulation study

ACTIVITY NO.	ACTIVITY NAME
8.3.1.2.2.7.1	Gaseous - phase chemical investigations
8.3.1.2.2.7.2	Aqueous-phase chemical investigations
8.3.1.2.2.8.1	Development of conceptual and numerical models of fluid flow in unsaturated, fractured rock
8.3.1.2.2.9.1	Conceptualization of the unsaturated-zone hydrogeologic system
8.3.1.2.2.9.3	Simulation of the natural hydrogeologic system
8.3.1.2.3.1.2	Site potentiometric-level evaluation
8.3.1.2.3.1.3	Analysis of single- and multiple-well hydraulic-stress tests
8.3.1.2.3.1.4	Multiple-well interference testing
8.3.1.2.3.1.6	Well testing with conservative tracers throughout the site
8.3.1.2.3.1.7	Testing of the C-hole sites with conservative tracers
8.3.1.2.3.2.1	Assessment of saturated-zone hydrochemical data availability and needs
8.3.1.2.3.2.2	Hydrochemical characterization of water in the upper part of the saturated zone
8.3.1.2.3.2.3	Regional hydrochemical tests and analyses
8.3.1.2.3.3.1	Conceptualization of saturated-zone flow models within the boundaries of the accessible environment
8.3.1.2.3.3.2	Development of fracture network model
8.3.1.3.1.1	Ground-water chemistry model
8.3.1.3.2.1	Mineralogy, petrology, and chemistry of transport pathways
8.3.1.3.2.1.1	Petrologic stratigraphy of the Topopah Spring Member

ACTIVITY NO.	ACTIVITY NAME
8.3.1.3.2.1.2	Mineral distributions between the host rock and the accessible environment
8.3.1.3.2.1.3	Fracture mineralogy
8.3.1.3.2.2.1	History of mineralogic and geochemical alteration of Yucca Mountain
8.3.1.3.2.2.2	Smectite, zeolite, manganese minerals, glass dehydration, and transformation
8.3.1.3.4.1	Batch sorption studies
8.3.1.3.4.1.1	Batch sorption measurements as a function of solid phase composition
8.3.1.3.4.2	Biological sorption and transport
8.3.1.3.5.1.1	Solubility measurements
8.3.1.3.6.1.1	Crushed tuff column experiments
8.3.1.3.6.2.1	Uptake of radionuclides on rock beakers in a saturated system
8.3.1.3.6.2.2	Diffusion through a saturated tuff slab
8.3.1.4.1.2	Integration of geophysical activities
8.3.1.4.2.1.1	Surface and subsurface stratigraphic studies of the host rock and surrounding units
8.3.1.4.2.1.2	Surface-based geophysical surveys
8.3.1.4.2.1.3	Borehole geophysical surveys
8.3.1.4.2.1.4	Petrophysical properties testing
8.3.1.4.2.1.5	Magnetic properties and stratigraphic correlations
8.3.1.4.2.1.6	Integration of geophysical activities
8.3.1.4.2.2	Characterization of the structural features within the site area
8.3.1.4.2.2.1	Geologic mapping of zonal features in the Paintbrush Tuff

ACTIVITY NO.	ACTIVITY NAME
8.3.1.4.2.2.2	Surface-fracture network studies
8.3.1.4.2.2.3	Borehole evaluation of faults and fractures
8.3.1.4.2.2.4	Geologic mapping of the Exploratory Studies Facility
8.3.1.4.2.2.5	Seismic tomography/vertical seismic profiling
8.3.1.4.2.3.1	Development of a three-dimensional geologic model of the site area
8.3.1.4.3.1	Systematic acquisition of site-specific subsurface information
8.3.1.4.3.1.1	Systematic drilling program
8.3.1.5.1.1.1	Synoptic characterization of regional climate
8.3.1.5.1.2.1	Paleontologic analyses
8.3.1.5.1.2.2	Analysis of the stratigraphy-sedimentology of marsh lacustrine, and playa deposits
8.3.1.5.1.3.1	Analysis of pack rat middens
8.3.1.5.1.3.3	Determination of vegetation-climate relationships
8.3.1.5.1.4.1	Modeling of soil properties in the Yucca Mountain region
8.3.1.5.1.4.2	Surficial deposits mapping of the Yucca Mountain area
8.3.1.5.1.4.3	Eolian history of the Yucca Mountain region
8.3.1.5.1.5.1	Paleoclimate-paleoenvironmental synthesis
8.3.1.5.2.1.1	Regional paleoflood evaluation
8.3.1.5.2.1.2	Quaternary unsaturated zone hydrochemical analysis
8.3.1.5.2.1.3	Evaluation of past discharge areas
8.3.1.5.2.1.4	Analog recharge studies

ACTIVITY NO.	ACTIVITY NAME
8.3.1.5.2.1.5	Studies of calcite and opaline silica vein deposits
8.3.1.6.1.1.1	Development of a geomorphic map of Yucca Mountain
8.3.1.6.1.1.2	Analysis of the downcutting history of Fortymile Wash and its tributaries
8.3.1.6.1.1.3	An analysis of hillslope erosion at Yucca Mountain
8.3.1.6.2.1.1	Synthesis and data evaluation of impact of future climatic conditions on locations and rates of erosion
8.3.1.6.3.1.1	Synthesis and data evaluation of the impact of future uplift or subsidence and faulting on erosion at Yucca Mountain and vicinity
8.3.1.8.1.1.3	Presence of magma bodies in the vicinity of the site
8.3.1.8.1.2.1	Eruptive effects
8.3.1.8.3.2.2	Assessment of the effects of igneous intrusions on water-table elevations
8.3.1.8.3.2.5	Effects of faulting on water-table elevation
8.3.1.8.5.1.2	Geochronology studies
8.3.1.8.5.1.3	Field geologic studies
8.3.1.8.5.1.4	Geochemistry of scoria sequences
8.3.1.8.5.1.5	Geochemical cycles of basaltic volcanic fields
• .	Evaluation of depth of curie temperature isotherm
8.3.1.8.5.2.3	Heat flow at Yucca Mountain and evaluation of regional ambient heat flow and local heat flow anomalies
8.3.1.9.2.1.1	
8.3.1.9.2.1.4	Assessment of hydrocarbon resources at and near the site

ACTIVITY NO.

ACTIVITY NAME

- 8.3.1.9.2.2.1 Projected trends in local and regional groundwater development, and estimated withdrawal rates in southern Nevada, proximal to Yucca Mountain
- 8.3.1.12.2.1.1 Site meteorological monitoring program
- 8.3.1.14.2.1.1 Site reconnaissance
- 8.3.1.14.2.1.2 Preliminary and detailed exploration
- 8.3.1.14.2.2.1 Physical property and index laboratory tests
- 8.3.1.14.2.2.2 Mechanical and dynamic laboratory property tests
- 8.3.1.14.2.3 Field tests and characterization measurements
- 8.3.1.14.2.3.1 Physical property field tests and characterization measurements
- 8.3.1.14.2.3.2 Mechanical property field tests
- 8.3.1.14.2.3.3 Geophysical field measurements
- 8.3.1.15.1.1.1 Density and porosity characterization
- 8.3.1.15.1.1.3 Thermal conductivity characterization
- 8.3.1.15.1.2.1 Thermal expansion characterization
- 8.3.1.15.1.3 Laboratory determination of mechanical properties of intact rock
- 8.3.1.15.1.3.1 Compressive mechanical properties of intact rock at baseline experiment conditions
- 8.3.1.15.1.3.2 Effects of variable environmental conditions on mechanical properties
- 8.3.1.15.1.4 Laboratory determination of the mechanical properties of fractures
- 8.3.1.15.1.7.1 Plate loading tests
- 8.3.1.15.1.8.1 Evaluation of mining methods
- 8.3.1.15.2.1.2 Overcore stress experiments in the exploratory studies facility

ACTIVITY NO.	ACTIVITY NAME
8.3.1.15.2.2.1	Surface-based evaluation of ambient thermal conditions
8.3.1.16.1.1.1	Site flood and debris hazards studies
8.3.1.16.2.1.4	Identification and evaluation of potential effects of repository related withdrawals on the local flow system at Yucca Mountain, Nevada
8.3.1.17.2.1.2	Assess the potential for displacement on faults that intersect underground facilities
8.3.1.17.3.3.2	Select or develop empirical models for ground motion from underground nuclear explosions
8.3.1.17.3.5.1	Identify controlling seismic events
8.3.1.17.3.5.2	Characterize ground motion from the controlling seismic events
8.3.1.17.3.6.2	Evaluate ground motion probabilities
8.3.1.17.4.1.1	Compile historical earthquake record
8.3.1.17.4.1.2	Monitor current seismicity
8.3.1.17.4.1.3	Evaluate potential for induced seismicity at the site
8.3.1.17.4.2	Location and recency of faulting near prospective surface facilities
8.3.1.17.4.2.1	Identify appropriate trench locations in Midway Valley
8.3.1.17.4.3.1	Conduct and evaluate deep geophysical surveys in an east-west transect crossing the Furnace Creek fault zone, Yucca Mountain, and the Walker Lane
8.3.1.17.4.3.2	Evaluate Quaternary faults within 100 km of Yucca Mountain
8.3.1.17.4.3.4	Evaluate the Bare Mountain fault zone
8.3.1.17.4.3.5	Evaluate structural domains and characterize the Yucca Mountain region with respect to regional patterns of faults and fractures

ACTIVITY NO. ACTIVITY NAME 8.3.1.17.4.4.1 Evaluate the Rock Valley fault system 8.3.1.17.4.5.1 Evaluate the significance of the Miocene-Paleozoic contact in the Calico Hills area to detachment faulting within the site area 8.3.1.17.4.5.2 Evaluate postulated detachment faults in the Beatty-Bare Mountain area 8.3.1.17.4.6.1 Evaluate Quaternary geology and potential Quaternary faults at Yucca Mountain 8.3.1.17.4.6.2 Evaluate age and recurrence of movement on suspected and known Quaternary faults 8.3.1.17.4.7.1 Evaluate intermediate depth (2 to 3 km) reflection and refraction methods and plan potential application of these methods within the site area 8.3.1.17.4.7.2 Detailed gravity survey of the site area 8.3.1.17.4.7.3 Detailed aeromagnetic survey of the site area 8.3.1.17.4.7.4 Detailed ground magnetic survey of specific features within the site area 8.3.1.17.4.7.5 Evaluate surface geoelectric methods and plan potential application of these methods within the site area 8.3.1.17.4.7.8 Evaluate shallow seismic reflection (mini-sosie) methods and, if appropriate, conduct surveys of selected structures at and proximal to the site area 8.3.1.17.4.8.1 Evaluate present stress field within site area 8.3.1.17.4.8.2 Evaluate and test shallow borehole hydrofrac and triaxial strain recovery methods for the determination of in situ stress and, if appropriate, plan potential application of these methods within and proximal to the site 8.3.1.17.4.9.1 Evaluate age and extent of tectonically stable areas at and near Yucca Mountain 8.3.1.17.4.10.1 Relevel base-station network, Yucca Mountain and vicinity

ACTIVITY NO.	ACTIVITY NAME
8.3.1.17.4.10.	2 Survey selected base stations, Yucca Mountain and vicinity, using global positioning satellite
8.3.1.17.4.10.	3 Analyze existing releveling data, Yucca Mountain and vicinity
8.3.1.17.4.12.	1 Evaluate tectonic processes and tectonic stability at the site
8.3.2.4.1.1	Design activity to verify access and drift usability
8.3.5.4.1.1	Refinement of site data parameters required for Issue 2.2
8.3.5.12.1.1	Application of results
8.3.5.10.2.1	Characterization of the spent fuel waste form
8.3.5.10.2.2	Characterization of the glass waste form
8.3.5.10.3.2	Develop geochemical speciation and reaction model
8.3.5.10.5.1	Determine radionuclide transport parameters
8.3.5.10.5.2	Radionuclide transport modeling in the near-field waste package environment
8.3.5.12.2.1	Model development
8.3.5.12.2.1.1	Development of a theoretical framework for calculational models
8.3.5.12.2.2	Verification and validation

APPENDIX B

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GEOLOGIC AND ENGINEERING MATERIALS: BIBLIOGRAPHY OF CHEMICAL SPECIES (GEMBOCHS) SPECIES AND DATA TYPES

COMPOSITIONAL DATA FOR MINERALS, GASES, OR AQUEOUS SPECIES

Elemental Composition

REACTION DATA FOR AQUEOUS DISSOCIATION OF MINERALS, GASES, OR AQUEOUS SPECIES

Reaction Stoichiometry Equilibrium Constants Pressure, Temperature Conditions Standard Molal Gibbs Free Energies of Reaction Standard Molal Enthalpies of Reaction Standard Molal Entropies of Reaction Standard Molal Volumes of Reaction Standard Molal Heat Capacities of Reaction Parameter Units Literature References

THERMODYNAMIC DATA FOR MINERALS

Standard Molal Gibbs Free Energy of Formation
Standard Molal Enthalpy of Formation
Standard Molal Entropy at Reference Pressure (Pr) and
Temperature (Tr)
Standard Molal Volume at Pr, Tr
Standard Molal Heat Capacity at Pr, Tr
Molecular Weight
Heat Capacity Coefficients
Temperature Limits on Heat Capacity Coefficients
Standard Molal Enthalpy of Transition
Standard Molal Entropy of Transition
Standard Molal Volume of Transition
Clapeyron Slope
Parameter Units
Literature References

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THERMODYNAMIC DATA FOR GASES

Standard Molal Gibbs Free Energy of Formation Standard Molal Enthalpy of Formation Standard Molal Entropy at Pr, Tr Standard Molal Volume at Pr, Tr Standard Molal Heat Capacity at Pr, Tr Molecular Weight Heat Capacity Coefficients Temperature Limits on Heat Capacity Coefficients Parameter Units Literature References

THERMODYNAMIC DATA FOR AQUEOUS SPECIES

Standard Molal Gibbs Free Energy of Formation Standard Molal Enthalpy of Formation Standard Molal Entropy at Pr, Tr Standard Molal Volume at Pr, Tr Standard Molal Heat Capacity at Pr, Tr Molecular Weight Equation-of-State Coefficients Debye-Huckel Parameters Ionic Charge Electronic Entropy Parameter Units Literature References

APPENDIX C

GEMBOCHS MODIFICATIONS AND ADDITIONS: 1st QUARTER, FY 1994

During the first quarter of FY 1994, several important additions and modifications were made to the GEMBOCHS thermodynamic data base, and significant progress was realized in developing the next-generation GEMBOCHS software library.

Recent updates to the data base itself have focused on improving its flexibility with regard to representing organic systems, and enhancing its breadth to provide improved representation of actinide-bearing systems. These updates include:

- Complete revision of the set of basis and auxiliary-basis carbon, nitrogen, and sulfur species used to represent aqueous dissociation of organic compounds and aqueous species. This update has improved significantly the accuracy and flexibility of EQ3/6 speciation and mass transfer models of organic and inorganic/organic systems.
 - Initiation of a reconnaissance and review of recently published thermodynamic data for Technetium, Neptunium, Plutonium, and Americium species. As needed and where appropriate, these data are being used to augment those already in GEMBOCHS until publication of the NEA-TDB critical reviews of the chemical thermodynamics of these species. (These reviews, which will appear as separate volumes in the series begun by the corresponding Uranium compilation [Grenthe et al., 1992], are in progress, but even the most advanced of these is unlikely to reach publication before 1996.) During the first quarter of FY 1994, an extensive literature search was initiated, and aqueous dissociation constants reported by Palmer, Silva, and Miller (1992) for approximately 300 aqueous Np, Pu, and Am complexes were incorporated.
- Incorporation of additional thermodynamic data for antimony compounds and aqueous species, reported from a variety of literature sources. This update improves considerably the ability to represent the thermodynamic behavior of antimony-bearing systems.

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Recent work on the GEMBOCHS software library has focused on developing mouse-driven (Ingres Windows/4GL) application codes that will-ultimately replace the existing function-key-driven (FORTRAN77-EQUEL) analogs, facet and jewel, which represent the two fundamental user interfaces with GEMBOCHS data. In addition, the entire GEMBOCHS system is currently being ported to an upgraded hardware platform. Specifically, this included:

 Continuing the development of a Windows/4GL version of jewel. In essence, this program interfaces user

specifications, GEMBOCHS data, and various thermodynamic extrapolation algorithms to facilitate point-and-click generation of customized thermodynamic data files on the basis of preexisting data sets, species subsets, or bulk composition of the chemical system to be modeled. During the first quarter of FY 1994, continued local use of and numerous refinements to the program rendered its predecessor (the function-key driven version) nearly obsolete. During the second quarter of FY 1994, the user's manual will be completed, and the mouse-driven *jewel* will be used exclusively.

- Initiating the development of a Window/4GL version of facet. This program facilitates point-and-click review, revision, deletion, and addition of GEMBOCHS data. During the first quarter of FY 1994, most top-level routines (and many primitives) were completed, as was a significant amount of testing.
- Initiating the transfer of the GEMBOCHS data base and software library from its dedicated Sun SPARCstation2 to a new dedicated SPARCstation10/41. This hardware upgrade will result in dramatically improved performance for each data base and software module of the GEMBOCHS system. During December 1993, the new SPARC10/41 was_set-up and Ingres 6.4104, jewel, facet, and cngbochs were all ported to this platform.

APPENDIX D

GENISES ADDITIONS: 1st QUARTER, FY 1994

DATA TRACKING NO.	DATA ITEM DESCRIPTION
LA00000000053.001	ACTINIDE (IV) AND ACTINIDE (VI) CARBONATE SPECIATION STUDIES BY PAS AND NMR SPECTROSCOPIES
LA00000000023.002	MINERALOGY AND CLINOPTILOLITE K/AR RESULTS FROM YUCCA MOUNTAIN, NEVADA, USA: A POTENTIAL HIGH-LEVEL RADIOACTIVE WASTE REPOSITORY SITE
SNSAND80145300.000	ROCK MECHANICS PROPERTIES OF VOLCANIC TUFFS FROM THE NEVADA TEST SITE
LA00000000017.002	DEHYDRATION AND REHYDRATION OF A TUFF VITROPHYRE
LA00000000034.002	DIFFUSION OF SORBING AND NON-SORBING RADIONUCLIDES