

CROW BUTTE  
RESOURCES, INC.

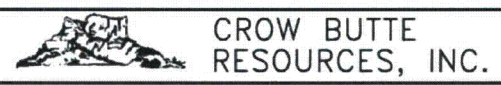
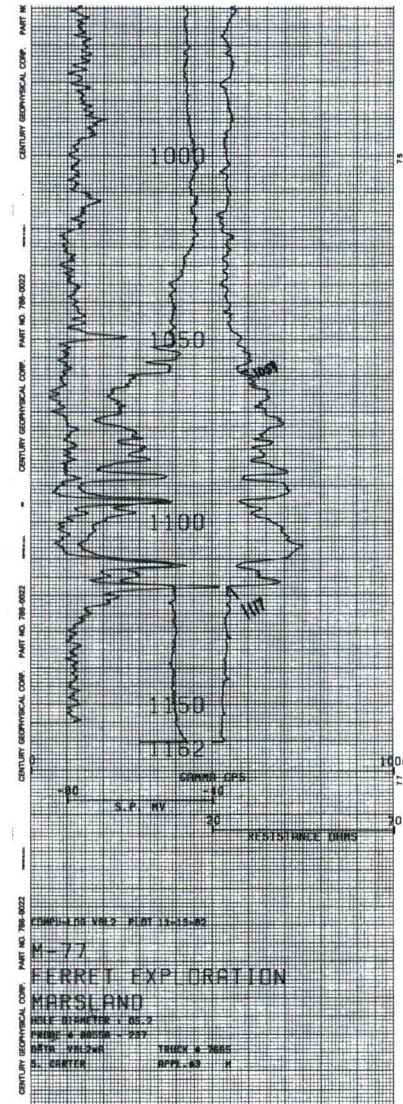
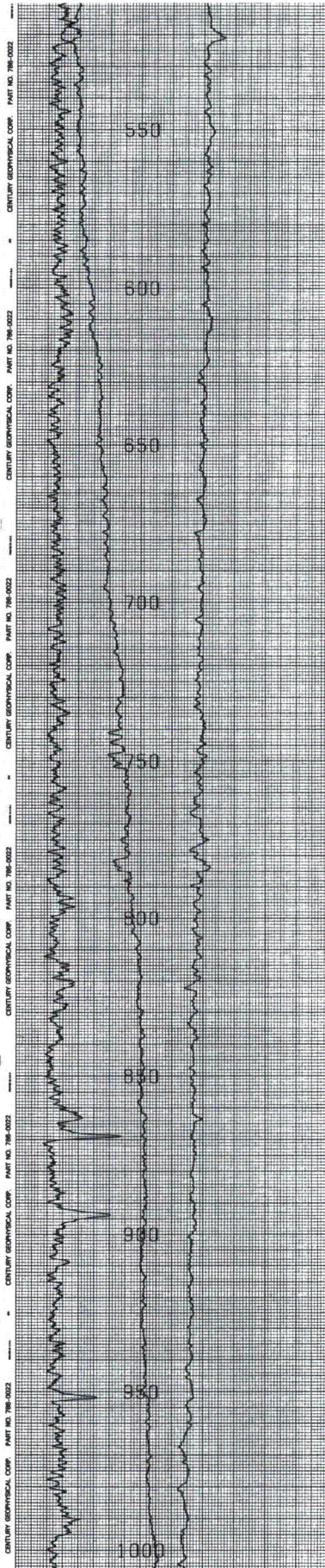
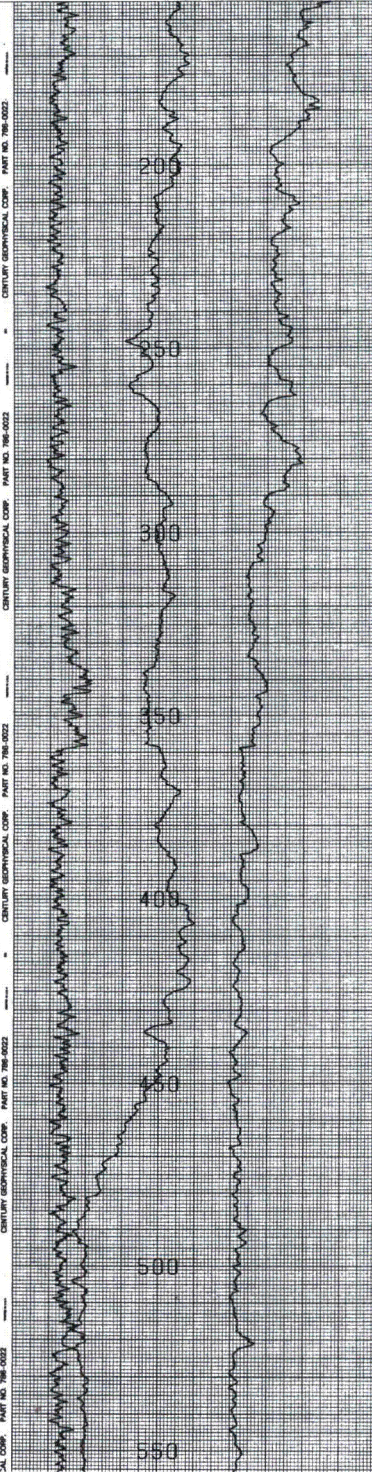
LOG M-74



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

3-D1 L76  
CENTURY GEOPHYSICAL CORPORATION  
M-77  
11/13/82  
11/13/82  
E 1117875  
FERRET EXPLORATION  
M-77  
MARSLAND  
DAKES  
51W  
HOLE DATA  
HOLE NO. 1100-3050  
GAIN 200  
SP 0  
RES 0  
S.W. RES. DET.  
4.00 0'  
0050-3050  
SCALE  
SP 0  
RES -20  
ZARWELSON AT SE COR.

EQUIPMENT DATA	
LOGGING UNIT	SR
LOGGING SOFTWARE	NA
LOGGING HARDWARE	NA
LOGGING OPERATOR	NA
LOGGING DATE	11/13/82
LOGGING TIME	11:00
LOGGING LOCATION	NA
LOGGING DEPTH	NA
LOGGING INTERVAL	NA
LOGGING RATE	NA
LOGGING TYPE	NA
LOGGING METHOD	NA
LOGGING INSTRUMENT	NA
LOGGING ACCESSORY	NA
LOGGING备注	NA



LOG M-77

ARCADIS  
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
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500 1-98

CENTURY GEOPHYSICAL CORPORATION  
 Title: Gamma N 952087  
 Date: 1/18/98

M-90  
 11-21-82  
 27750-1300  
 50000

FERRET EXPLORATION 247.8  
 M-90  
 MARSLAND  
 DAWES

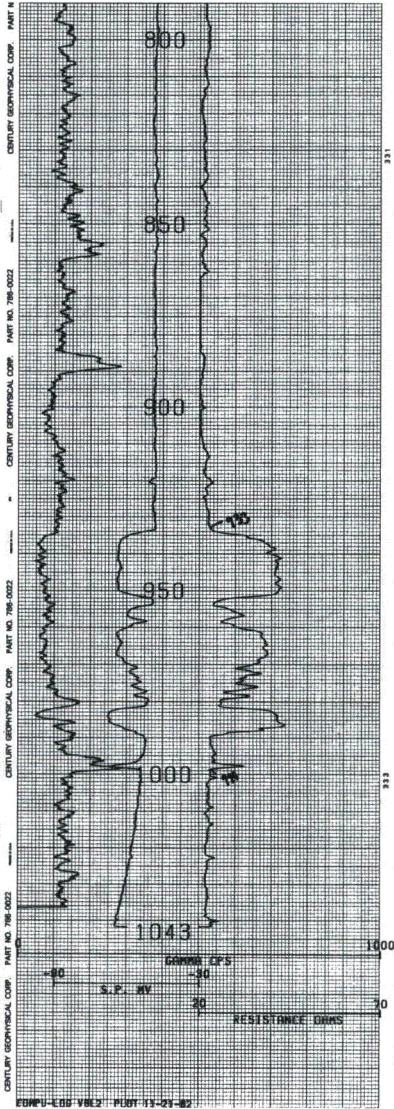
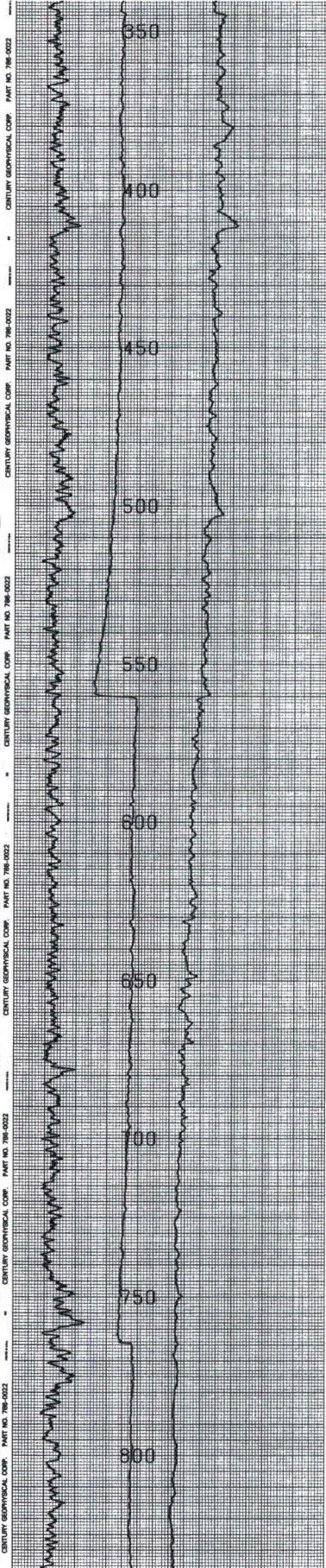
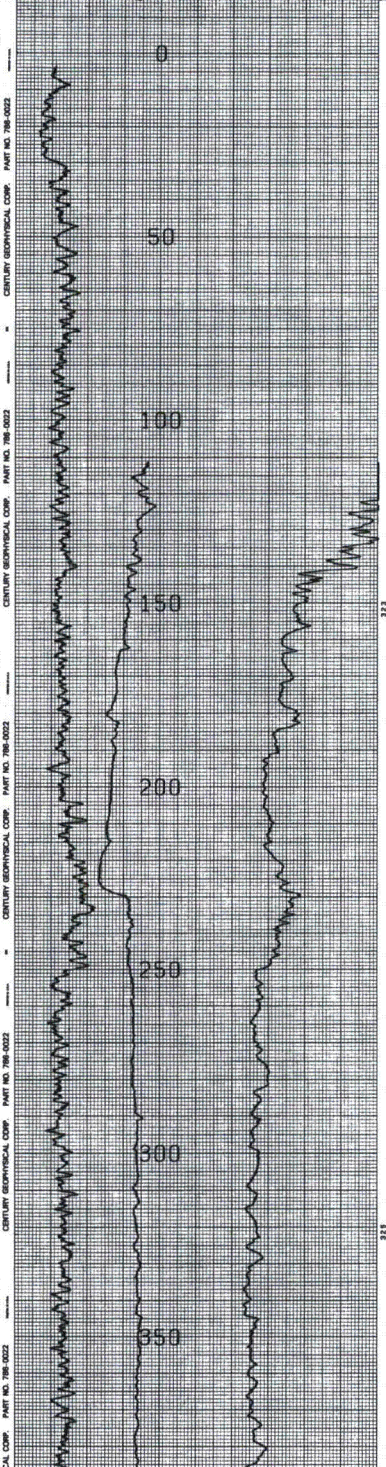
1165 VIKAL  
 NEB  
 50W

30 24000 500

12500 S. 23000 N. of SW cor.

HOLE DATA	
LOG NO.	SK
LOG DATE	NA
LOG TIME	NA
LOG LOCATION	NA
LOG OPERATOR	NA
LOG INSTRUMENT	NA
LOG SCALE	NA
LOG UNIT	NA
LOG CORRECTION	NA
LOG REVISION	NA
LOG COMMENTS	NA

2750-1300  
 12500 S. 23000 N. of SW cor.

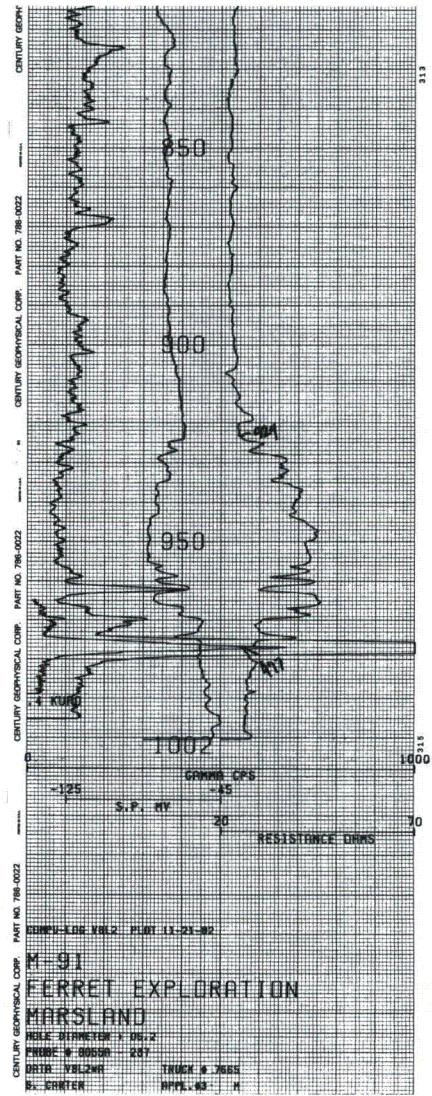
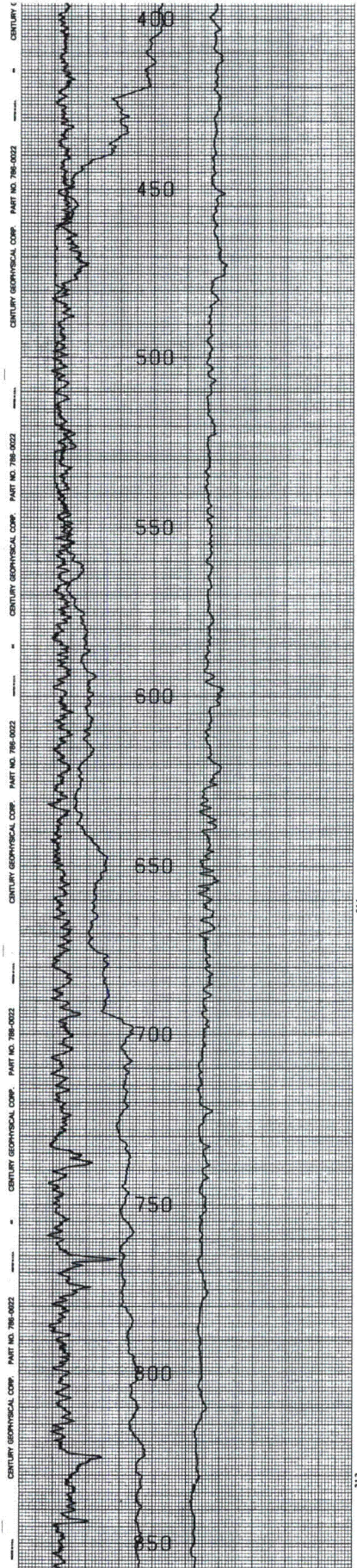
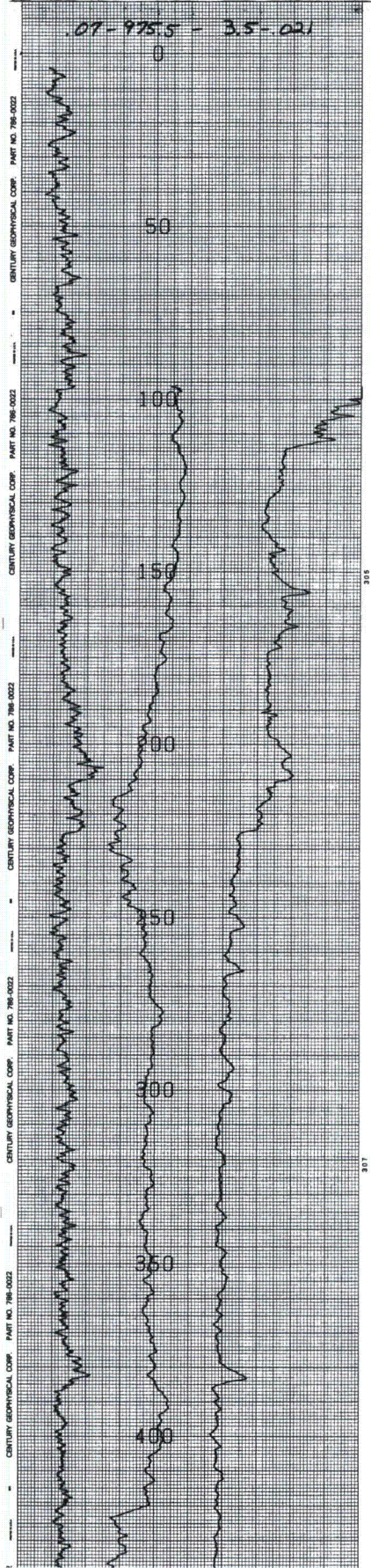




**CROW BUTTE  
RESOURCES, INC.**

**LOG M-90**

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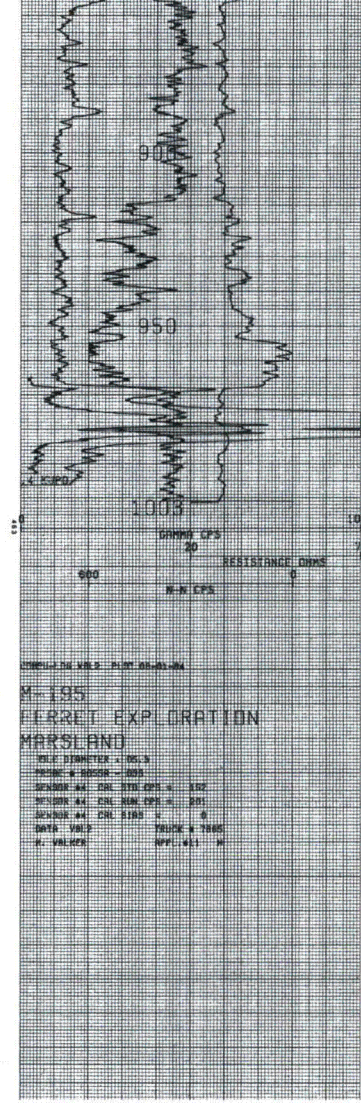
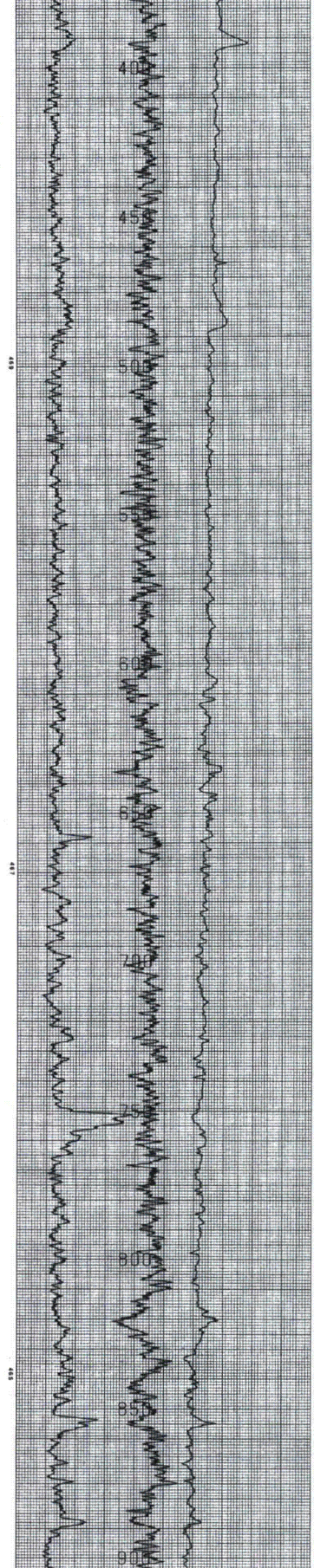
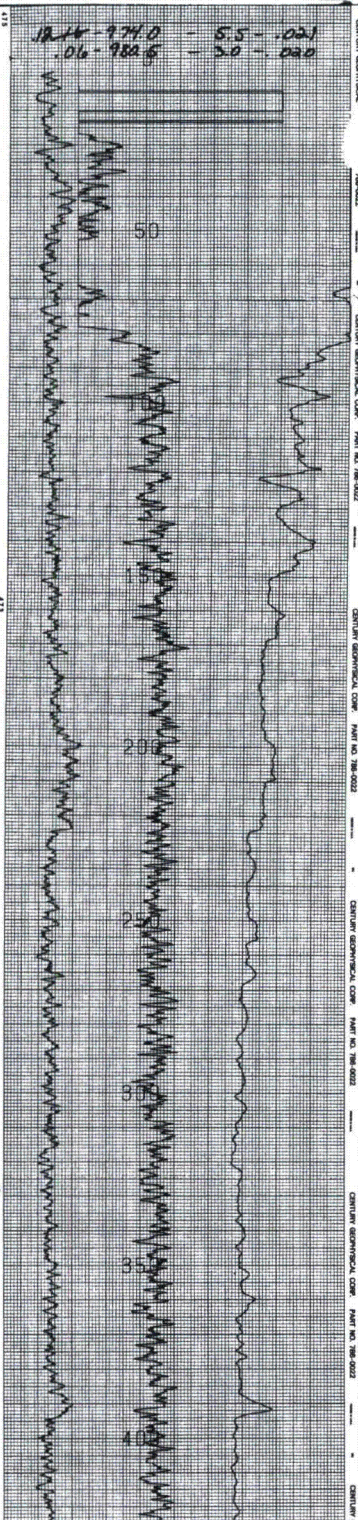
CROW BUTTE RESOURCES, INC.

LOG M-91



630 Plaza Drive, Ste. 100  
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3-04 1-748  
 SENIORITY GEOPHYSICAL CORPORATION  
 Title: Director N 7558113  
 # 0128712  
**M-195 09-01-84**  
**FIRRET EXPLORATION 57.5' x 120'**  
**M-195**  
**MARSLAND**  
 Dates: No  
 4150 VETRY  
 5021  
 5022  
 5023  
 5024  
 5025  
 5026  
 5027  
 5028  
 5029  
 5030  
 5031  
 5032  
 5033  
 5034  
 5035  
 5036  
 5037  
 5038  
 5039  
 5040  
 SURVEY WORK - 0.25  
 RETE - 0.20  
**Box 5 of M-195**  
**0950-0525**



CROW BUTTE  
RESOURCES, INC.

**LOG M-195**

630 Plaza Drive, Ste. 100  
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546 1779

CENTURY GEOPHYSICAL CORPORATION  
 33 N. S. 2472  
 1125 402

FERRET EXPLORATION

M-196  
 MARSLAND  
 29A

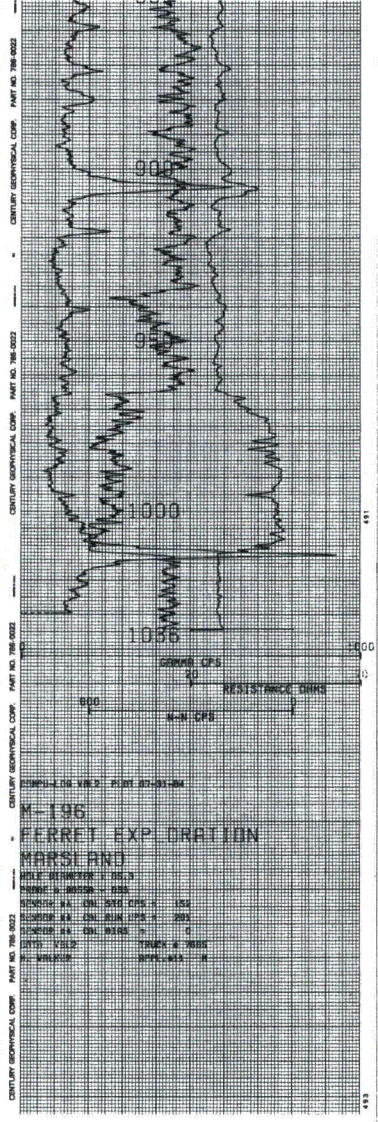
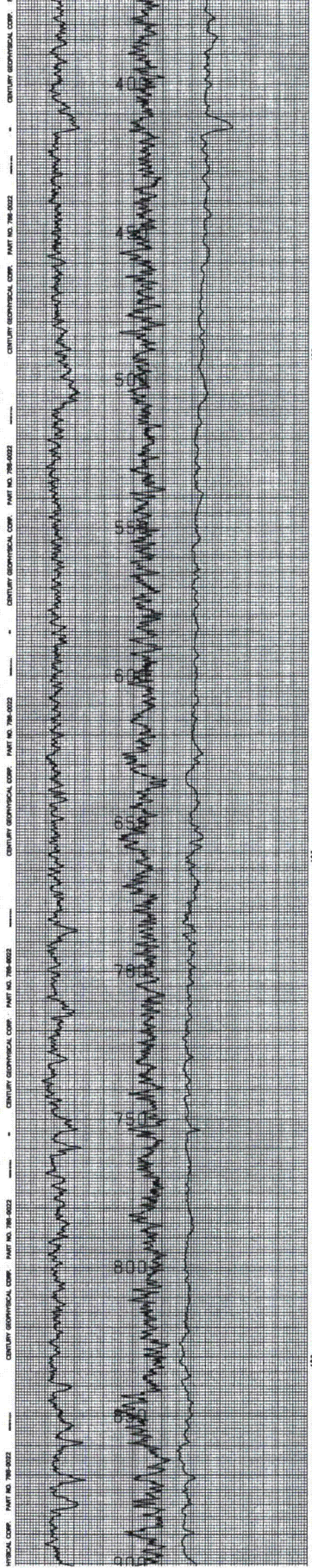
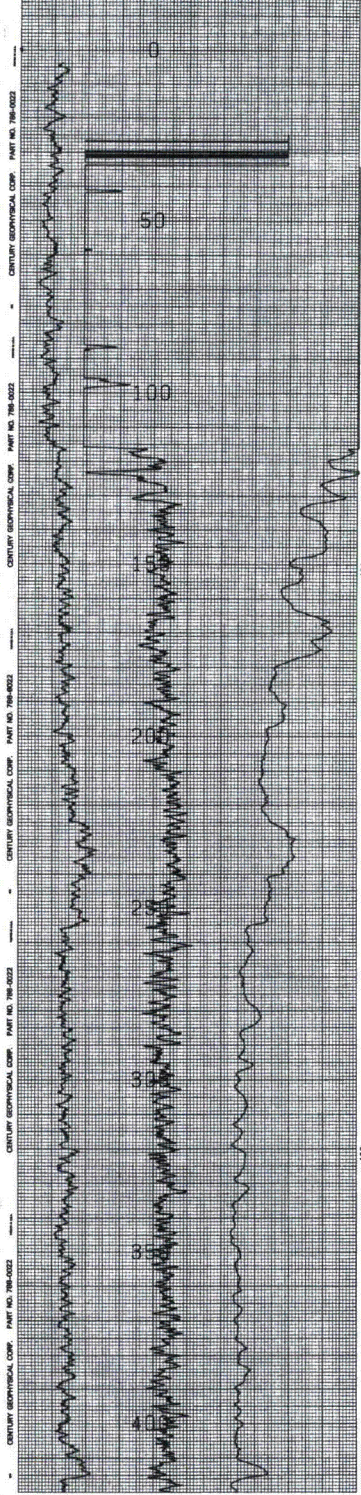
DATE: 5/11/05  
 TIME: 09:00

HOLE DATA

SURVEY NUMBER: 1622  
 SITE: 29A

3500-0225

DEPTH (FEET)	LOG	TEMP (°F)	RESISTIVITY (OHM-FEET)	APPARENT RESISTIVITY (OHM-FEET)
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				
410				
420				
430				
440				
450				
460				
470				
480				
490				
500				





**CROW BUTTE  
RESOURCES, INC.**

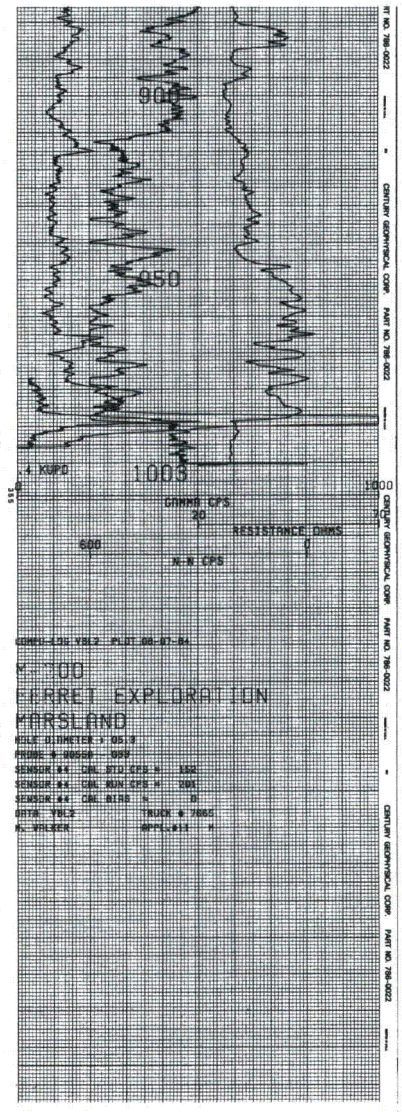
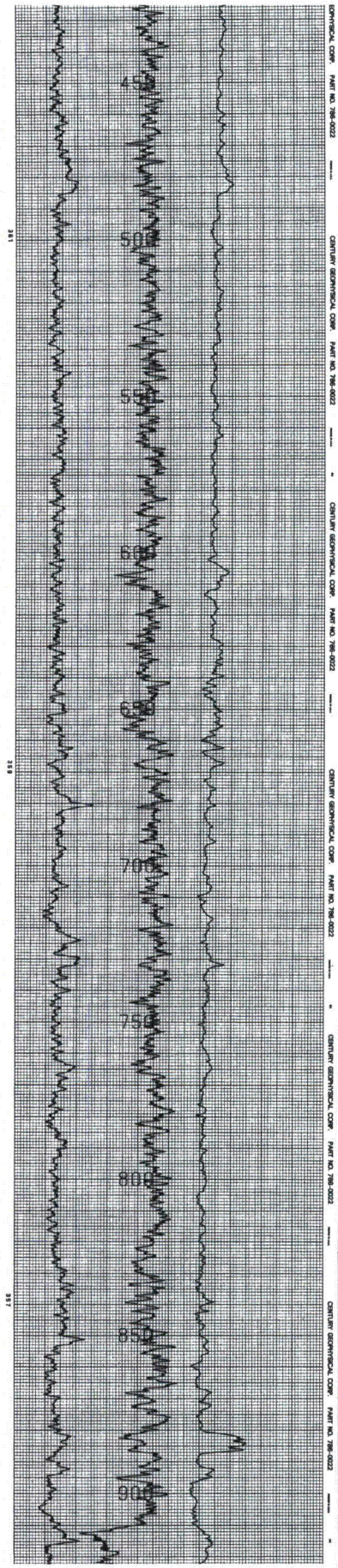
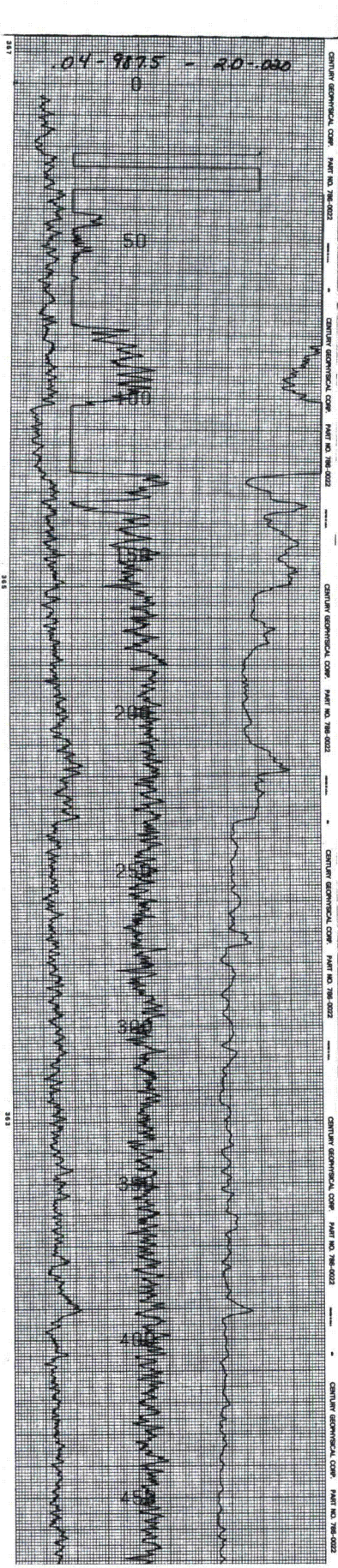
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**LOG M-196**

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830 Plaza Drive, Ste 100  
Highlands Ranch, CO 80129  
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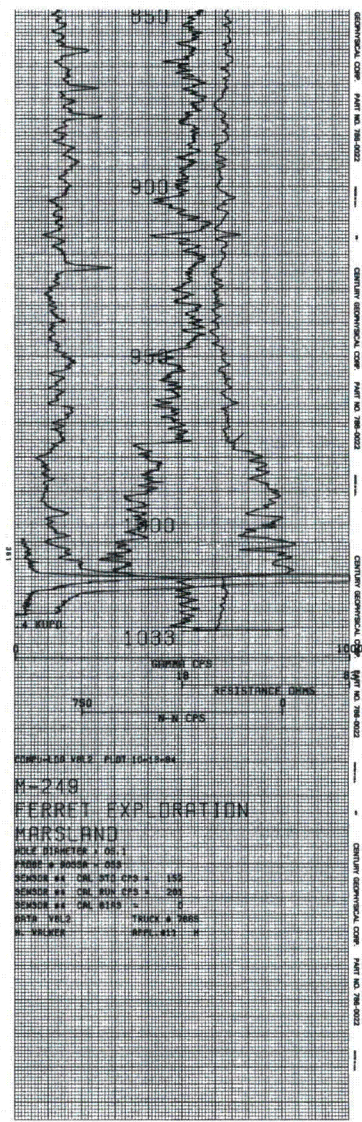
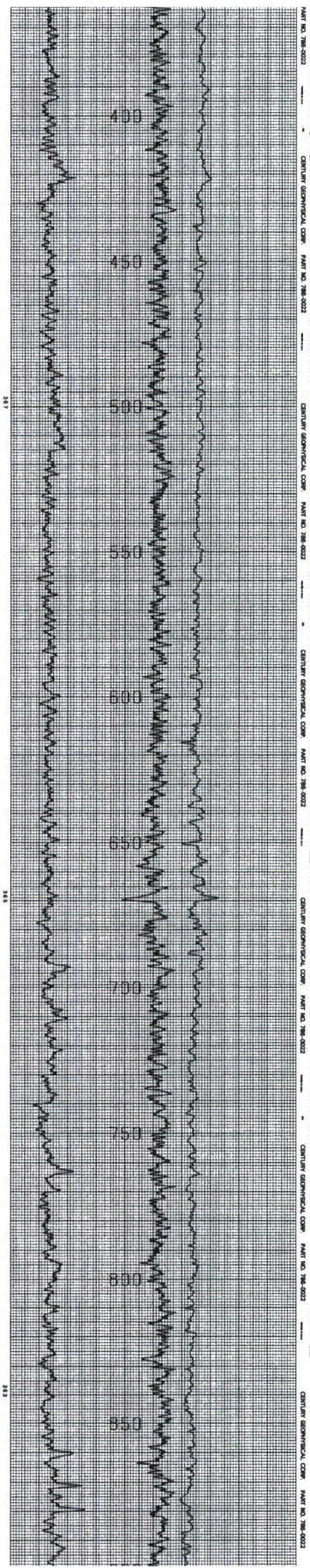
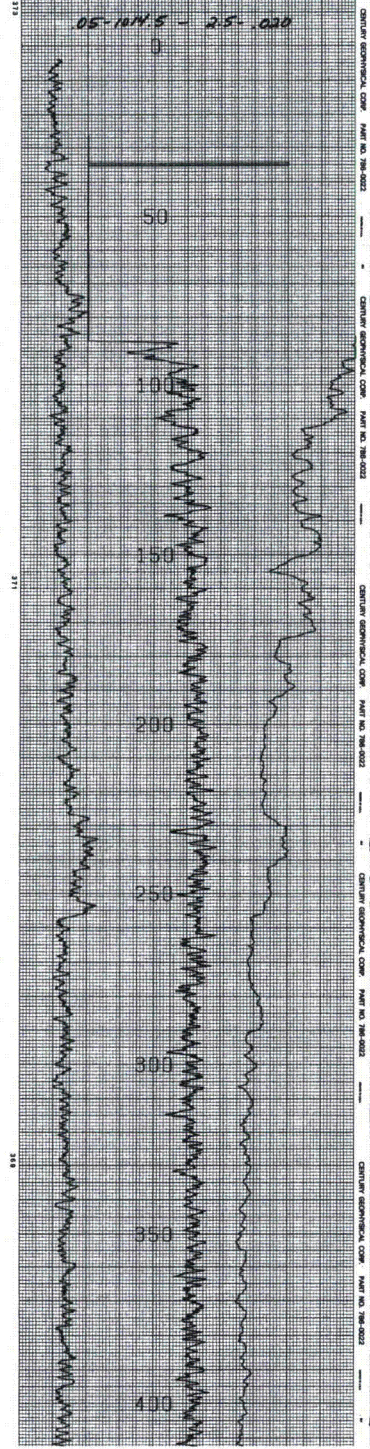


CROW BUTTE  
RESOURCES, INC.

LOG M-200

**ARCADIS** 630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
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CENTURY GEOPHYSICAL CORPORATION 11200 E. 1st Ave. Suite 100 Denver, CO 80231 Tel: 303.751.1000 Fax: 303.751.1001 www.centurygeophysical.com		M-249 10/15/04 3650-1450 FERRET Exploration	
PROJECT INFORMATION Project Name: 3650-1450 Client: Ferret Exploration Location: 3650-1450 Date: 10/15/04 Time: 08:00 AM		HOLE DATA Hole No.: M-249 Depth: 400' Diameter: 2 1/2" Mud: MUD Cement: 1000 Gravel: 1000 Sand: 1000 Silt: 1000 Clay: 1000	
SURVEY INFORMATION Survey Name: 3650-1450 Date: 10/15/04 Time: 08:00 AM		EQUIPMENT DATA System: 488 Cable: 1000 Poles: 1000 Cable Length: 1000 Pole Length: 1000 Cable Weight: 1000 Pole Weight: 1000	



CROW BUTTE  
RESOURCES, INC.

LOG M-249

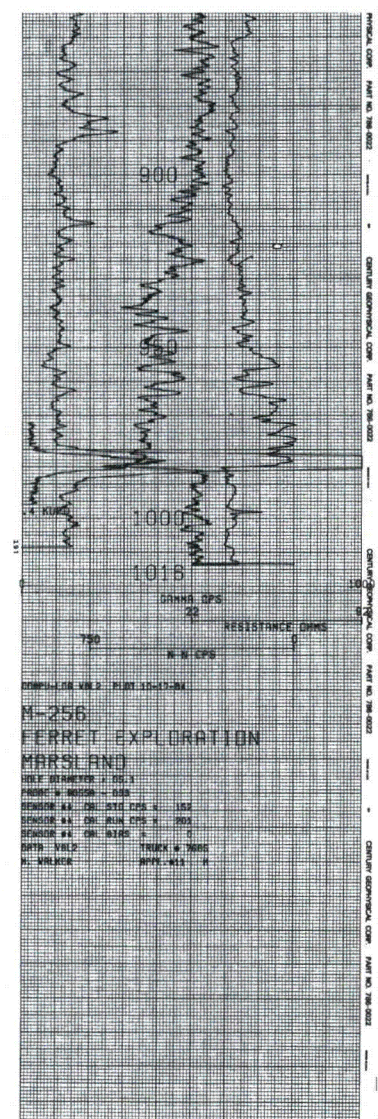
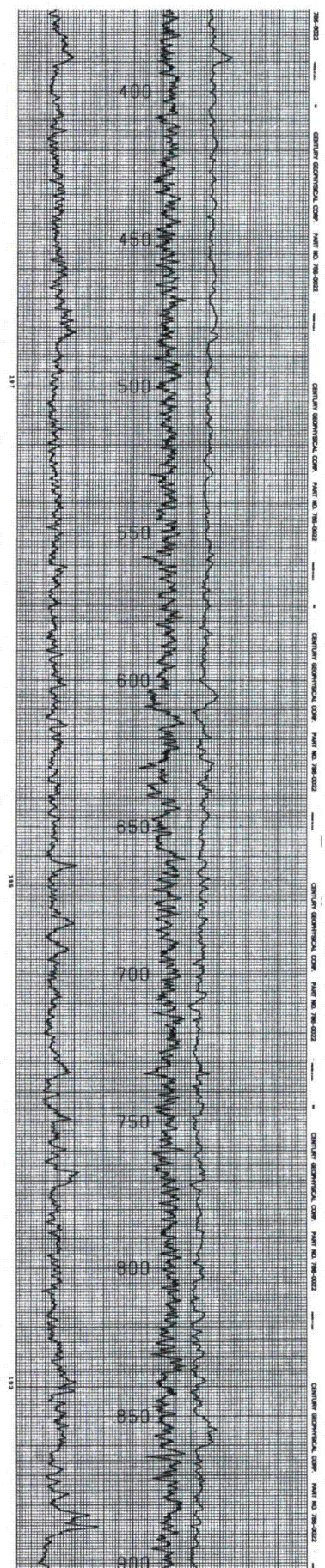
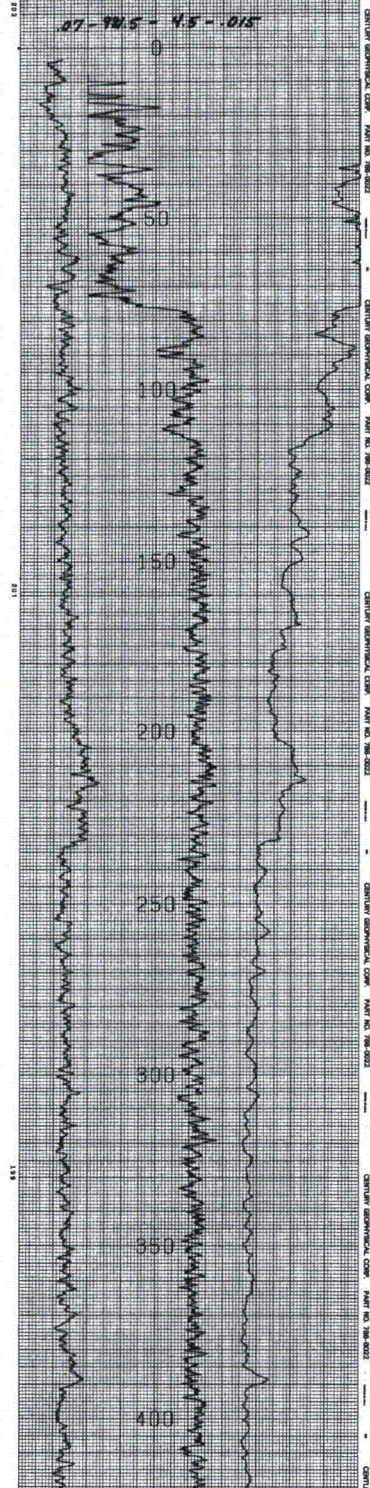
**ARCADIS** 630 Plaza Drive, Ste 100  
Highlands Ranch, CO 80129  
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www.arcadis-us.com



**CENTURY GEOPHYSICAL CORPORATION**  
 10000 E. 15th Ave., Suite 100  
 Denver, CO 80231  
 Phone: 303.751.1000  
 Fax: 303.751.1001  
 Website: www.centurygeophysical.com

**LOG M-256**  
**FERRET EXPLORATION**  
**MARILAND**  
**800'E of 14-200**  
**1150-2900**

HOLE DATA	
DATE	07-25-12
TIME	11:00
LOGGERS	J. Chen, S. Smith
OPERATOR	Century Geophysical
CLIENT	Mariland
PROJECT	800'E of 14-200
WELL NO.	1150-2900
DEPTH	0 - 400'
LOG TYPE	Resistivity
LOG SCALE	Linear
LOG INTERVAL	10'
LOG SMOOTHING	None
LOG CORRECTIONS	None
LOG PRINTING	Standard
LOG FILE	M-256



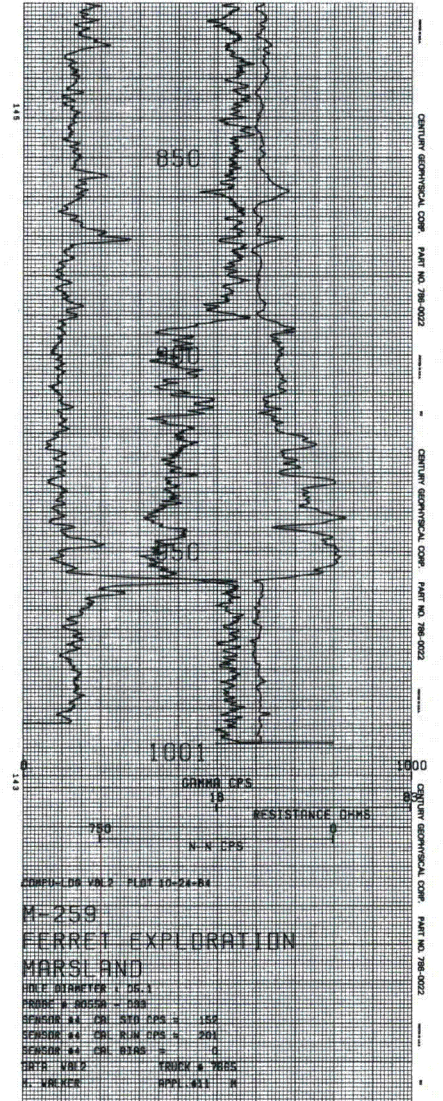
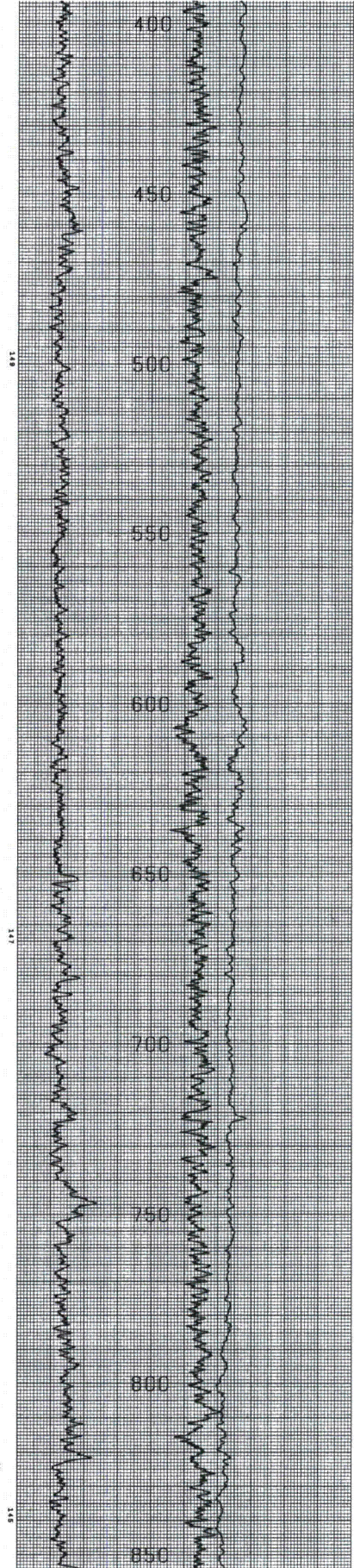
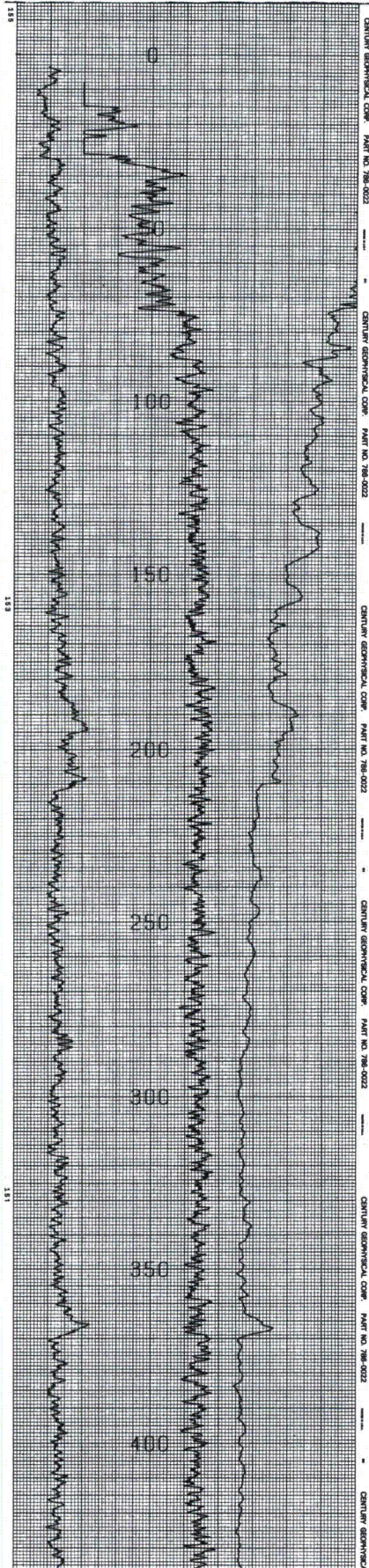


**CROW BUTTE  
RESOURCES, INC.**

**LOG M-256**



630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com



**CROW BUTTE  
RESOURCES, INC.**

**LOG M-259**



630 Plaza Drive, Ste 100  
Highlands Ranch, CO 80129  
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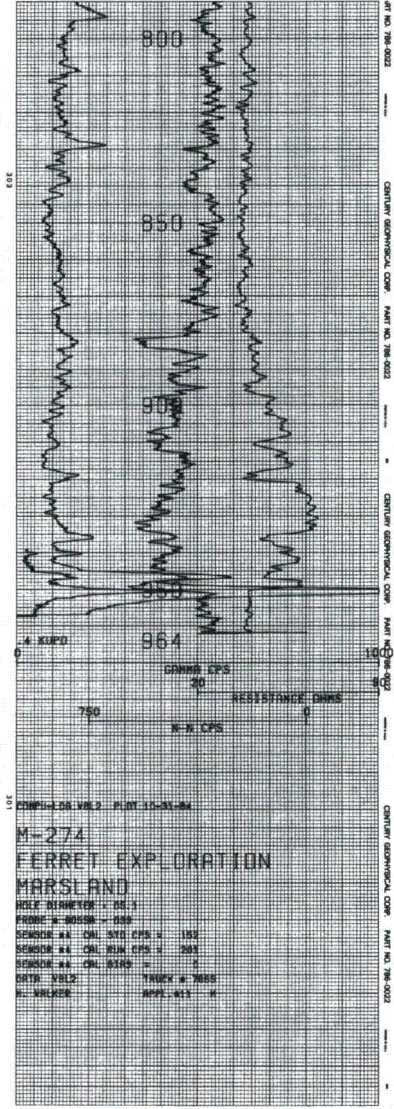
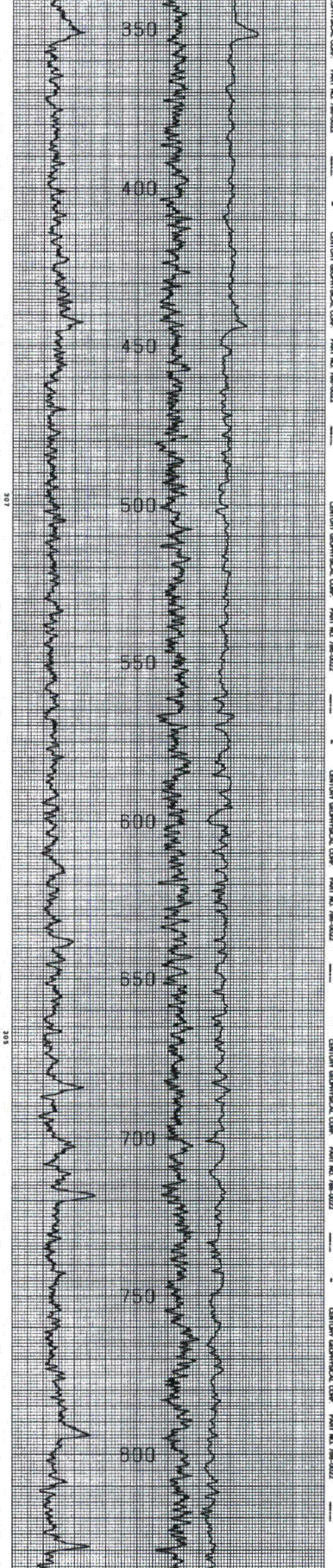
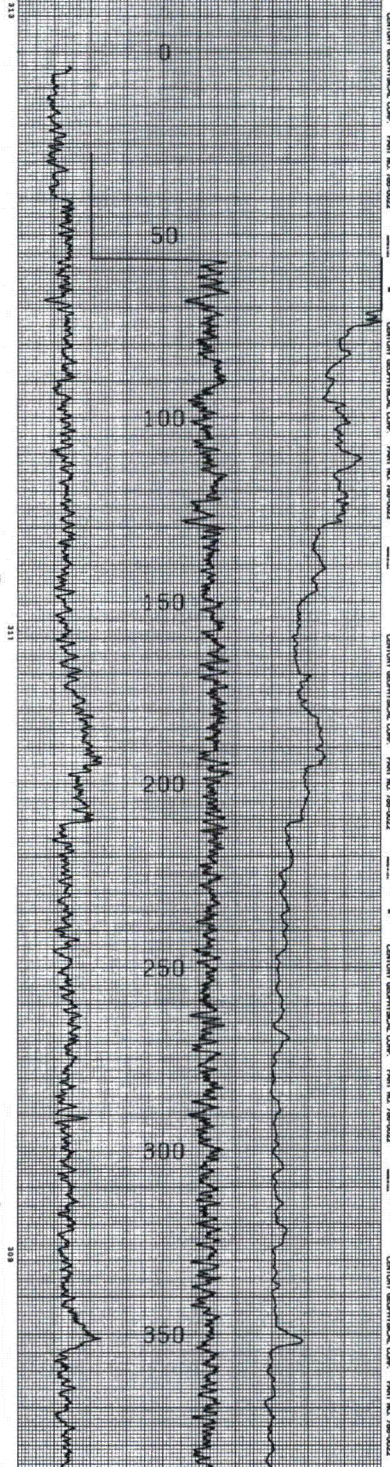
**CENTURY GEOPHYSICAL CORPORATION**  
 1000 W. 14th St. Suite 100  
 Boulder, CO 80502  
 Phone: (303) 440-1000  
 Fax: (303) 440-1001  
 Website: www.centurygeophysical.com

**PROJECT INFORMATION**  
 Well: M-274  
 Location: MARSLAND  
 Date: 10/20/11  
 Well ID: 1000 W. 14th St. N-271

**HOLE DATA**  
 Hole No.: M-274  
 Date: 10/20/11  
 Well ID: 1000 W. 14th St. N-271  
 Depth: 0050  
 Hole Type: Exploration  
 Hole Diameter: 06.3  
 Mud: MUD  
 Mud Weight: 11.5  
 Mud Volume: 1000  
 Mud Level: 1000


**EQUIPMENT DATA**  
 System: 8000  
 Cable: 8000  
 Sensor: 8000  
 Battery: 8000  
 Temperature: 8000  
 Humidity: 8000  
 Pressure: 8000  
 Wind Speed: 8000  
 Wind Direction: 8000  
 Rain Rate: 8000  
 Rain Direction: 8000  
 Snow Depth: 8000  
 Ice Thickness: 8000  
 Fog: 8000  
 Clouds: 8000  
 Visibility: 8000  
 Air Temp: 8000  
 Soil Temp: 8000  
 Ground Temp: 8000  
 Water Temp: 8000  
 Air Pressure: 8000  
 Soil Pressure: 8000  
 Ground Pressure: 8000  
 Water Pressure: 8000

1000 W. 14th St. N-271  
 0175-0050



CROW BUTTE RESOURCES, INC.

LOG M-274


 630 Plaza Drive, Ste 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com

**CENTURY GEOPHYSICAL CORPORATION**  
 Title: **M-277** Date: **11-09-84**  
 Location: **MARSLAND** City: **CO**

**FERRET EXPLORATION RECORD**

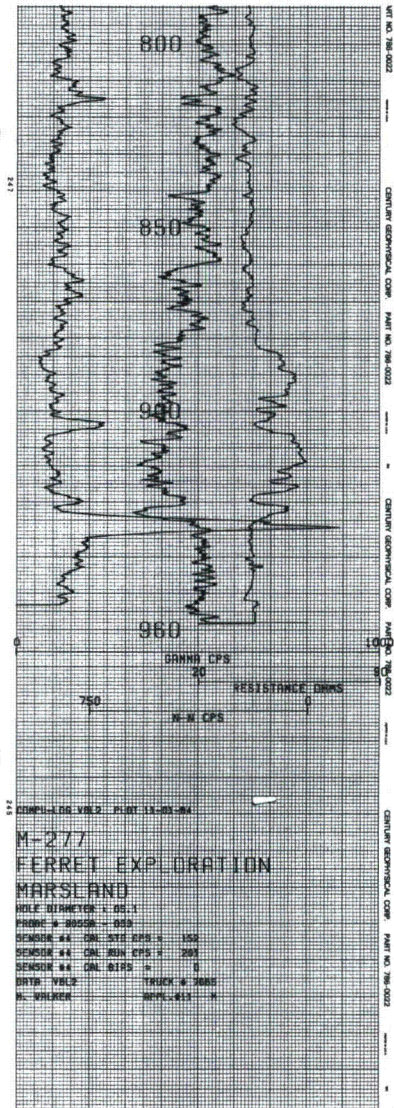
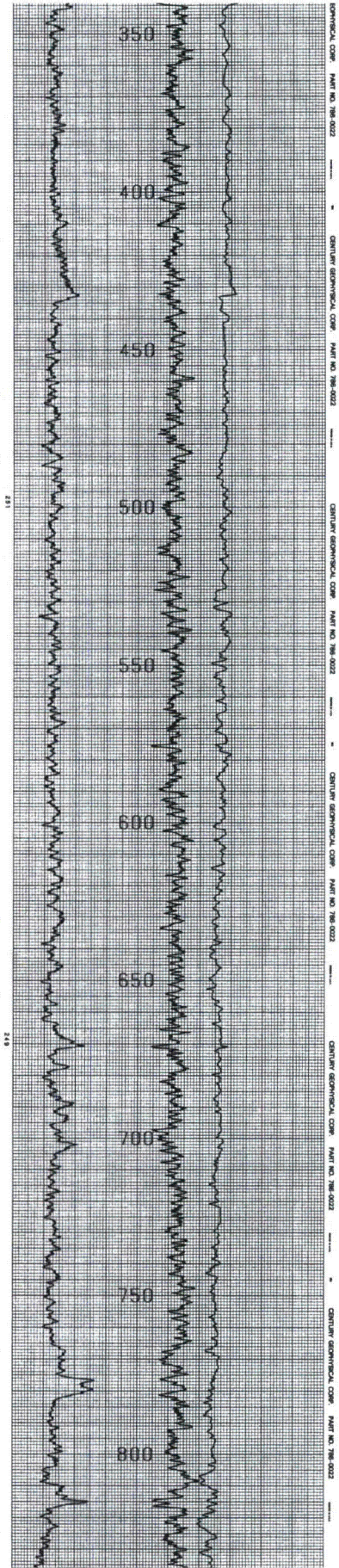
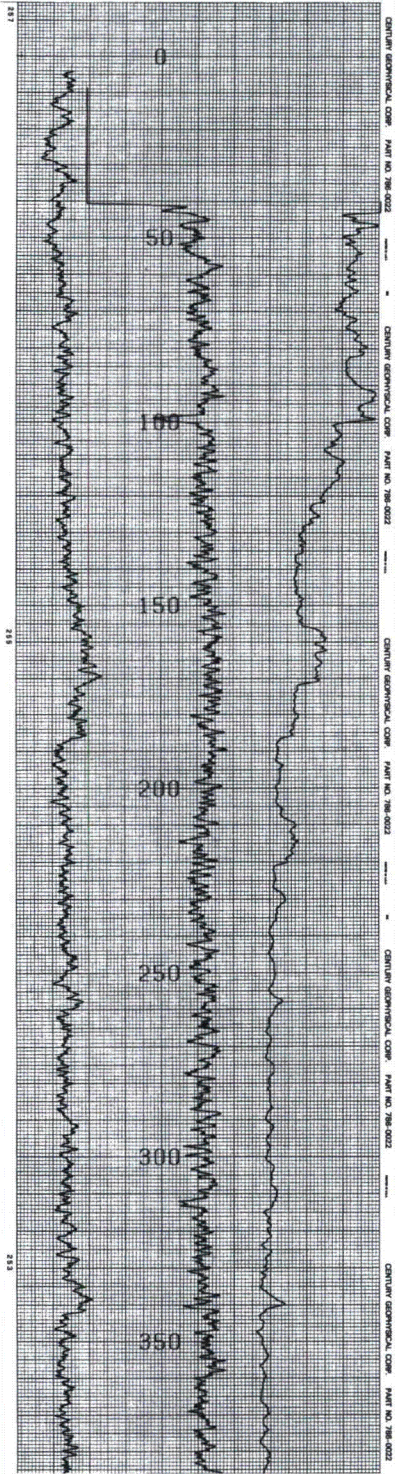
**M-277**  
**MARSLAND**  
**DATE** 11-09-84  
**DRILLER** N.E.  
**PROBING DEPTH** 500'

**HOLE DATA**

LOG NO.	DATE	DEPTH	LOG
1600 W.P. 71-278			

**EQUIPMENT DATA**

LOG NO.	DATE	DEPTH	LOG
0100-3650			



**M-277**  
**FERRET EXPLORATION**  
**MARSLAND**  
 HOLE DIAMETER: 05.1"  
 PROBE: 20550-000  
 SENSOR #4 ON 515 EPS: 150  
 SENSOR #4 ON 800 EPS: 200  
 SENSOR #4 ON 815: 0  
 BATH: TRUCK # 880  
 N. VALUE: 800-815

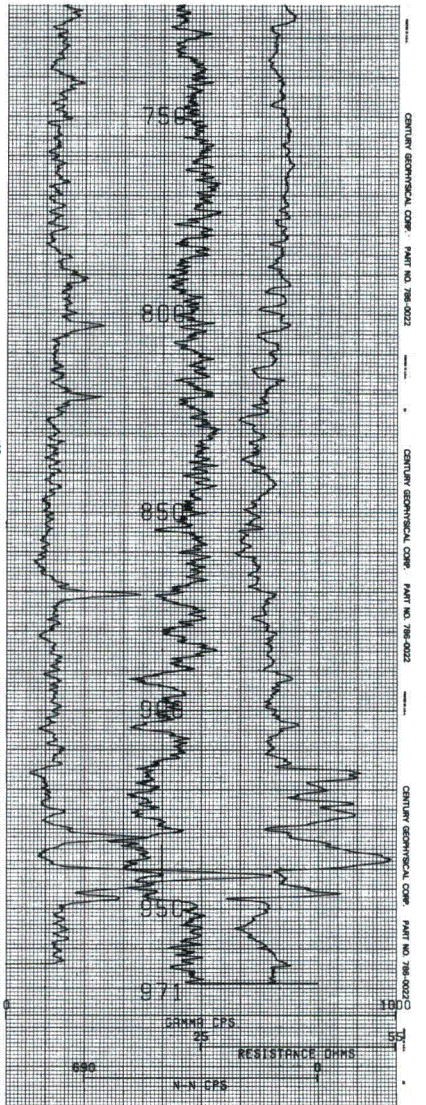
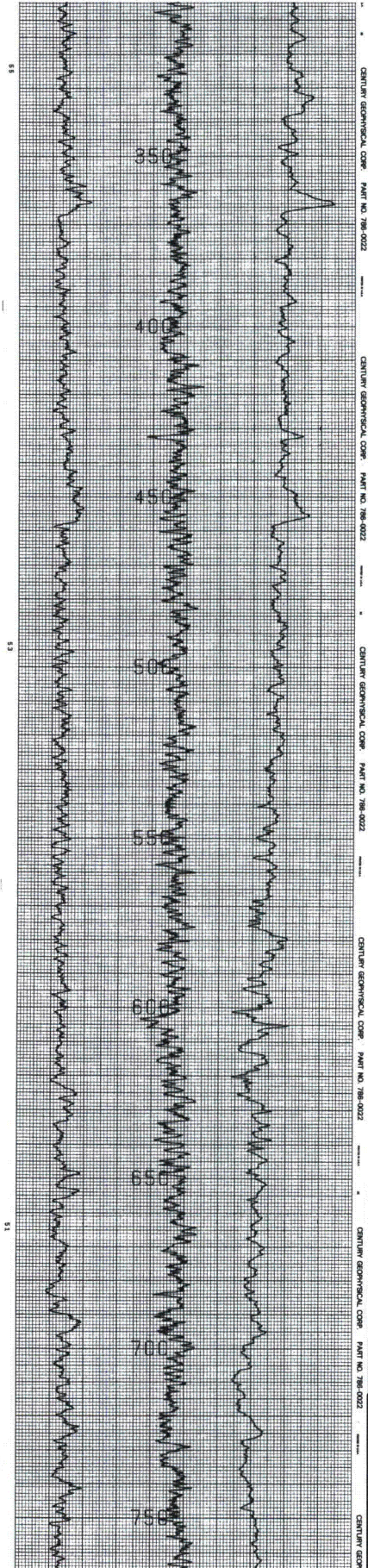
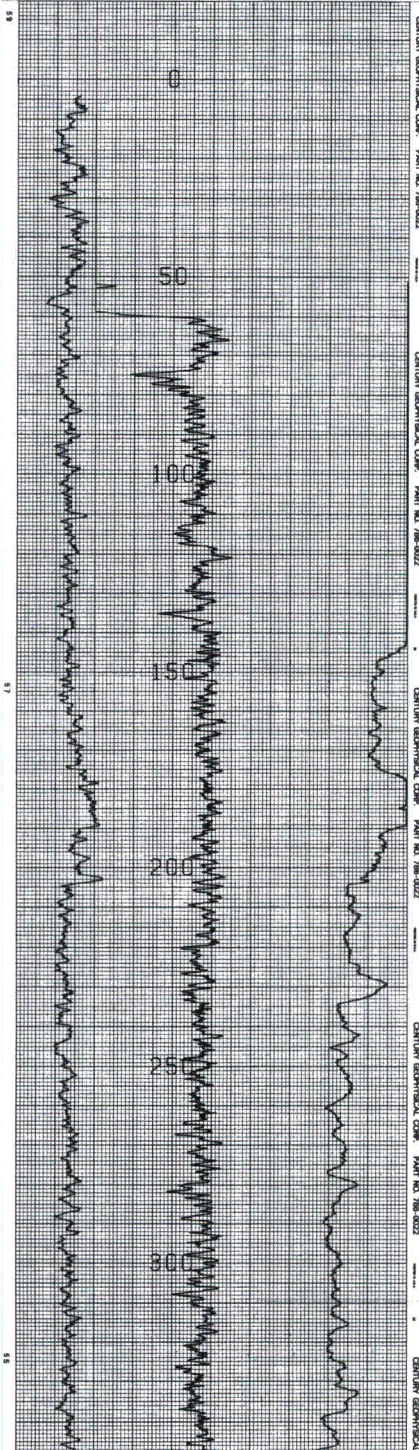


**CROW BUTTE RESOURCES, INC.**

**LOG M-277**

**ARCADIS**  
 630 Plaza Drive, Ste 100  
 Highlands Ranch, CO 80129  
 P. 720-344-3500 F. 720-344-3535  
 www.arcadis-us.com

CENTURY GEOPHYSICAL CORPORATION 4125 W. 14th Ave., Suite 100 Boulder, CO 80501		Project: <b>M-363</b> Date: <b>11-20-85</b> Client: <b>WESTERN</b>
Title: <b>Exploration</b> Date: <b>24.9.10.84</b>		
Location: <b>MANSLAND</b> Coordinates: <b>412.0 N 103.3 W</b>		
HOLE DATA Hole No: <b>20</b> Depth: <b>29m</b> Diameter: <b>50mm</b> Location: <b>200' East M-363</b>		
Equipment Data System: <b>RESISTIVITY</b> Electrodes: <b>CP</b> Spacing: <b>100'</b> Current: <b>5mA</b> Voltage: <b>100V</b> Filter: <b>100Hz</b> Amplifier: <b>100x</b> Recorder: <b>RESISTIVITY</b> Scale: <b>1000 Ohms</b>		



CROW BUTTE  
RESOURCES, INC.

LOG M-363

**ARCADIS**  
 630 Plaza Drive, Ste 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com

**FRONTIER LOGGING**  
 Logwell Enterprises

**3715-0450**

WELL NO. 206001 PERMET EXPLORATION COMPANY INC. CO. 80505  
 PROJECT NO. 206001 8 1/2" I.D. HOLE DATE MAY 5, 1988  
 PROPERTY/ADDRESS BAKER COUNTY, WASHINGTON ASP. 4000 SQ. FT.

DRILL CONTRACTOR: HATCH EXPLORATION REPT. DESIGN LEVEL  
 IS DRILLED: 1000 IS LOGGED: 1000  
 MEAS. 0 0.5" 1/2" 3/4" 1" 1 1/4" 1 3/4" 2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2" 9" 9 1/2" 10"

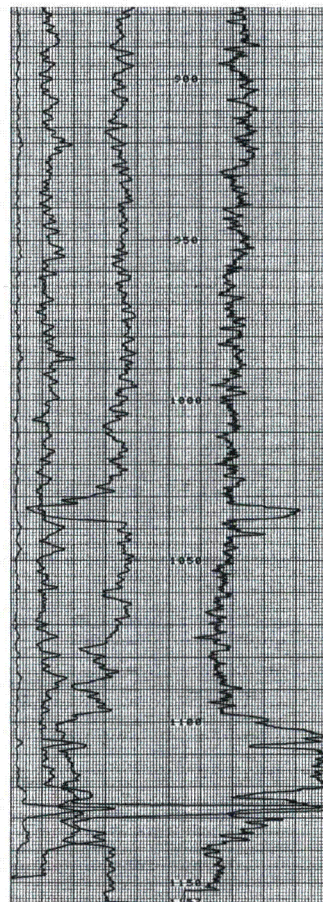
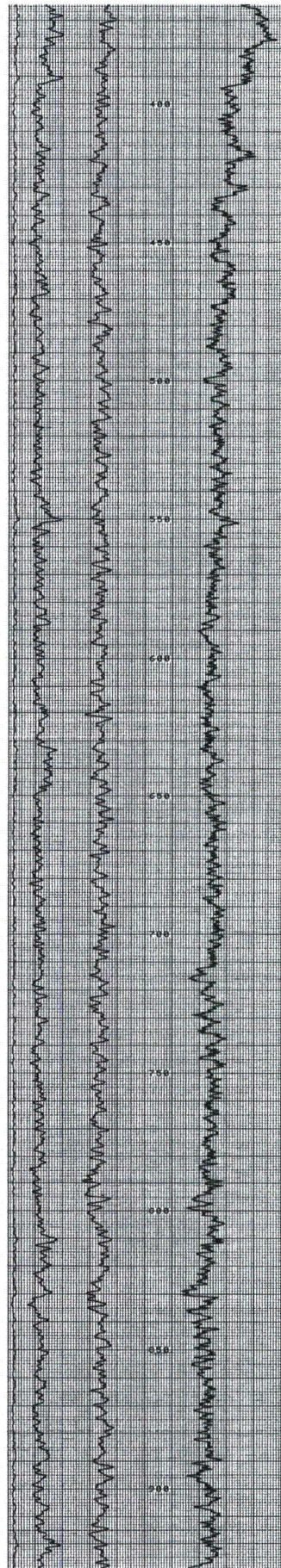
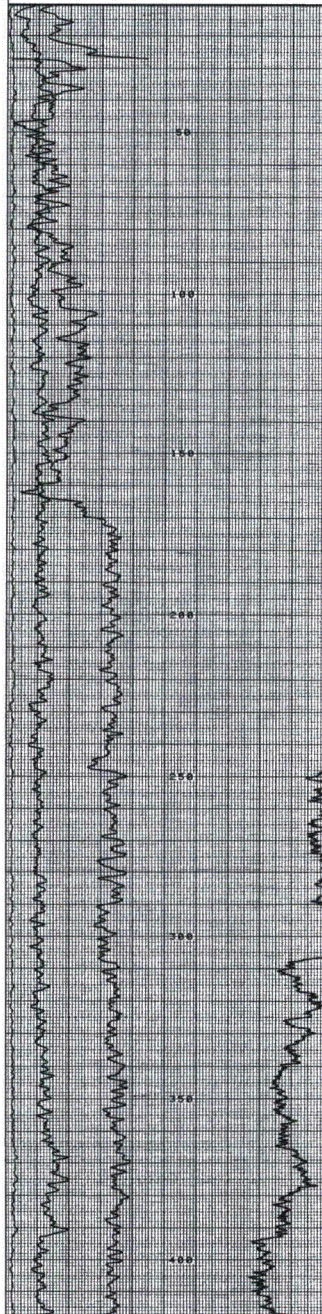
NATURAL GAMA NEUTRON S P I T T

FOURTRON JARVIS COMPASS LOGGING SYSTEM ONE TECHNICAL ASSISTANT  
 NOV. 1981 NOV. 1982 NOV. 1979 - 807

BY: R. J. JOHNSON R. J. JOHNSON R. J. JOHNSON  
 CORRECTED APPROVED BY: R. J. JOHNSON R. J. JOHNSON R. J. JOHNSON  
 WELLS 11.5' x 11.5' 11.5' x 11.5' 11.5' x 11.5'  
 TOTAL LOGGING TIME 2:00.00 2:00.00 2:00.00  
 COMMENTS: TOOL USED 1000

GAMMA (CPS) 200  
 RES (OHMS) 35  
 NEUTRON (CPS) 15  
 GAMMA HI (CPS) 1000

M-443  
 MAY 5, 1988



GAMMA (CPS) 200  
 RES (OHMS) 35  
 NEUTRON (CPS) 15  
 GAMMA HI (CPS) 1000

M-443  
 MAY 5, 1988



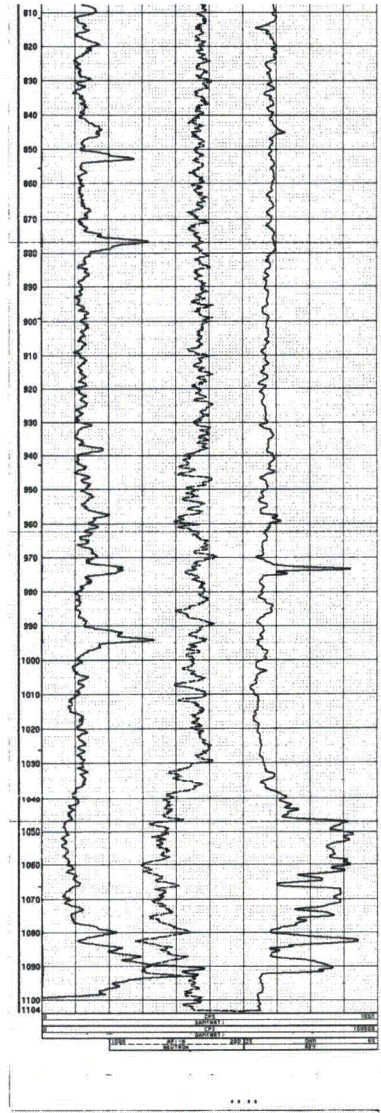
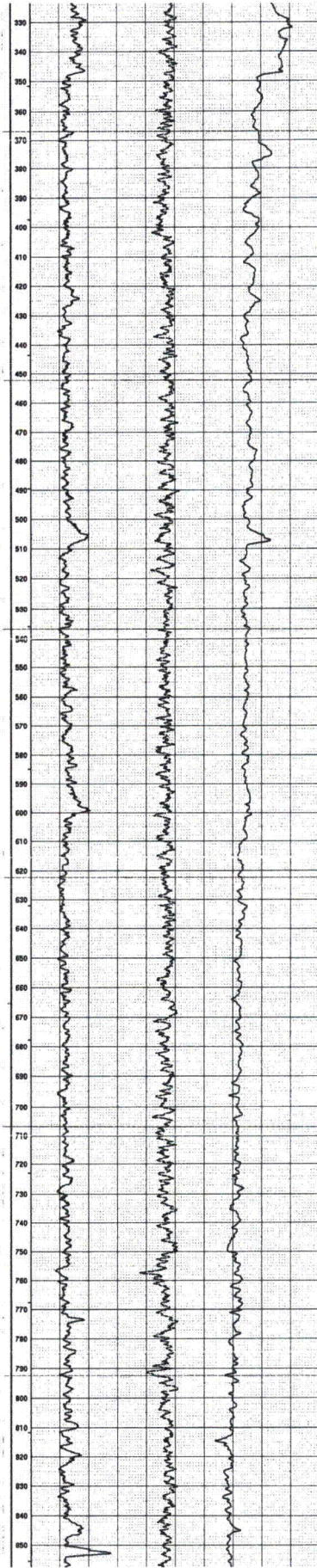
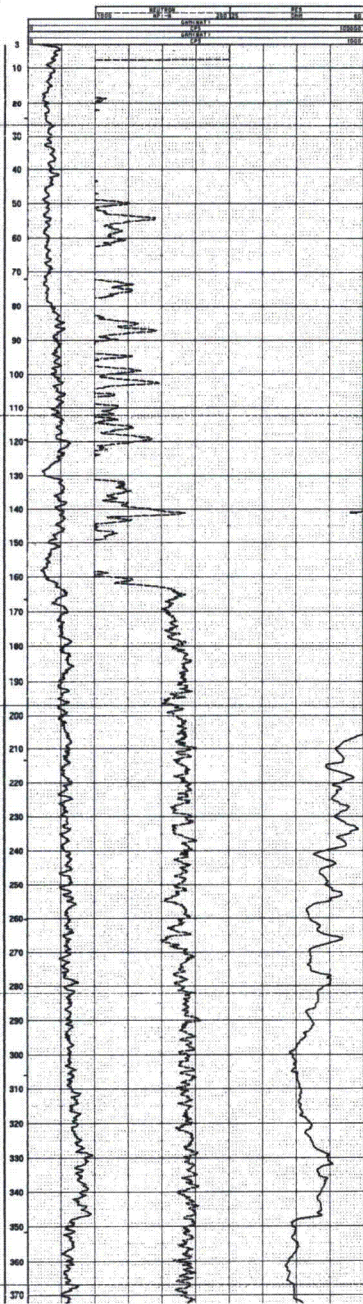
**CROW BUTTE  
 RESOURCES, INC.**

**LOG M-443**



**ARCADIS**  
 630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
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<b>N-704 5400-0700</b>	
COMPANY: CENTURY PROJECT: 5400-0700 CLIENT: M. MARSHLAND DATE: 05/09/2012 SECTION: 10	SURVEY: 5400-0700 DATE: 05/09/2012 TIME: 10:00 AM LOCATION: 5400-0700 OPERATOR: J. CHEN INSTRUMENT: 1000000000 SOFTWARE: 1000000000
WIRE: 1000000000 WIRE NO.: 1000000000 WIRE TYPE: 1000000000 WIRE LENGTH: 1000000000 WIRE WEIGHT: 1000000000 WIRE DIAMETER: 1000000000	WIRE NO.: 1000000000 WIRE TYPE: 1000000000 WIRE LENGTH: 1000000000 WIRE WEIGHT: 1000000000 WIRE DIAMETER: 1000000000



**CROW BUTTE  
RESOURCES, INC.**

**LOG M-704**



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
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www.arcadis-us.com

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05 1:47

**Century**  
GEOPHYSICAL CORP.

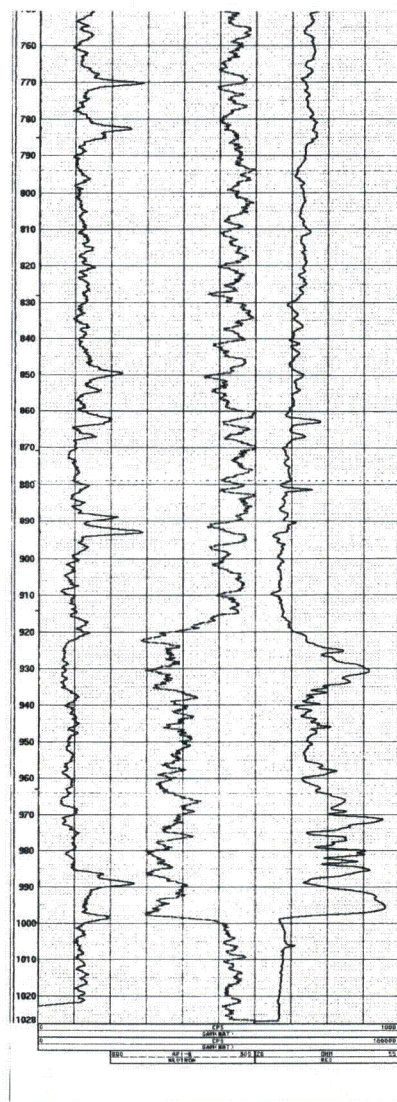
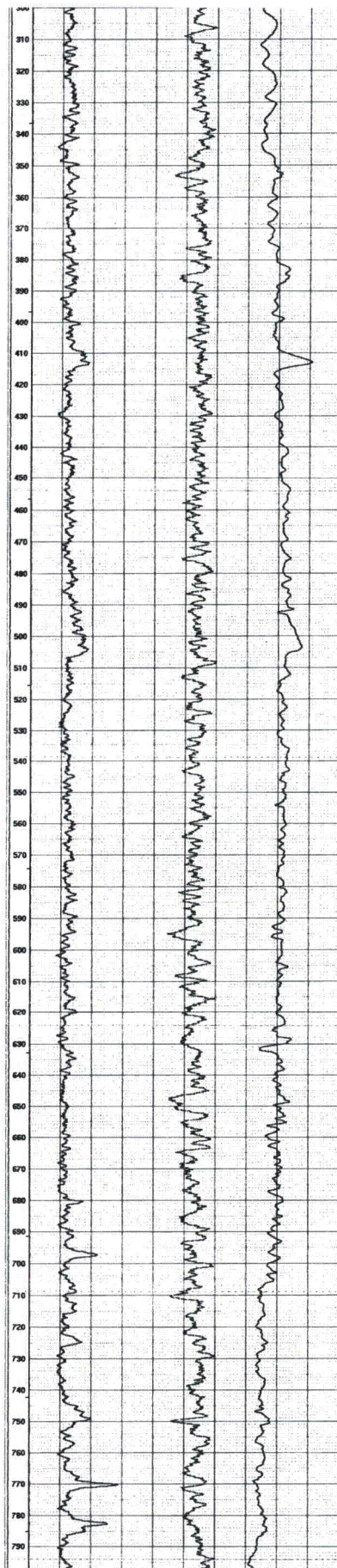
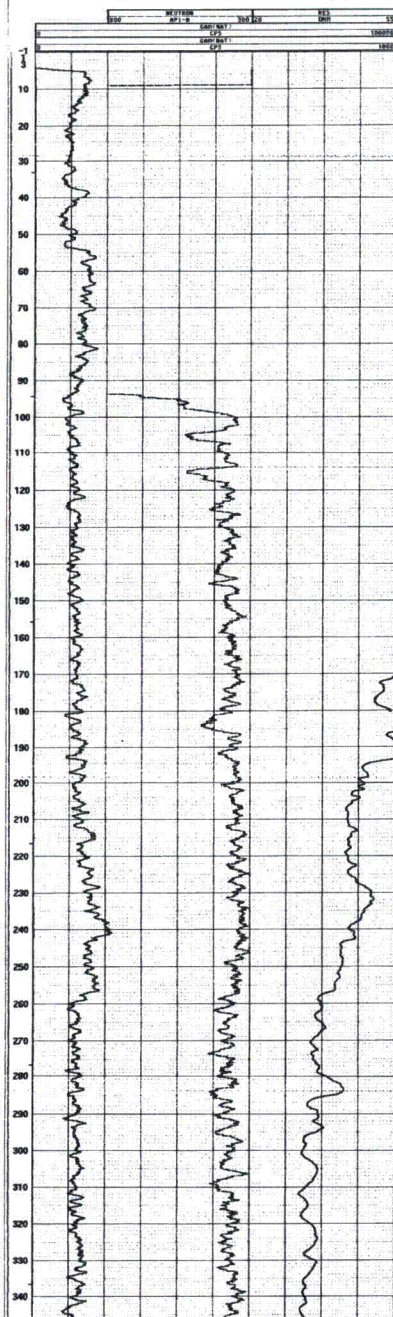
N-783 3660-2600

CLIENT: N-783	PROJECT: N-405778
LOCATION: 3660-2600	DATE: 05/09/2012
FIELD OFFICE: 166098	BY: J.CHE

DATE: 05/09/2012	PERFORMED BY: J.C.	REVISION:
BY: J.C.	DATE: 05/09/2012	NO. 1
BY: J.C.	DATE: 05/09/2012	NO. 2
BY: J.C.	DATE: 05/09/2012	NO. 3
BY: J.C.	DATE: 05/09/2012	NO. 4
BY: J.C.	DATE: 05/09/2012	NO. 5
BY: J.C.	DATE: 05/09/2012	NO. 6
BY: J.C.	DATE: 05/09/2012	NO. 7
BY: J.C.	DATE: 05/09/2012	NO. 8
BY: J.C.	DATE: 05/09/2012	NO. 9
BY: J.C.	DATE: 05/09/2012	NO. 10

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS




CROW BUTTE  
RESOURCES, INC.

LOG M-783



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P. 720-344-3500 F. 720-344-3535  
www.arcadis-us.com

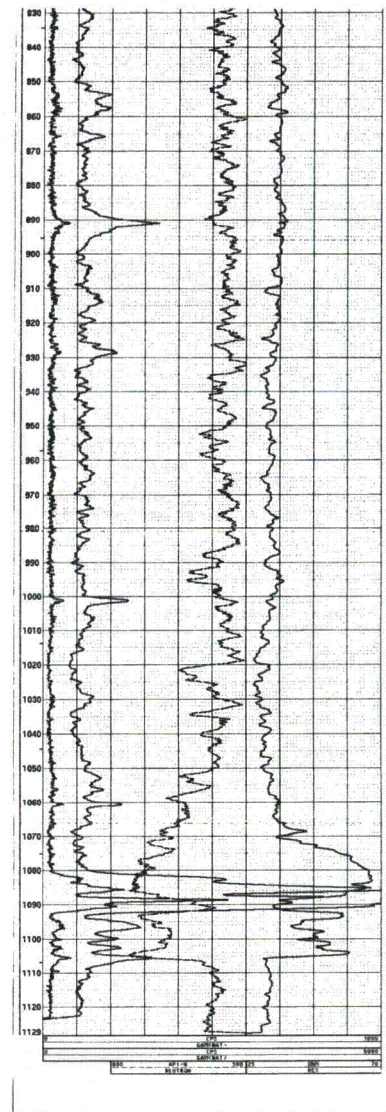
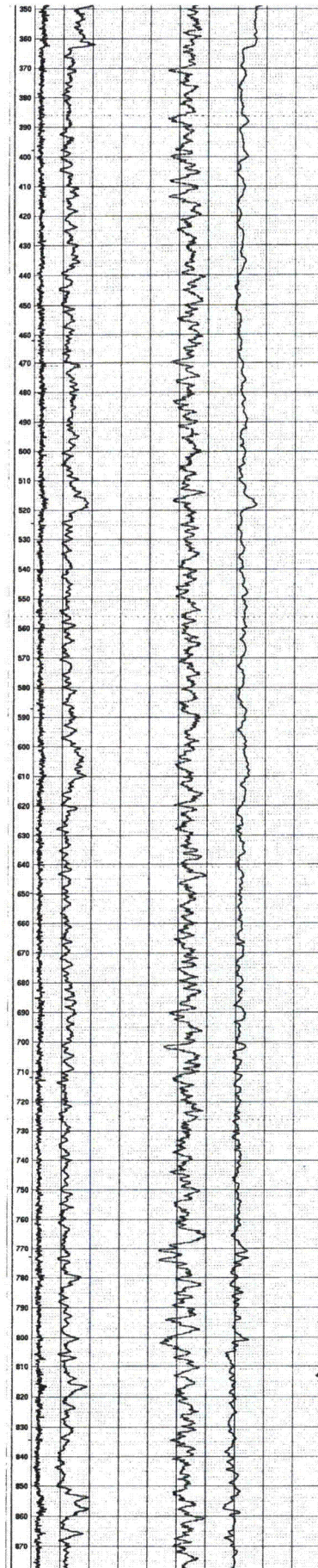
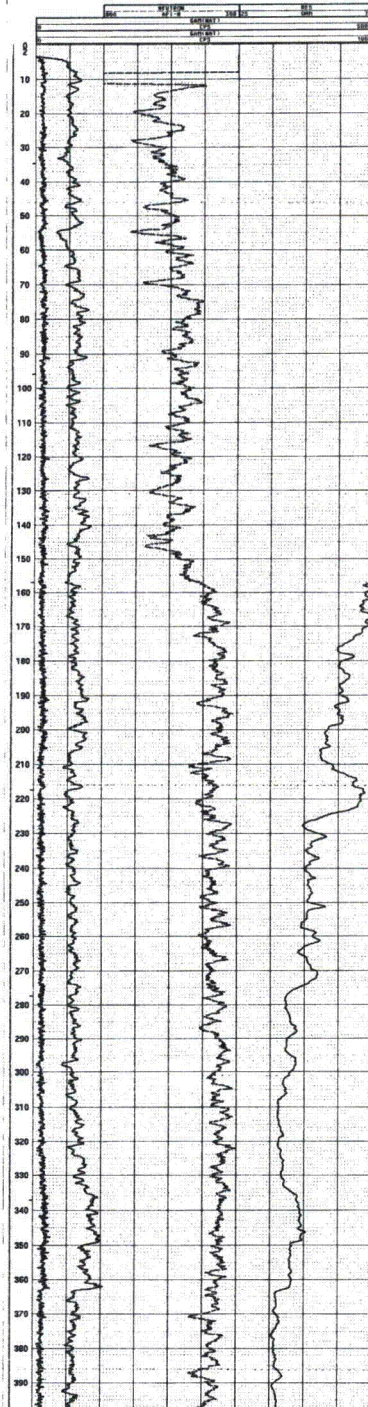




**Century**  
GEOPHYSICAL CORP.

**M-797**

DATE	05/09/2012	PROJECT	CO001636	WELL	M-797	WELL DEPTH	10000
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WELL	05/09/2012	PROJECT	CO001636	WELL	M-797	WELL DEPTH	10000
WELL	05/09/2012	PROJECT	CO001636	WELL	M-797	WELL DEPTH	10000





**CROW BUTTE  
RESOURCES, INC.**

**LOG M-797**



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

258 1-007

**Century**  
GEOPHYSICAL SERVICES

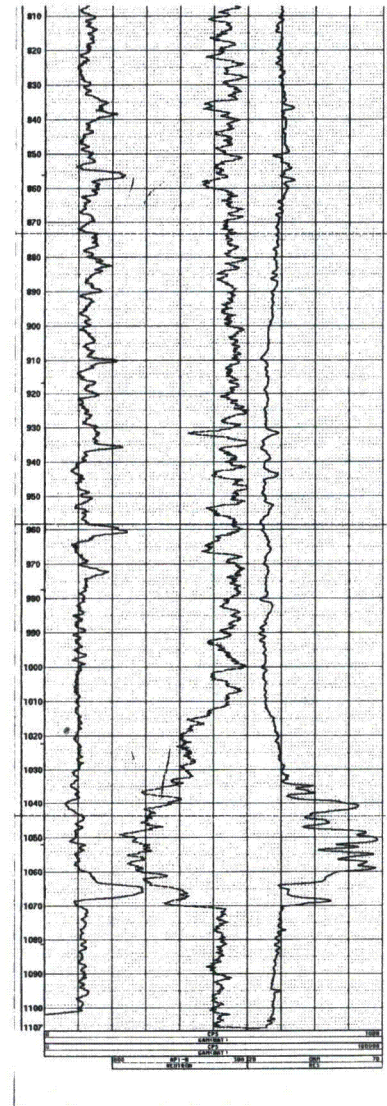
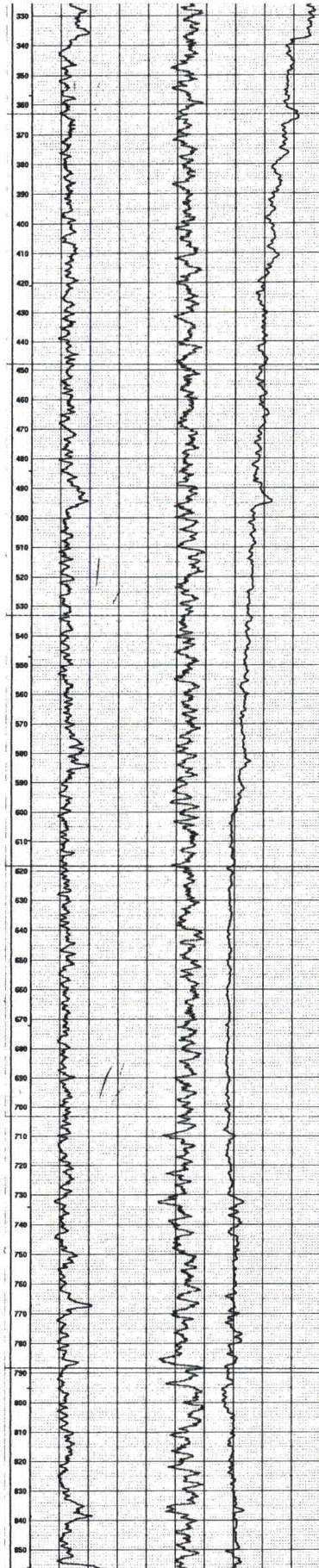
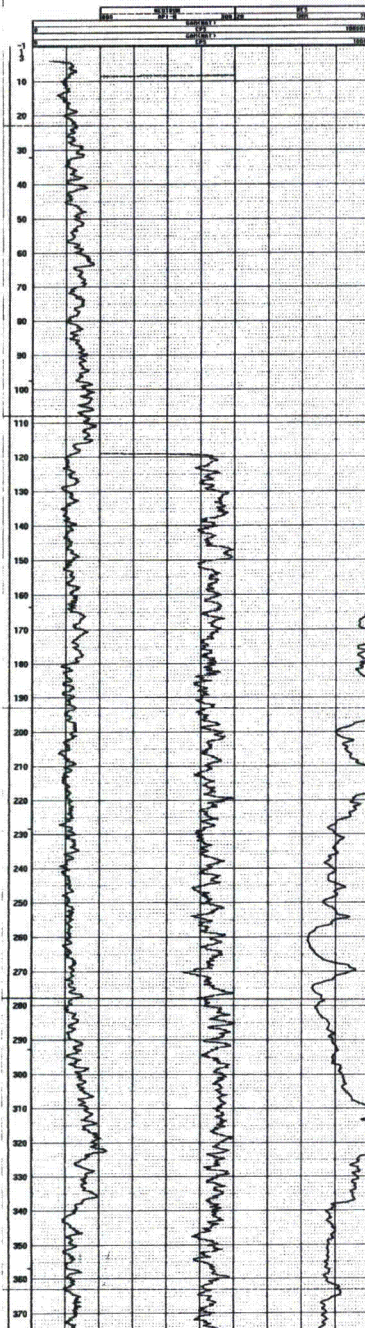
N-400 620  
W-125687

N-002 56000-89160

AT-10 126'

DATE	05/09/12	LOGGING COMPANY	Century Geophysical Services
LOG TITLE	LOG M-802	LOGGERS	ADAM J. CHEN, JASON L. HARRIS
LOG NUMBER	56000-89160	CLIENT	ARCADIS
LOG SCALE	1:100	LOGGING METHOD	RESISTIVITY
LOG TYPE	DC	LOGGING TIME	05/09/12
LOG LOCATION	126'	FIELD SURVEY	05/09/12
LOG INTERPOLATED	NO	LOGGING BY	ADAM J. CHEN

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



**CROW BUTTE**  
**RESOURCES, INC.**

**LOG M-802**



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P. 720-344-3500 F. 720-344-3535  
www.arcadis-us.com

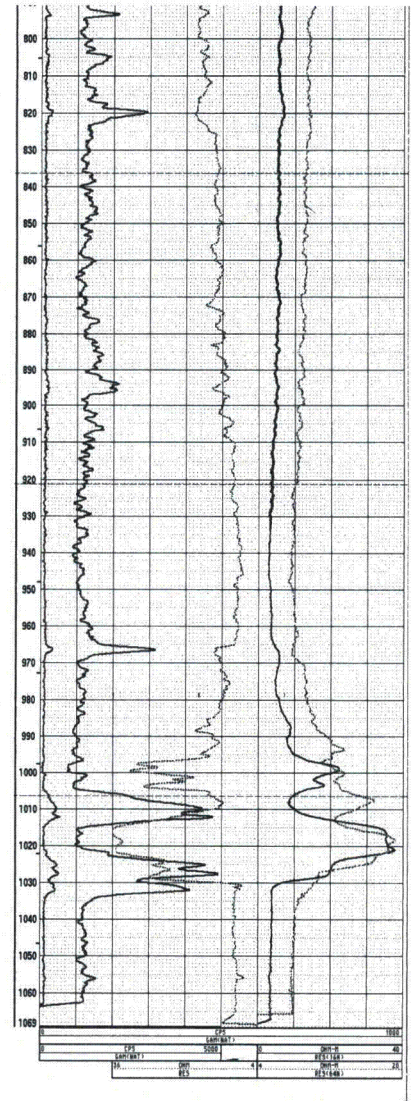
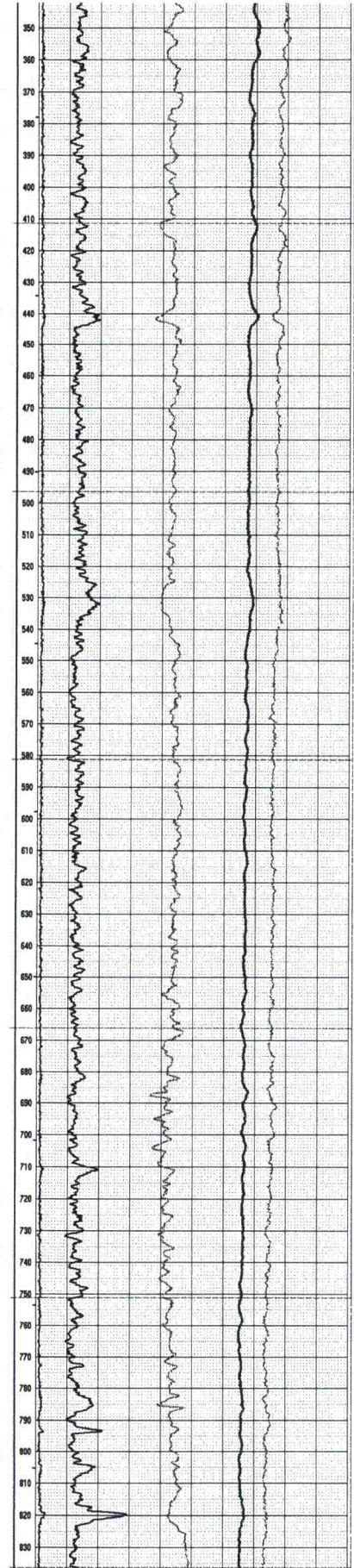
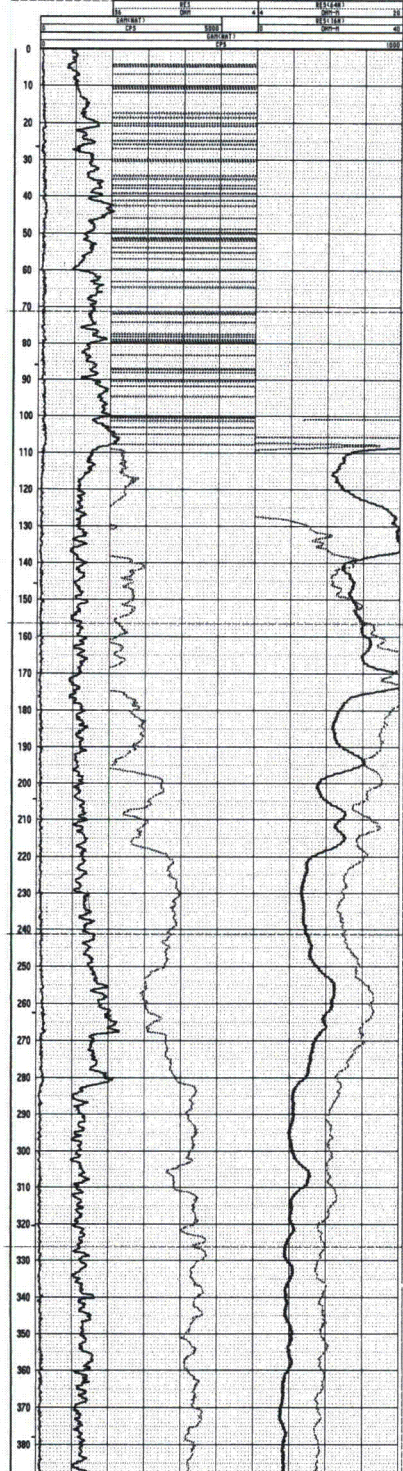
(b)



**Century Geophysical Corp.**  
N-845 4650-3400

CONTRACT NO.	12-10-85	OTHER SERVICES	NO-ANALYST
WELL NO.	806 283	LOG NUMBER	E-145533
LOCATION/TITLE	STATE	TOWNSHIP	RANGE
DATE	02/28/77	PERMIT NO.	01
DRILLER	LOG BOTTOM	LOG NUMBER	1224
LOG TOP	LOG DATE	LOG NUMBER	
CORING DEPTH	LOGGING UNIT	FIELD OFFICE	OFFICIAL
CORING TYPE	WIRELINE	FILE	000000
CORING TECHNIQUE	WIRELINE	FILE	000000
BIT SIZE	WIRELINE	FILE	000000
WIRELINE	WIRELINE	FILE	000000
WIRELINE	WIRELINE	FILE	000000
WIRELINE	WIRELINE	FILE	000000

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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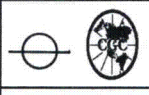
**CROW BUTTE RESOURCES, INC.**

**LOG M-845**



630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

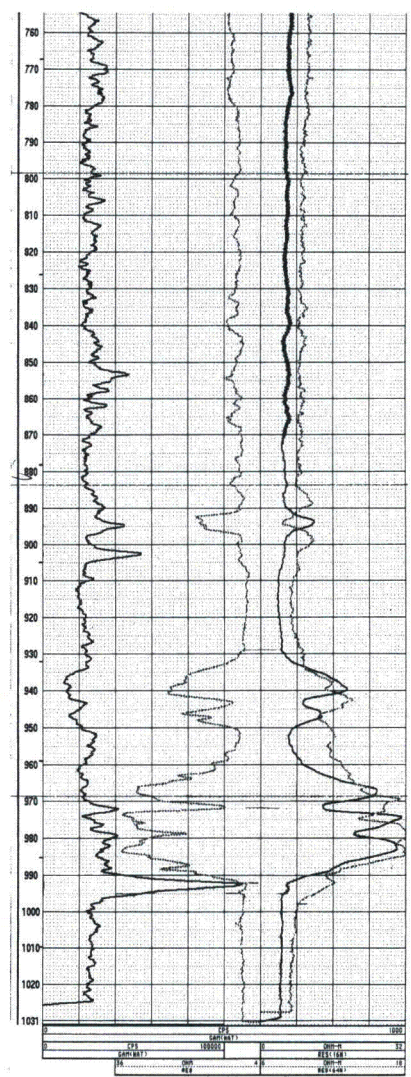
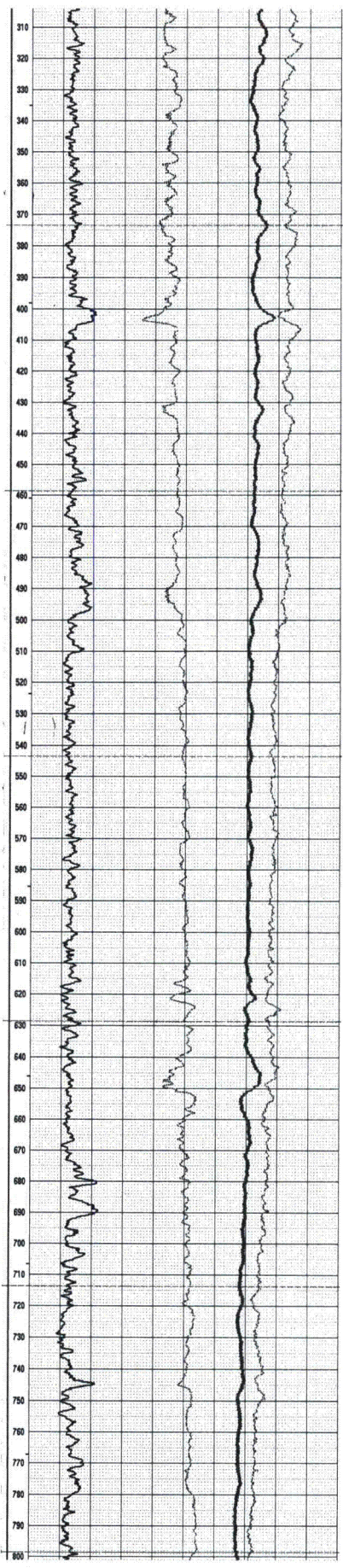
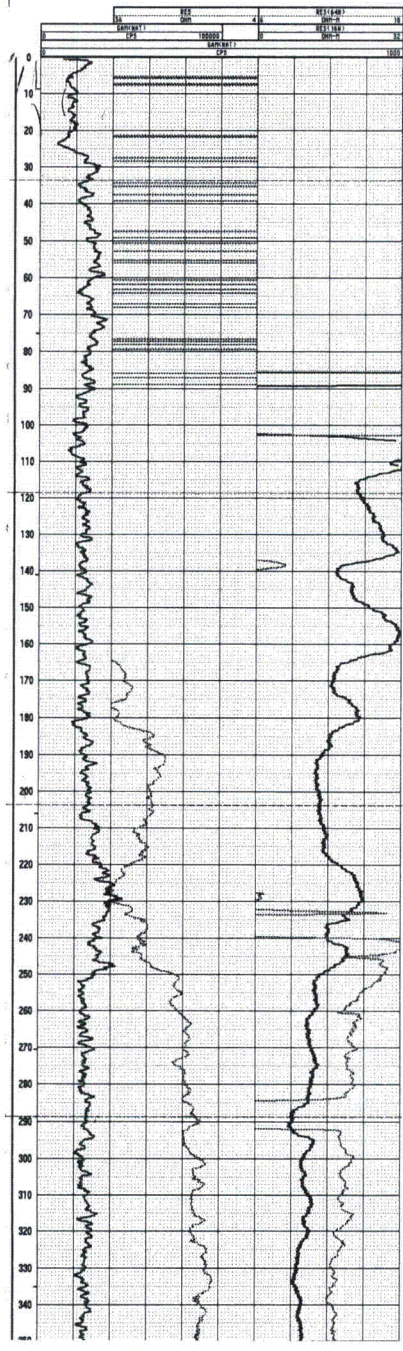
2-A 1-172



**Century**  
GEOLOGICAL CORP.  
M-894 2350-1800

COMPANY	Century	OTHER SERVICES	N-Logistics
WELL	M-894	LOG NUMBER	2350-1800
LOCATION/FIELD	Big Bend	LOG DATE	12-01-02
COUNTRY	USA	STATE	TX
ASST	SP	PROPERTY	SP
DATE	06/16/97	PERMITS	SP
WELL DEPTH	1800	LOG DEPTH	1800
LOG DEPTH	1801.00	LOG DEPTH	1801.00
LOG TOP	0.00	LOG BOTTOM	1801.00
CASING DEPTH	0	LOGGING UNIT	SP
CASING TYPE	0	FIELD OFFICE	SP
CASING RECORDS	0	RECORDING	SP
BIT SIZE	8.25	WIRELINE FILED	SP
DIAMETER	8.25	LOG TEMP	SP
WELLBORE DEPTH	1800	LOG TEMP	SP
WELLBORE DEPTH	1800	LOG TEMP	SP
WELLBORE DEPTH	1800	LOG TEMP	SP
WELLBORE DEPTH	1800	LOG TEMP	SP

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS






**CROW BUTTE**  
**RESOURCES, INC.**

**LOG M-894**



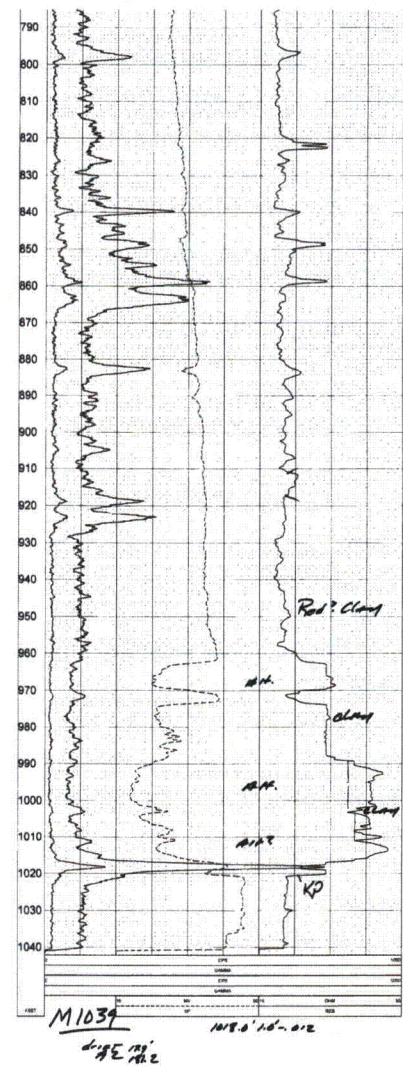
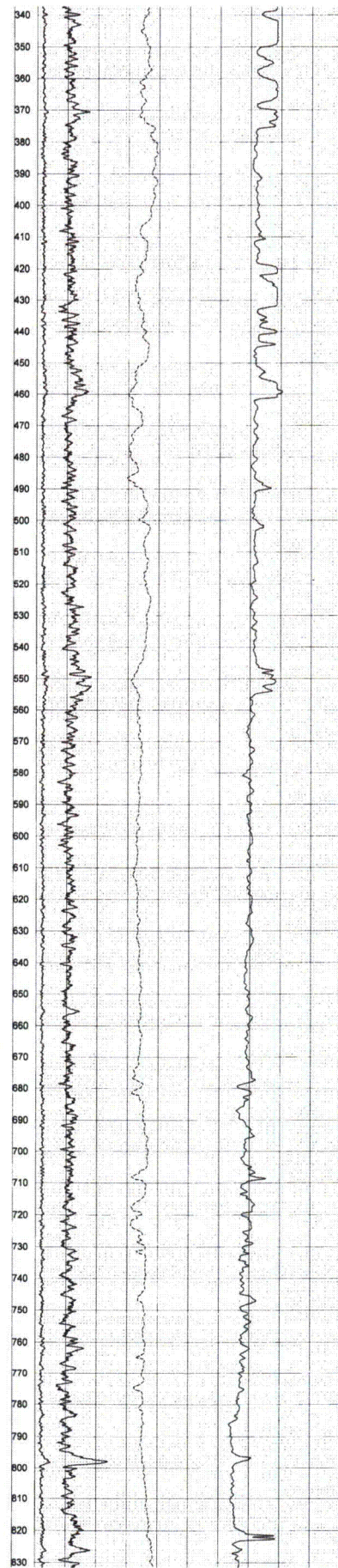
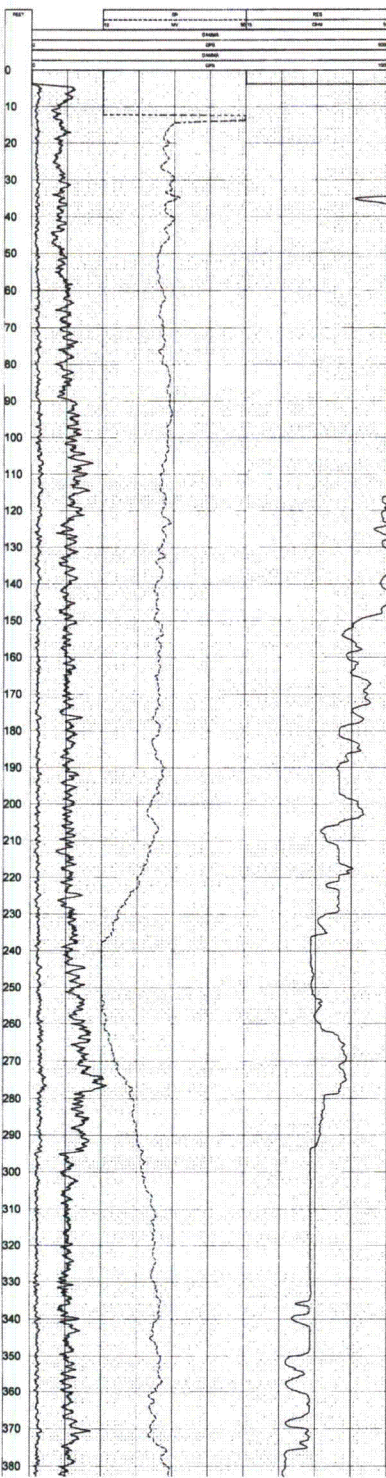
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P. 720-344-3500 F. 720-344-3535  
www.arcadis-us.com



**CROW BUTTE RESOURCES, INC.**  
M-1039

Company	CROW BUTTE RESOURCES	Order Number	1450 - 4950
Location	CROW BUTTE	Well	M1039
Operator	CONQUEST	Start	12
Well ID	1450-4950	End	29
Well Type	Oil	Depth	4211.3
Well Status	Active	Completion	51

Well Name: *Well 1450-4950*  
Date: *2012 Jan 15 15:50:48*




**CROW BUTTE RESOURCES, INC.**

**LOG M-1039**

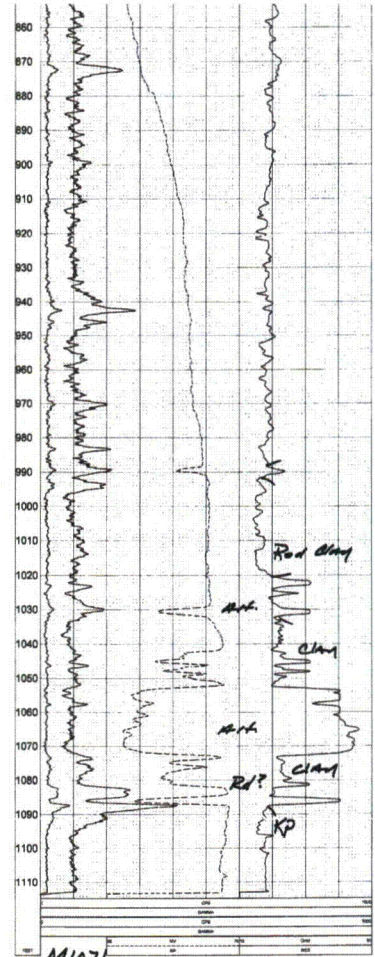
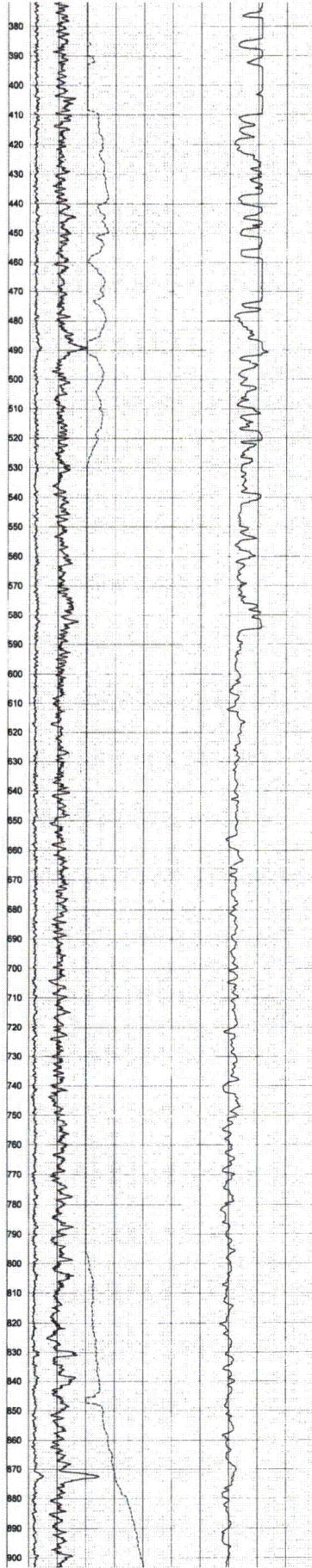
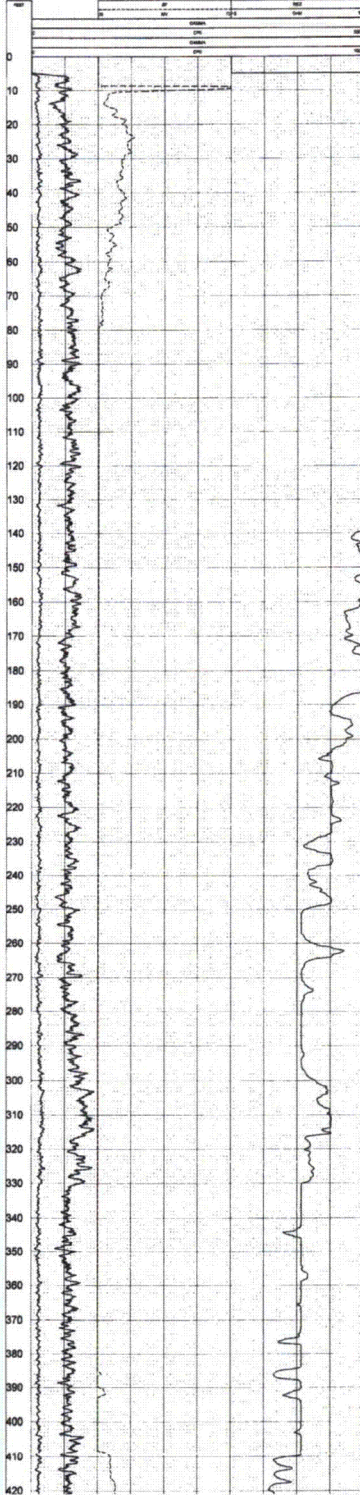
**ARCADIS** 630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

**CROW BUTTE RESOURCES, INC.**

M-1071      **2600 - 4850**

WELL NO.	M-1071	DATE	05/09/2012
WELL TYPE	Oil	DEPTH	4296.4
WELL STATUS	Producing	PERMITS	25
WELL LOCATION	2600 - 4850	WELL NAME	2600 - 4850
WELL SURFACE	2600 - 4850	WELL TYPE	Oil
WELL DEPTH	4296.4	WELL STATUS	Producing
WELL DIRECTION	0°	WELL NAME	2600 - 4850
WELL SURFACE	2600 - 4850	WELL TYPE	Oil
WELL DEPTH	4296.4	WELL STATUS	Producing
WELL DIRECTION	0°	WELL NAME	2600 - 4850

*To be used 200' S of NW 1/4 Sec 11N65E*



M1071  
 LIST 592'  
 MZ 55.5

**CROW BUTTE RESOURCES, INC.**

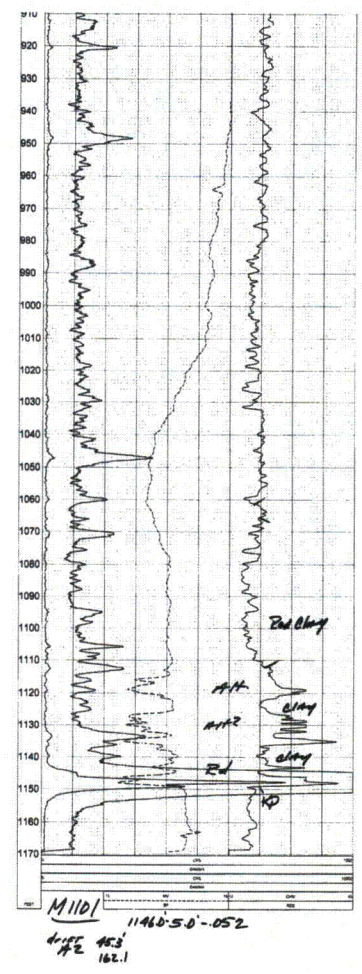
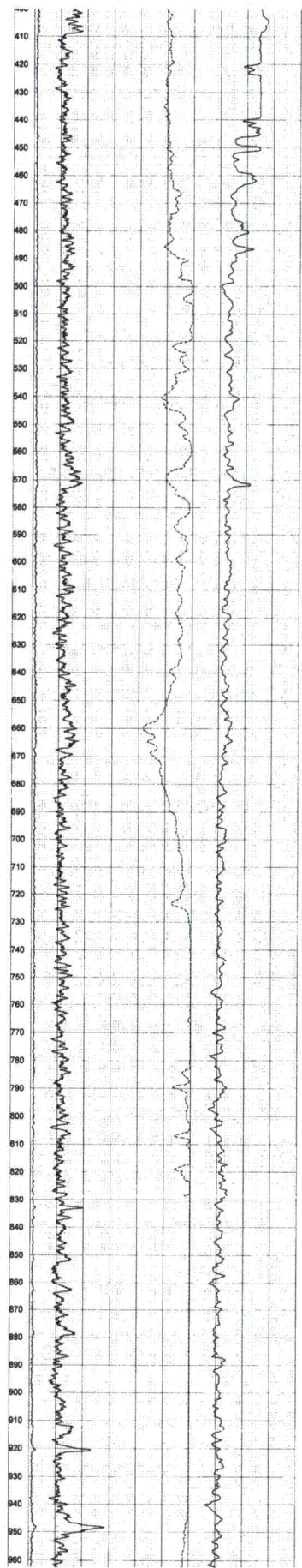
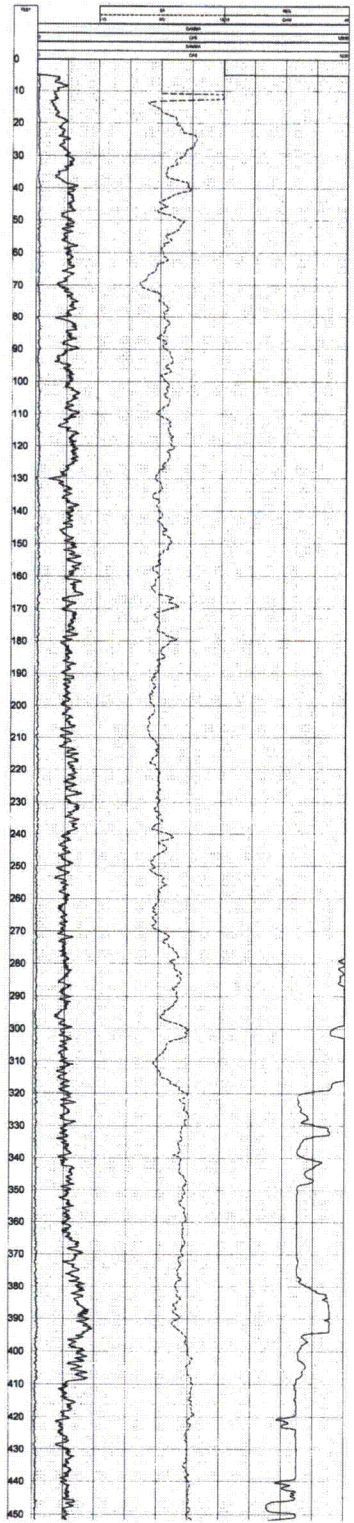
**LOG M-1071**

630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com

**CROW BUTTE RESOURCES, INC.**  
M-1101  
4900 - 130  
08101 30 032.0 01

Client:	Crow Butte Resources
Well:	M-1101
Location:	4900 - 130
Operator:	ARCADIS
Contract:	08101
Well:	30
Depth:	032.0
Flow:	01

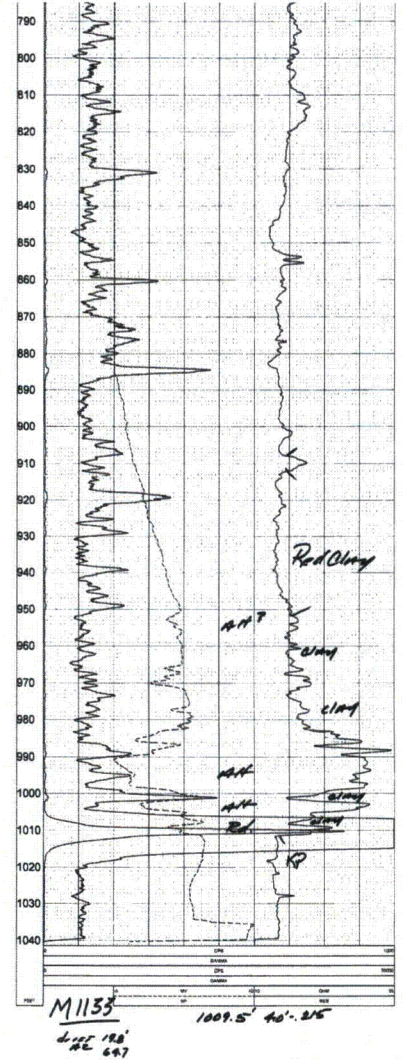
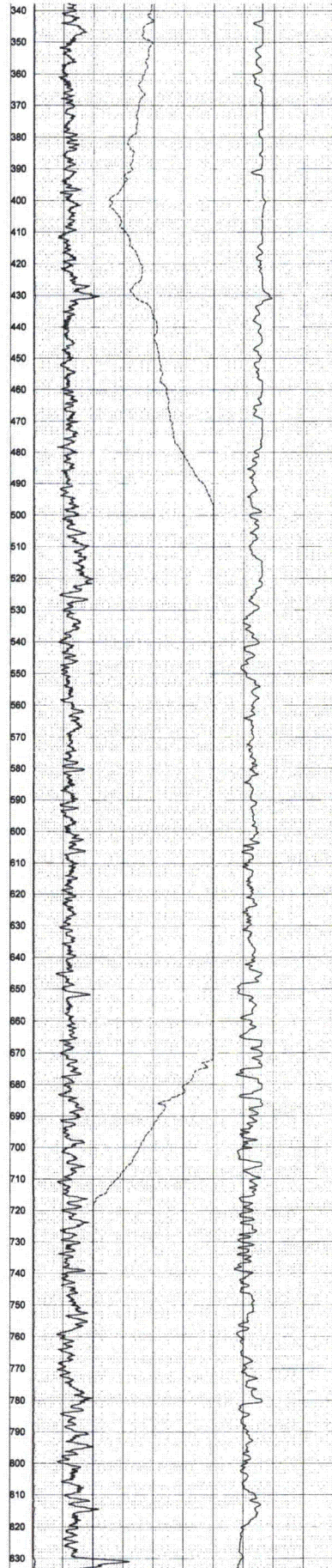
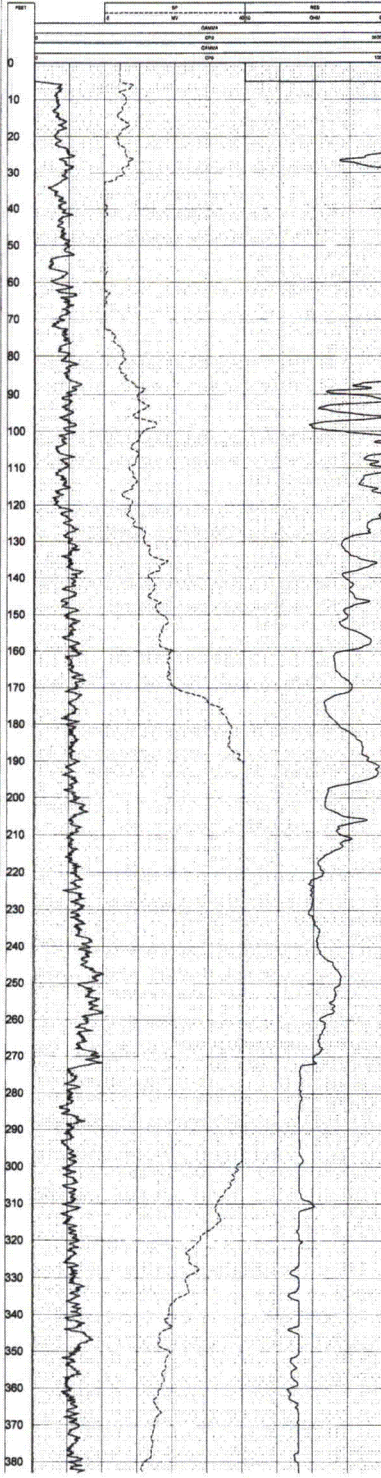
Planning  
100% of cost from ARCADIS



**CROW BUTTE RESOURCES, INC.**  
**LOG M-1101**  
ARCADIS  
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

**CROW BUTTE RESOURCES, INC.**  
M-1133

COMPANY	CROW BUTTE RESOURCES	LOG NUMBER	M-1133
LOG NUMBER	M-1133	DATE	05/09/2012
LOCATION	CROW BUTTE	WELL NAME	M-1133
SECTION	1009.5' 40" 216"	LOG TYPE	LOG
DATE	05/09/2012	LOG DEPTH	1009.5'
LOG DEPTH	1009.5'	LOG START	0'
LOG TOP	0'	LOG END	1009.5'
LOG BOTTOM	1009.5'	LOG TYPE	LOG
LOG TYPE	LOG	LOG SCALE	LOG
LOG SCALE	LOG	LOG UNIT	LOG
LOG UNIT	LOG	LOG INTERVAL	LOG
LOG INTERVAL	LOG	LOG INTERVAL	LOG
LOG INTERVAL	LOG	LOG INTERVAL	LOG



**CROW BUTTE RESOURCES, INC.**

**LOG M-1133**

**ARCADIS**

630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com



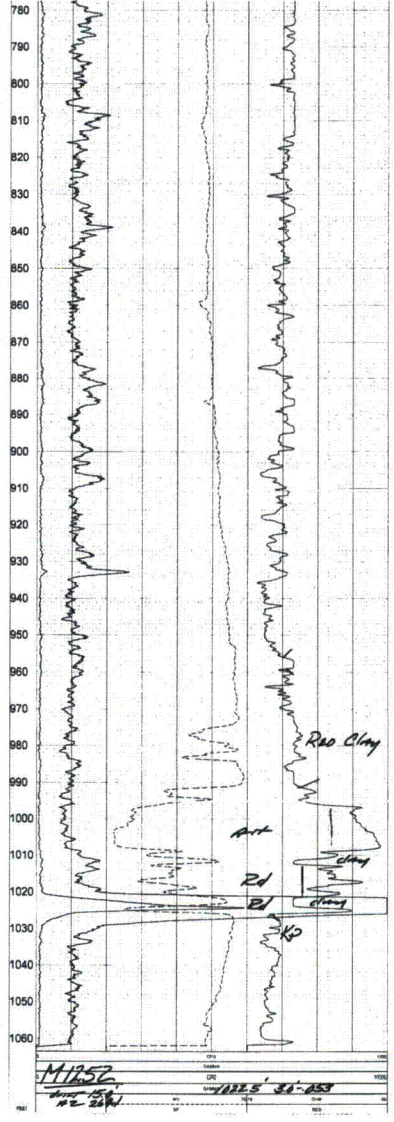
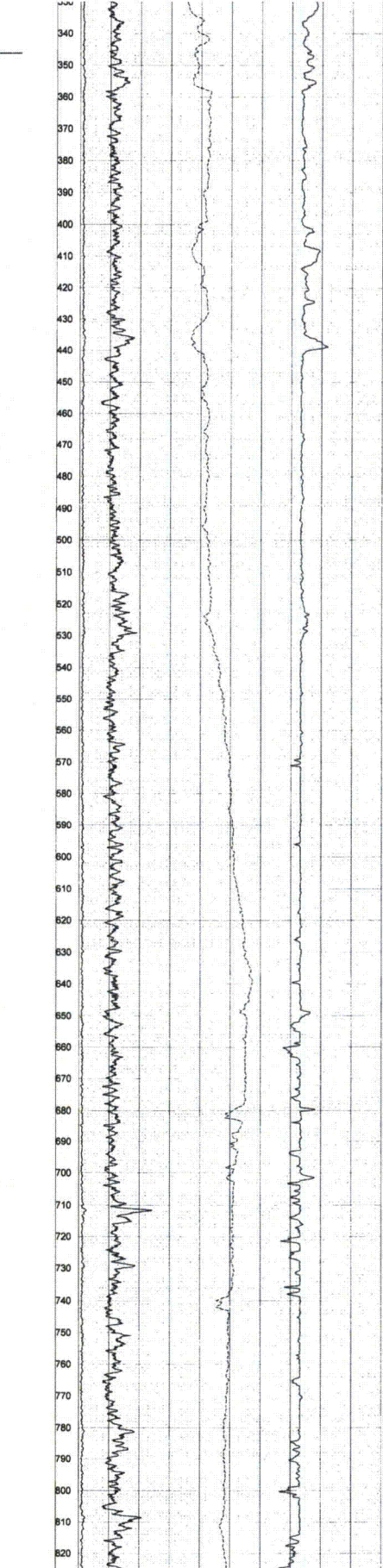
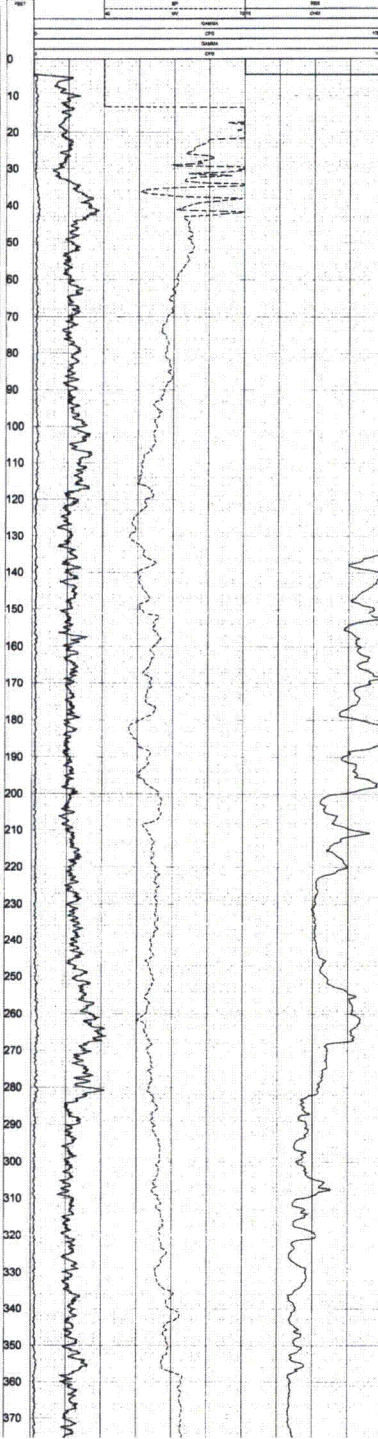


**CROW BUTTE  
RESOURCES, INC.**

M-1252

CROW BUTTE RESOURCES		OTHER SERVICES	
COMPANY	ARCADIS	LOGGING	ARCADIS
PROJECT	MARS LAND 3	LOGGING	ARCADIS
LOCATION	CROW BUTTE	LOGGING	ARCADIS
CLIENT	CROW BUTTE	LOGGING	ARCADIS
LOG NO.	M-1252	LOGGING	ARCADIS
DATE	11/27/12	LOGGING	ARCADIS
DEPTH	0 - 370	LOGGING	ARCADIS
LOG TYPE	370	LOGGING	ARCADIS
LOG TOP	0	LOGGING	ARCADIS
LOG BOTTOM	370	LOGGING	ARCADIS
LOG LENGTH	370	LOGGING	ARCADIS
LOG AREA	136.5	LOGGING	ARCADIS
LOG WEIGHT	136.5	LOGGING	ARCADIS
LOG VOLUME	136.5	LOGGING	ARCADIS
LOG COST	136.5	LOGGING	ARCADIS
LOG REVENUE	136.5	LOGGING	ARCADIS
LOG PROFIT	136.5	LOGGING	ARCADIS
LOG LOSS	136.5	LOGGING	ARCADIS
LOG NET	136.5	LOGGING	ARCADIS
LOG TOTAL	136.5	LOGGING	ARCADIS

*Handwritten:* M-1252  
200 20/Jan 11/12




**CROW BUTTE  
RESOURCES, INC.**

**LOG M-1252**



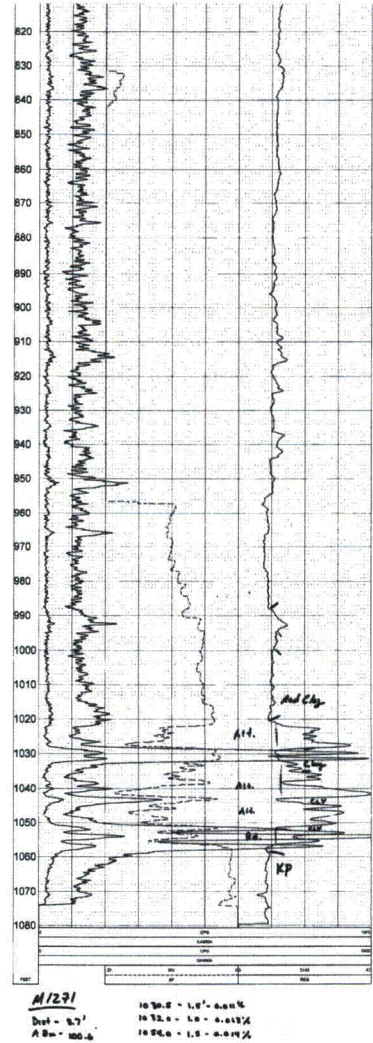
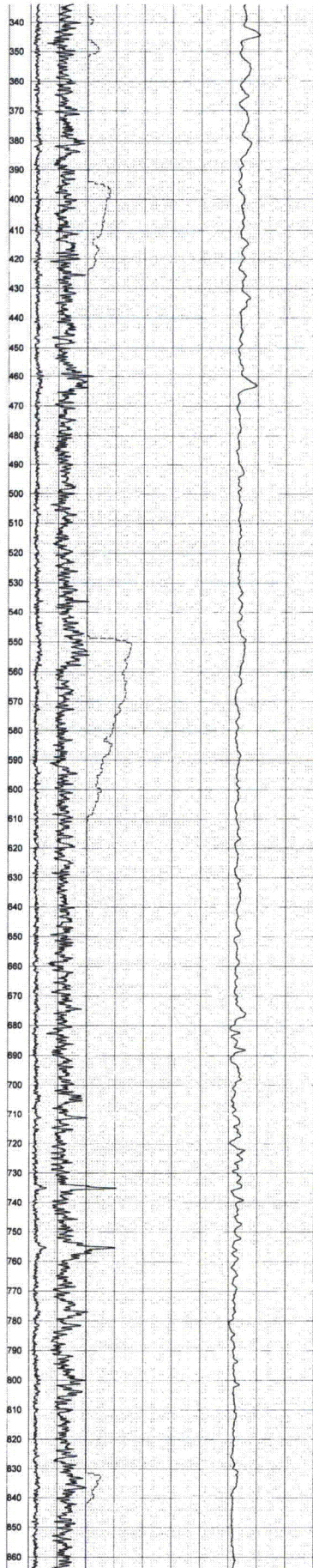
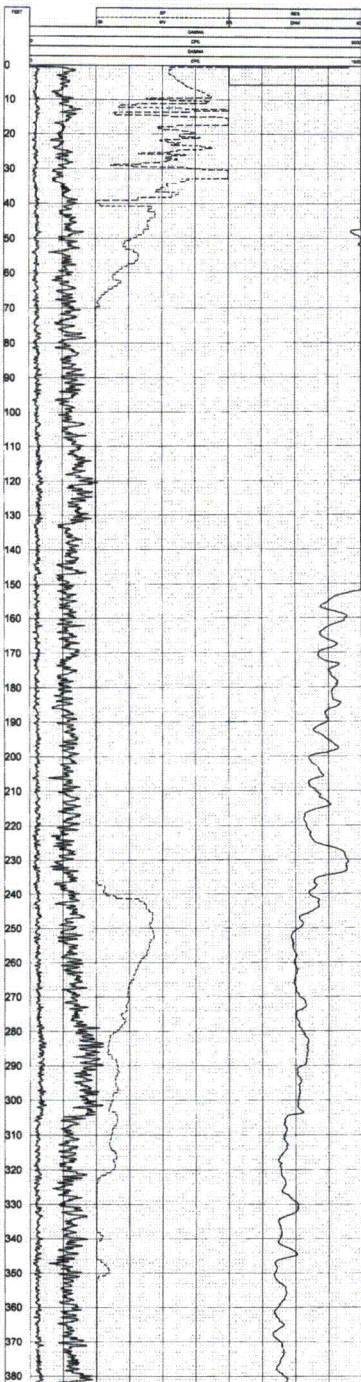
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com



**CROW BUTTE  
RESOURCES, INC.**

M-1271a

COMPANY: Crow Butte Resources, Inc. ADDRESS: 630 Plaza Drive, Ste. 100 Highlands Ranch, CO 80129 PHONE: 720-344-3500 FAX: 720-344-3535 WWW: www.arcadis-us.com		PROJECT: M-1271a CLIENT: ARCADIS CONTRACT NO.: 435a DATE: 05/09/2012	
LOG NO.: M-1271a LOG DATE: 05/09/2012 LOG TIME: 10:00 LOG LOCATION: 630 Plaza Drive, Ste. 100 Highlands Ranch, CO 80129		LOG TYPE: M-1271a LOG SCALE: 1:1 LOG SHEETS: 1 of 1 LOG DRAWN BY: J.Chen LOG CHECKED BY: J.Chen	






**CROW BUTTE  
RESOURCES, INC.**

**LOG M-1271**



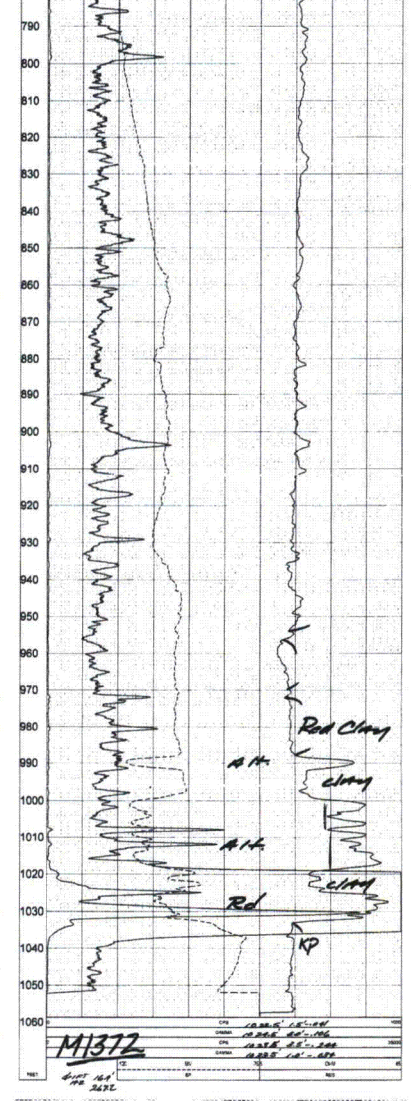
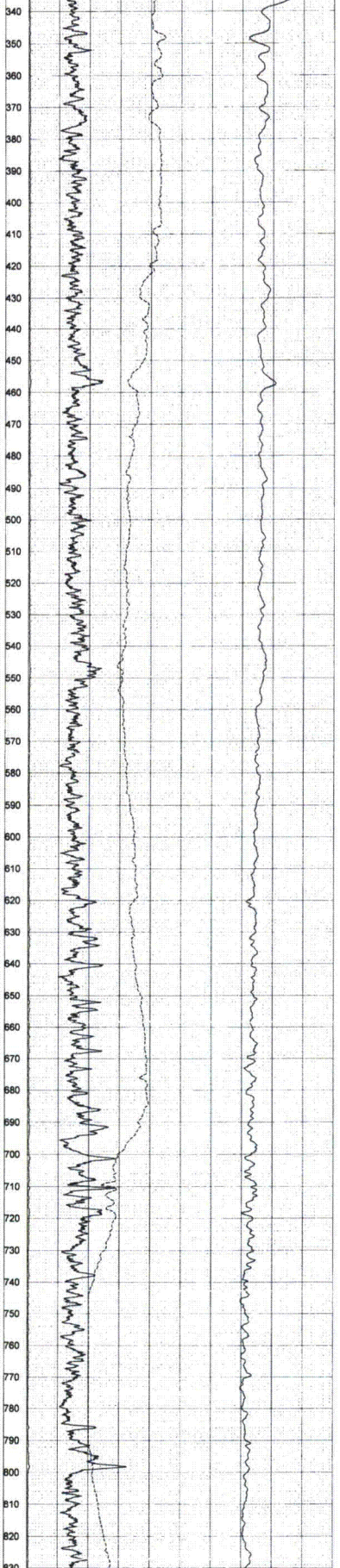
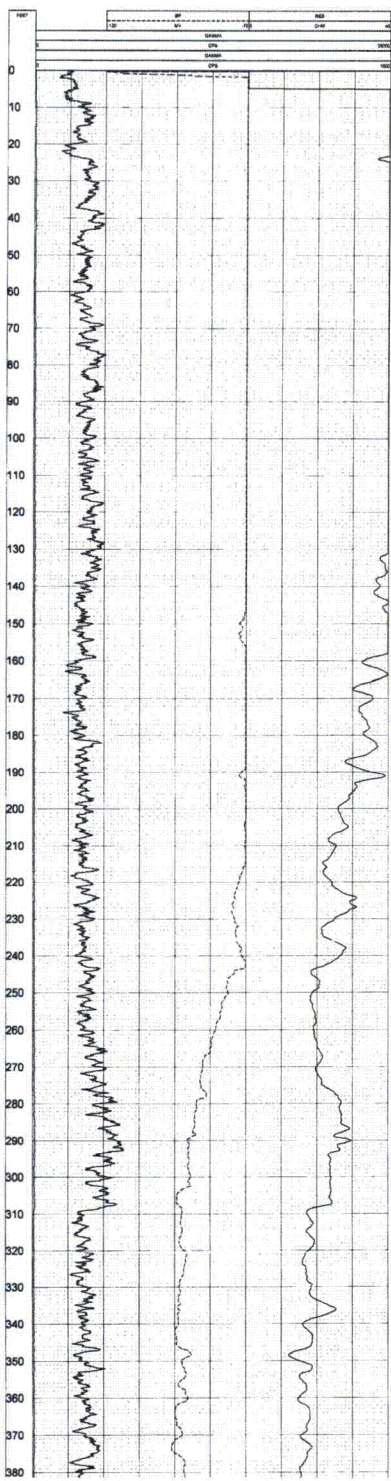
630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P. 720-344-3500 F. 720-344-3535  
 www.arcadis-us.com



**CROW BUTTE RESOURCES, INC.**  
M-1372

COMPANY: CROW BUTTE RESOURCES	CLIENT: M-1372
WELL: 0001	WELL TYPE: OIL
LOCATION: COLORADO	DATE: 08/11/09
WELL: 12-11-11	DEPTH: 1100
DEPTH: 1100	LOG TYPE: LOG
LOG TYPE: LOG	LOG INTERVAL: 10
LOG INTERVAL: 10	LOG START: 0
LOG START: 0	LOG END: 1100
LOG END: 1100	LOG TYPE: LOG
LOG TYPE: LOG	LOG INTERVAL: 10
LOG INTERVAL: 10	LOG START: 0
LOG START: 0	LOG END: 1100
LOG END: 1100	LOG TYPE: LOG

Log Interval: 10  
Log Start: 0  
Log End: 1100





**CROW BUTTE RESOURCES, INC.**

**LOG M-1372**



630 Plaza Drive, Ste 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

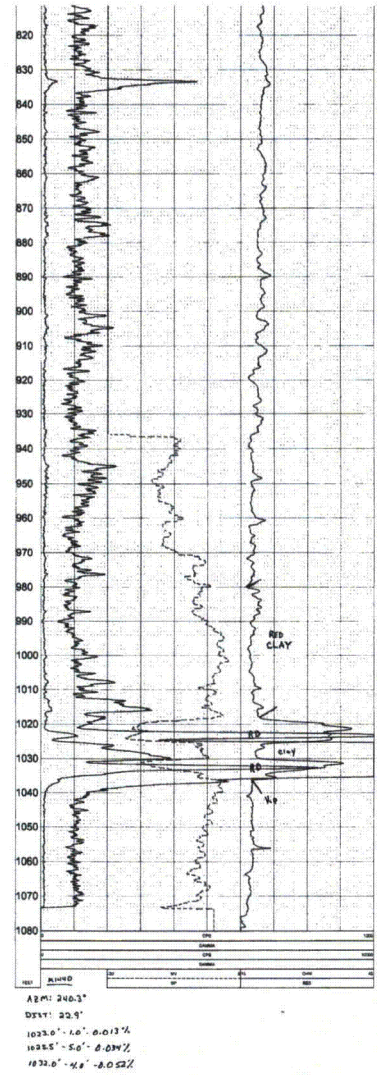
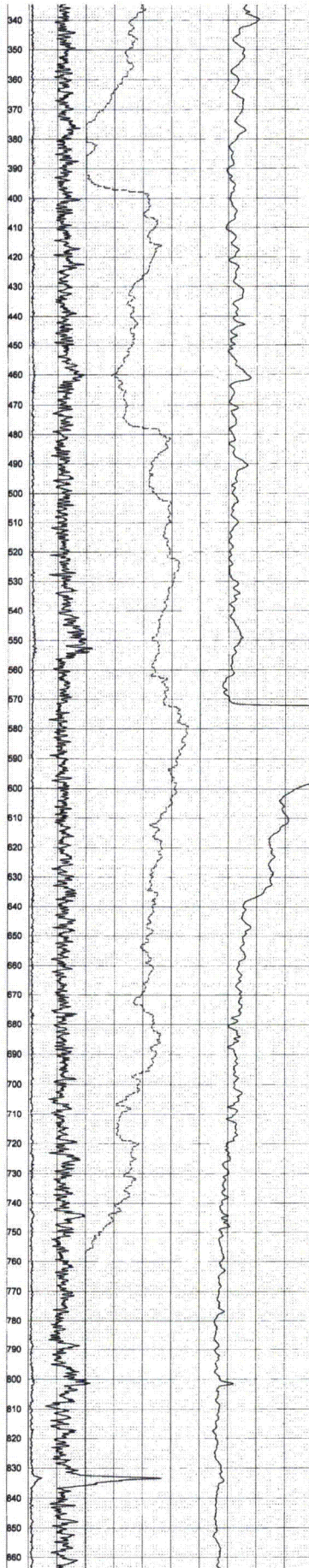
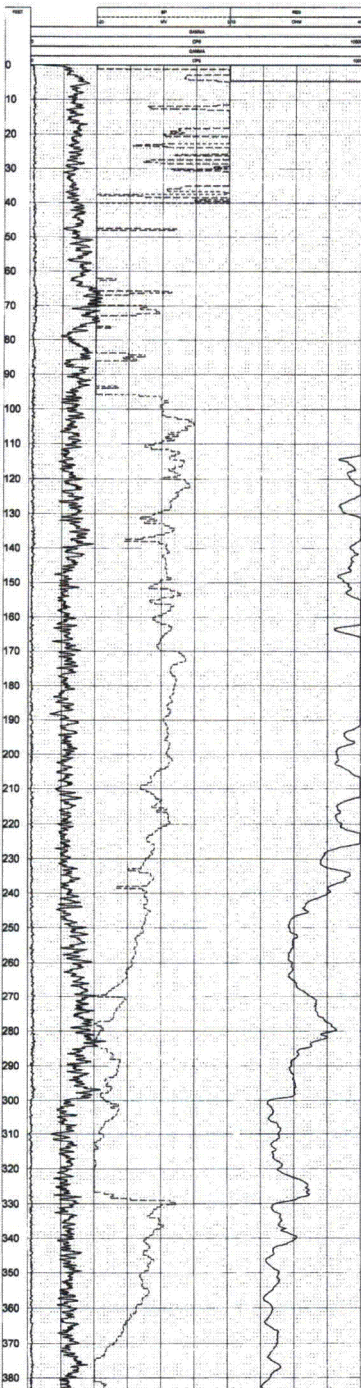


**CROW BUTTE  
RESOURCES, INC.**

M-1440

Well Name	M-1440	Well Type	Oil
Operator	Crow Butte Resources, Inc.	Location	Marland 3
Well Status	Producing	Depth	380'
Well Path	Vertical	Completion Date	05/09/2012
Wellbore Diameter	4.5"	Wellhead Diameter	4.5"
Wellhead Height	10'	Wellhead Type	Standard
Wellhead Material	Steel	Wellhead Weight	150 lbs
Wellhead Manufacturer	Flowline	Wellhead Model	Flowline
Wellhead Serial	1000000000	Wellhead Part	1000000000
Wellhead Date	05/09/2012	Wellhead Price	10000.00
Wellhead Weight	150 lbs	Wellhead Length	10'
Wellhead Material	Steel	Wellhead Finish	Paint
Wellhead Manufacturer	Flowline	Wellhead Model	Flowline
Wellhead Serial	1000000000	Wellhead Part	1000000000
Wellhead Date	05/09/2012	Wellhead Price	10000.00
Wellhead Weight	150 lbs	Wellhead Length	10'
Wellhead Material	Steel	Wellhead Finish	Paint
Wellhead Manufacturer	Flowline	Wellhead Model	Flowline
Wellhead Serial	1000000000	Wellhead Part	1000000000
Wellhead Date	05/09/2012	Wellhead Price	10000.00

100' E x 100' S Area




**CROW BUTTE  
RESOURCES, INC.**

**LOG M-1440**

**ARCADIS** 630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com

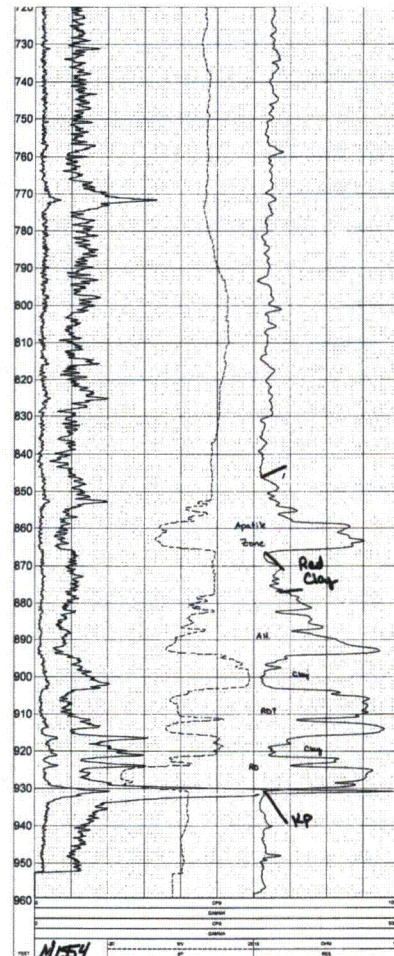
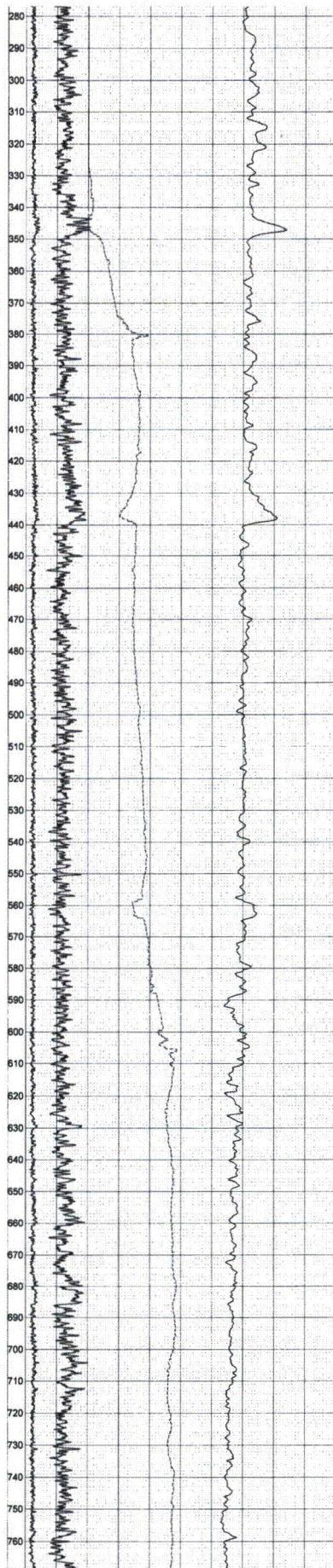
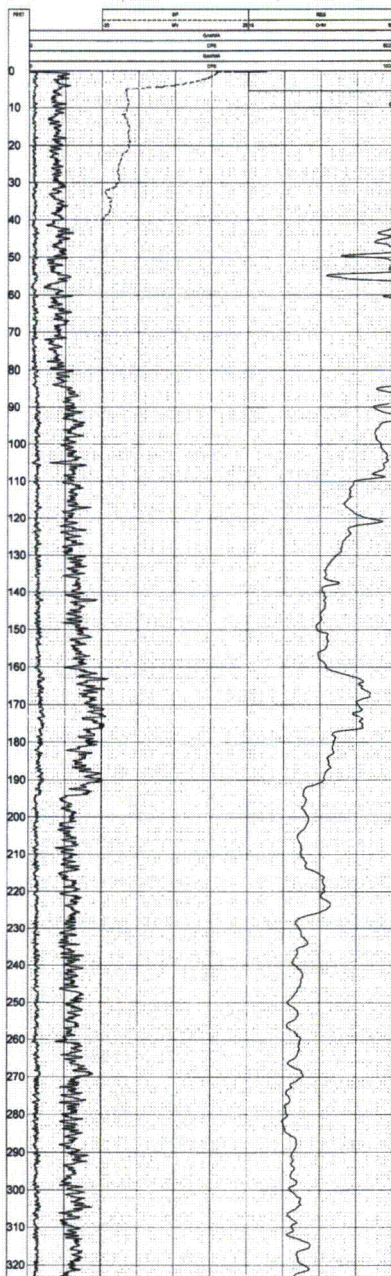
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**CROW BUTTE RESOURCES, INC.**  
M-1554

COMPANY: CROW BUTTE	OTHER SERVICE:
WELL: M-1554	
LOCATION: DENVER	
COUNTY: DENVER COUNTY	
SECTION: 36	
TOWNSHIP: 37N	RANGE: 65W
DATE: 07/27/07	PERMITS: 0101
LOG NUMBER: 001	LOG REVISION: 01
LOG DATE: 07/27/07	LOG REVISION DATE: 07/27/07
LOGGING UNIT: SP	LOGGING COMPANY: CROW BUTTE
LOGGING BY: J. CHEN	REVISIONS BY: SP
BY: J. CHEN	APPROVED BY: J. CHEN
DATE: 07/27/07	DATE: 07/27/07
SCALE: 1:1	SCALE: 1:1
DEPTH: 0-320'	DEPTH: 0-320'

**Forman ~ 200' E of MST1**

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**M-1554**  
AZM: 149.5°  
DIST: 30.6'



**CROW BUTTE RESOURCES, INC.**

**LOG M-1554**

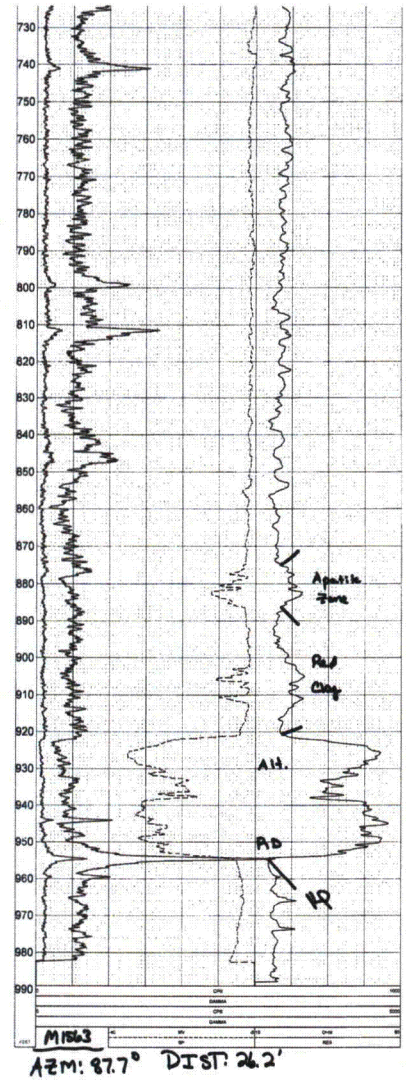
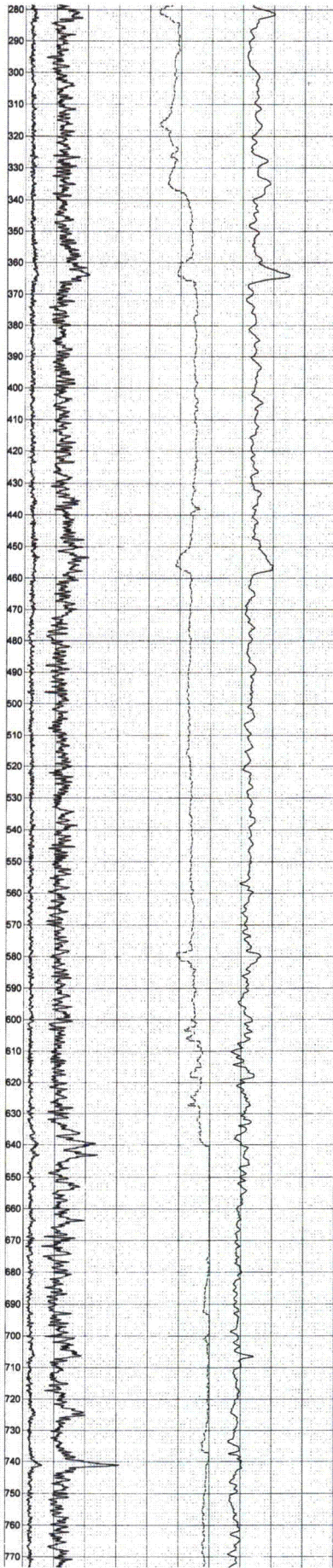
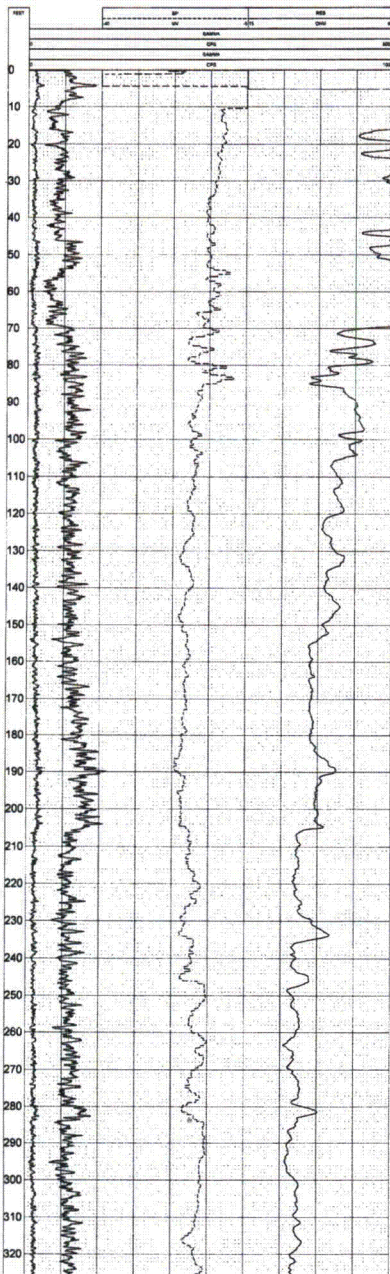


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**CROW BUTTE RESOURCES, INC.**  
M-1563

WELL:	CHEN BUTTE	FORMATION:	
WELL NO.:	15765		
COUNTY:	GARFIELD COUNTY		
SECTION:	15	TOWNSHIP:	35N
RANGE:	10W		
DATE:	05/07/12	PERMIT/STATE:	12, 41967
OPERATOR:	CR	LOG NUMBER:	1563
LOG BOTTOM:	480'	PERMITS/STATE:	12, 41967
LOG TOP:	10'	LOG NUMBER:	1563
CHARGE NUMBER:	15	LOGGING UNIT:	CR
CHARGE TIME:		LOGGING:	CR
CHARGE TECHNICIAN:		RECORDED BY:	DAVE DUNN
SP. LOG:	1.0	WIRE-LOG FLUID:	WGS
WIRE-LOG LOG:	1.0	NO. TEMPERATURE:	88
WIRE-LOG LOG:	1.0	WIRE-LOG LOG:	88
WIRE-LOG LOG:	1.0	WIRE-LOG LOG:	88

Forman ~ 400' N from 1650-5175




CROW BUTTE RESOURCES, INC.

LOG M-1563



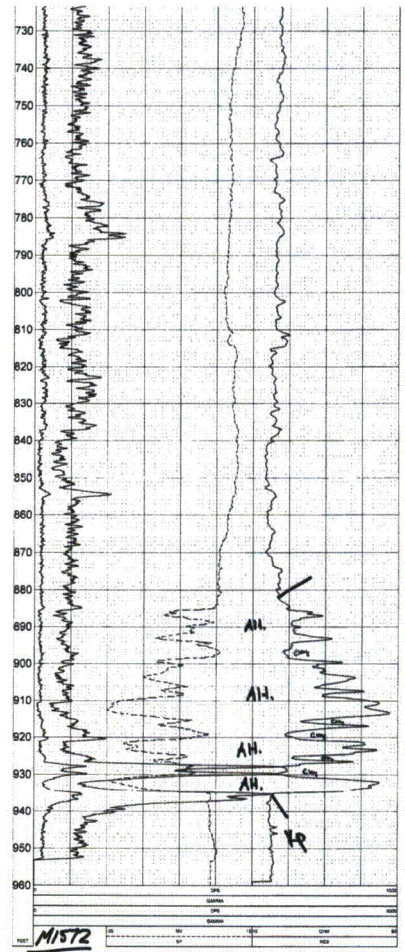
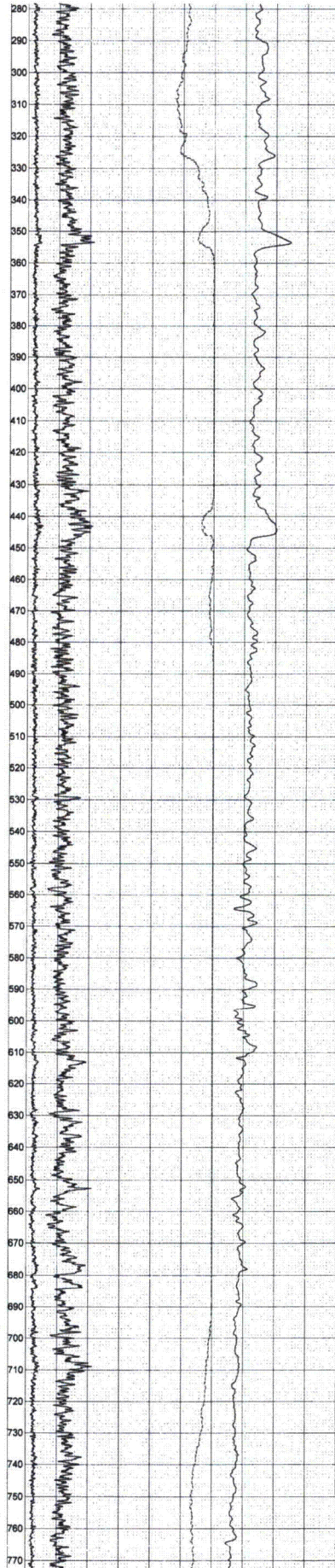
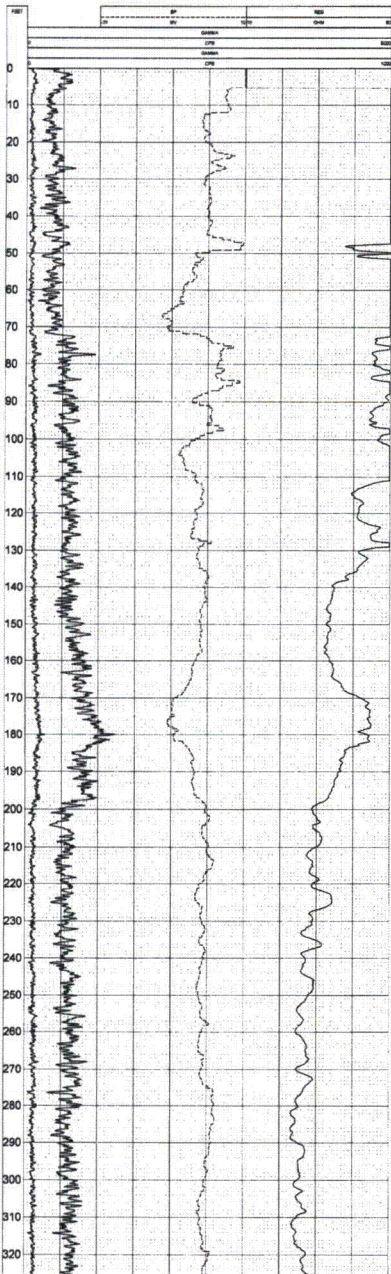
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**CROW BUTTE RESOURCES, INC.**  
M-1572 O

WELL: CROW BUTTE  
DATE: 11/17/10  
LOG #/WELL: CBR-10-002  
LOCALITY: CROW BUTTE  
SECTION: 24 W 38 N 4 E  
TOWNSHIP: 38 N  
RANGE: 34 W  
ZONE: 10 E  
FORMATION: PLUG  
LOG #/WELL: CBR-10-002  
LOCALITY: CROW BUTTE  
SECTION: 24 W 38 N 4 E  
TOWNSHIP: 38 N  
RANGE: 34 W  
ZONE: 10 E  
FORMATION: PLUG

ALL RIGHTS RESERVED TO PROPERTY OWNERS AND OPERATORS



M1572  
AZM: 45.6°  
DIST: 7.2'

Source File Local... CBR\_ Projects\CO001636\_Marsland\3\_IMAGES\Illustrator\Log\Figures\ Formatted By: J.Chen @ Boulder, CO 05/09/2012




**CROW BUTTE RESOURCES, INC.**

**LOG M-1572**



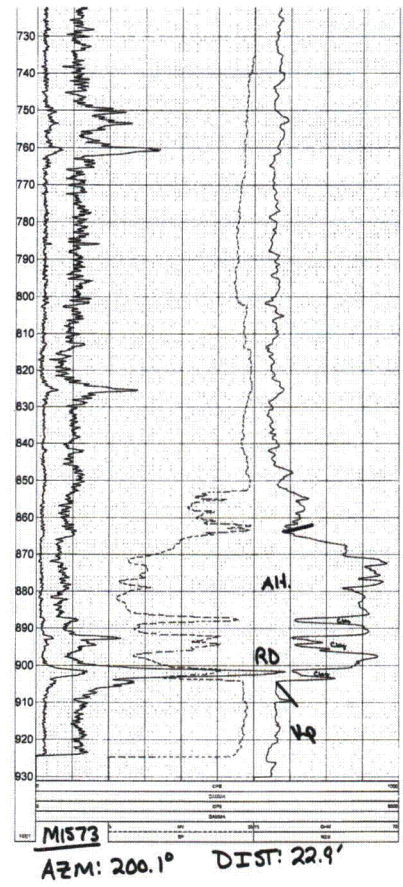
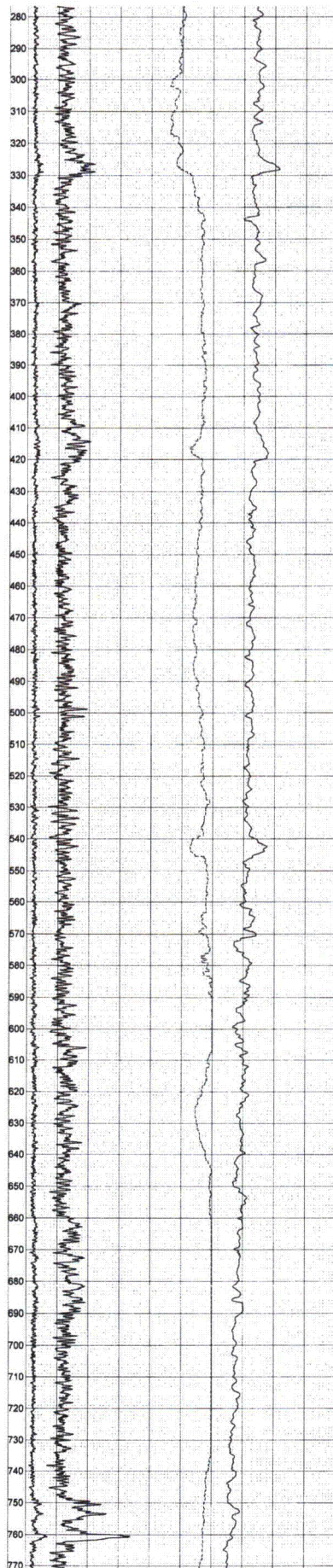
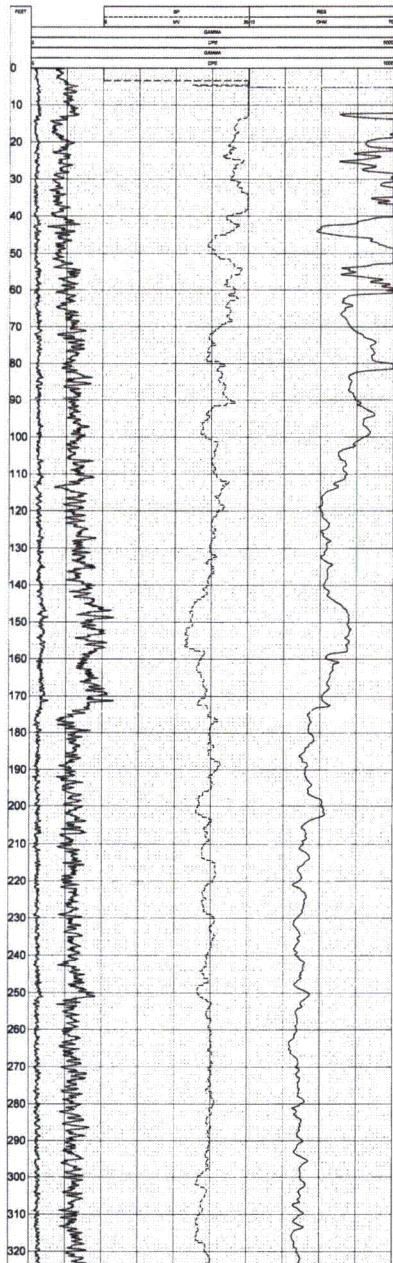
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**CROW BUTTE  
RESOURCES, INC.**  
M-1573

COMPANY	CROW BUTTE	LOG NUMBER	M-1573
WELL	1573	LOG DATE	05/09/2012
LOGGERS	CHEN, J.	LOG TIME	08:00
LOCATION	NEARBY	LOG TYPE	LOG
DEPTH	320'	LOG SCALE	1:1
DATE	05/09/2012	LOG SHEETS	1
DEPTH TO TOP	320'	LOG SHEETS FROM	1
LOGGERS	CHEN, J.	LOG SHEETS TO	1
LOG TYPE	LOG	LOG SHEETS FROM	1
LOG SCALE	1:1	LOG SHEETS TO	1
LOG SHEETS	1	LOG SHEETS FROM	1
LOG SHEETS FROM	1	LOG SHEETS TO	1
LOG SHEETS TO	1	LOG SHEETS FROM	1
LOG SHEETS FROM	1	LOG SHEETS TO	1
LOG SHEETS TO	1	LOG SHEETS FROM	1

**Forman ~200' E FROM M1556**




**CROW BUTTE  
RESOURCES, INC.**

**LOG M-1573**



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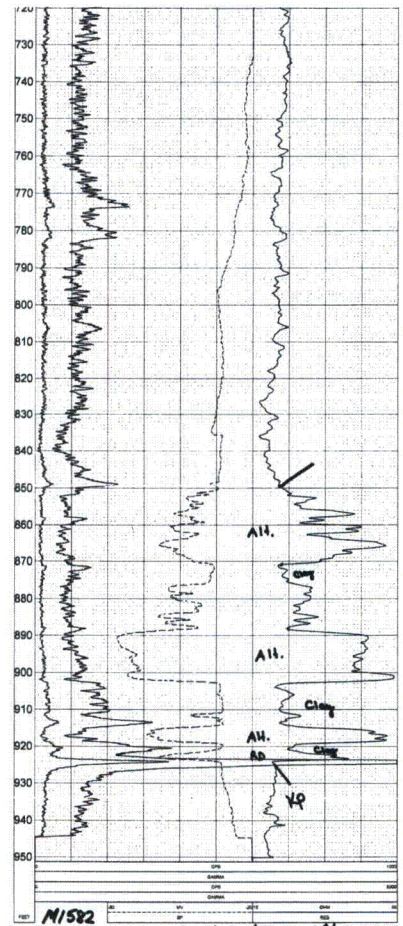
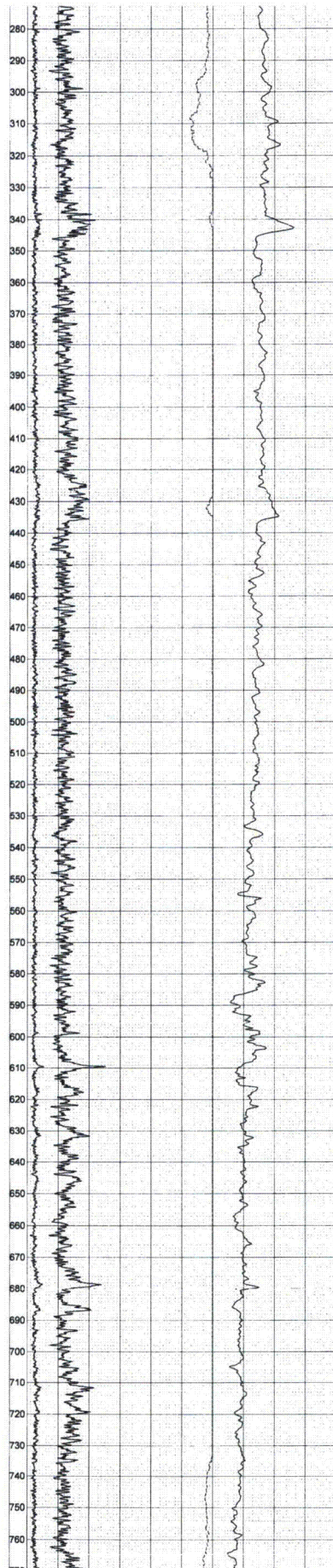
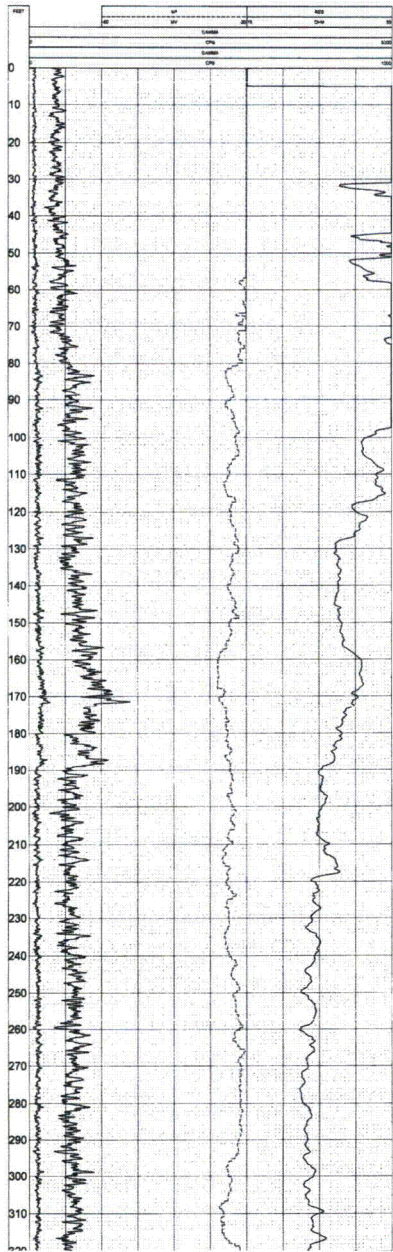


**CROW BUTTE  
RESOURCES, INC.**

M-1582

COMPANY	CROW BUTTE	OTHER SERVICES	
WELL	M-1582		
LOCATION/FIELD	DEWAROOD		
COUNTY	MINERAL COUNTY		
SECTION	10000000		
TOWNSHIP	30N		
RANGE	50W		
DATE	8/27/12	PERMITS/STATUS	OK - 100%
DEPTH/DEPTH	80' / 10'	LOG MEASUREMENT	OK
LOG DEPTH	90' / 10'	DR. MEASUREMENT	OK
LOG TOP	10'	FIELD OFFICE	TOWNSHIP
LAND SURVEY	10'	REGISTRATION	OK
LAND TYPE			
OWNER	LR	WARRANTY FILED	NO
WARRANTY DEC.	11/17	NO	FILE ORIGINAL
WARRANTY EXPIRES	8/18	NO	FILE COPY
ACQUISITION METHOD	CONTRACTING	NO	FILE E

**FURMAN ~ 200' S FROM MISS**  
ALL MEASUREMENTS ARE IN FEET UNLESS OTHERWISE SPECIFIED



M/582  
AZM: 50.7°  
DIP: 33.5°  
924' - 1.0' - 0.023%



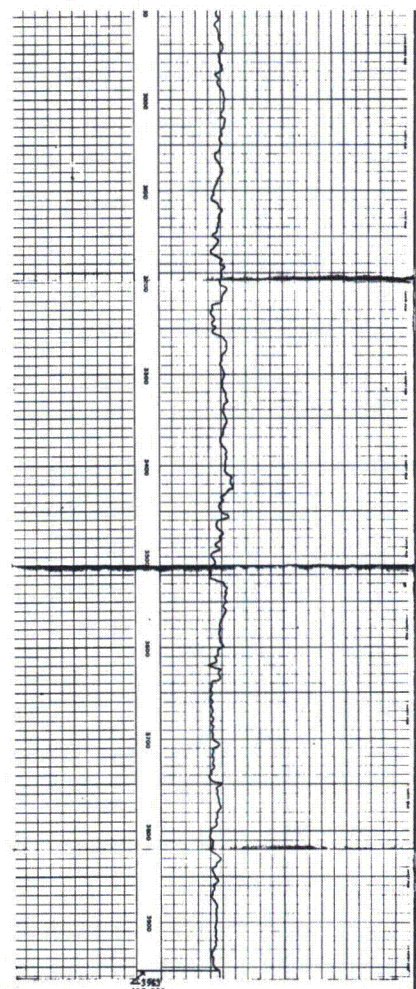
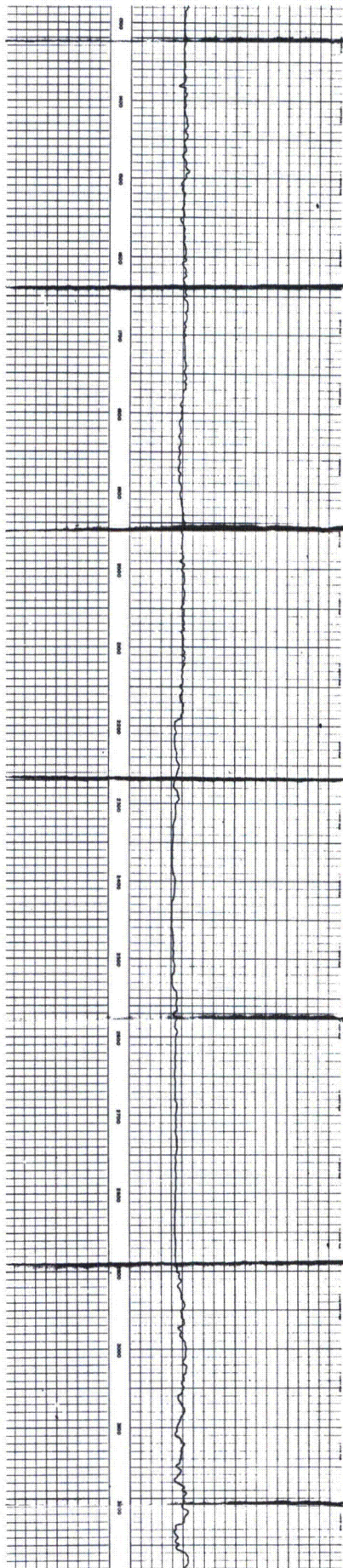
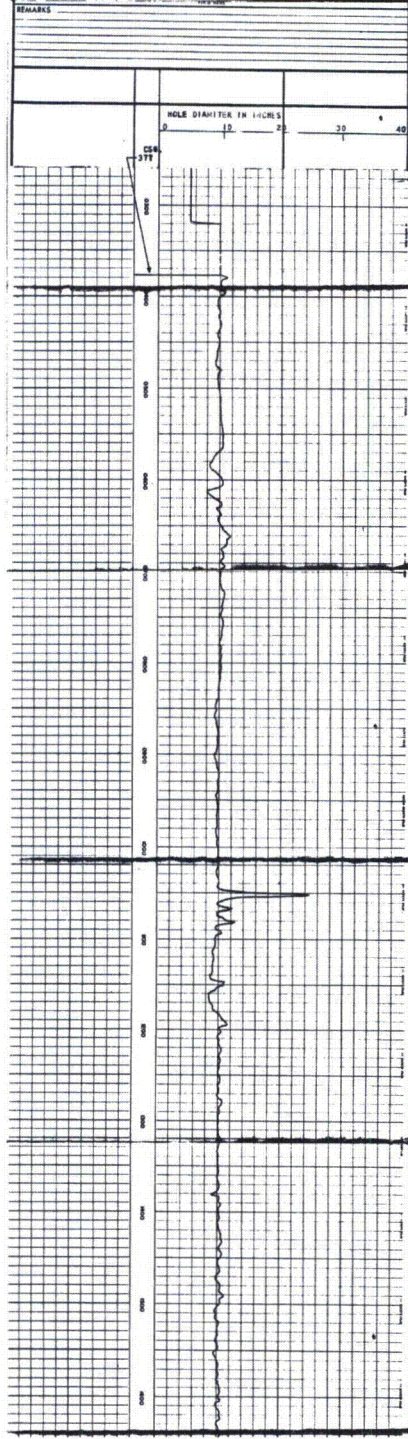
**CROW BUTTE  
RESOURCES, INC.**

**LOG M-1582**



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STANDARD DATA SHEET FOR SEISMIC OPERATIONS	
SECTION NAME	SECTION NUMBER
104157	1009
WELL: SKOLLE #1000 & 1001 WELL NUMBER: 1009	
WELL TYPE: SEISMIC	
WELL DEPTH: 10,000	
WELL DIRECTION: N-S	
WELL STATUS: ACTIVE	
WELL OWNER: SKOLLE #1000 & 1001	
WELL OPERATOR: SKOLLE #1000 & 1001	
WELL SURVEILLANCE: SKOLLE #1000 & 1001	
WELL MAINTENANCE: SKOLLE #1000 & 1001	
WELL REPAIR: SKOLLE #1000 & 1001	
WELL ABANDONMENT: SKOLLE #1000 & 1001	
WELL CLOSURE: SKOLLE #1000 & 1001	
WELL RE-ENTRY: SKOLLE #1000 & 1001	
WELL RE-OPERATION: SKOLLE #1000 & 1001	



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DALLAS, TEXAS 75246

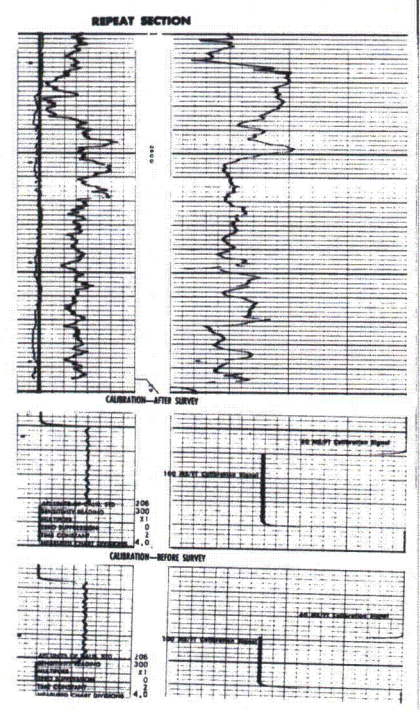
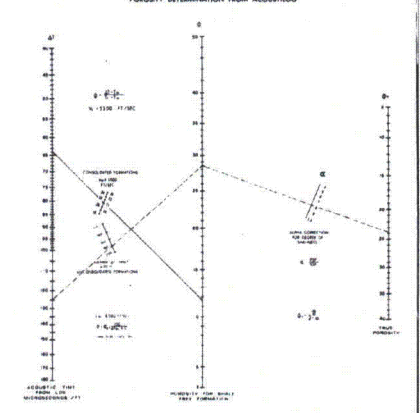
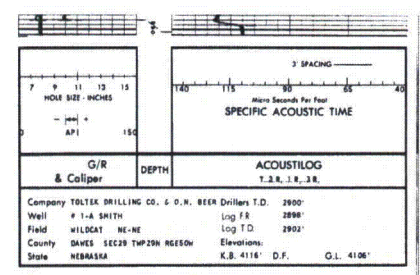
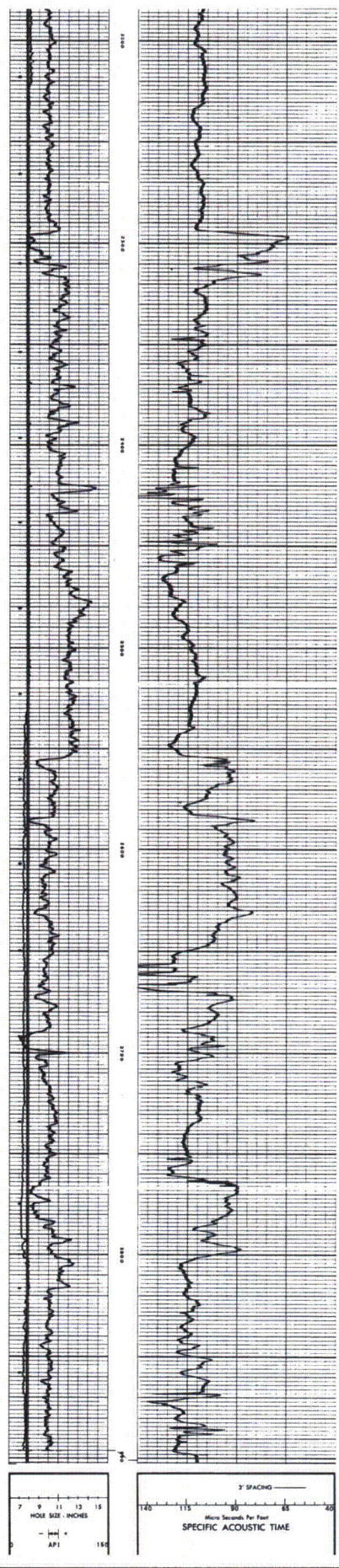
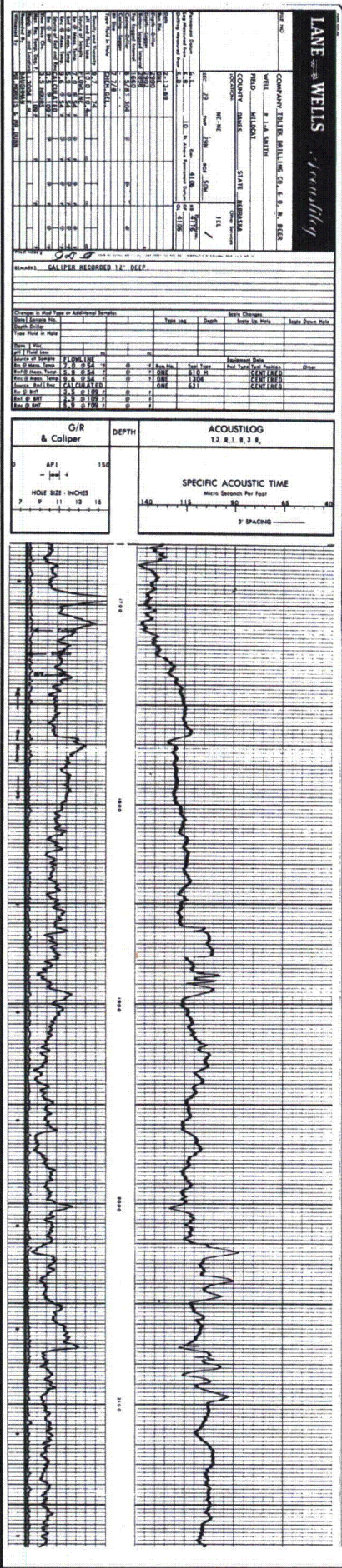


CROW BUTTE  
RESOURCES, INC.

ROYAL LOG



ARCADIS  
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**CROW BUTTE RESOURCES, INC.**

**SMITH 1A LOG**

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