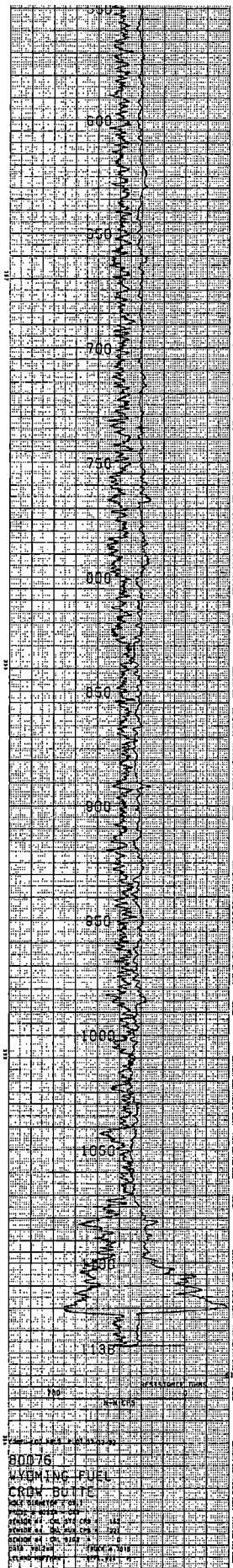
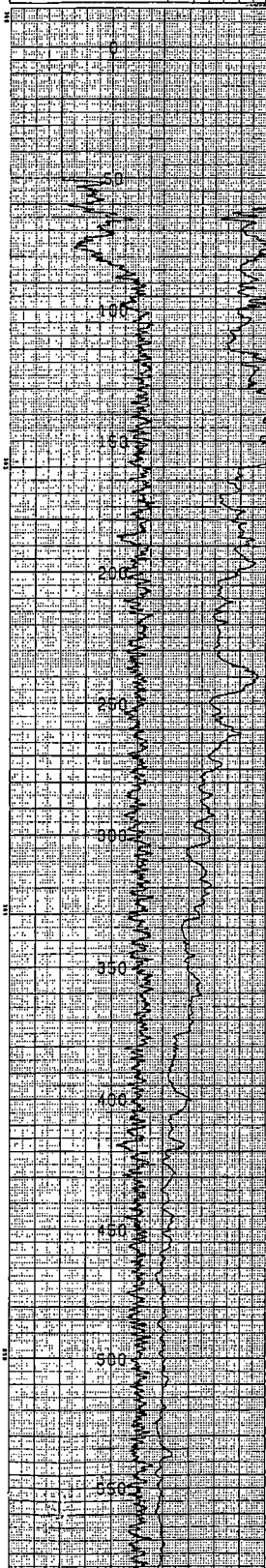


Appendix C

Geophysical Boring Logs

CENTURY SURVEYING CORPORATION	
LOG B-76	
WYOMING FUEL	
CROW BUTTE	
DAWES	
NEW	
DETAILED LOG	
DATE: 10/12/00	
TIME: 10:00	
BY: J. CHEN	
CHECKED BY: J. CHEN	
APPROVED BY: J. CHEN	



CENTURY SURVEYING CORPORATION	
LOG B-76	
WYOMING FUEL	
CROW BUTTE	
DAWES	
NEW	
DETAILED LOG	
DATE: 10/12/00	
TIME: 10:00	
BY: J. CHEN	
CHECKED BY: J. CHEN	
APPROVED BY: J. CHEN	

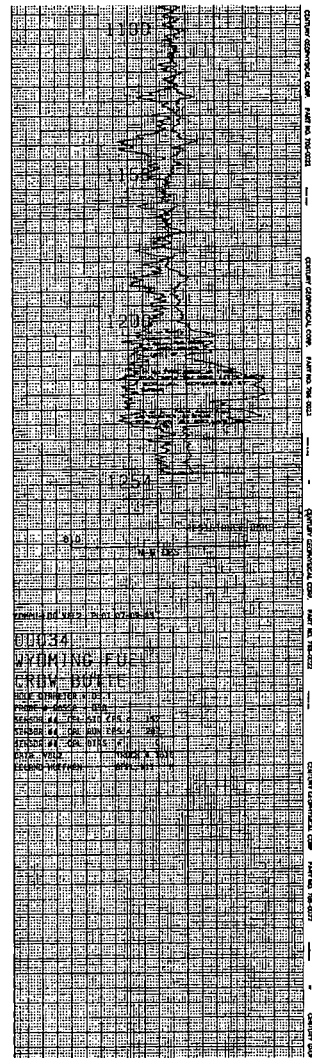
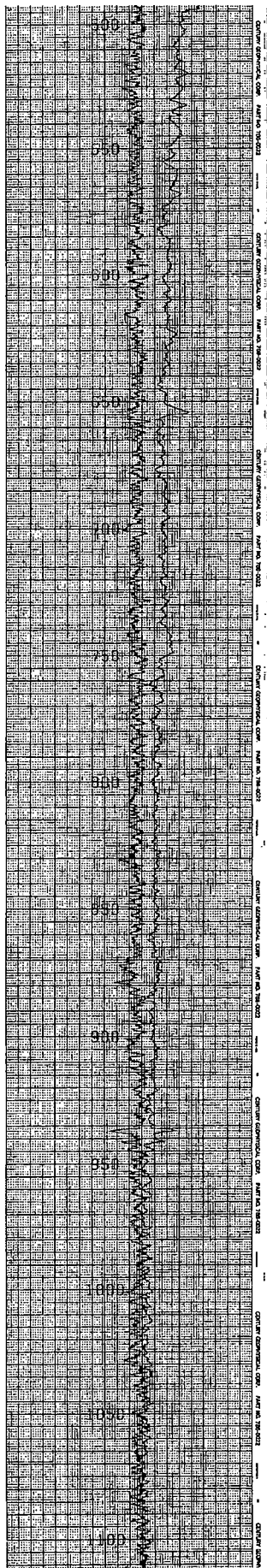
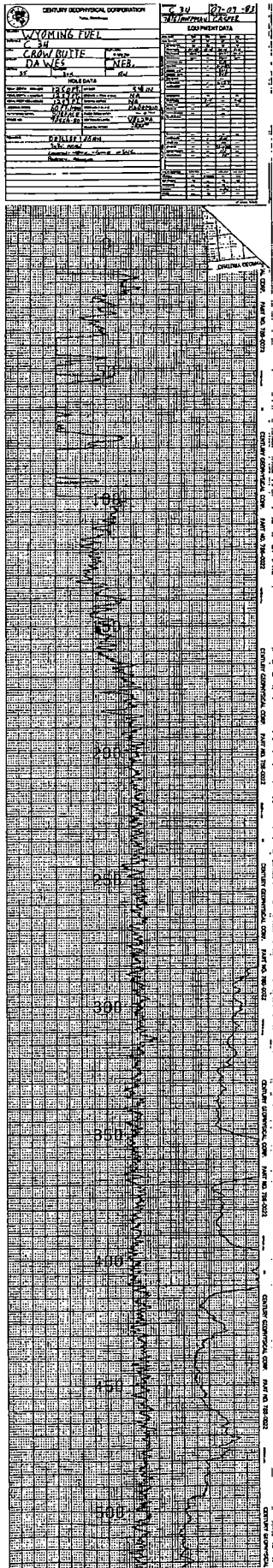


CROW BUTTE
RESOURCES, INC.

LOG B-76

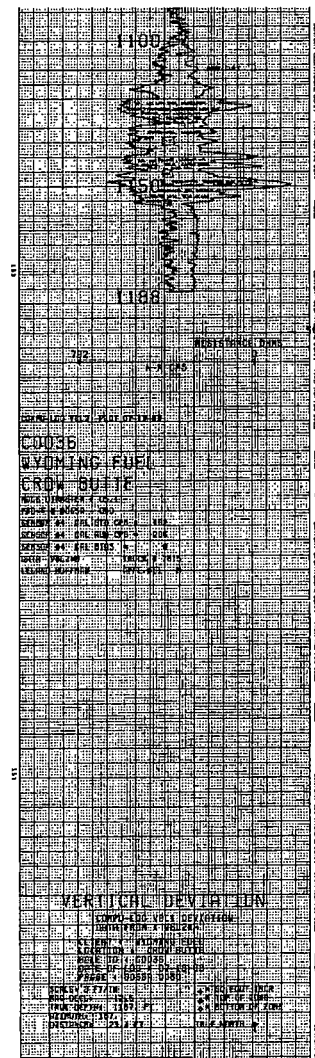
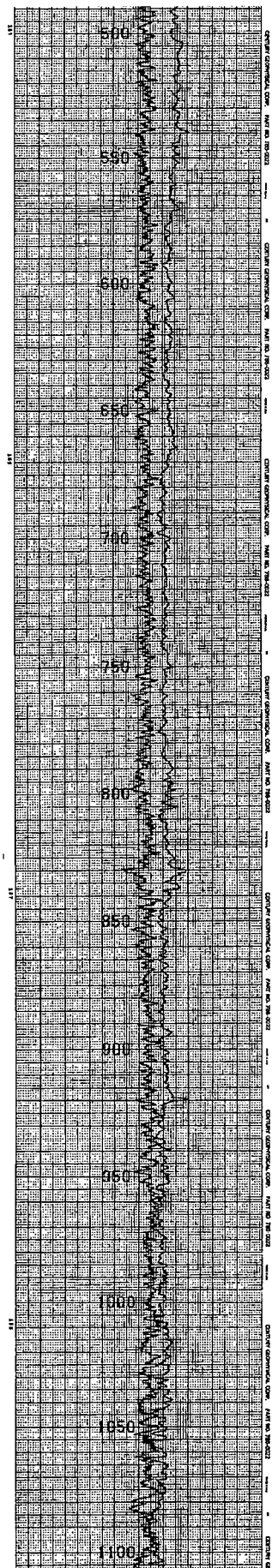
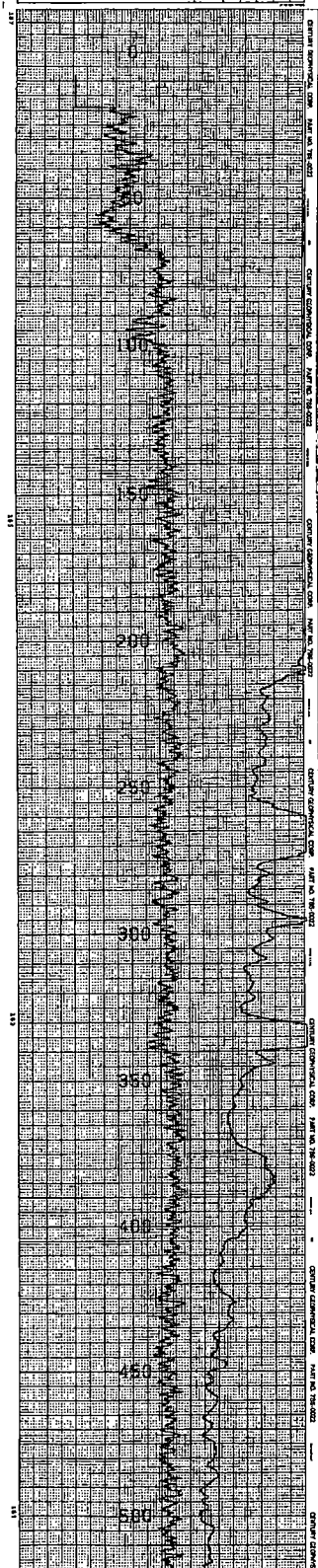


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LOG C-34



[illegible]

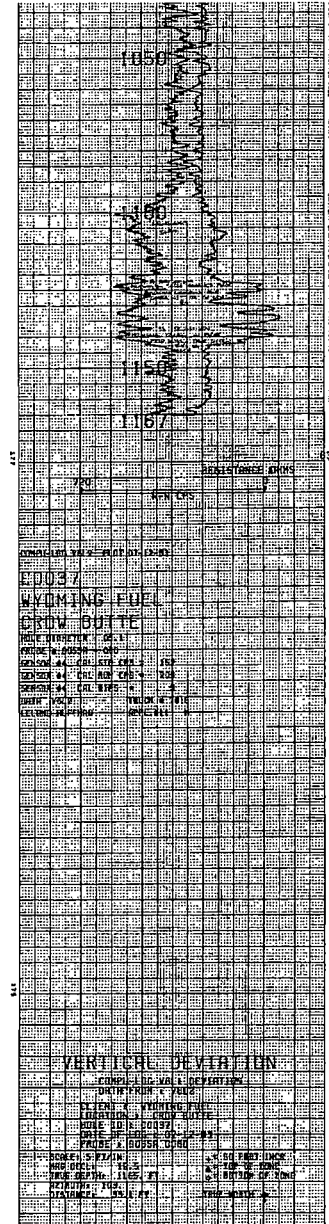
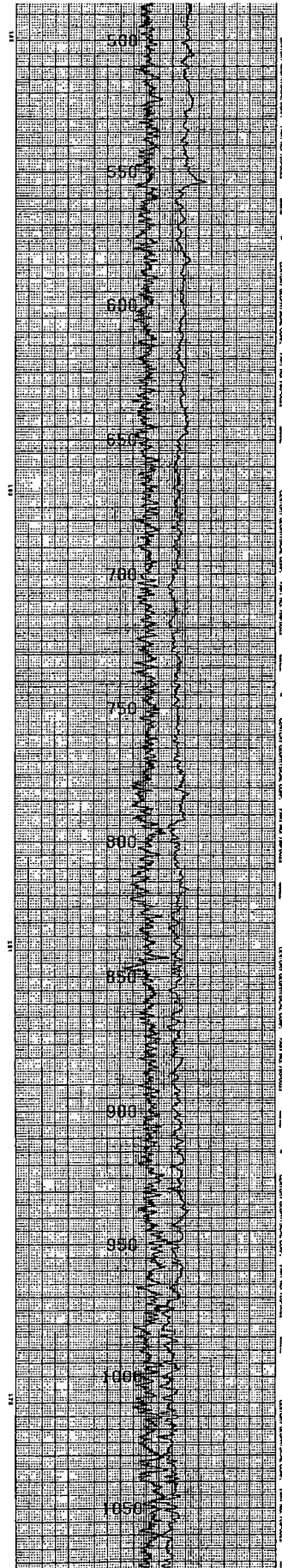
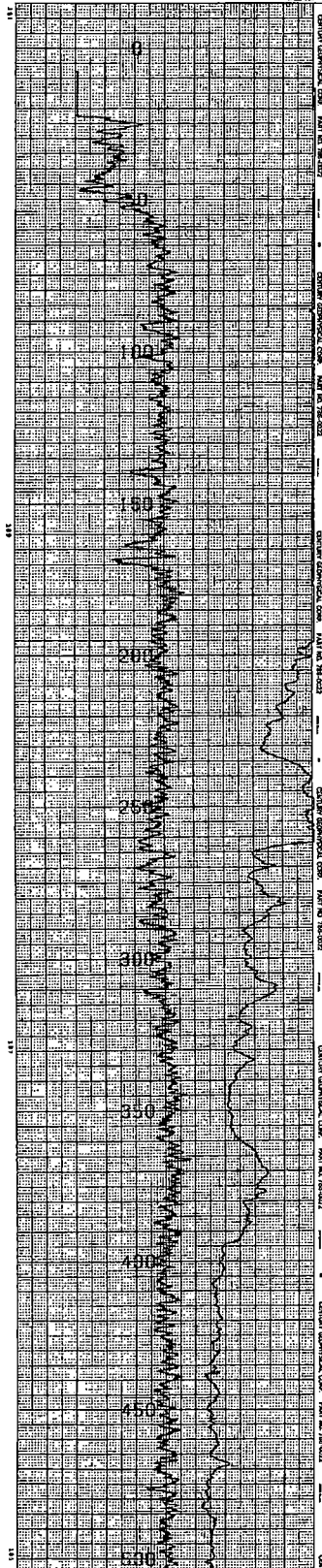
**CROW BUTTE
RESOURCES, INC.**

LOG C-36



630 Plaza Drive, Ste. 100
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CENTURY GEOPHYSICAL CORPORATION		P-37 92-12-01	
WYOMING TUEL		THUNDERBOLT CASPER	
37		CROW BUTTE	
DAWES		NER	
20		31	
HOLE DATA		HOLE DATA	
HOLE NO.		HOLE NO.	
HOLE DEPTH		HOLE DEPTH	
HOLE DIAMETER		HOLE DIAMETER	
HOLE LOCATION		HOLE LOCATION	
HOLE TYPE		HOLE TYPE	
HOLE STATUS		HOLE STATUS	
HOLE COMMENTS		HOLE COMMENTS	

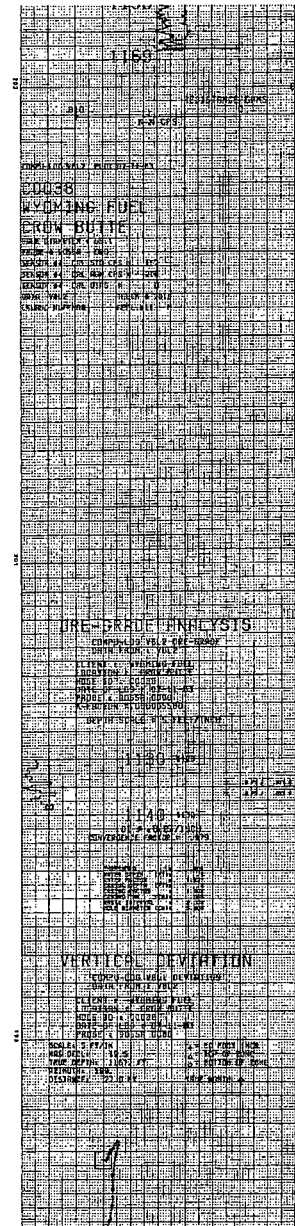
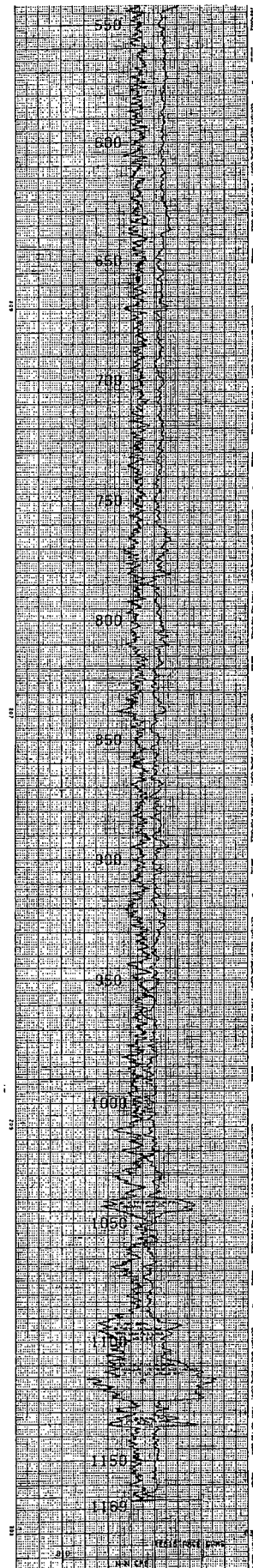
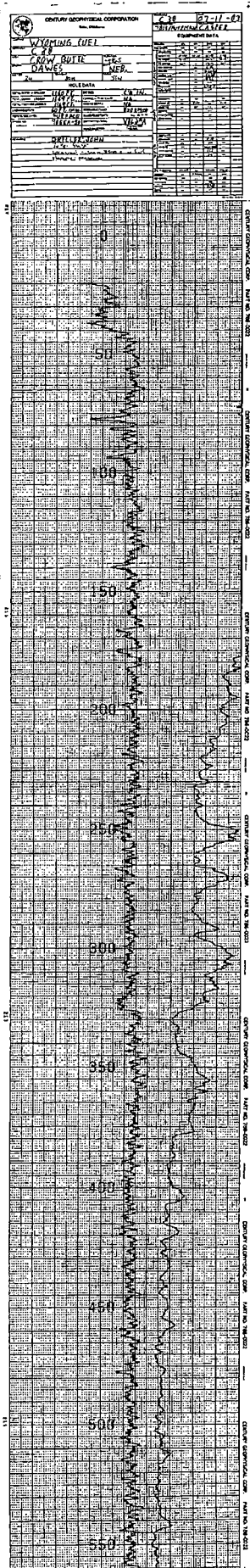


CROW BUTTE
RESOURCES, INC.

LOG C-37



839 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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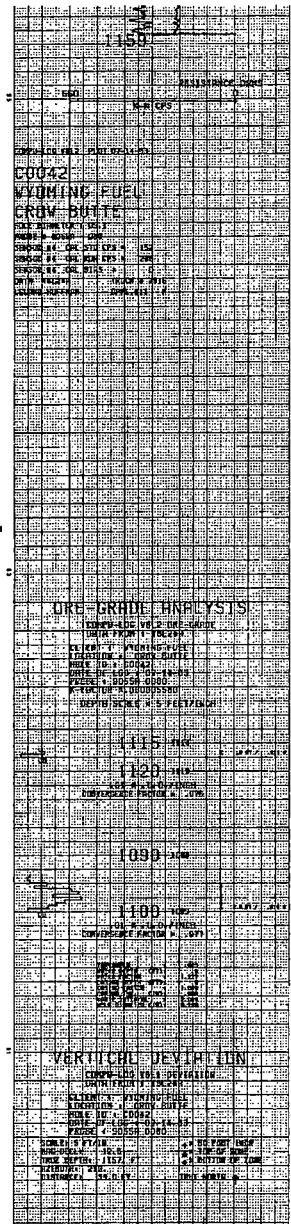
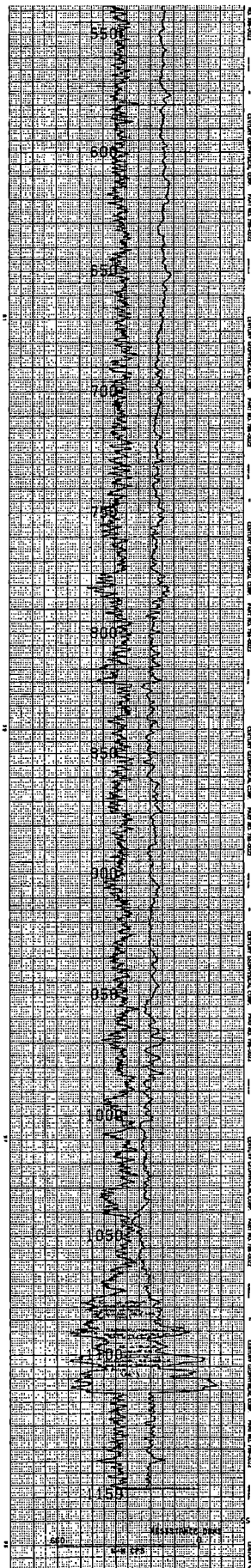
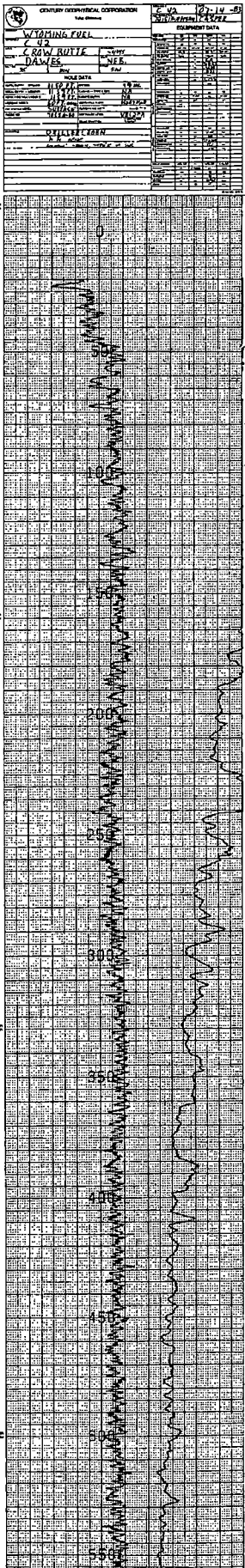


**CROW BUTTE
RESOURCES, INC.**

LOG C-38



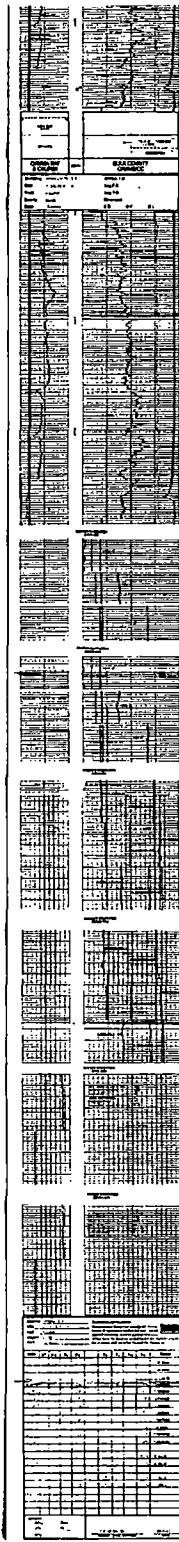
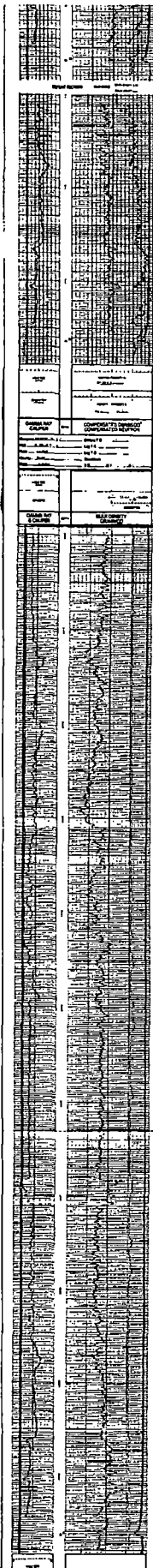
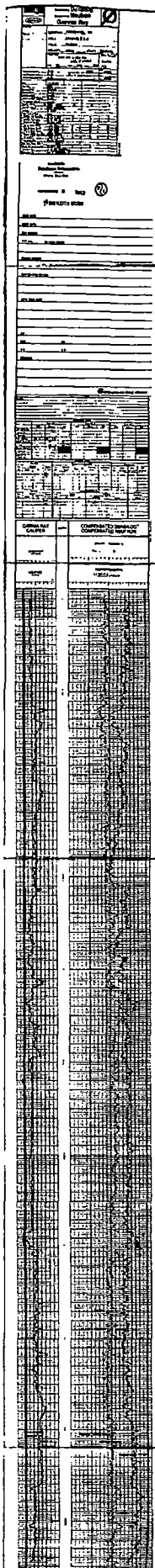
630 Plaza Drive, Ste. 100
 Highlands Ranch, CO 80129
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LOG C-42



630 Plaza Drive, Ste. 100
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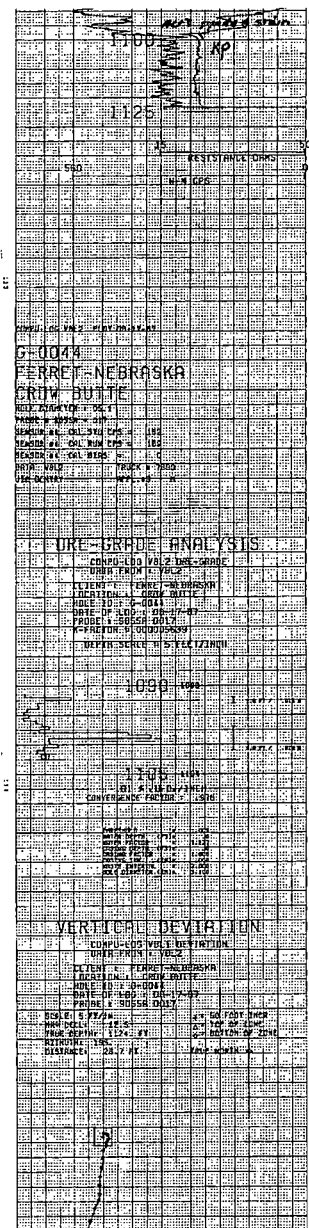
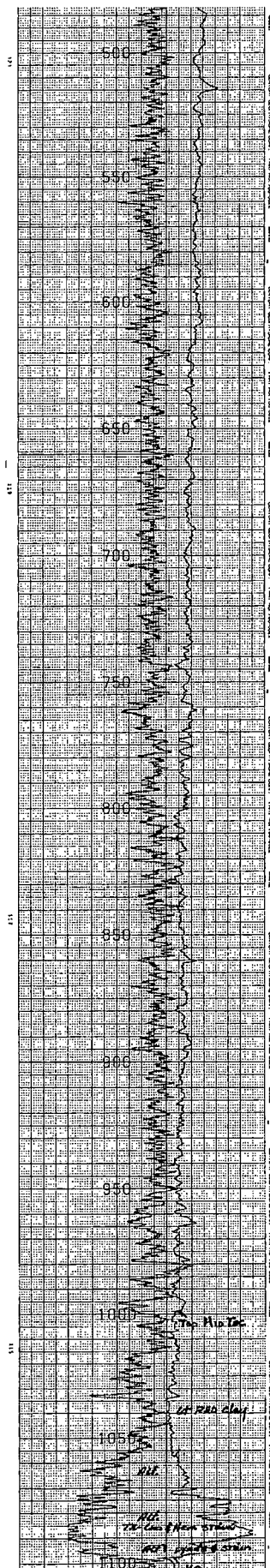
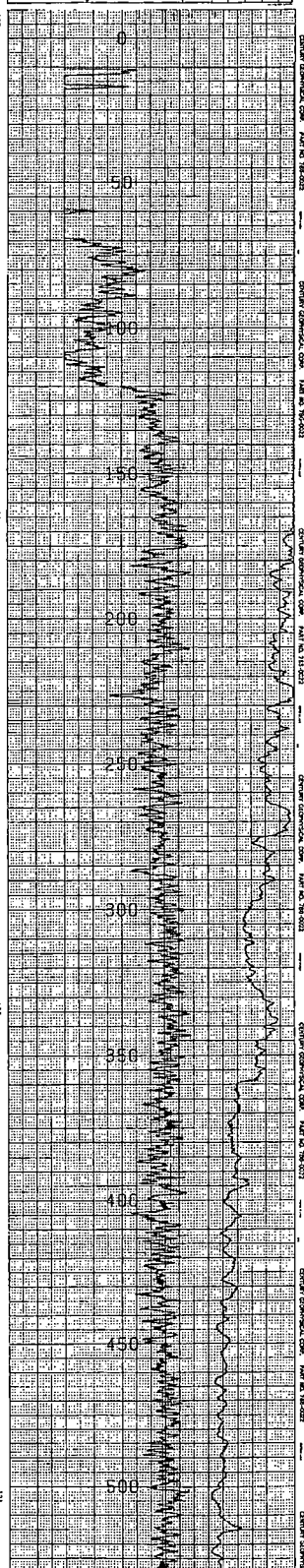
CHICOINE 1A LOG



ARCADIS

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CENTURY GEOPHYSICAL CORPORATION		G-0044		8-17-97	
FERRET-NEBRASKA					
G-0044					
CROW BUTTE					
DAWES					
35 30N 41W					
NESE					
425' AL of R45					
Hanning					

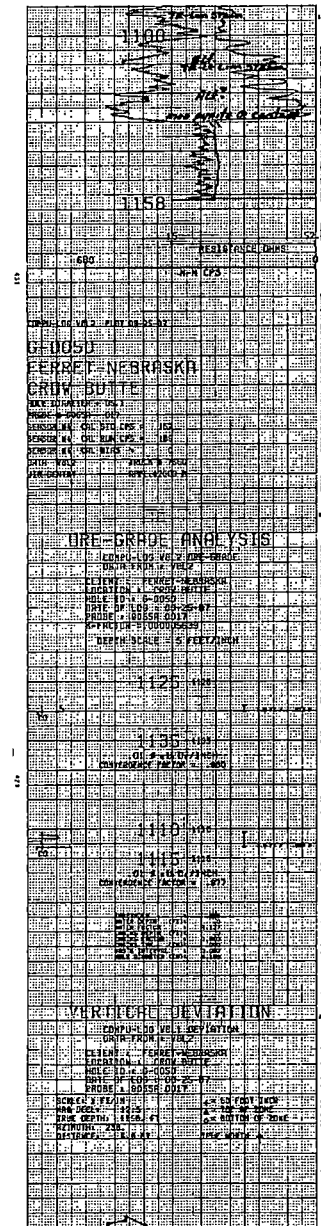
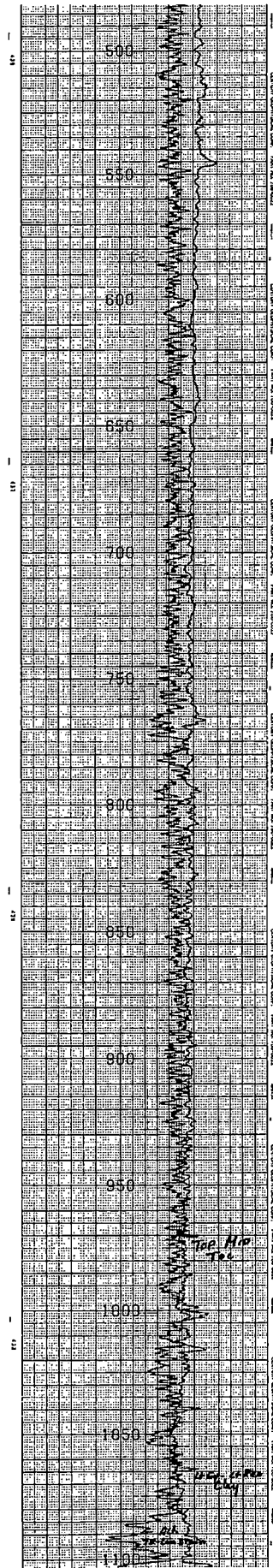
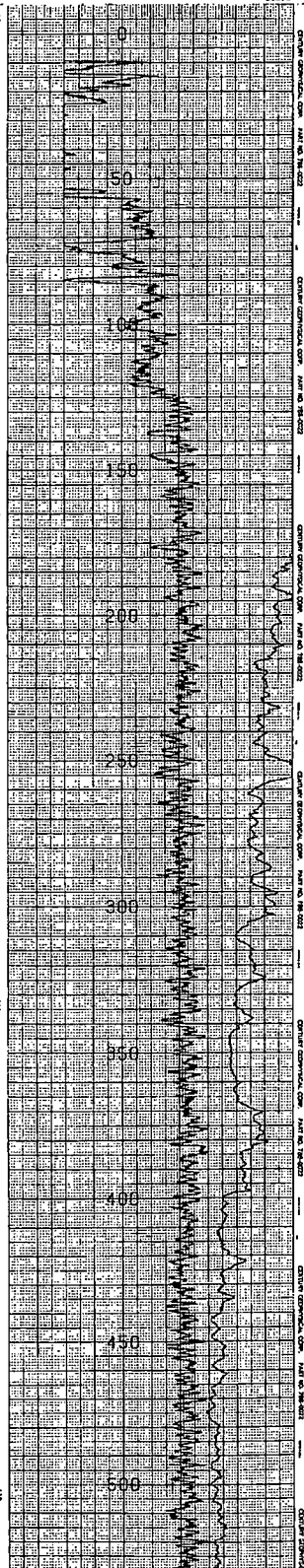


CROW BUTTE
RESOURCES, INC.

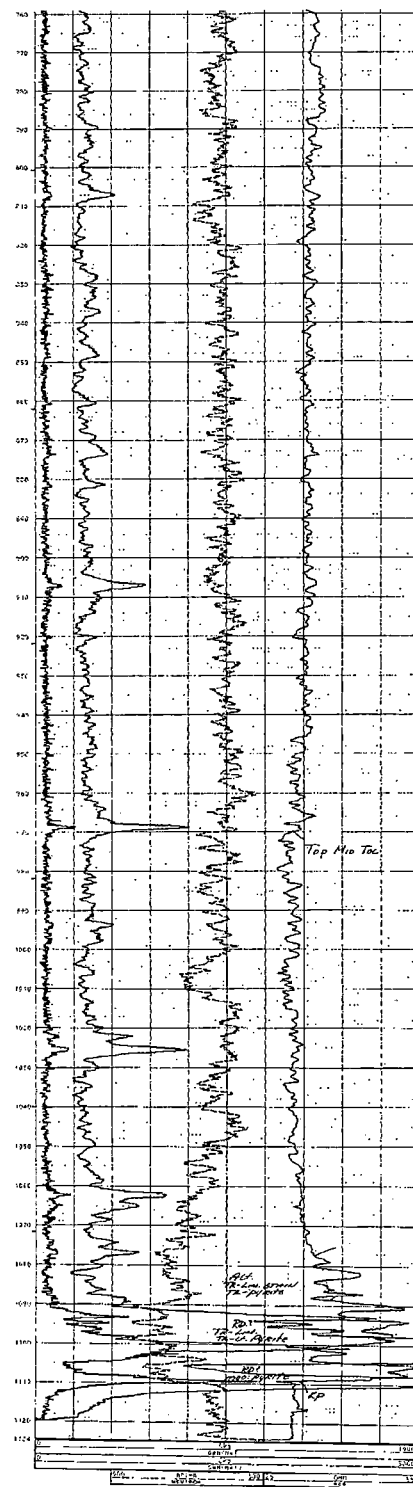
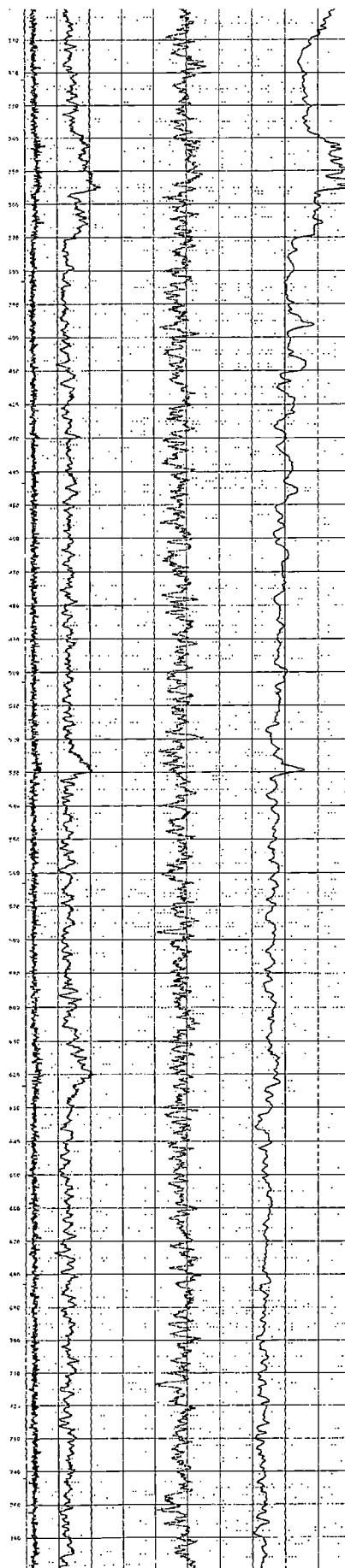
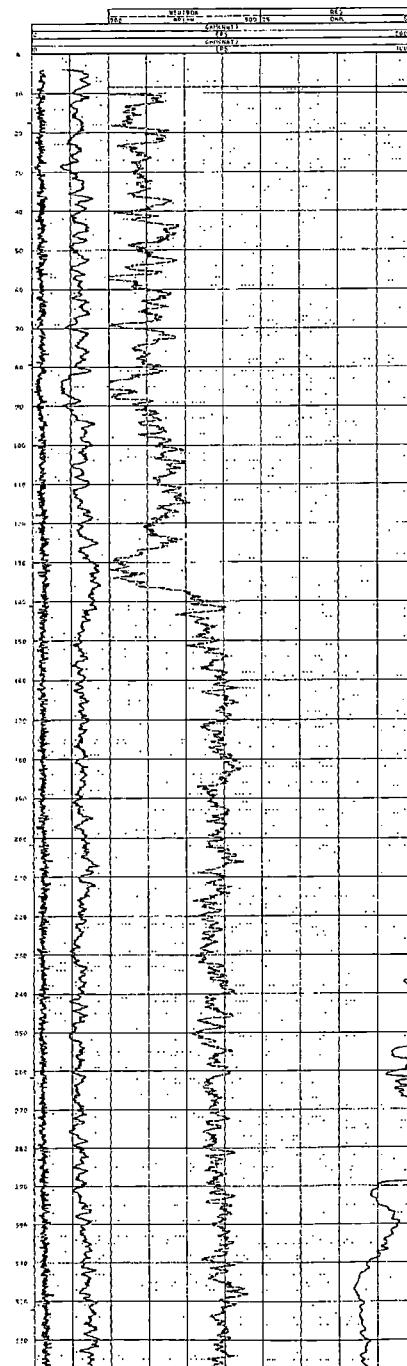
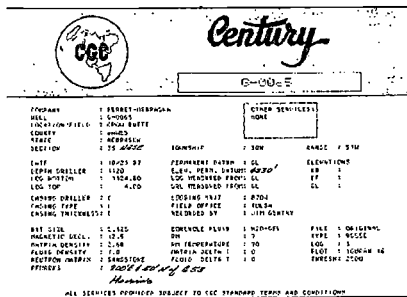
LOG G-44



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LOG G-65



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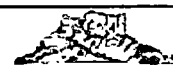
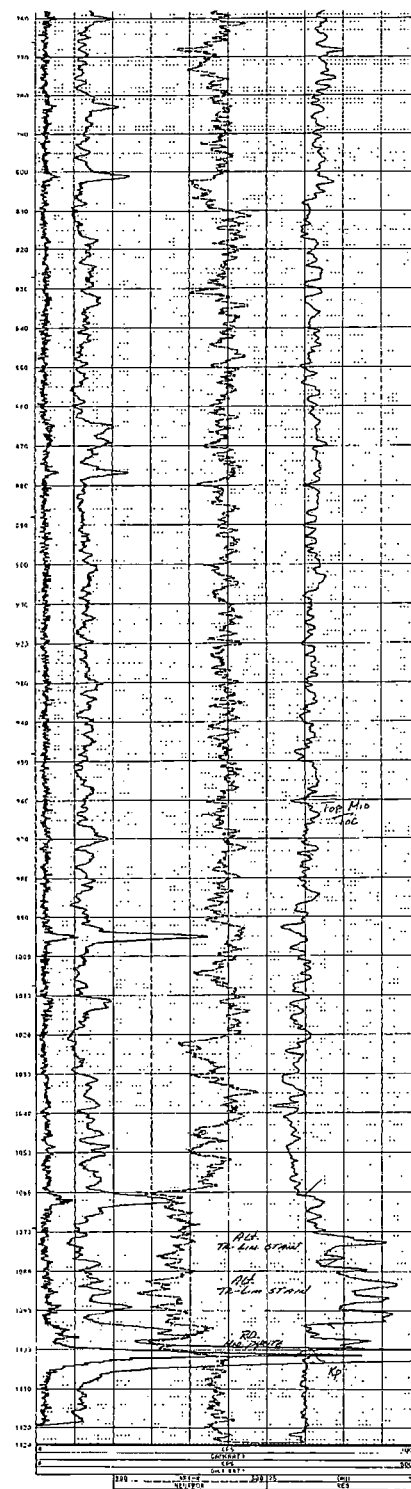
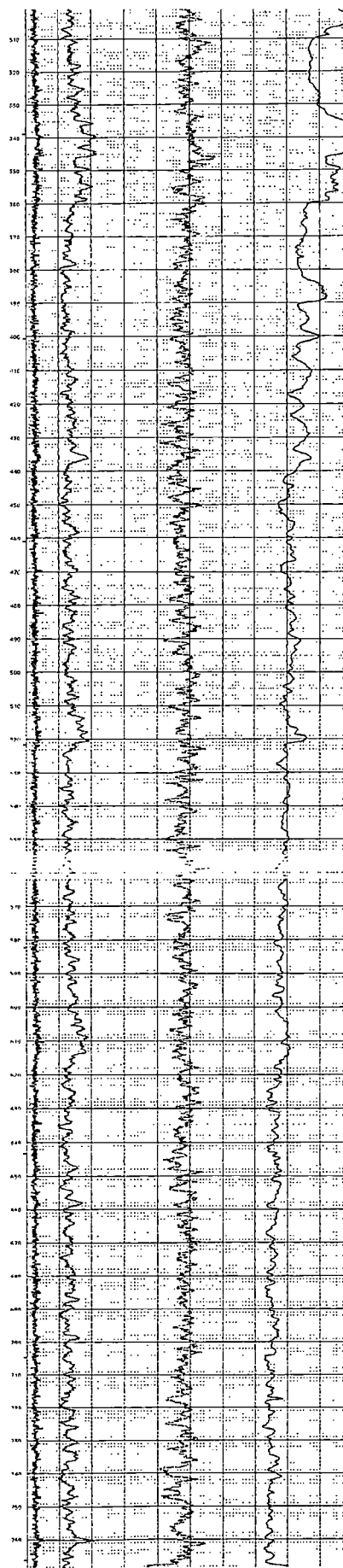
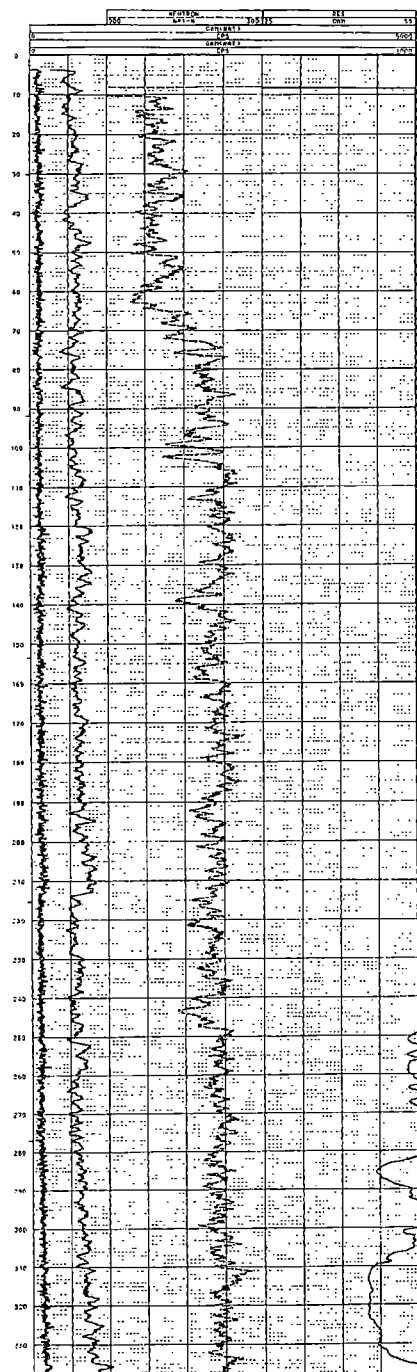


Century

G-0071

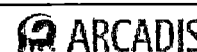
COMPANY : PERNEY-NEBRASKA		OTHER SERVICES : NONE	
WELL : G-0071	LOCATION/FIELD : CARU BUTTE		
COUNTY : JIMES	STATE : NEBRASKA		
SECTION : 35	TOWNSHIP : 23N	RANGE : 5W	
DATE : 10/29/97			
DEPTH MEASUREMENT : 1352	PERMANENT DATUM : 5L	ELEVATIONS :	
LOC. BOTTOM : 1124.40	DEPT. FROM DATUM : 662'	SP : 1	
LOC. TOP :	LOC. MEASURED FROM : 5L	ST :	
CASING DEPTH : 0	LOGGING DATE : 1/8/98		
CASING TYPE :	FIELD OFFICE : TOLSA		
CASING MATERIALS :	RECORDED BY : JIM CENTURY		
BIT SIZE : 5.125			
ADDITIONAL FLUID : 1.02-SEL	FILE : ORIGINAL		
ADDITIONAL WELL : 12.4	PH : 5.0	TYPE : 8055C	
WATER DENSITY : 2.48	PH TEMPERATURE : 78	LOC : 8	
FLUID TEMPERATURE : 1.9	MATCH DELTA : 1	ST : 1	
SECTION MATERIAL : SANDSTONE	FLUID DELTA : 1	FLD : 100000 14	
REMARKS :		DATE : 2/98	

ALL SERVICES PROVIDED SUBJECT TO CCR STANDARD TERMS AND CONDITIONS

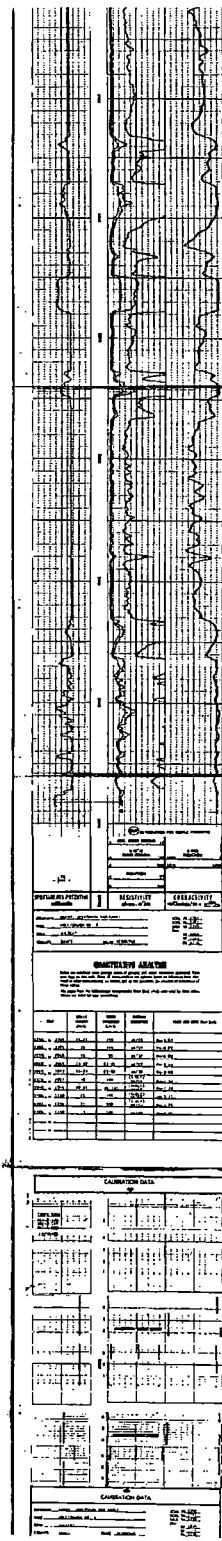
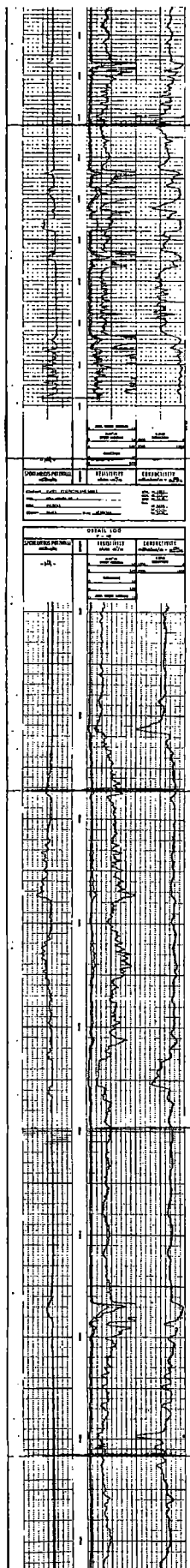
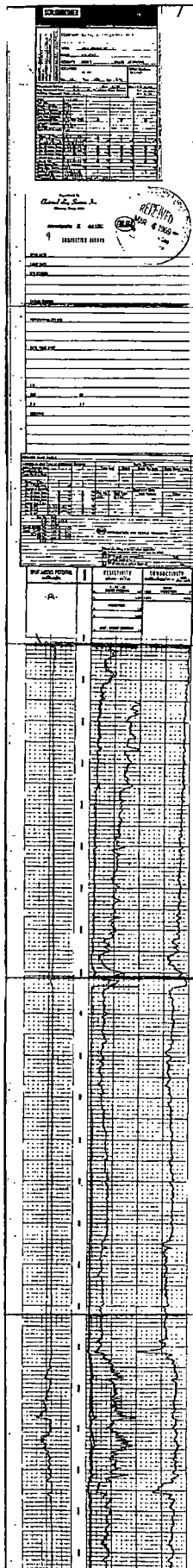


**CROW BUTTE
RESOURCES, INC.**

LOG G-71



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**CROW BUTTE
RESOURCES, INC.**

HOLIBAUGH 1 LOG



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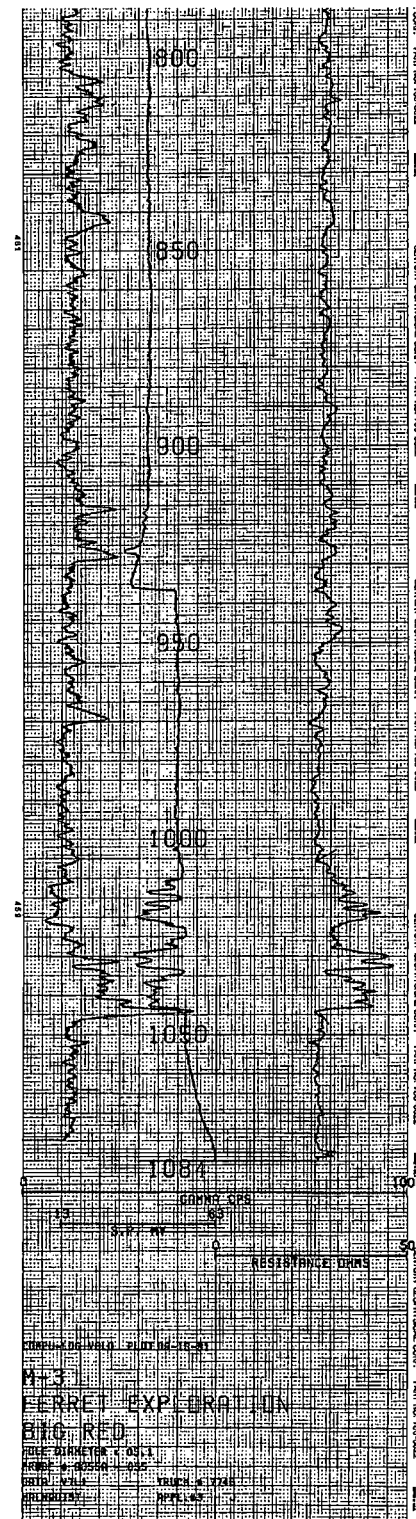
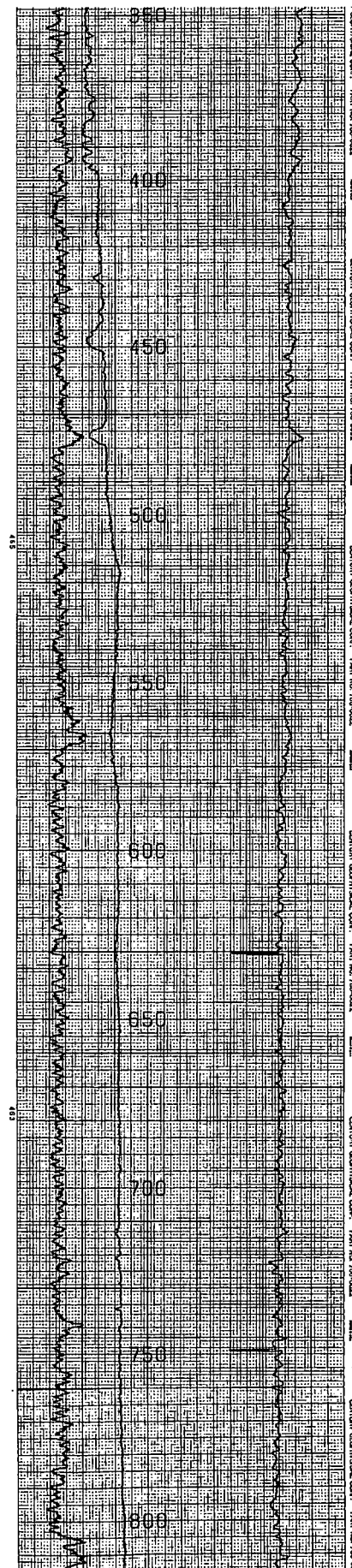
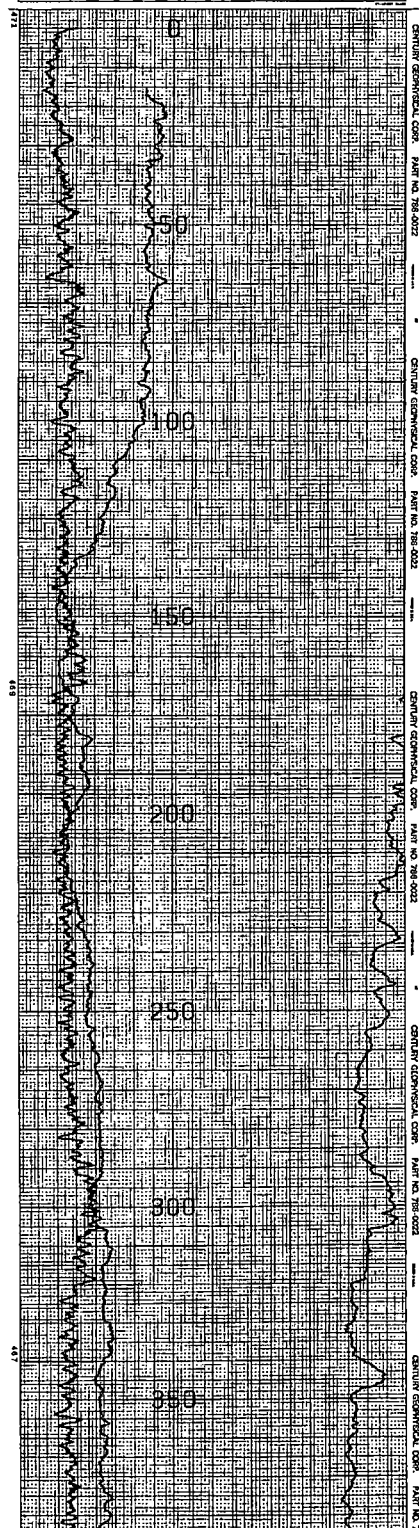
CENTURY GEOPHYSICAL CORPORATION
 10000 E. 1st Ave. Suite 100
 Denver, CO 80231
 TEL: 303.755.0000 FAX: 303.755.0001
 WWW.CENTURYGEOPHYSICAL.COM

PROJECT: FERRET EXPLORATION 27.1.2.37
 M-3
 RIG RED
 DAWES
 24 N
 5 W
 NEBRASKA

HOLE DATA
 HOLE NO. 27.1.2.37
 HOLE DEPTH 1000
 HOLE DIAMETER 4.0
 HOLE TYPE 1000
 HOLE STATUS 1000
 HOLE COMMENTS 1000

EQUIPMENT DATA
 EQUIPMENT NO. 1000
 EQUIPMENT TYPE 1000
 EQUIPMENT STATUS 1000
 EQUIPMENT COMMENTS 1000

DATE: 09 16 81
 TIME: 10:00
 LOCATION: 5400-5400



CROW BUTTE
RESOURCES, INC.

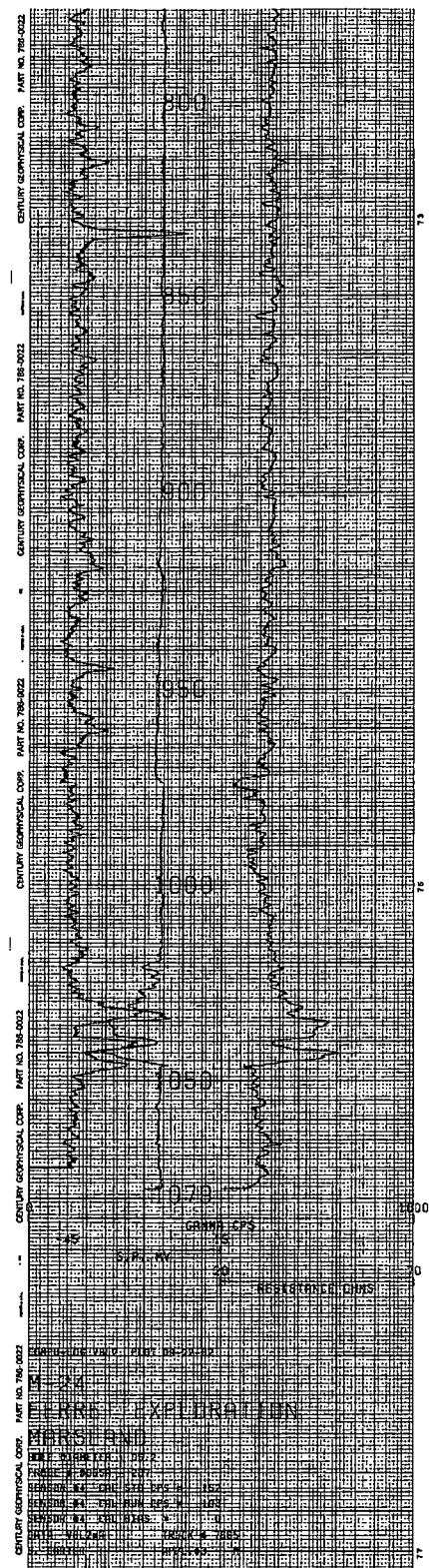
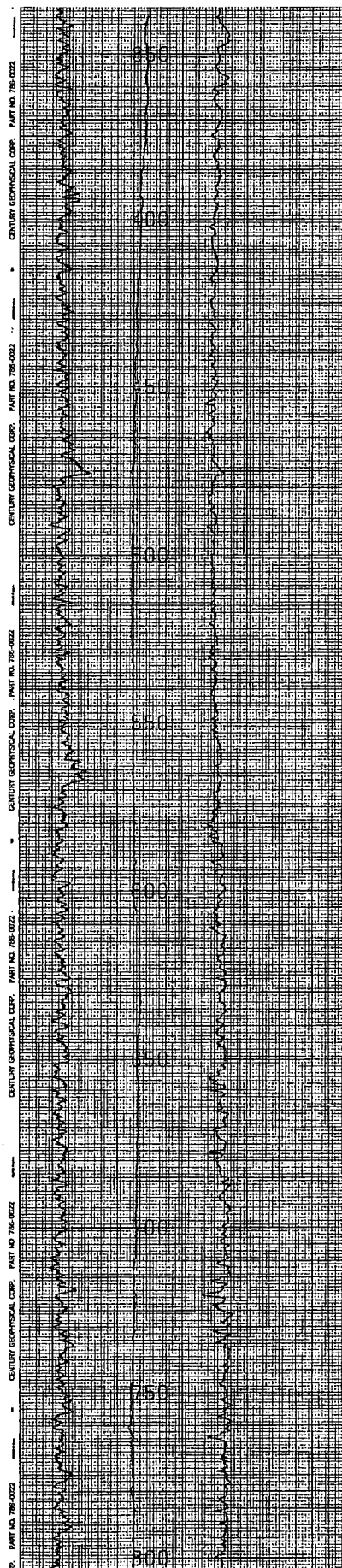
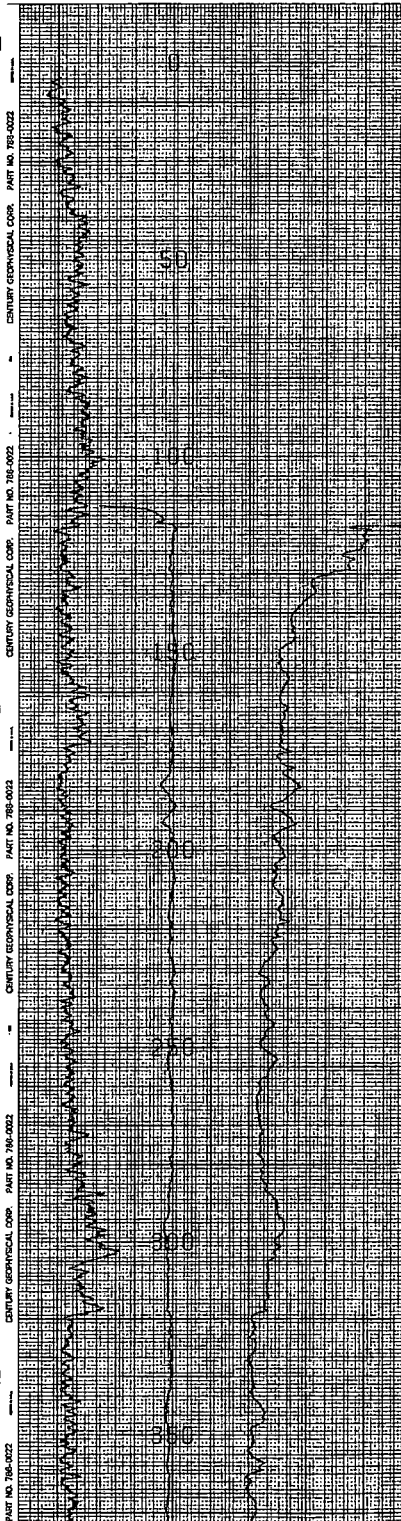
LOG M-3



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 www.arcadis-us.com

530 660

CENTURY GEOPHYSICAL CORPORATION 10000 E. 11th Ave. Suite 100 Denver, CO 80231		11-24 7-22-02	
FERRET EXPLORATION / 54-10-02		EQUIPMENT DATA	
1-24 HARSLAND DAWES NEB 54-10-02		1-24 HARSLAND DAWES NEB 54-10-02	
HOLE DATA		HOLE DATA	
1-24 HARSLAND DAWES NEB 54-10-02		1-24 HARSLAND DAWES NEB 54-10-02	
2750-2400		2750-2400	
2750-2400		2750-2400	



CROW BUTTE
RESOURCES, INC.

LOG M-24



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5-00 1-100

CENTURY GEOPHYSICAL CORPORATION
15400 E. 15th Ave. Suite 100
Denver, CO 80202

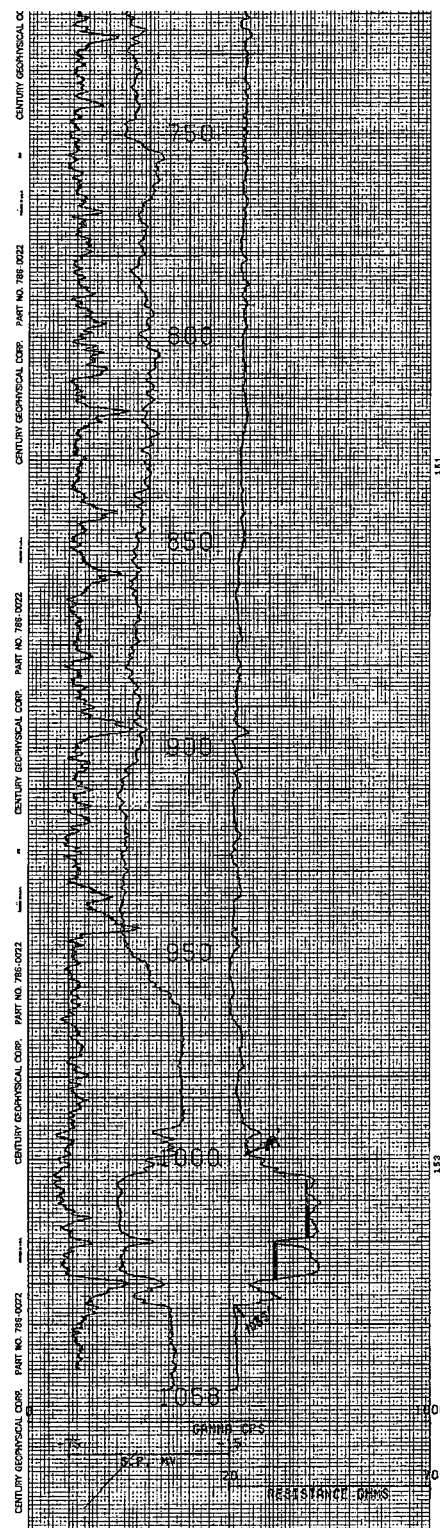
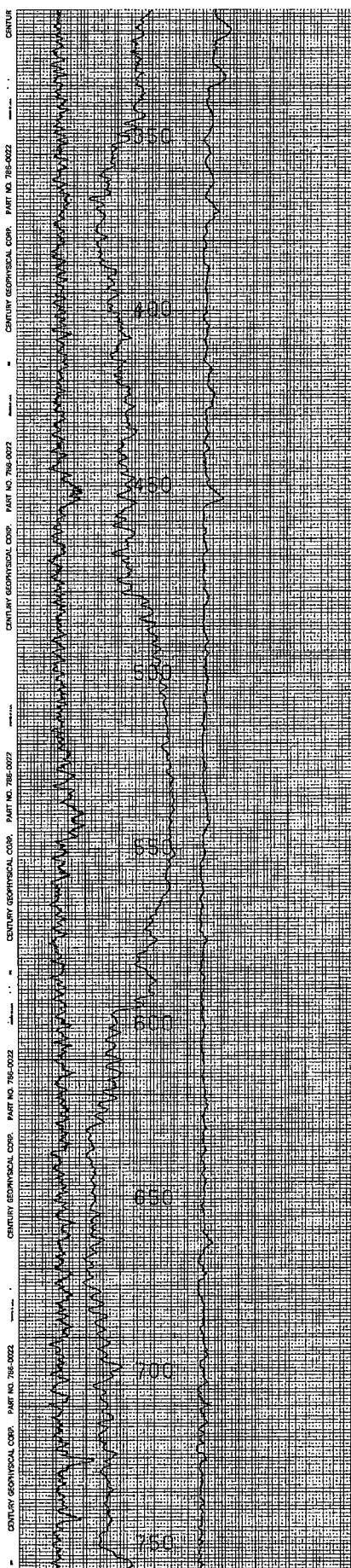
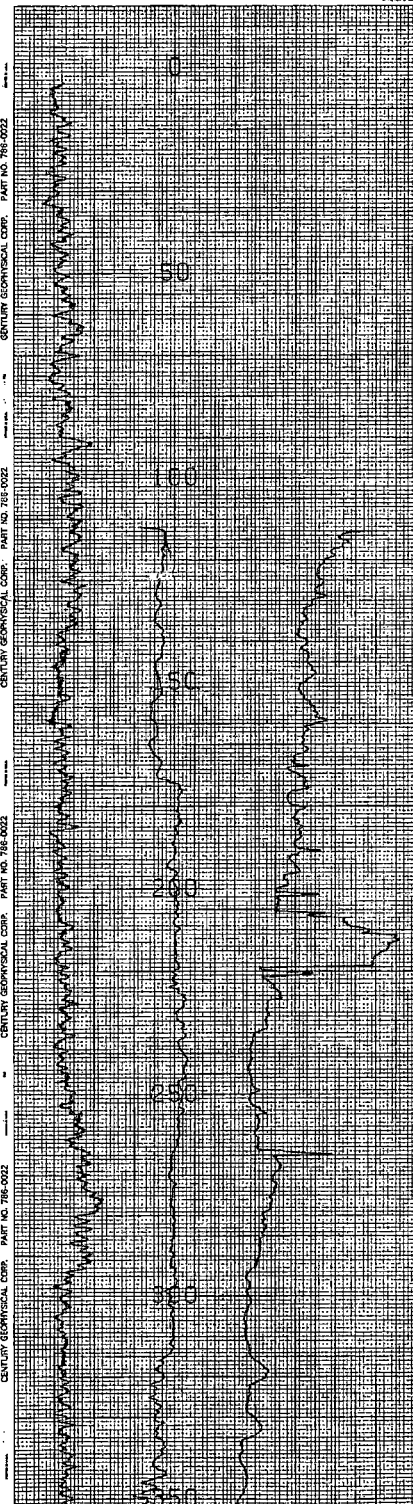
FERRET EXPLORATION
M-29
MARSLAND
DAWES
17 NE 36 29N
4228
NEB.
SLW

HOLE DATA
DATE: 10-29-87
TIME: 10:00
CATHA, S.P., RES., DEV.
LOG NO. 112

1625-5000
CATHA, S.P., RES., DEV.
LOG NO. 112

1625-5000
CATHA, S.P., RES., DEV.
LOG NO. 112

1625-5000
CATHA, S.P., RES., DEV.
LOG NO. 112

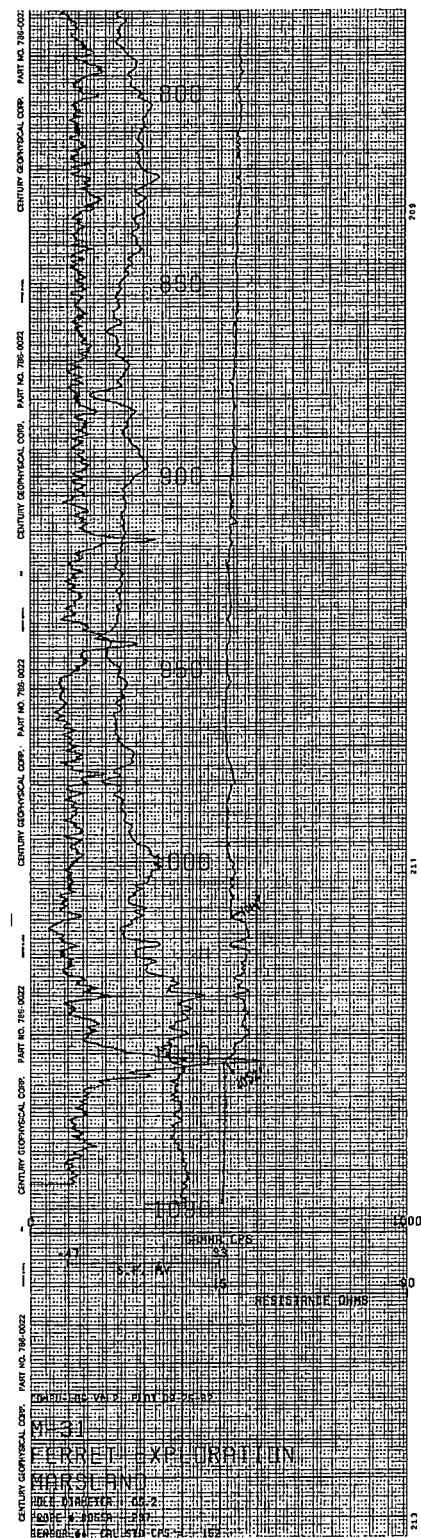
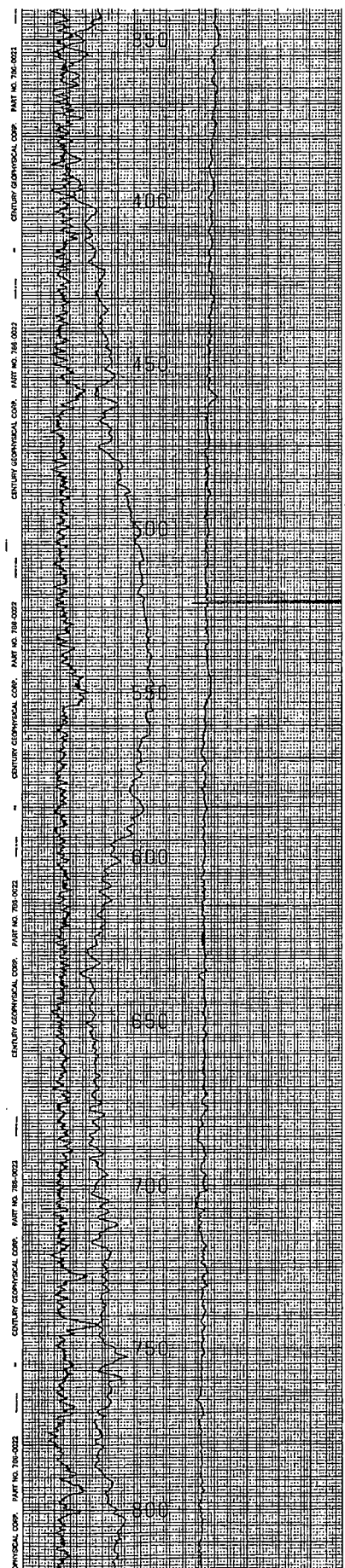
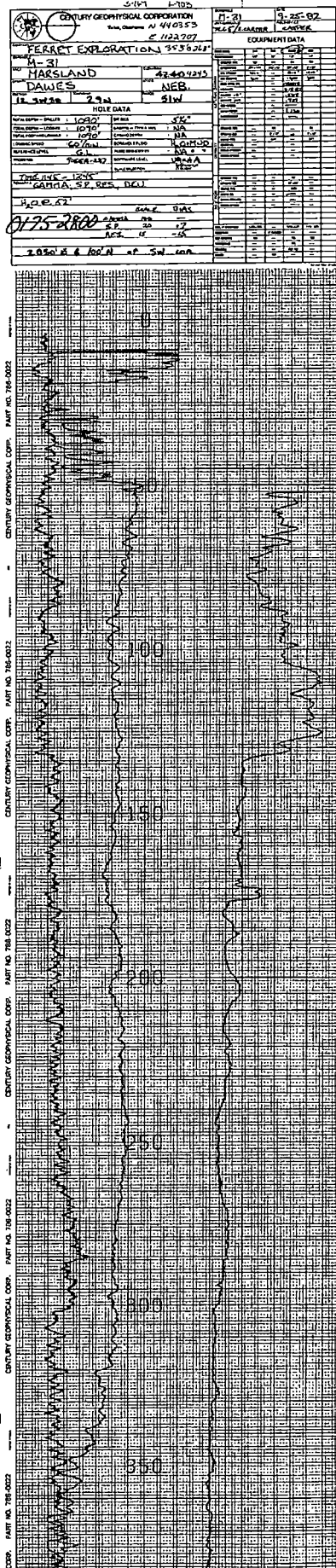


CROW BUTTE
RESOURCES, INC.

LOG M-29



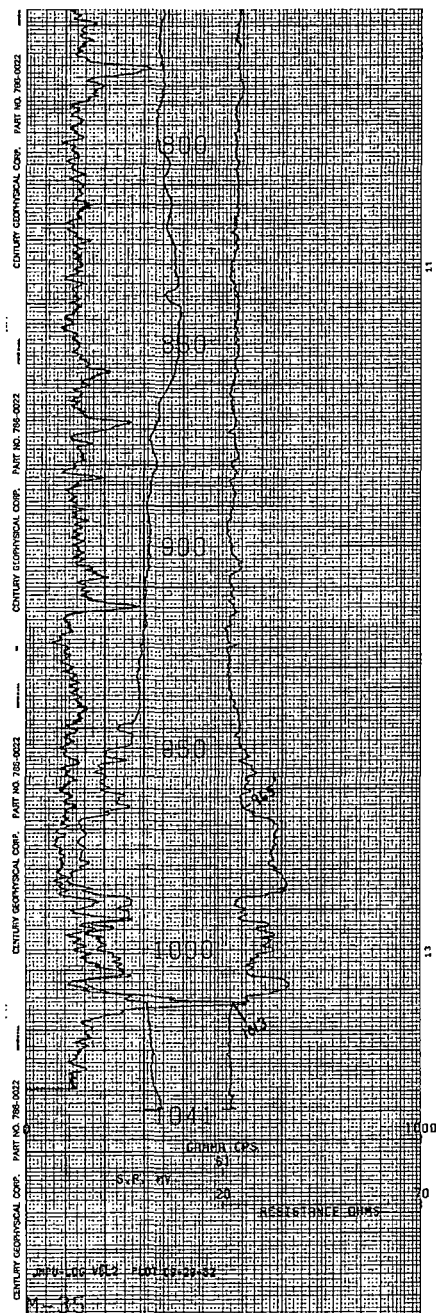
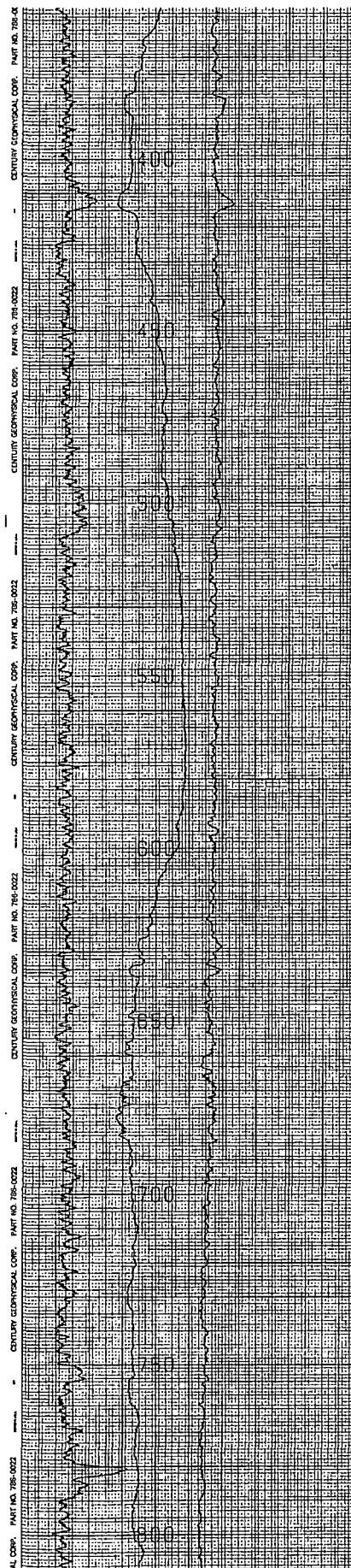
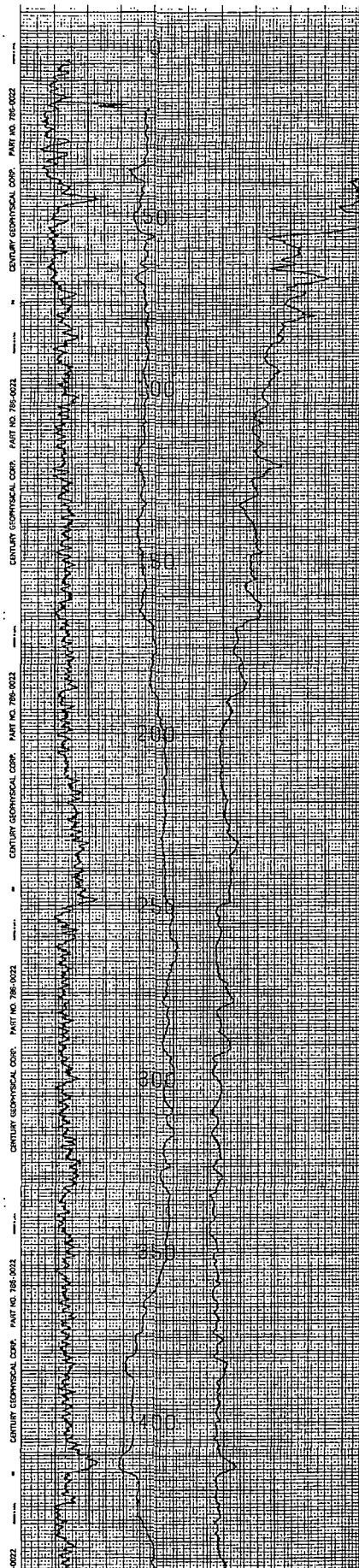
830 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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LOG M-31



630 Plaza Drive, Ste. 100
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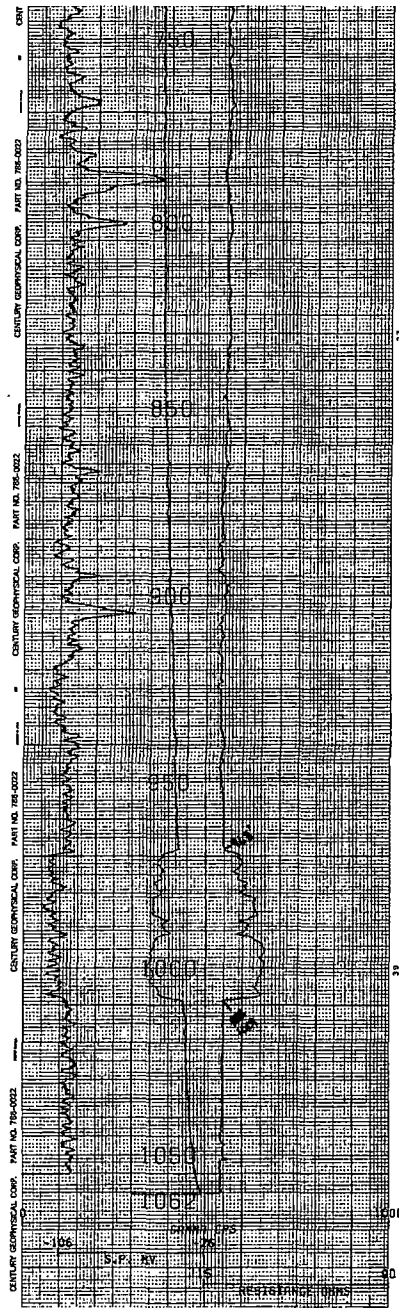
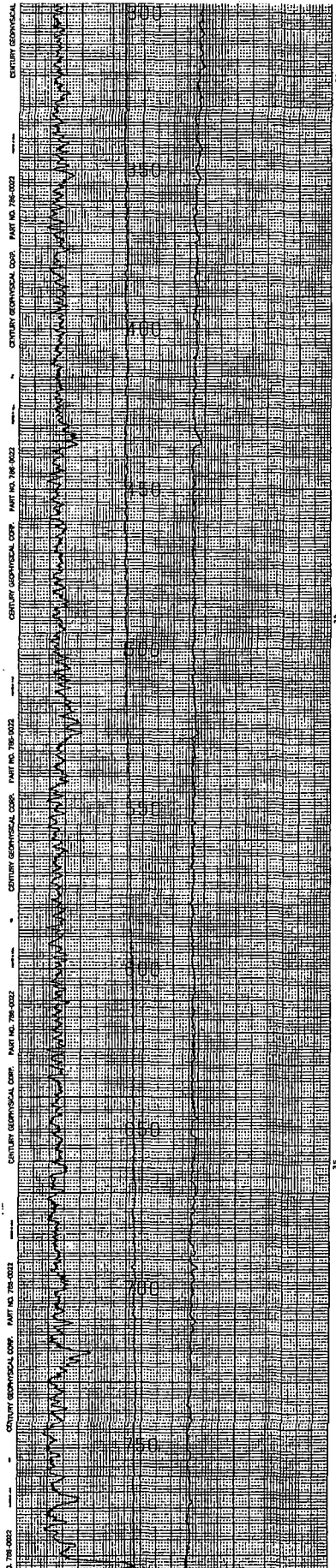
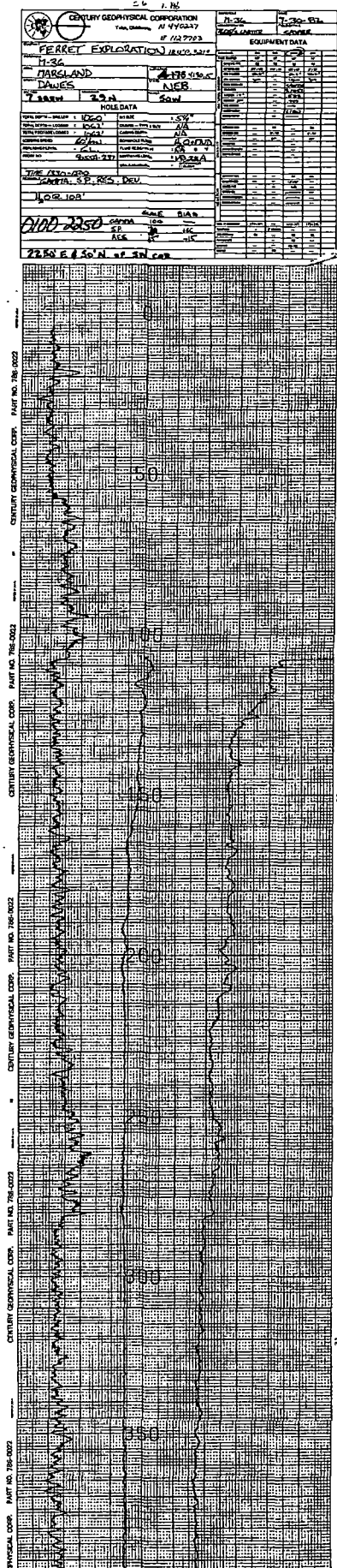
CROW BUTTE
RESOURCES, INC.

LOG M-35



630 Plaza Drive, Ste. 100
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www.arcadis-us.com

Formatted By: J.Chen @ Boulder, CO: 09/09/2012



**CROW BUTTE
RESOURCES, INC.**

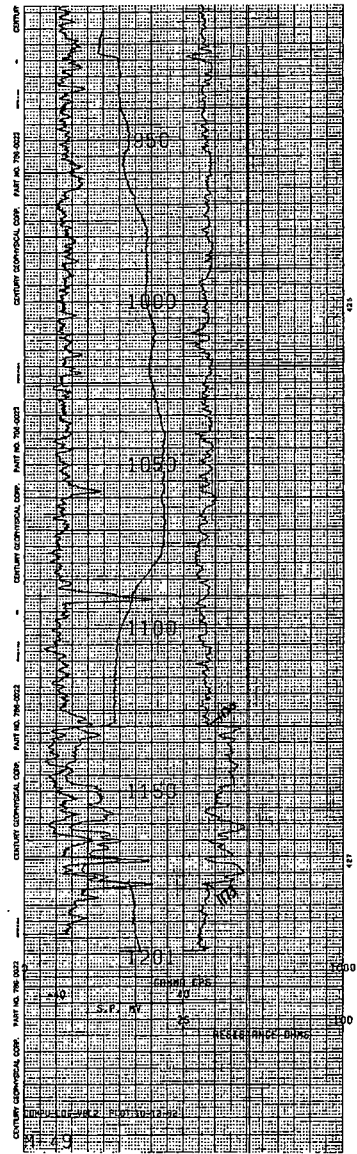
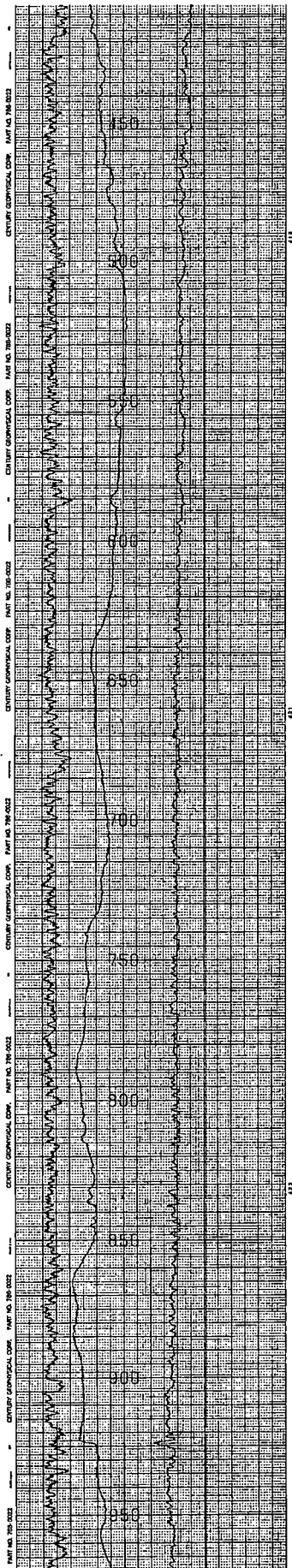
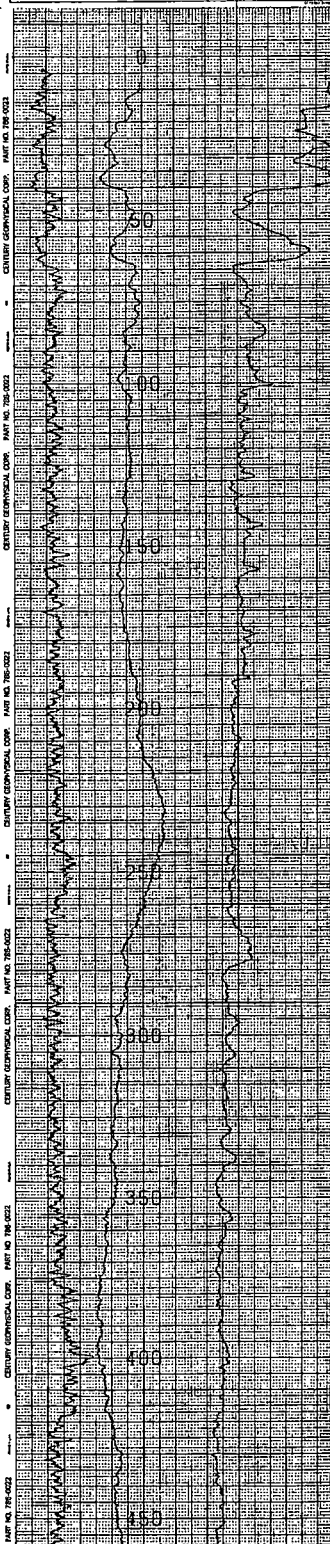
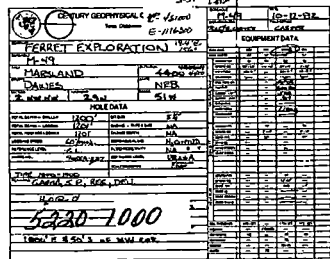
LOG M-36



ARCADIS

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



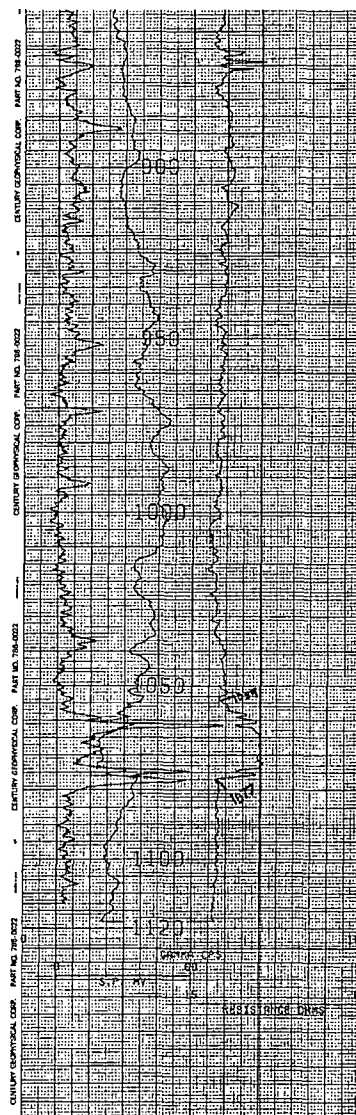
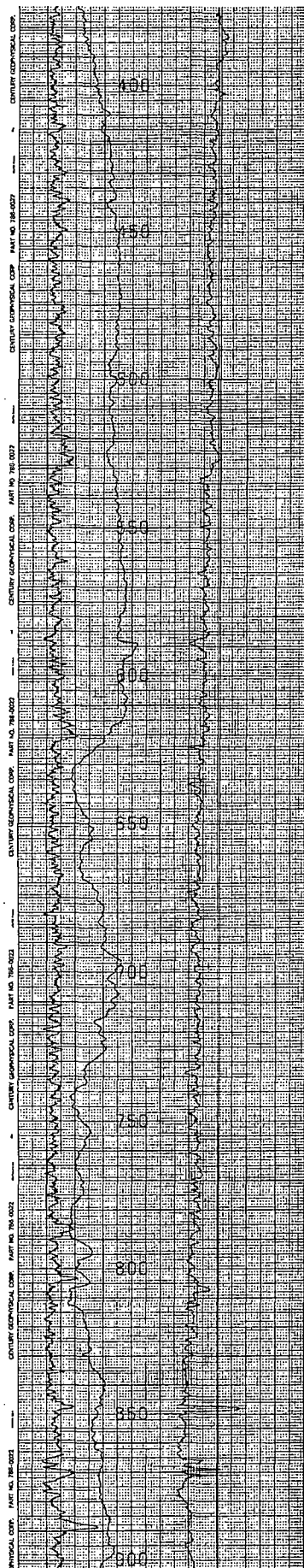
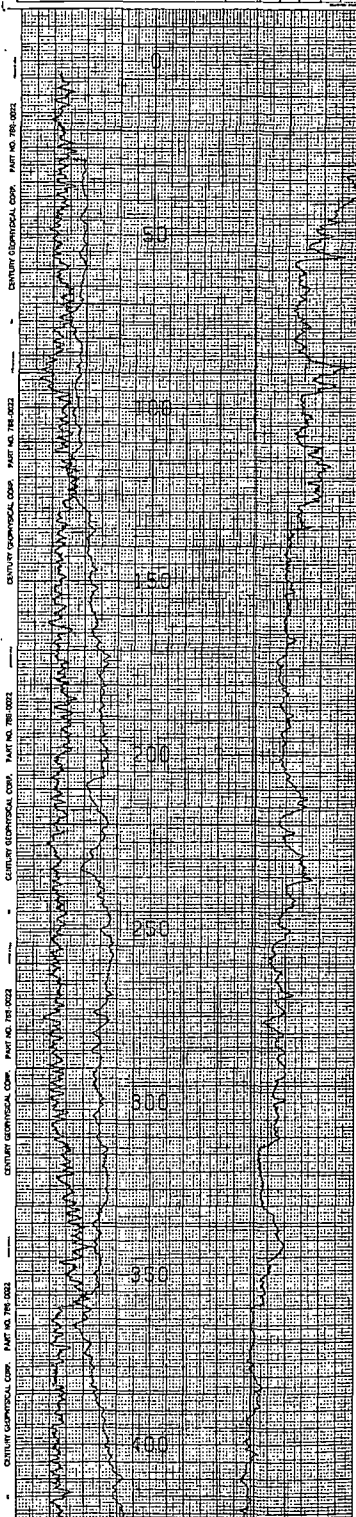


**CROW BUTTE
RESOURCES, INC.**

LOG M-49

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

CENTURY GEOPHYSICAL CORPORATION 10000 E. 11th Ave. Suite 100 Denver, CO 80231 Tel: 303.755.1550		PI-51 12/12/00 12/12/00	
PROJECT: EXPLORATION LOCATION: MANSLAND DATE: 12/12/00 TIME: 10:00 AM		EQUIPMENT DATA SYSTEM: 23N CHANNEL: 5120 GAIN: 10000 FILTER: 10000 SENSITIVITY: 10000 RESOLUTION: 10000 RECORDING: 10000 STORAGE: 10000 BACKUP: 10000 PRINT: 10000 PLOT: 10000 COPY: 10000 FAX: 10000 E-MAIL: 10000 WWW: 10000 PHONE: 10000 TELEFAX: 10000 CREDIT: 10000 DEBIT: 10000 BALANCE: 10000 CASH: 10000 CHECK: 10000 CREDIT CARD: 10000 OTHER: 10000	
FIELD DATA SURVEYOR: J. CHEN INSTRUMENT: 23N CHANNEL: 5120 GAIN: 10000 FILTER: 10000 SENSITIVITY: 10000 RESOLUTION: 10000 RECORDING: 10000 STORAGE: 10000 BACKUP: 10000 PRINT: 10000 PLOT: 10000 COPY: 10000 FAX: 10000 E-MAIL: 10000 WWW: 10000 PHONE: 10000 TELEFAX: 10000 CREDIT: 10000 DEBIT: 10000 BALANCE: 10000 CASH: 10000 CHECK: 10000 CREDIT CARD: 10000 OTHER: 10000		LOG M-51 5300-1375 390' E. OF M-51	

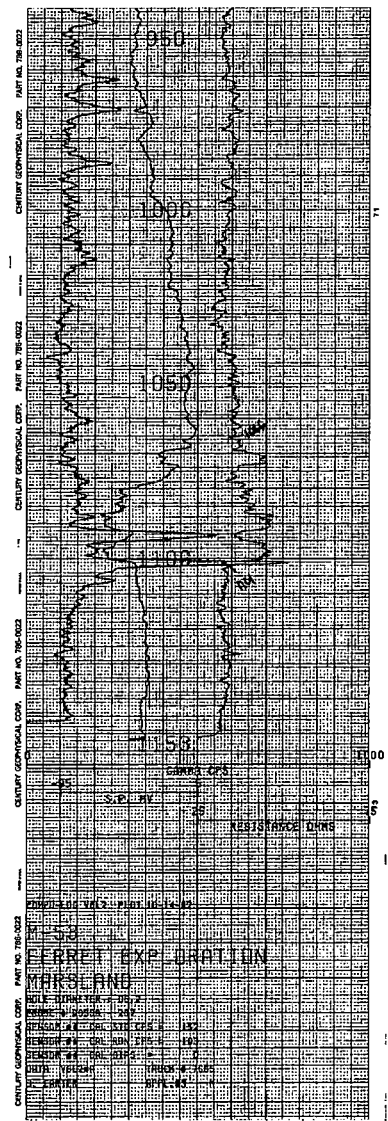
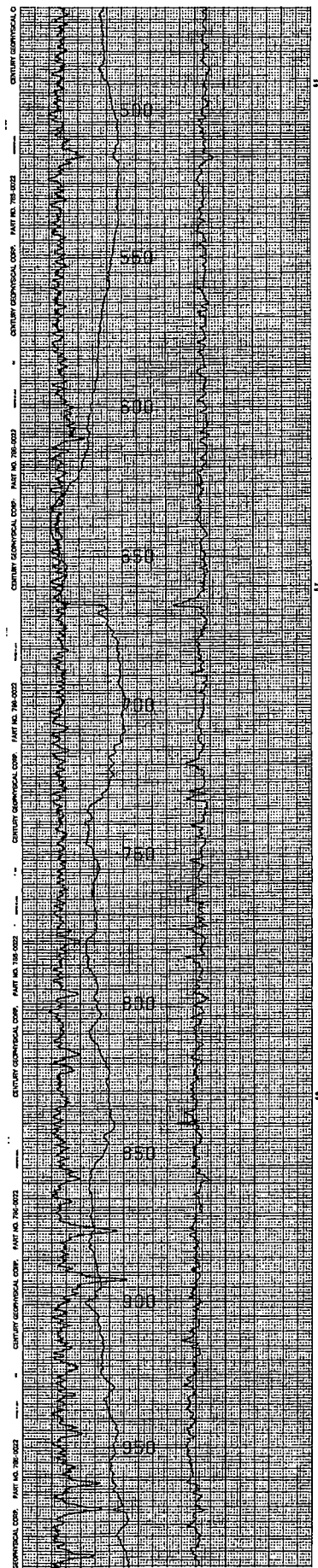
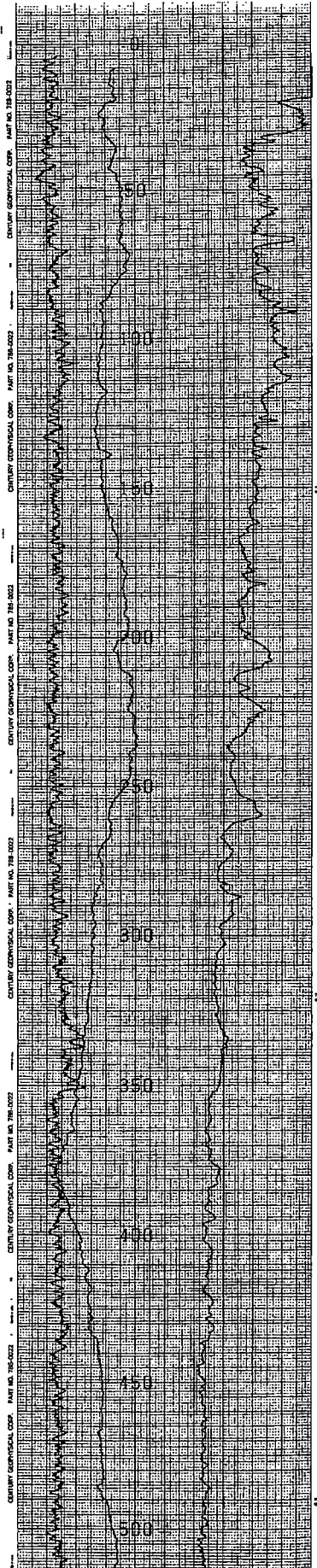


CROW BUTTE
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LOG M-51



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

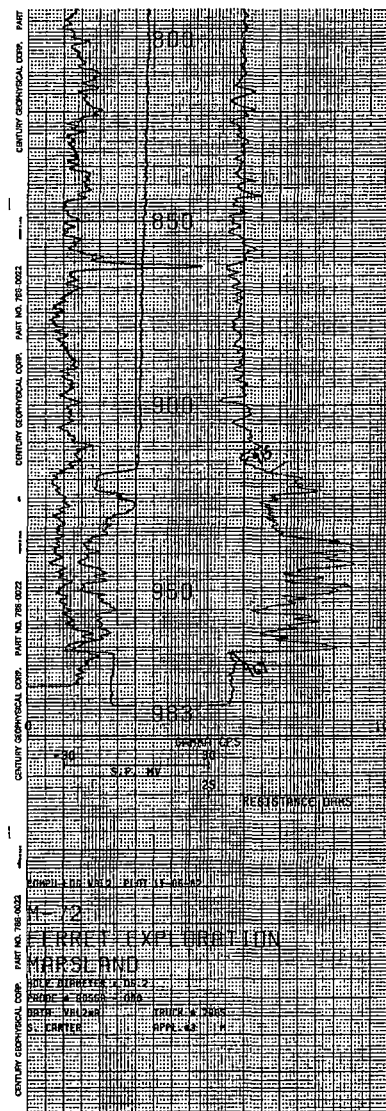
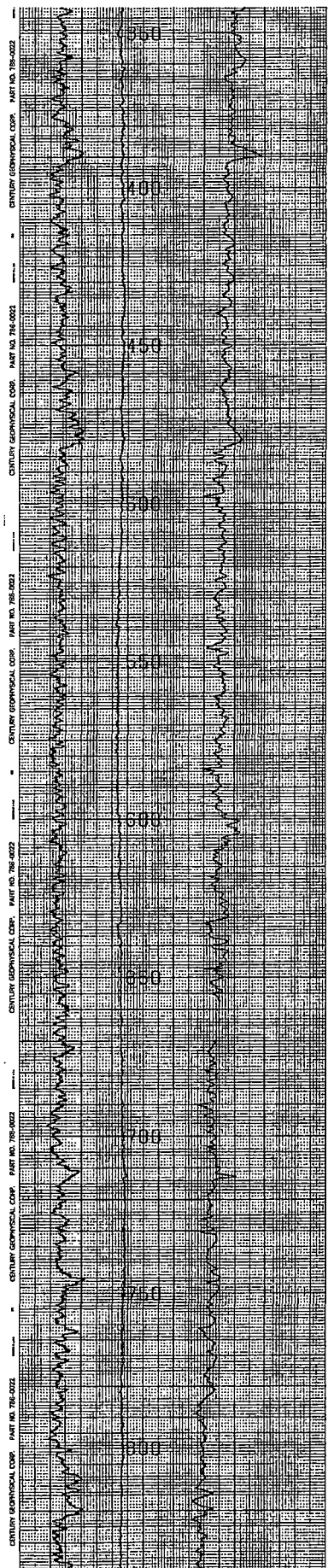
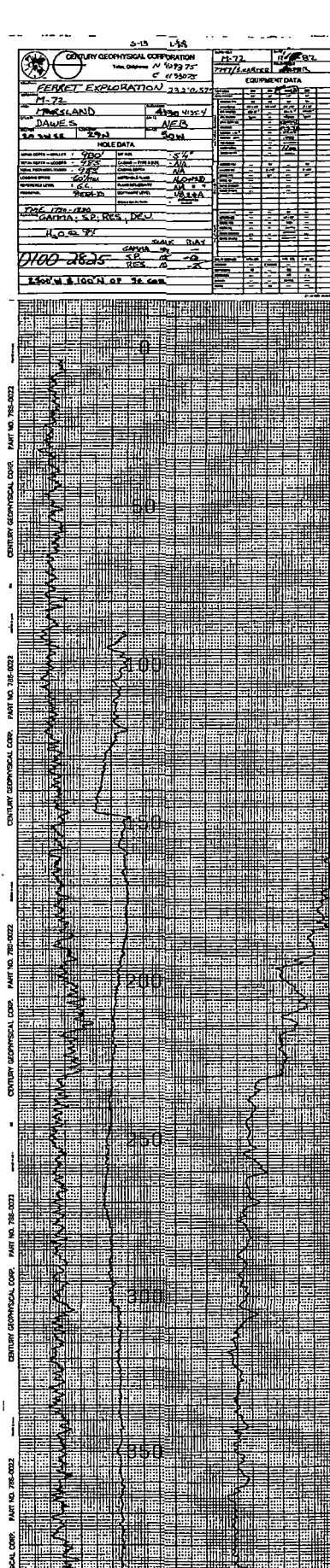


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LOG M-53



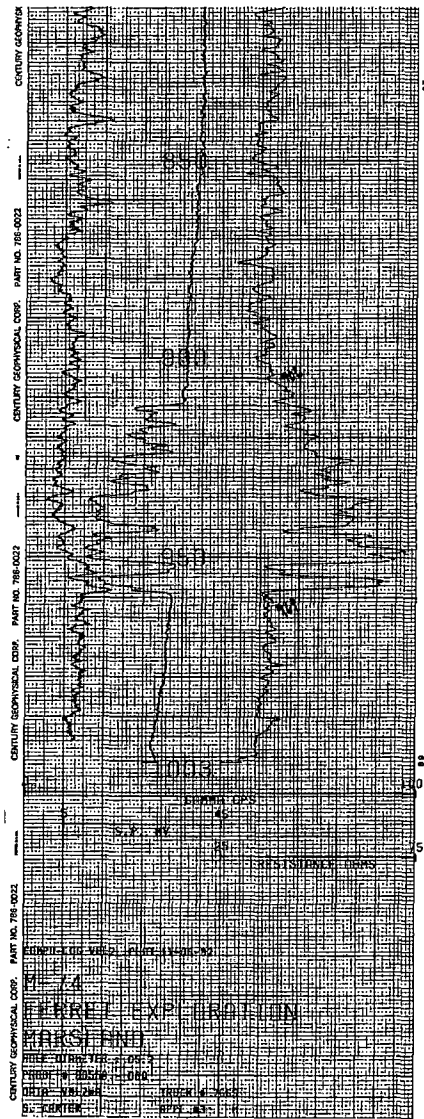
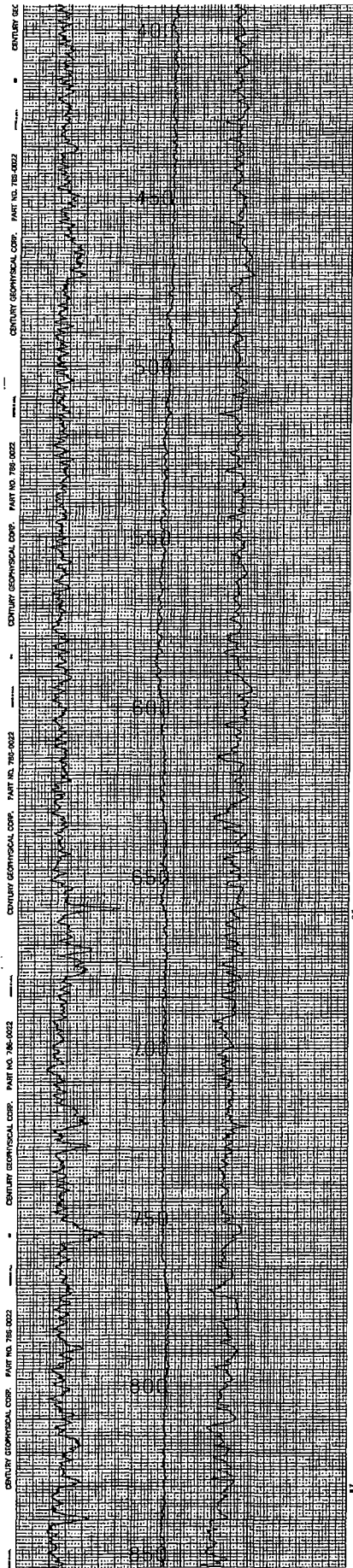
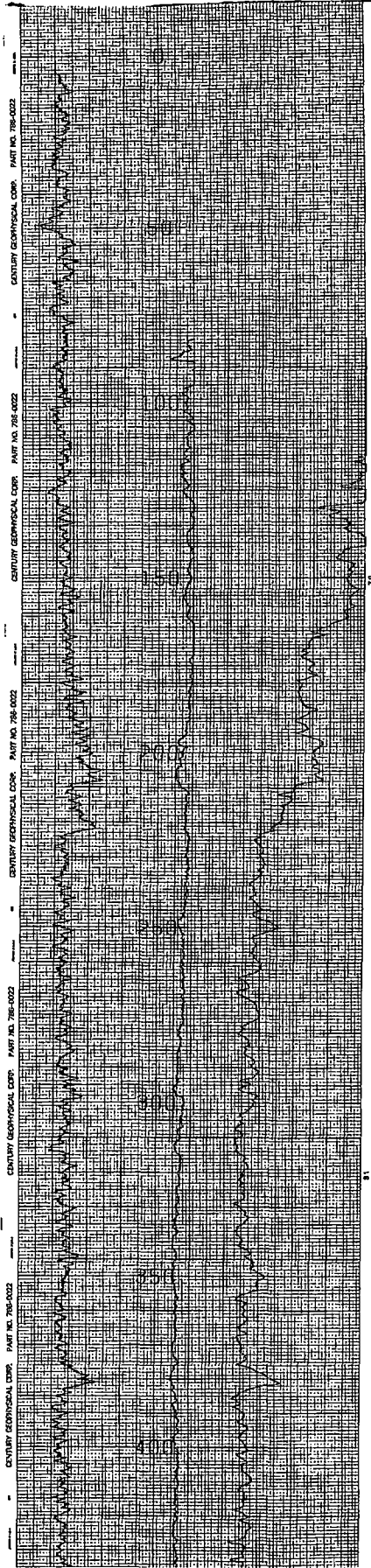
530 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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LOG M-72



630 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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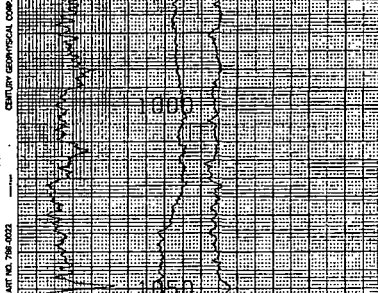
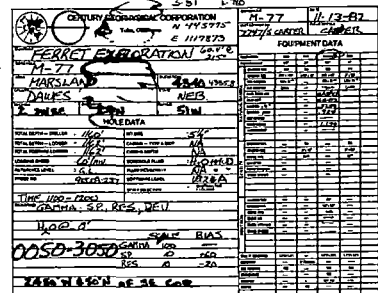
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LOG M-74



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LOG M-77



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5-22 1-18

CENTURY GEOPHYSICAL CORPORATION
 Title: Exploration N 432087
 # 115514

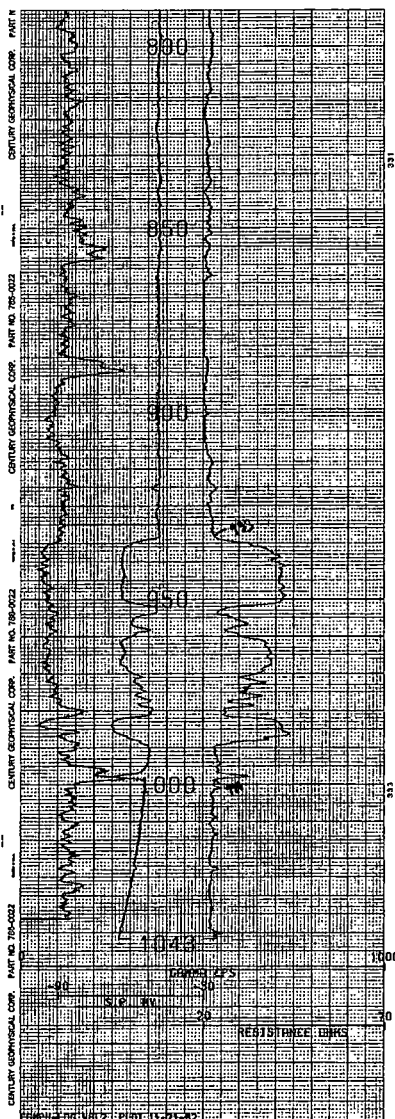
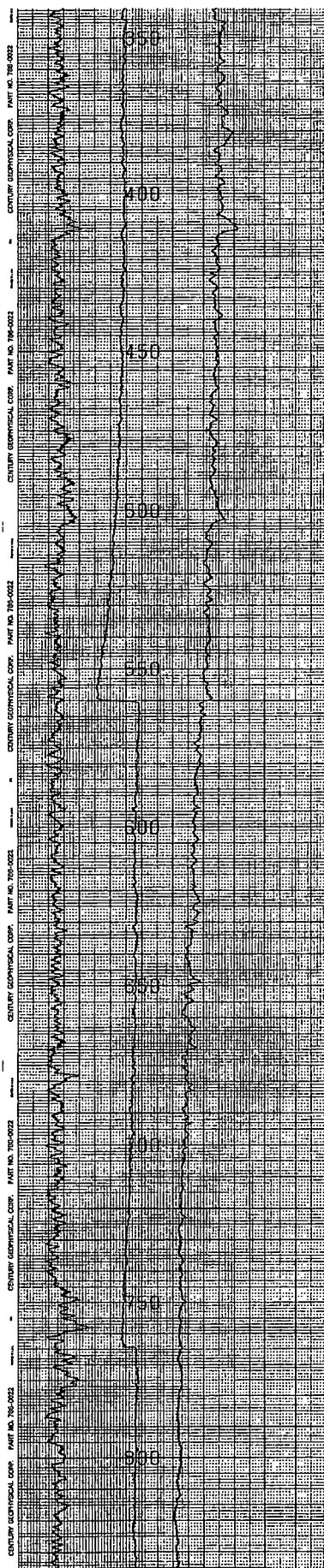
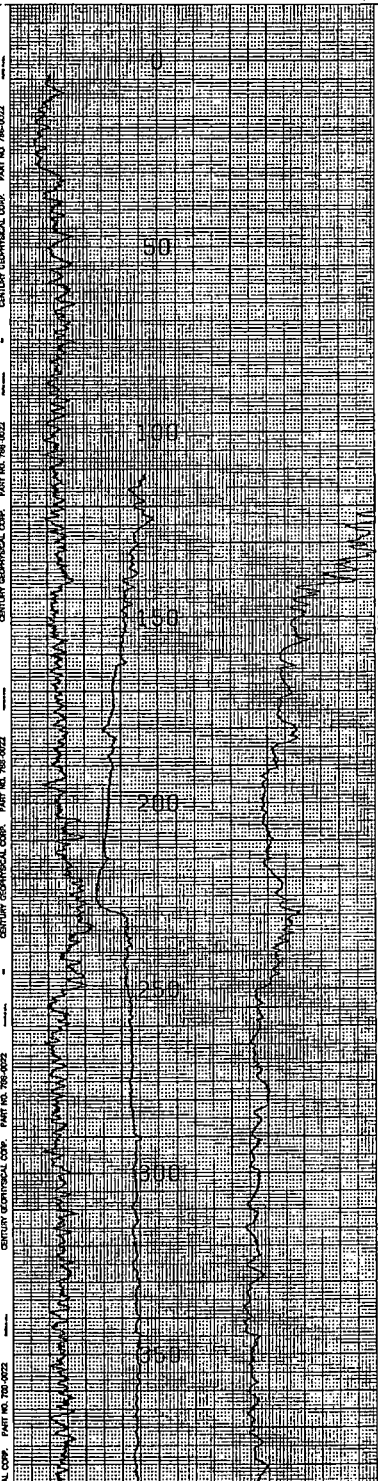
FERRET EXPLORATION

M-90
 MARSLAND
 DAWES
 20.0000 2.00 50W

VOLUME DATA

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10/24	10:00	RES	2
10/24	10:00	RES	3
10/24	10:00	RES	4
10/24	10:00	RES	5
10/24	10:00	RES	6
10/24	10:00	RES	7
10/24	10:00	RES	8
10/24	10:00	RES	9
10/24	10:00	RES	10
10/24	10:00	RES	11
10/24	10:00	RES	12
10/24	10:00	RES	13
10/24	10:00	RES	14
10/24	10:00	RES	15
10/24	10:00	RES	16
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10/24	10:00	RES	21
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10/24	10:00	RES	24
10/24	10:00	RES	25
10/24	10:00	RES	26
10/24	10:00	RES	27
10/24	10:00	RES	28
10/24	10:00	RES	29
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10/24	10:00	RES	34
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10/24	10:00	RES	45
10/24	10:00	RES	46
10/24	10:00	RES	47
10/24	10:00	RES	48
10/24	10:00	RES	49
10/24	10:00	RES	50

2750-1300 SCALE: 1000
 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

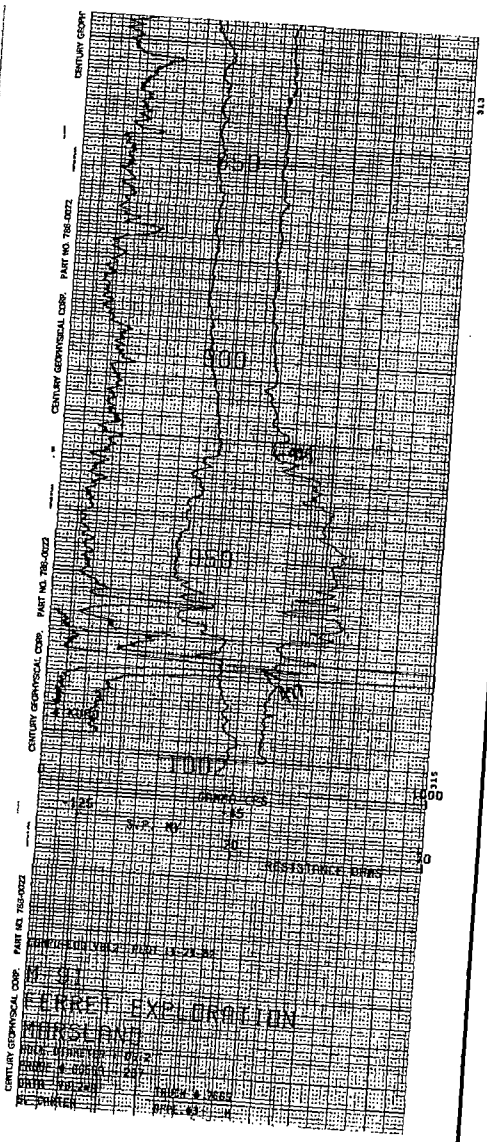
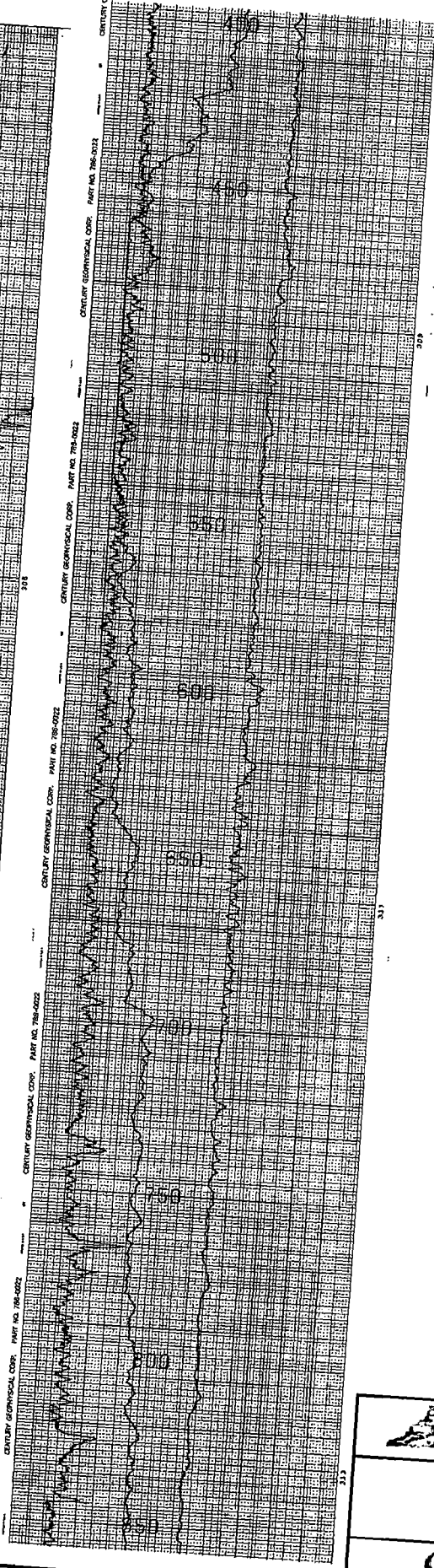
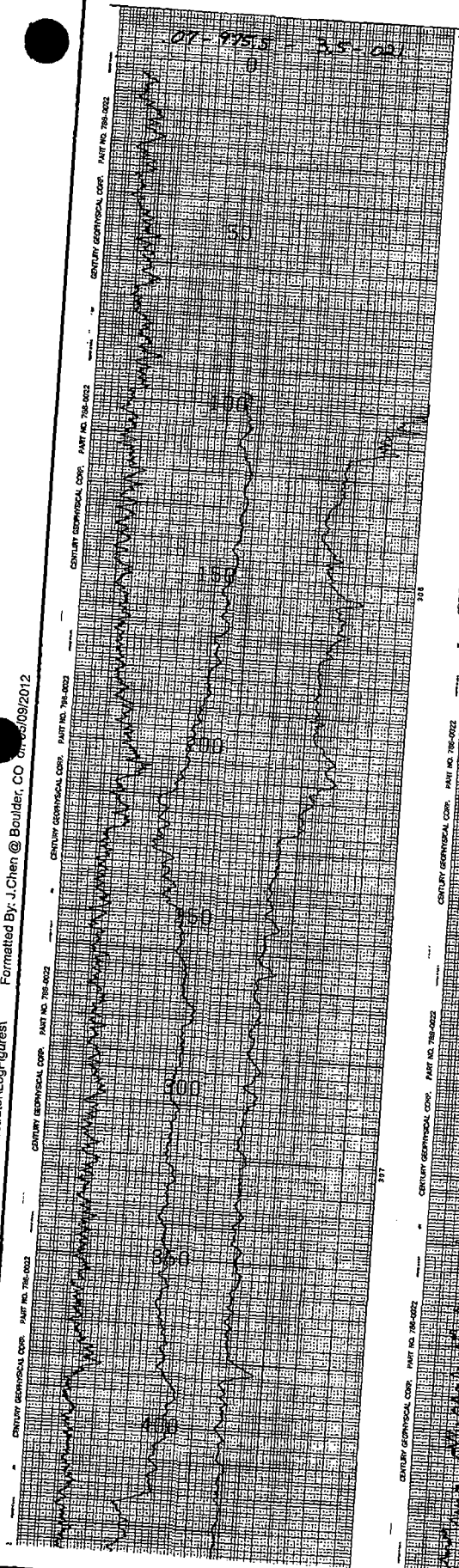


**CROW BUTTE
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LOG M-90



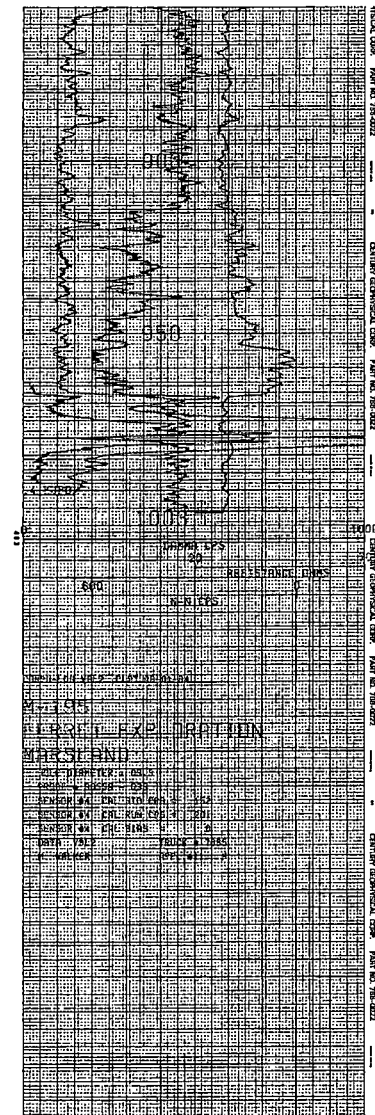
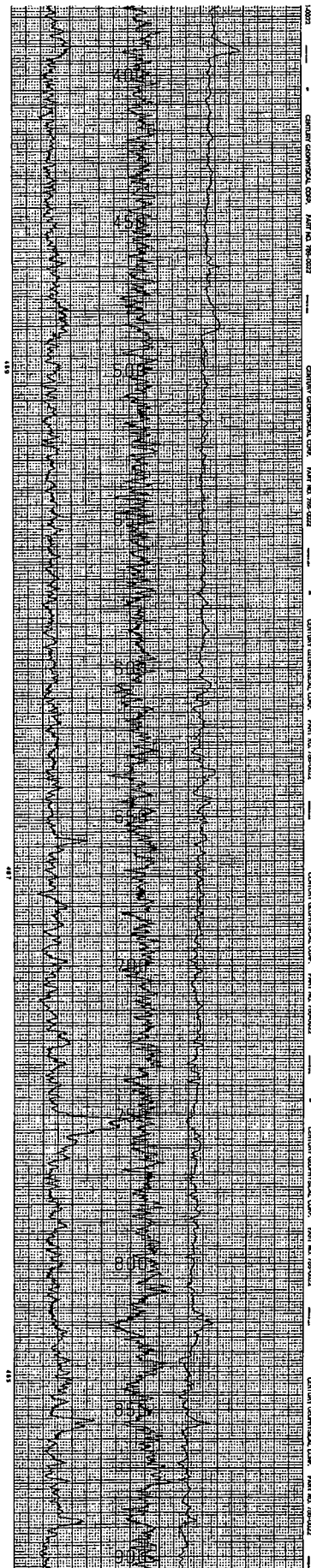
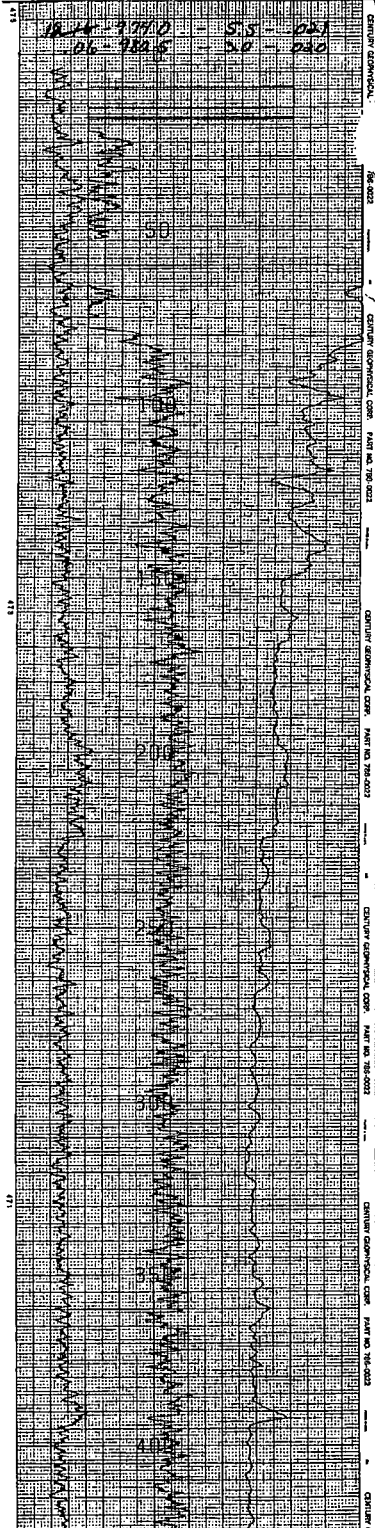
630 Plaza Drive, Ste. 100
 Highlands Ranch, CO 80129
 P: 720-344-3500 F: 720-344-3535
 www.arcadis-us.com

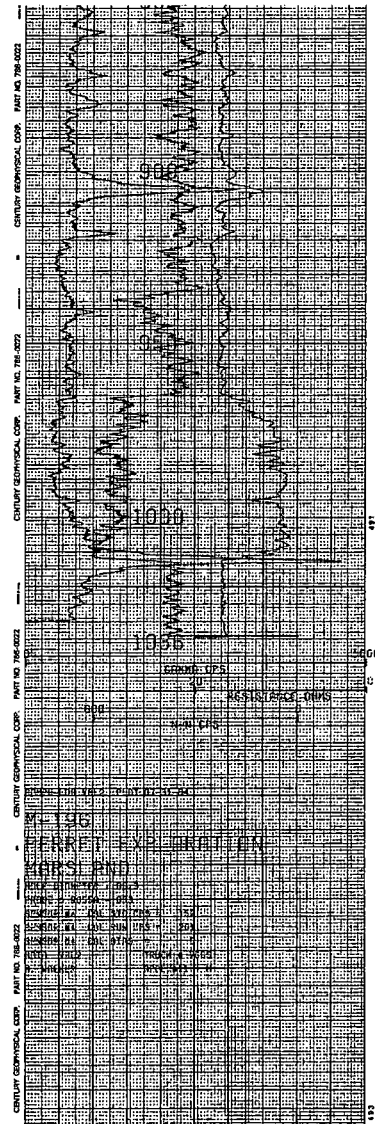
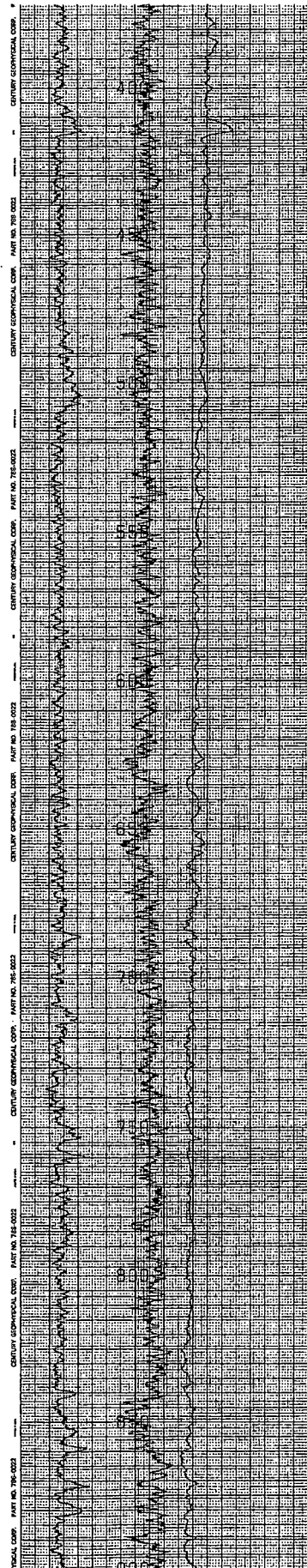
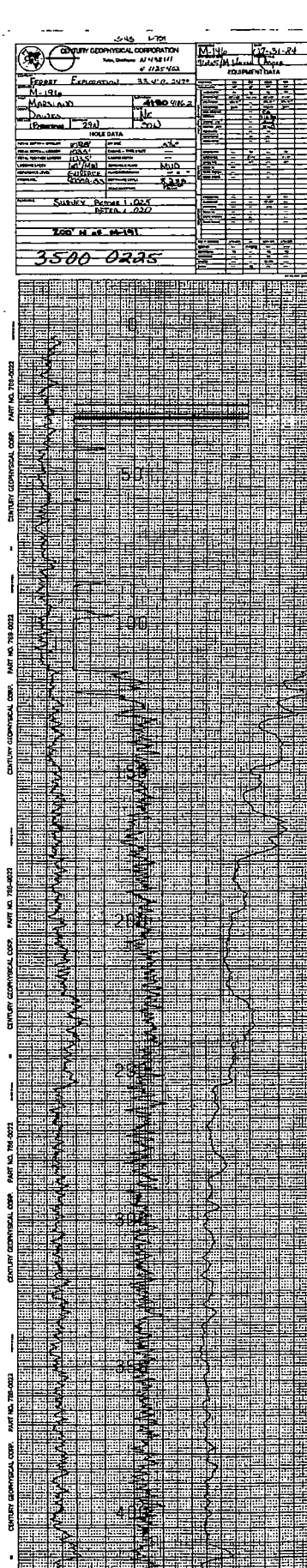


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LOG M-91

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[illegible]

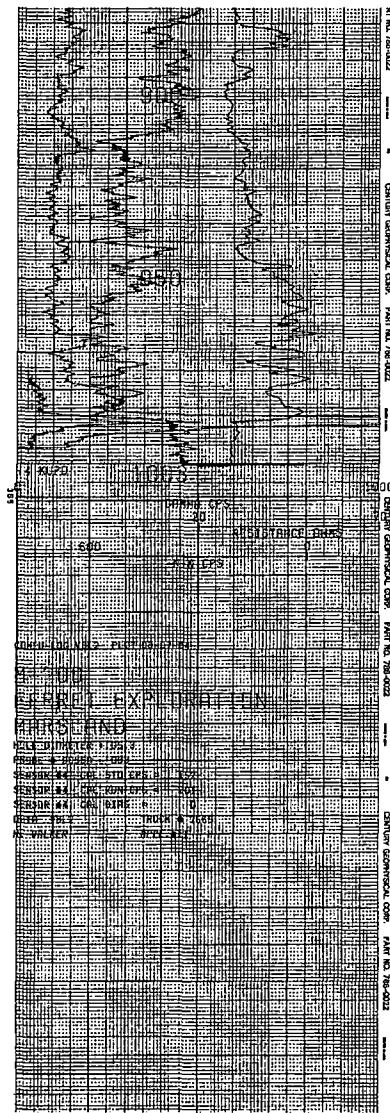
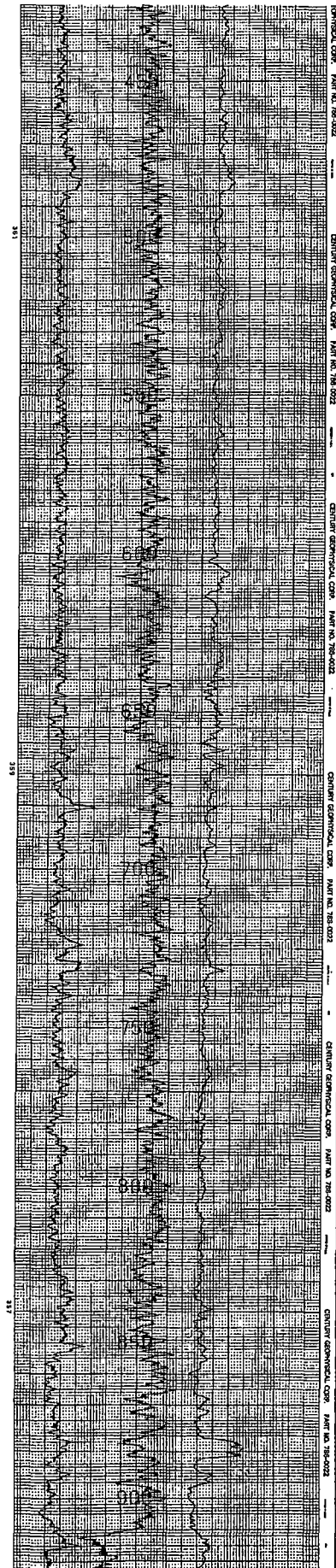
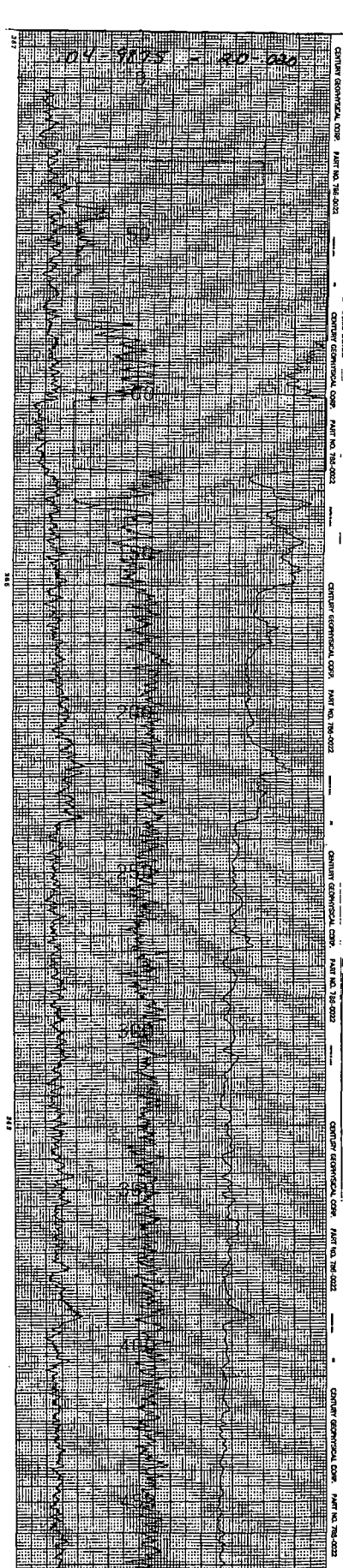


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LOG M-196



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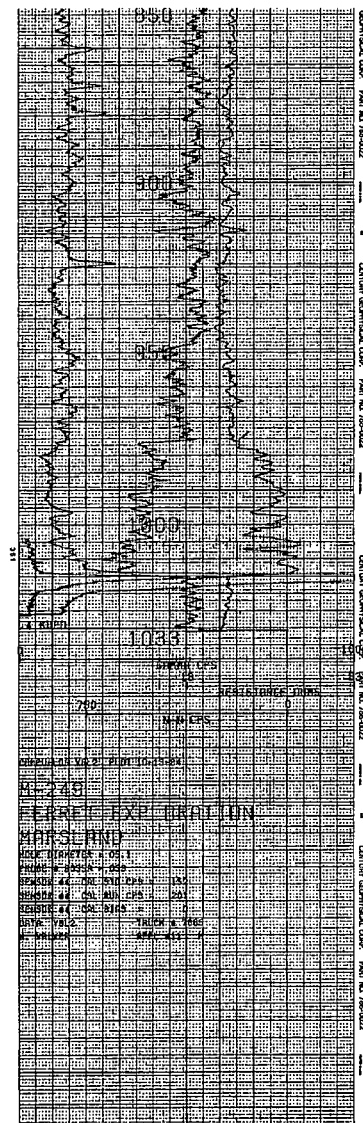
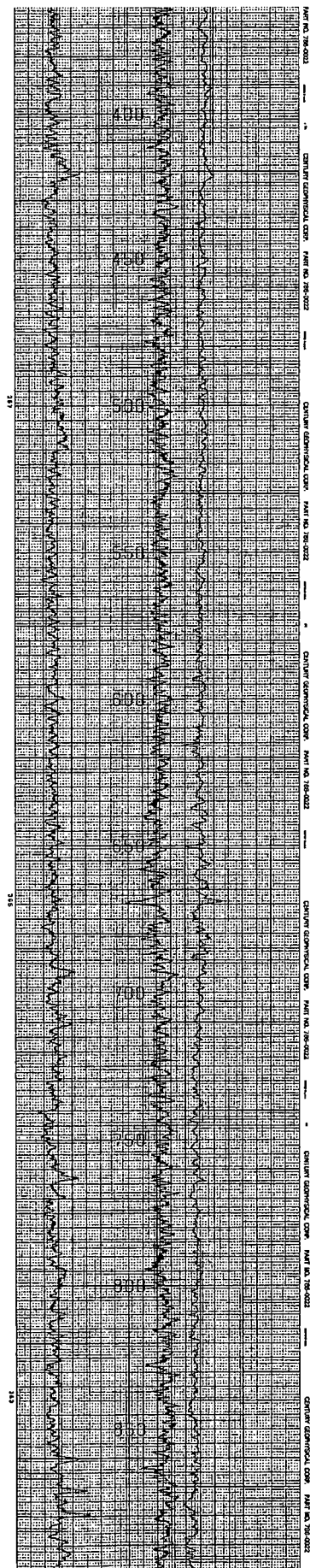
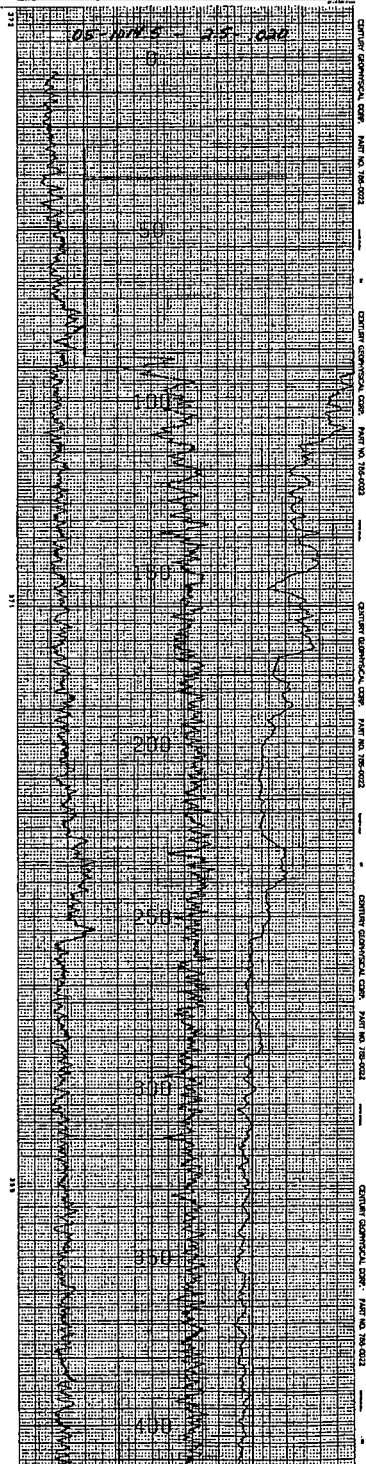
LOG M-200



ARCADIS

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CENTURY GEOPHYSICAL CORPORATION 1122 E. 10th Ave. Boulder, CO 80502 Tel: 303.440.1234 Fax: 303.440.1235 www.centurygeophysical.com	
LOG M-249 1122 E. 10th Ave. Boulder, CO 80502 Tel: 303.440.1234 Fax: 303.440.1235 www.centurygeophysical.com	
PROJECT DATA	
Project Name	LOG M-249
Client	ARCADIS
Location	1122 E. 10th Ave.
City	Boulder, CO
State	CO
Zip	80502
Country	USA
LOG DATA	
Log Type	SEISMIC
Log Name	LOG M-249
Log Number	1122 E. 10th Ave.
Log Date	11/11/08
Log Time	14:50
Log User	1122 E. 10th Ave.
Log Operator	1122 E. 10th Ave.
Log Recorder	1122 E. 10th Ave.
Log Editor	1122 E. 10th Ave.
Log Reviewer	1122 E. 10th Ave.
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Log Status	1122 E. 10th Ave.
Log Comments	1122 E. 10th Ave.

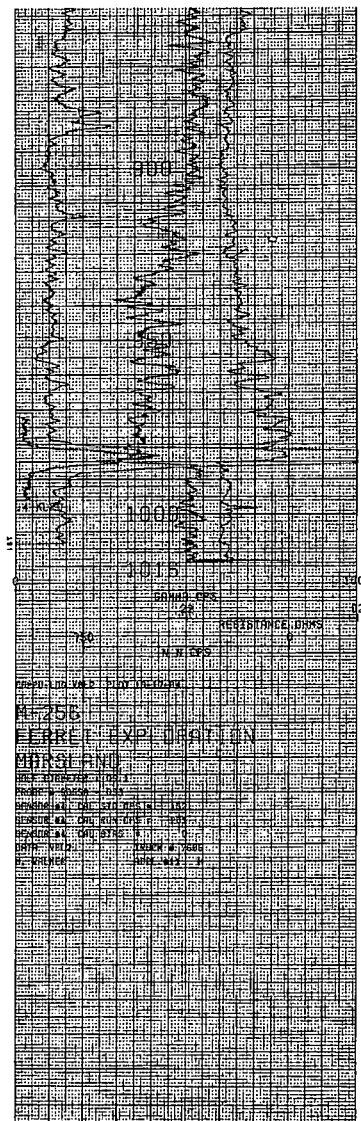
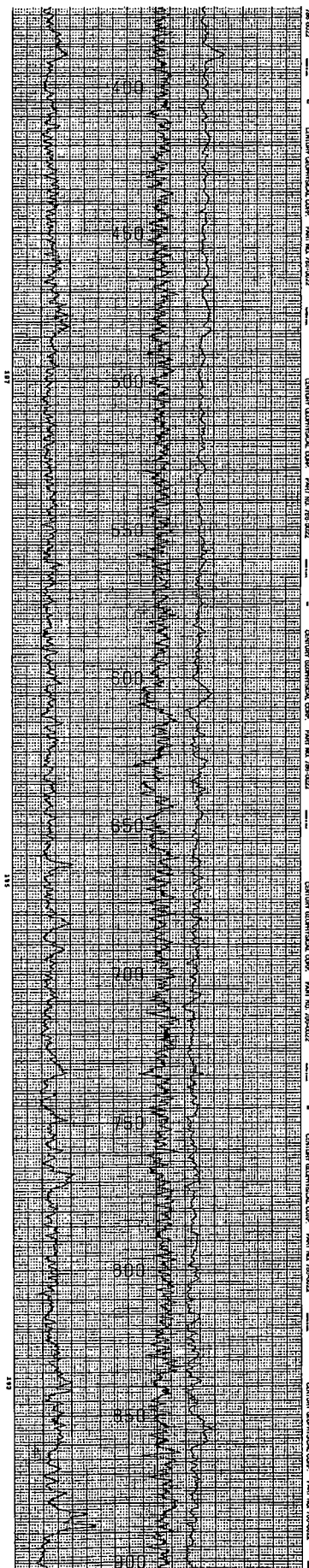
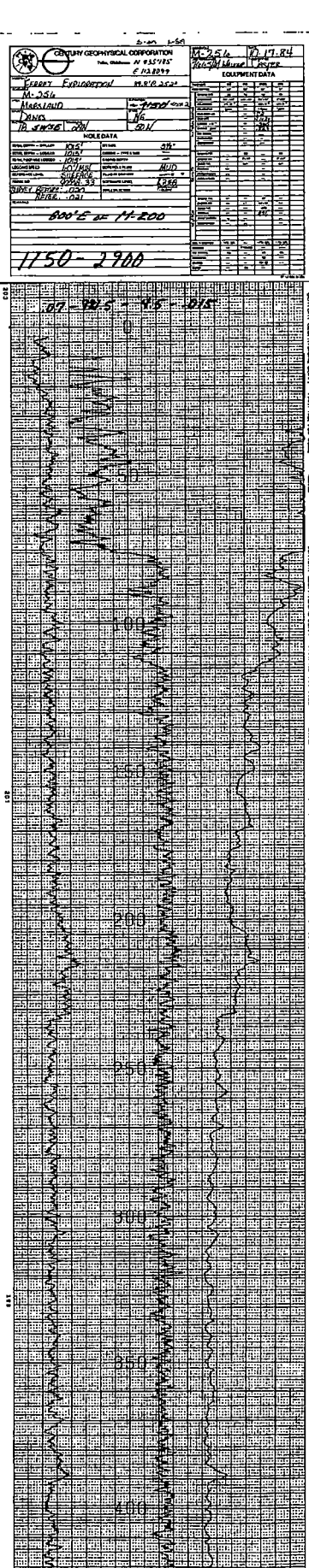


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RESOURCES, INC.

LOG M-249

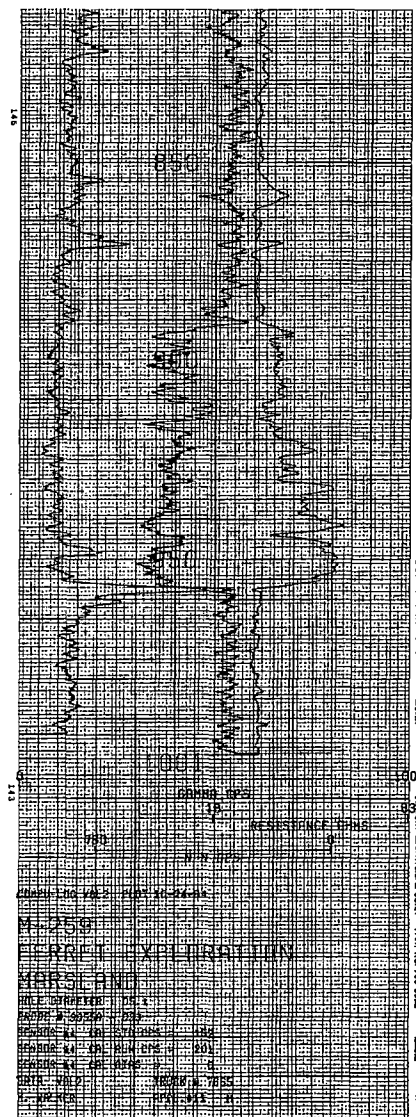
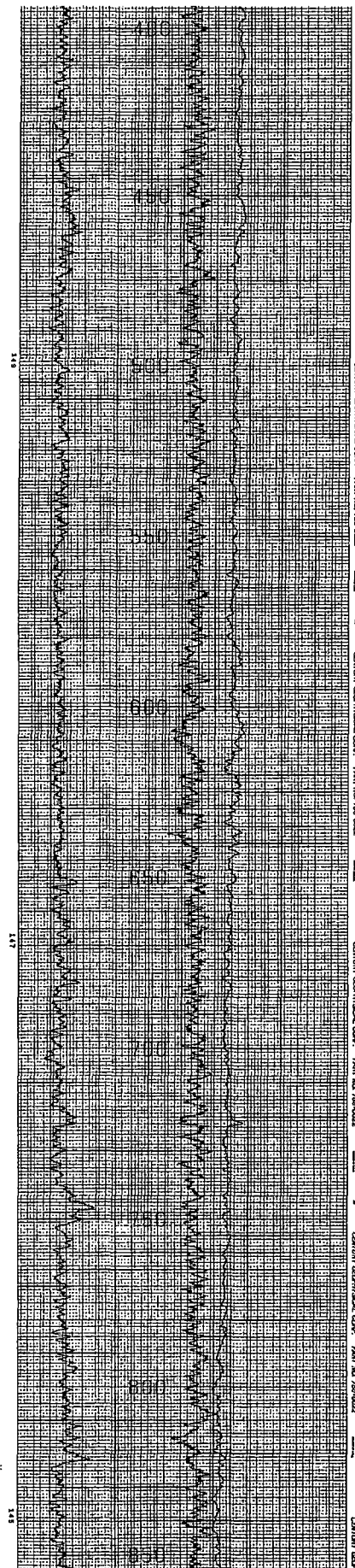
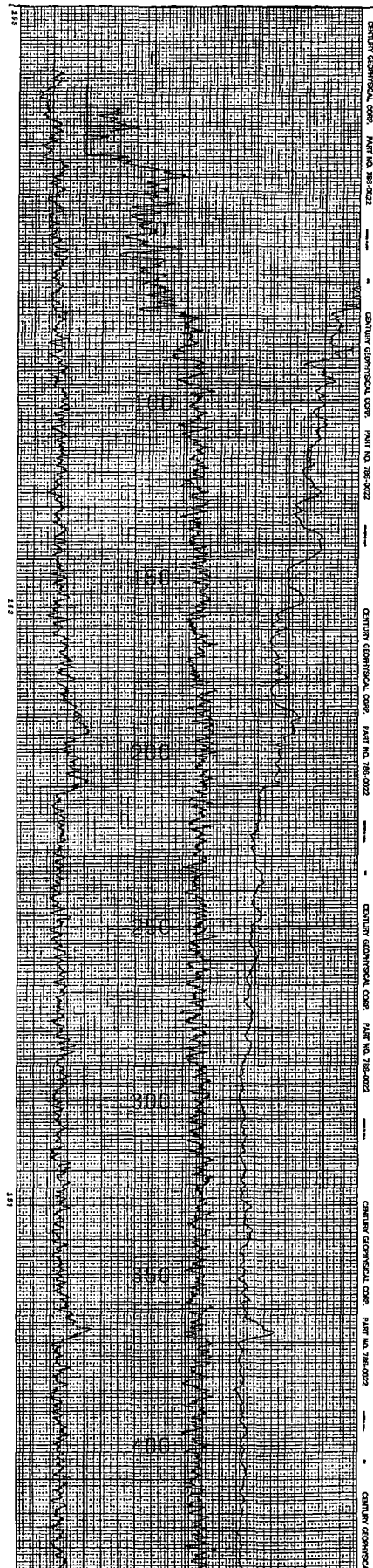


630 Plaza Drive, Ste. 100
Highlands Ranch, CO 80128
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www.arcadis-us.com



LOG M-256





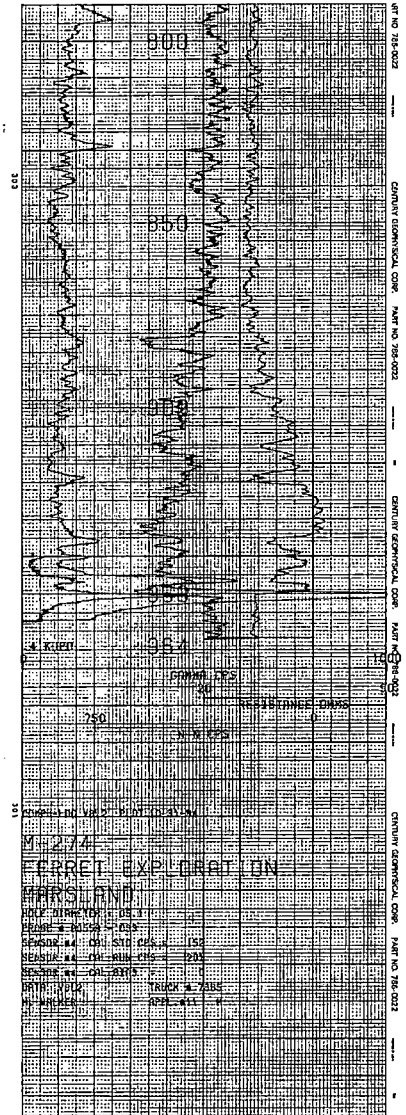
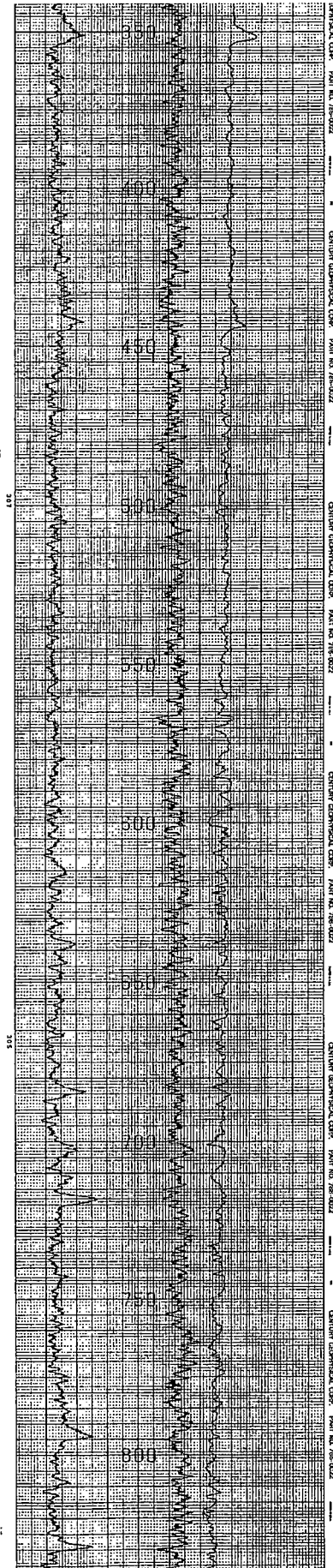
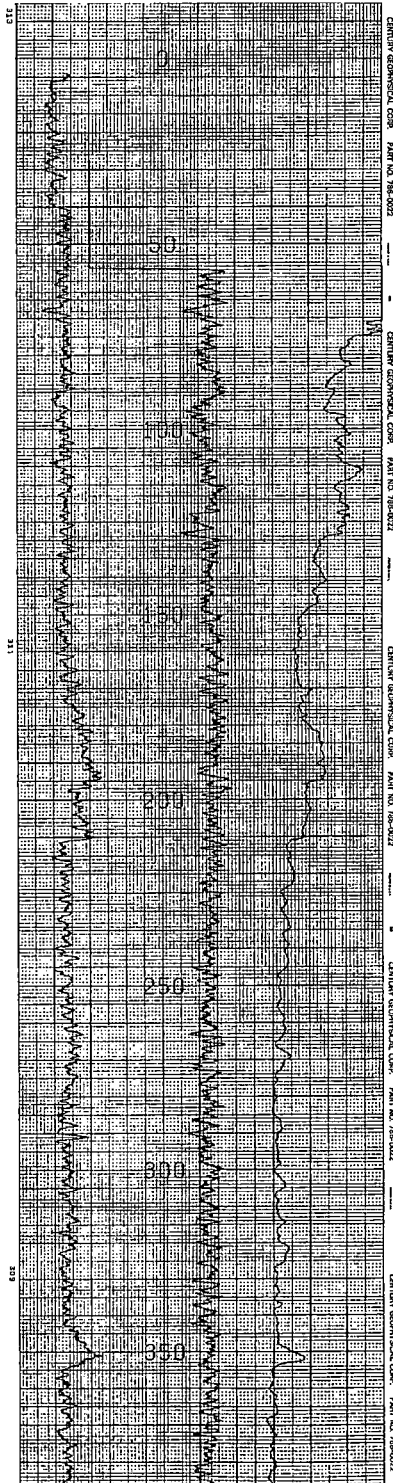
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LOG M-259



ARCADIS
630 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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CENTURY GEOPHYSICAL CORPORATION 1000 W. 14th Ave. Suite 100 Boulder, CO 80502 Tel: 303.440.1100 Fax: 303.440.1101 www.centurygeophysical.com	
PROJECT INFORMATION Project Name: M-274 Client: MARILAND Date: 10/11/07 Time: 10:00 AM	
EQUIPMENT DATA System: 24-25 P. 100 Geophone: 24-25 P. 100 Recorder: 24-25 P. 100 Cable: 24-25 P. 100 Power: 24-25 P. 100 Operator: 24-25 P. 100	
FIELD DATA Location: 1000 W. 14th Ave. Site: 0175-0050 Survey: 1000 W. 14th Ave. Notes: 0175-0050	



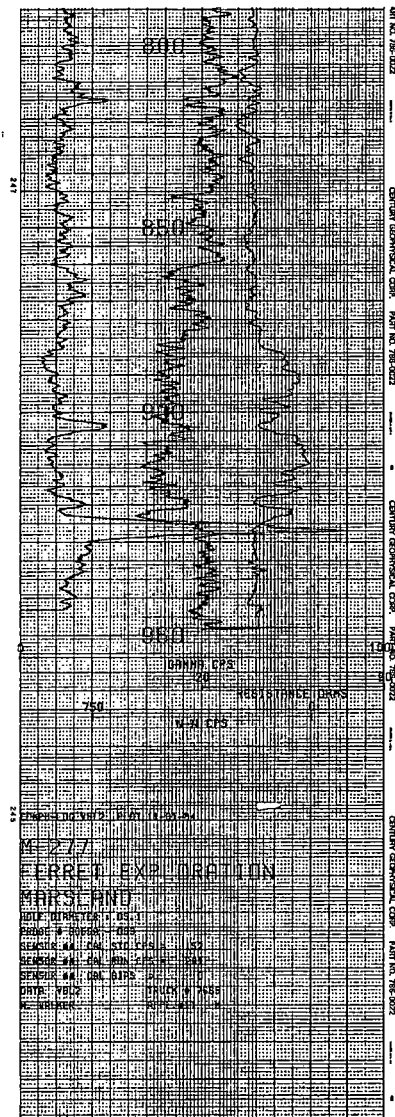
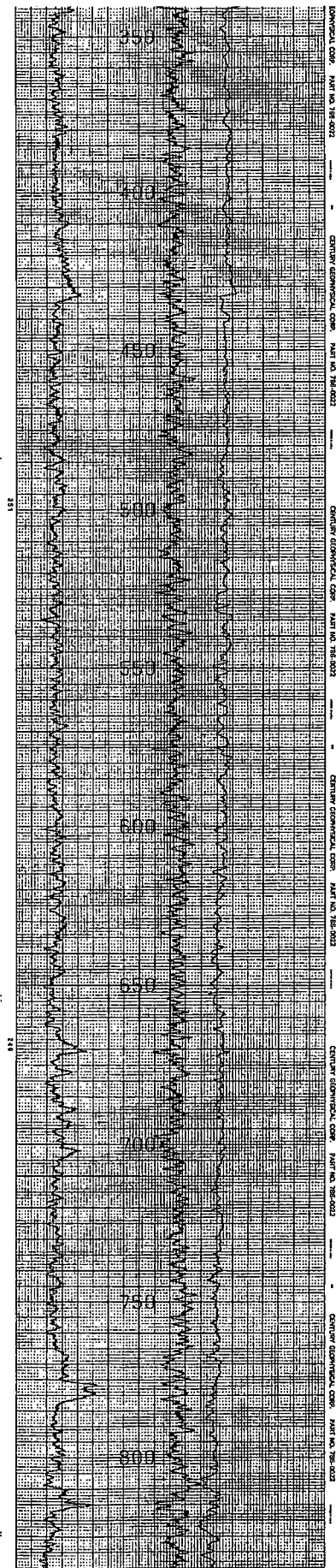
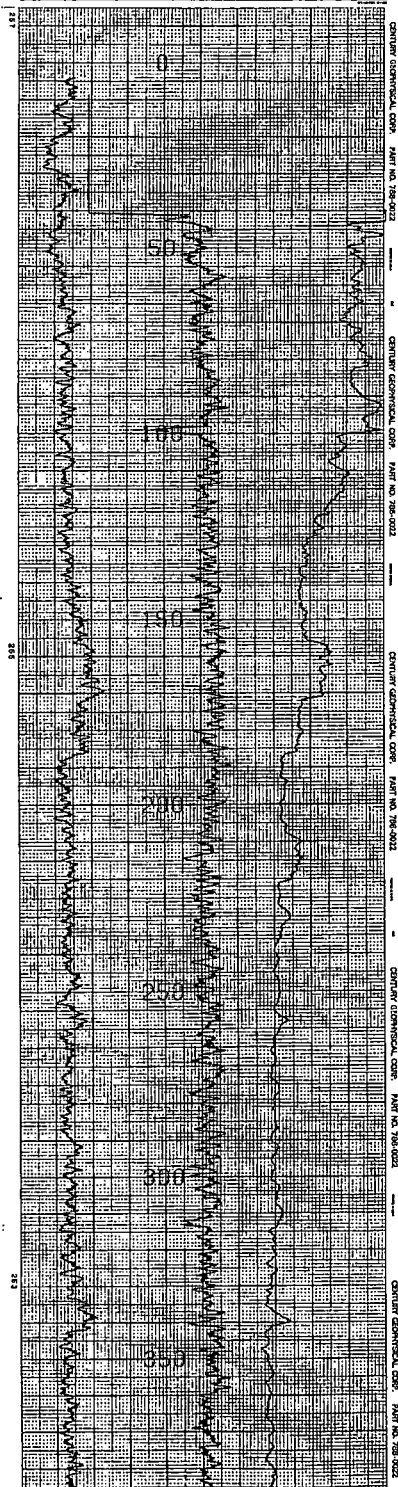
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LOG M-274



830 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
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CENTURY GEOPHYSICAL CORPORATION 1000 W. 1st St. Suite 100 Boulder, CO 80502 Phone: 303.440.1234 Fax: 303.440.1235 Email: info@centurygeophysical.com																																																					
Project: Exploration 2012-01-01 Job No: M-277 Client: M-277 Date: 1/1/12 Time: 10:00 AM Location: 1000 W 1st St Suite 100 City: Boulder, CO State: CO Zip: 80502 Surveyor: J. Chen Operator: J. Chen Recorder: J. Chen Field Notes: 1000 W 1st St Suite 100 0100-3650																																																					
EQUIPMENT DATA <table border="1"> <tr> <th>Item</th> <th>Model</th> <th>Serial</th> <th>Notes</th> </tr> <tr> <td>System</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Receiver</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Transmitter</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Antenna</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Cable</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Power</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Time</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Location</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>State</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Zip</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>City</td> <td>1000</td> <td>1000</td> <td></td> </tr> <tr> <td>Country</td> <td>1000</td> <td>1000</td> <td></td> </tr> </table>		Item	Model	Serial	Notes	System	1000	1000		Receiver	1000	1000		Transmitter	1000	1000		Antenna	1000	1000		Cable	1000	1000		Power	1000	1000		Time	1000	1000		Location	1000	1000		State	1000	1000		Zip	1000	1000		City	1000	1000		Country	1000	1000	
Item	Model	Serial	Notes																																																		
System	1000	1000																																																			
Receiver	1000	1000																																																			
Transmitter	1000	1000																																																			
Antenna	1000	1000																																																			
Cable	1000	1000																																																			
Power	1000	1000																																																			
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Zip	1000	1000																																																			
City	1000	1000																																																			
Country	1000	1000																																																			



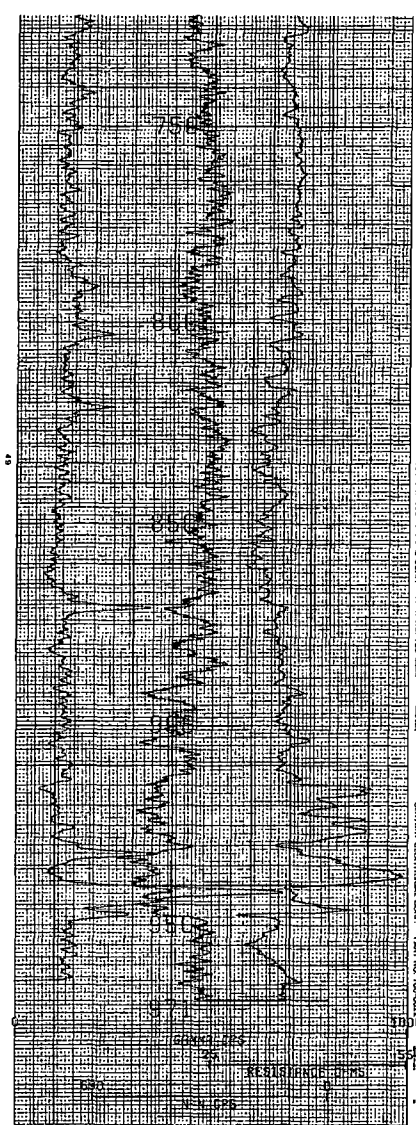
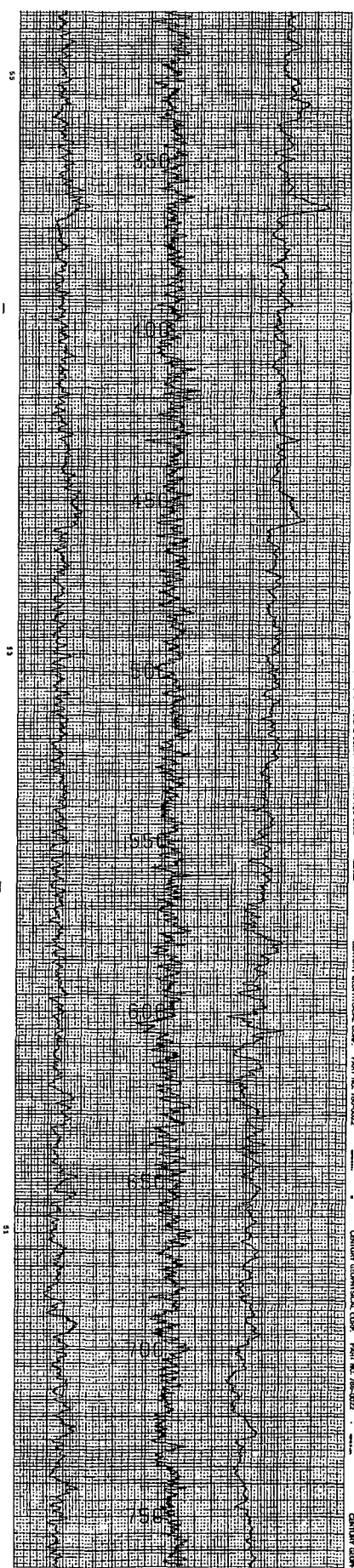
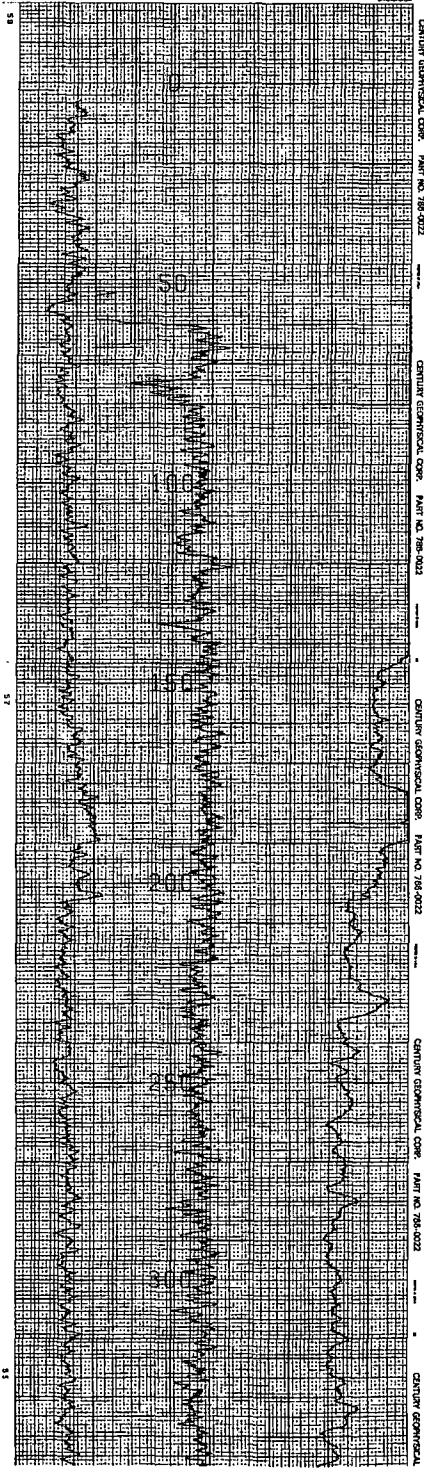
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LOG M-277



630 Plaza Drive, Ste. 100
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CENTURY GEOPHYSICAL CORPORATION 1400 E. 1st Ave. Suite 100 Boulder, CO 80502 Phone: 303.440.1234 Fax: 303.440.1235		LOG M-363 RESISTIVITY LOG 11-20-85
EQUIPMENT DATA		
SURVEY: FERRET DATE: 11-20-85 TIME: 08:00 LOCATION: 24.5°N 102.5°W HOLE DATA: 24.5°N 102.5°W HOLE NO.: 100' E & E M-363 HOLE DEPTH: 100' HOLE DIAMETER: 3.0" HOLE TYPE: WELL HOLE STATUS: ACTIVE HOLE COMMENTS: 0150-1025		



**CROW BUTTE
RESOURCES, INC.**

LOG M-363



630 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
P: 720-344-3500 F: 720-344-3535
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FRONTIER LOGS 3715-0450

LOG NO. 3715-0450
 DATE: MAY 5, 1968
 WELL: 3715-0450
 LOCATION: 3715-0450

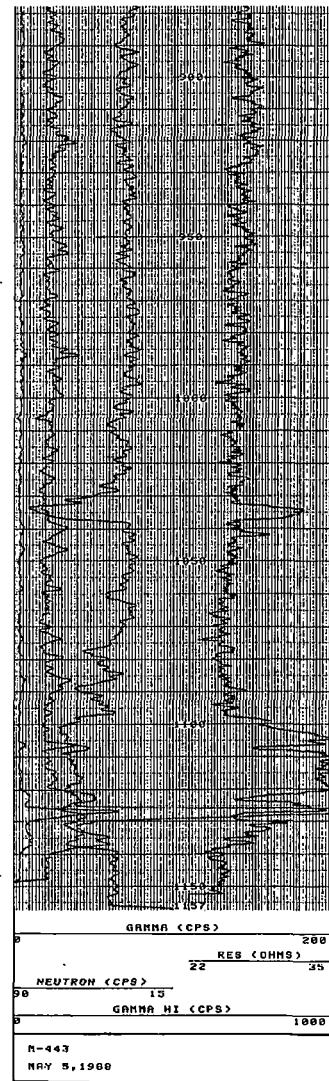
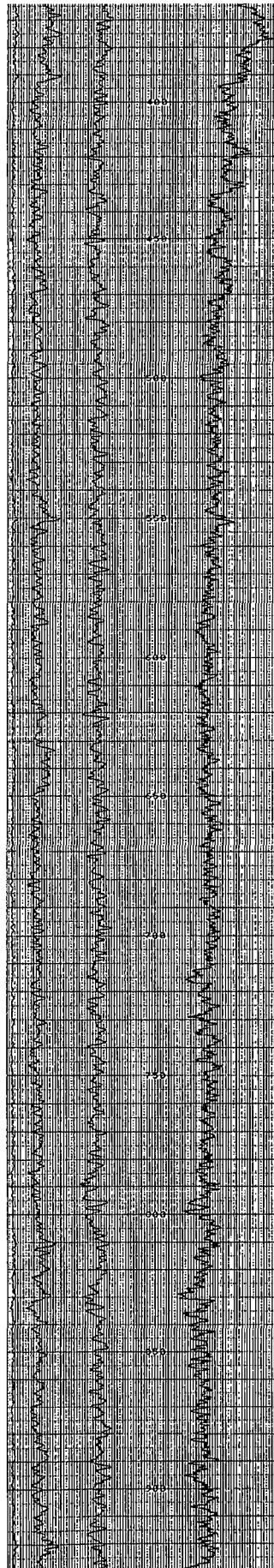
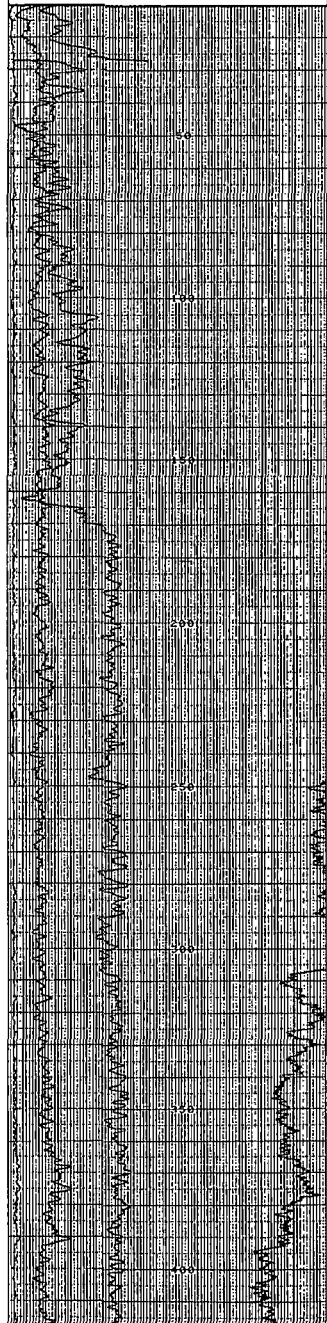
WELL CONTRACTOR: HALL & HALL
 WELL DEPTH: 1000
 WELL TYPE: 3715-0450

WELL LOG: 3715-0450
 WELL TYPE: 3715-0450

WELL LOG: 3715-0450
 WELL TYPE: 3715-0450

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

M-443
 MAY 5, 1968

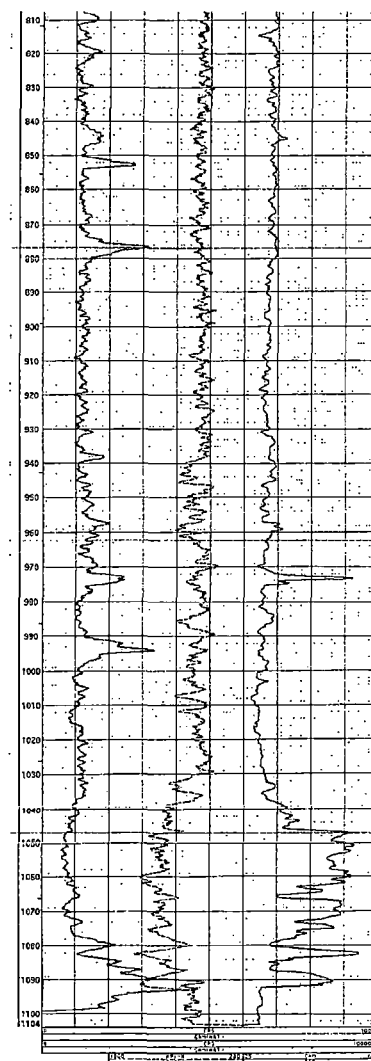
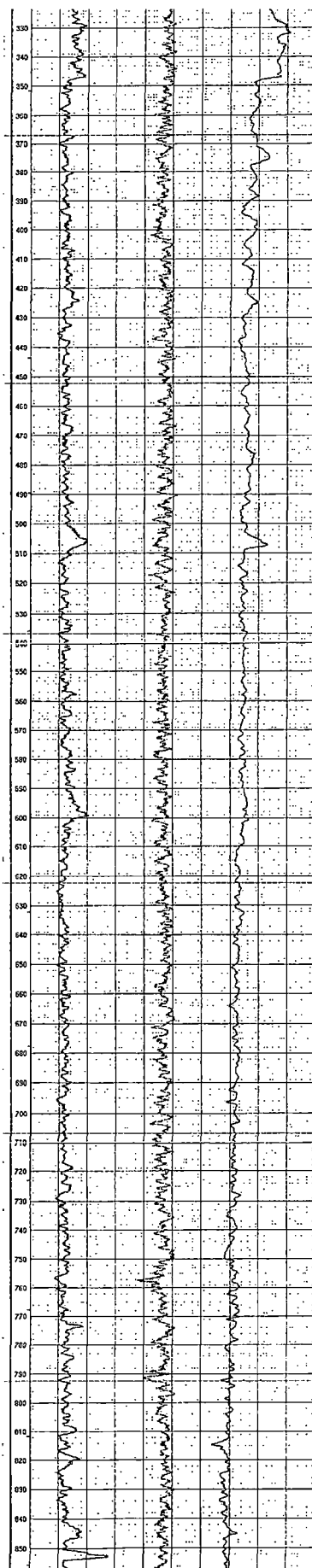
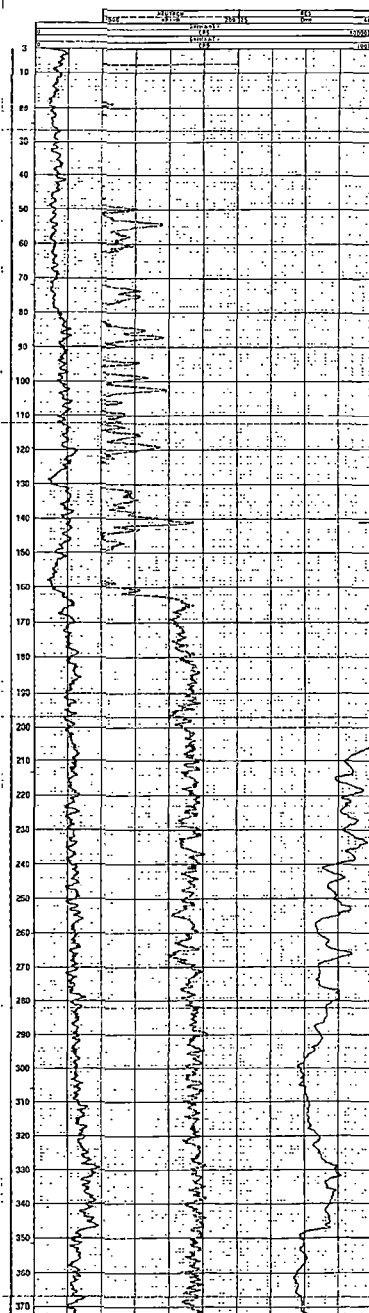


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LOG M-443



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LOG M-704



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www.arcadis-us.com

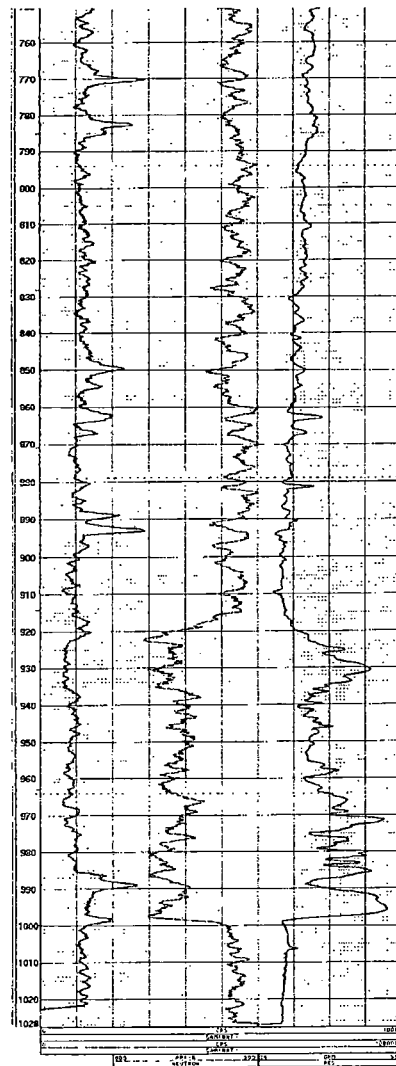
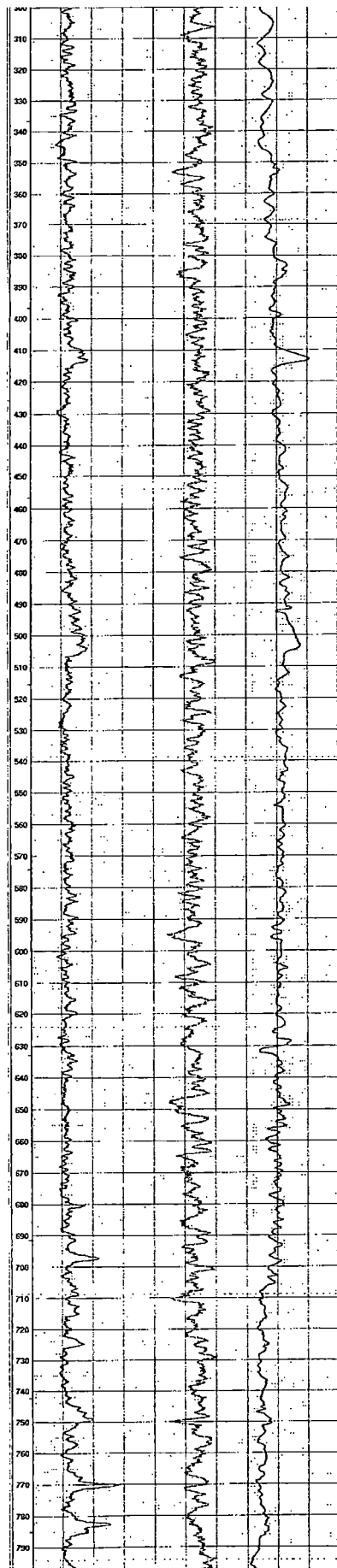
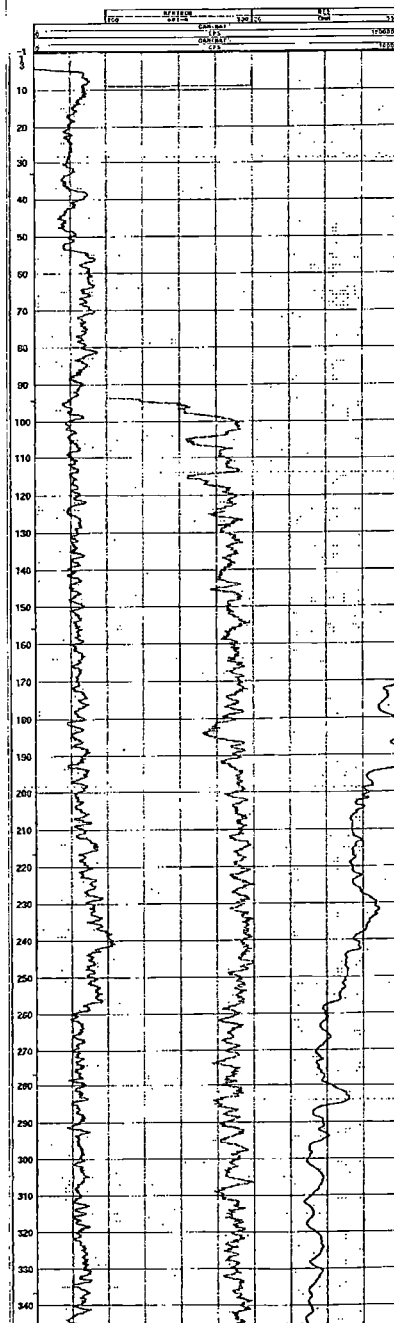
2-0 1-47

Century
GEOLOGICAL CORP.

M-783 3650-3600

CLIENT	GEORGE	PROJECT NO.	11-105078
ADDRESS	1000	DATE	11-105078
CITY	BOULDER	BY	11-105078
STATE	CO	DATE	11-105078
ZIP	80501	BY	11-105078
PROJECT	1000	DATE	11-105078
DATE	11-105078	PROJECT NO.	11-105078
CLIENT	GEORGE	PROJECT NO.	11-105078
ADDRESS	1000	DATE	11-105078
CITY	BOULDER	BY	11-105078
STATE	CO	DATE	11-105078
ZIP	80501	BY	11-105078
PROJECT	1000	DATE	11-105078

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

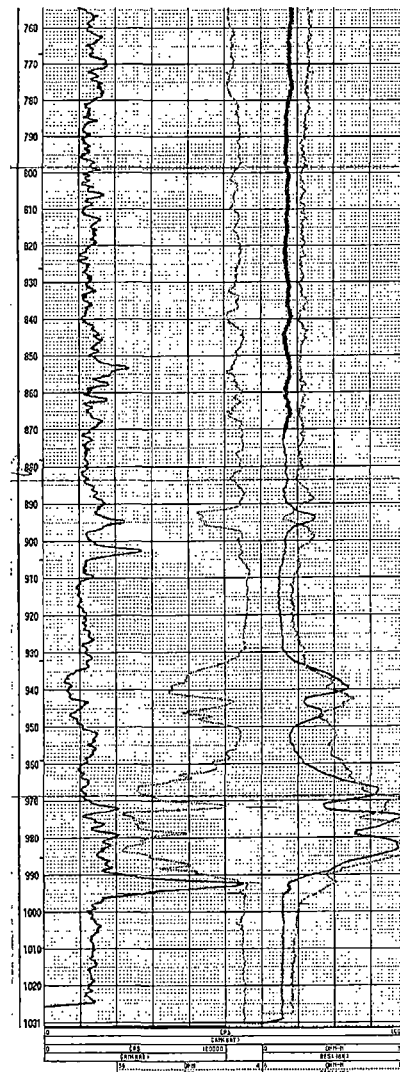
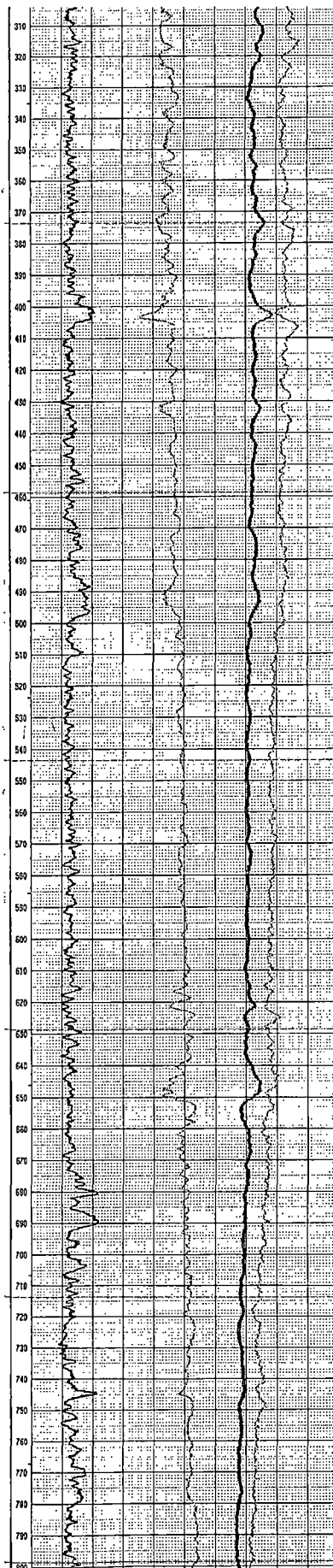
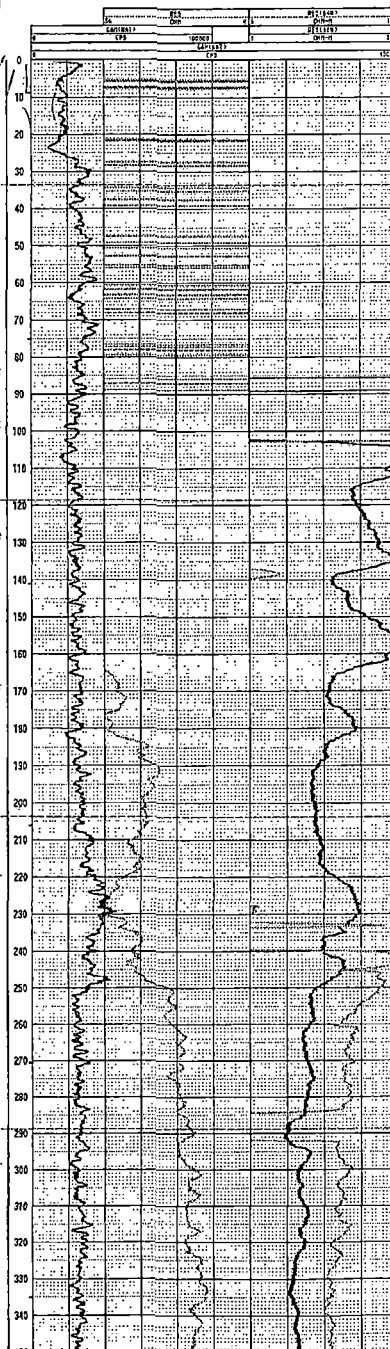
2-15 1-192

Century
GEOPHYSICAL CORP.
M-894 2350-1800

COMPANY : GEOPHYSICAL WELL : M-894 LOCATION : 2350-1800 DATE : 1-192 STATE : CO COUNTY : 2350-1800	OTHER COMMENTS : N-1457052 E-1470527	TOWNSHIP : 23N RANGE : 18W SECTION : 23
---	--	---

SURVEY : 2350-1800 LOG TYPE : 2350-1800 DATE : 1-192 TIME : 14:00 OPERATOR : J. CHEN INSTRUMENT : 2350-1800 METHOD : 2350-1800 RECORD : 2350-1800	SURVEY : 2350-1800 LOG TYPE : 2350-1800 DATE : 1-192 TIME : 14:00 OPERATOR : J. CHEN INSTRUMENT : 2350-1800 METHOD : 2350-1800 RECORD : 2350-1800	SURVEY : 2350-1800 LOG TYPE : 2350-1800 DATE : 1-192 TIME : 14:00 OPERATOR : J. CHEN INSTRUMENT : 2350-1800 METHOD : 2350-1800 RECORD : 2350-1800
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ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

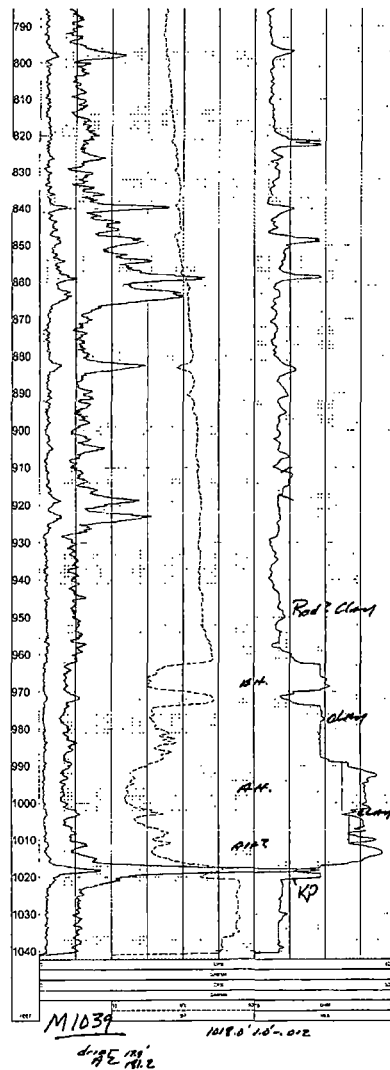
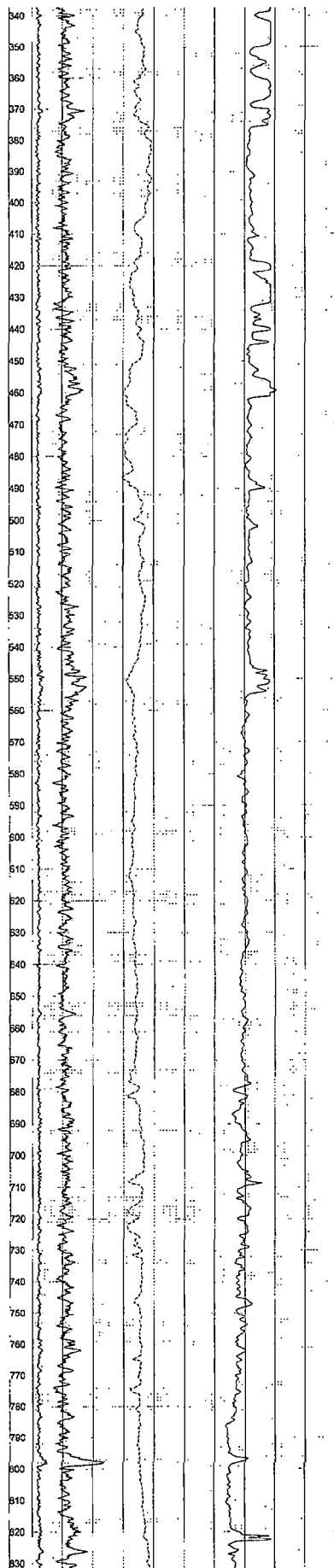
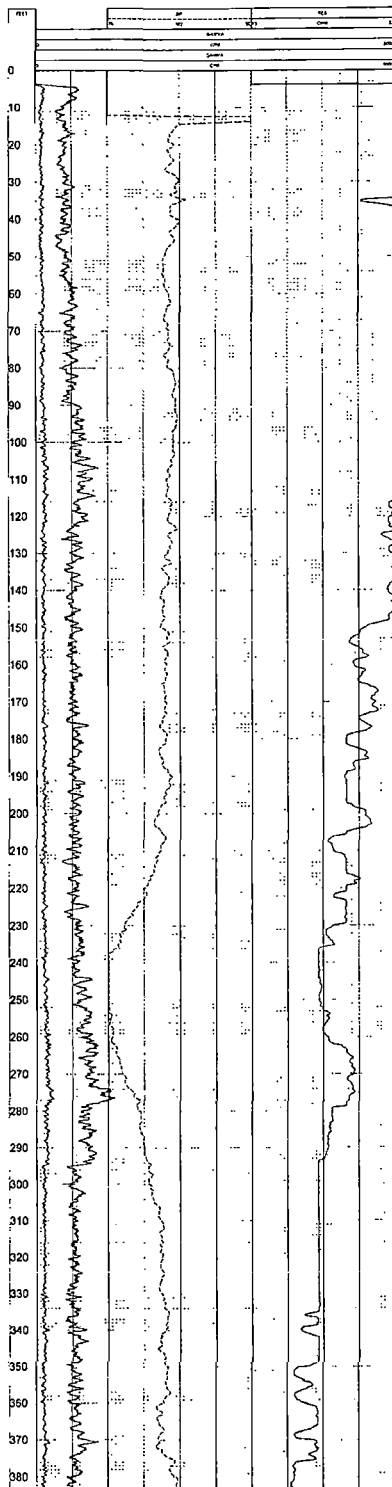
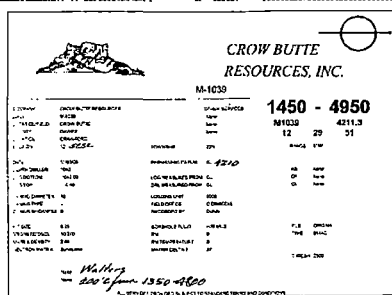


**CROW BUTTE
RESOURCES, INC.**

LOG M-894



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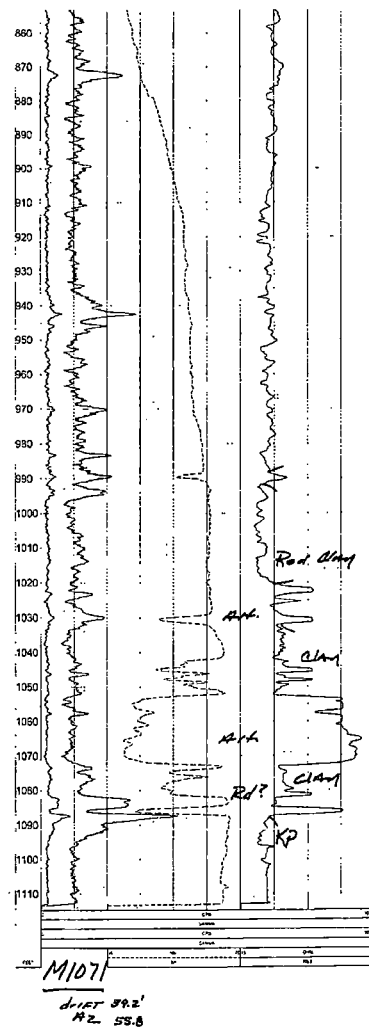
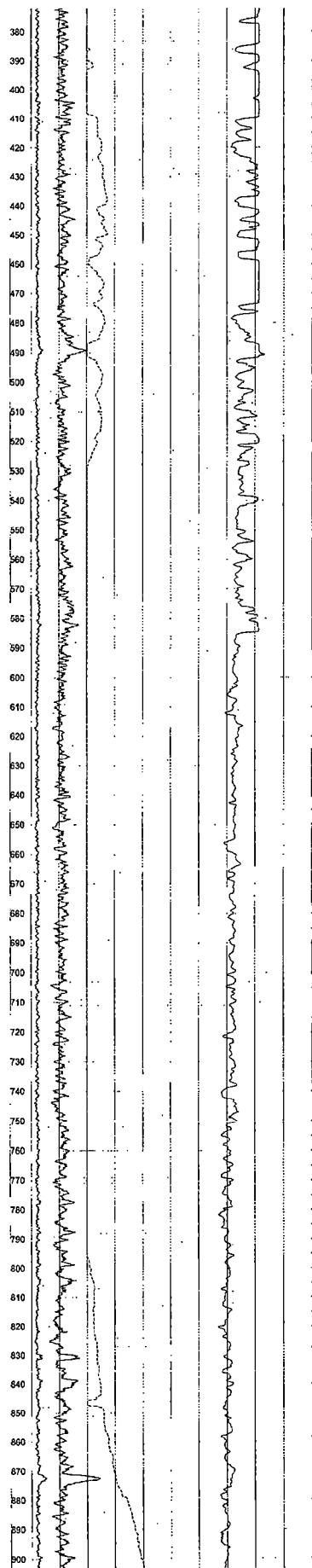
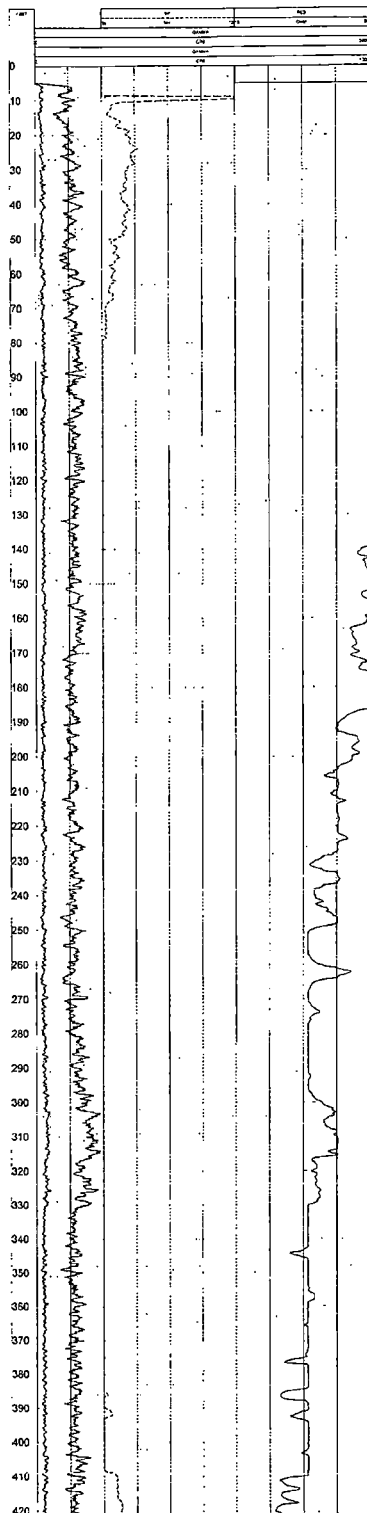


LOG M-1039



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

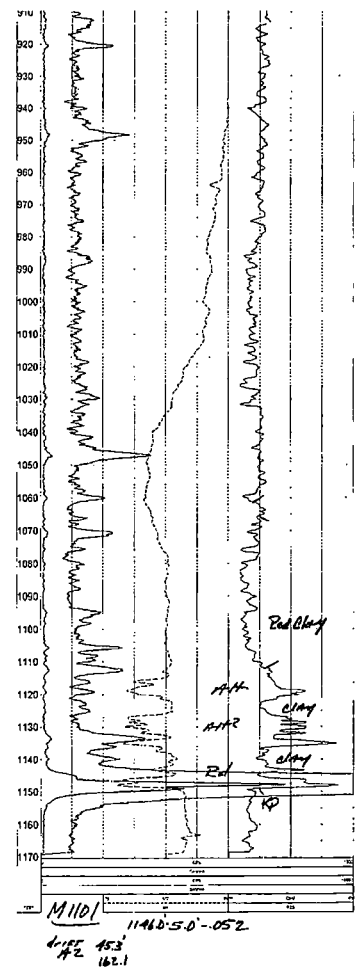
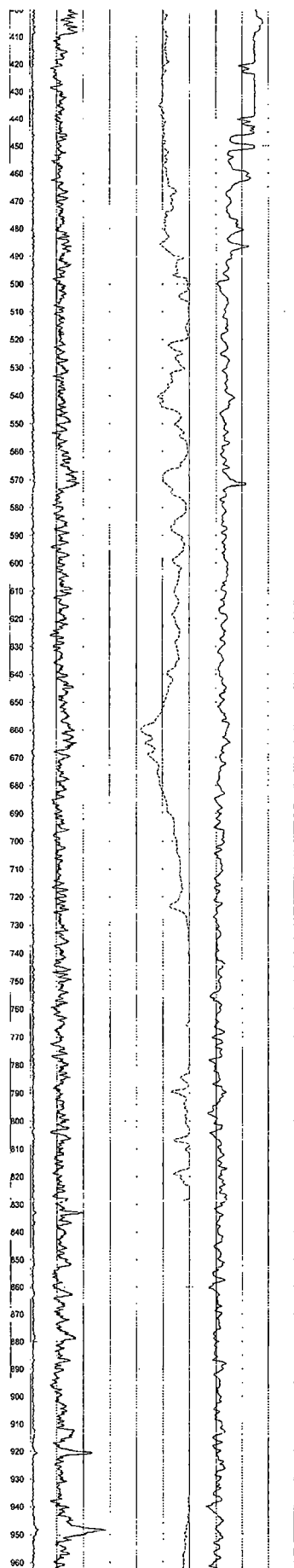
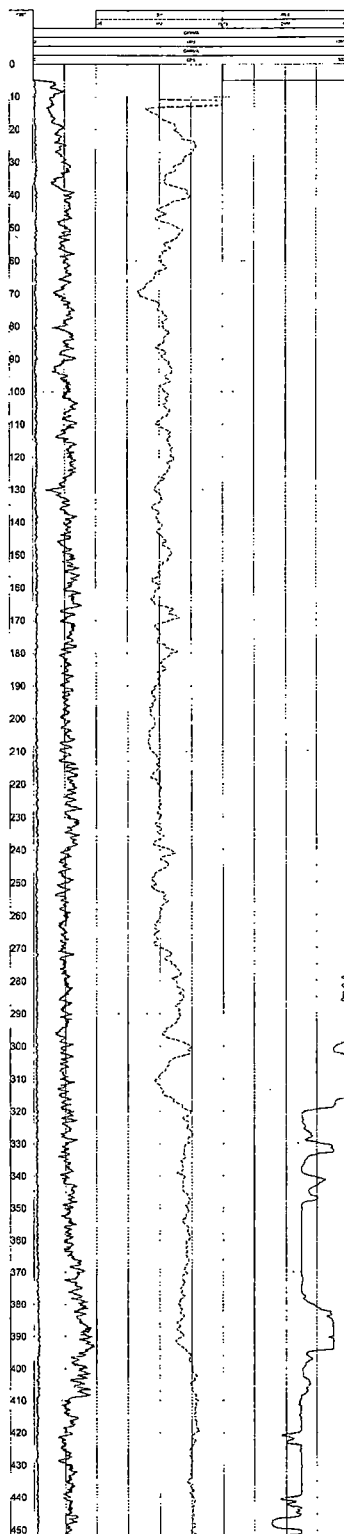
 CROW BUTTE RESOURCES, INC.	
M-1071 2600 - 4850	
COMPANY: M-1071 DATE: 01/01/01 LOCATION: 2600 PROJECT: 2600 CLIENT: 2600 DRAWN BY: 2600 CHECKED BY: 2600 APPROVED BY: 2600	PROJECT NO: 2600 SCALE: 1" = 100' SHEET NO: 2600 TOTAL SHEETS: 2600 DATE: 01/01/01 DRAWN BY: 2600 CHECKED BY: 2600 APPROVED BY: 2600

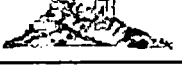


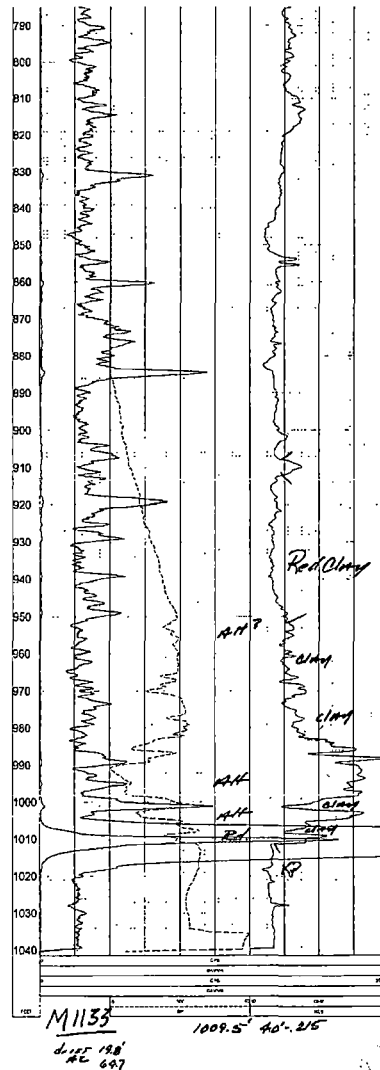
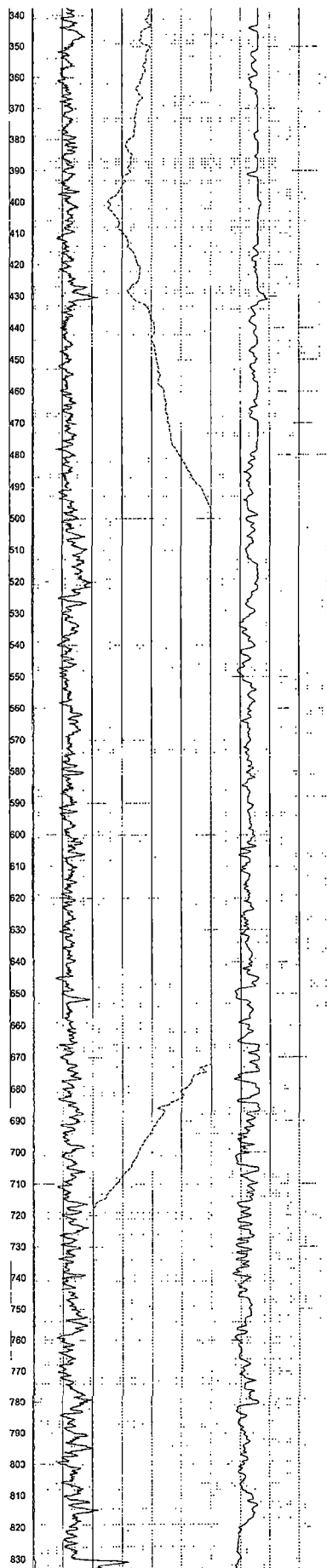
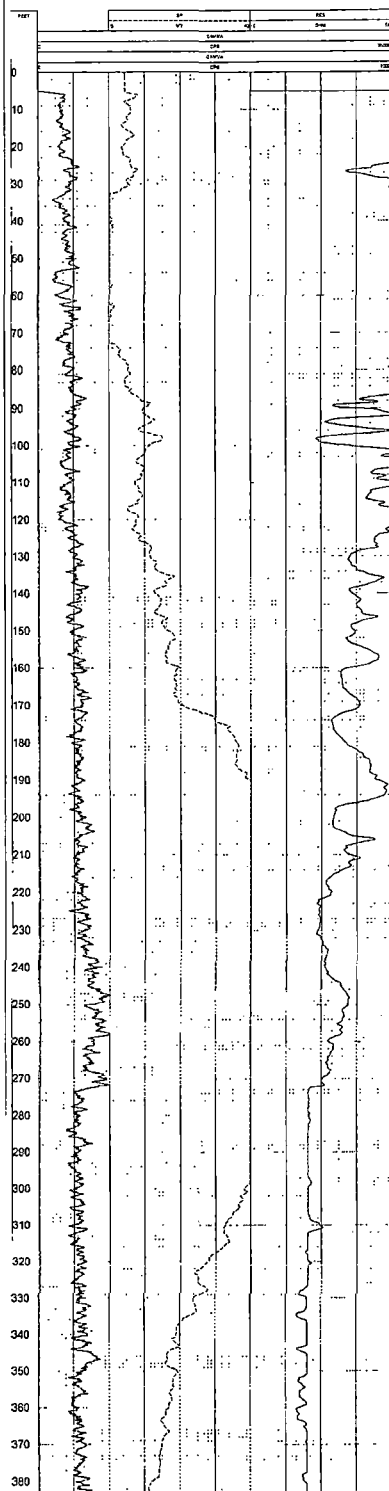
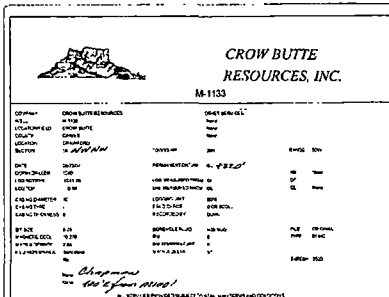
 CROW BUTTE RESOURCES, INC.
LOG M-1071
 ARCADIS

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-1101	
4900 - 130 4900 130	4900 130
Date: 03/09/2012 Time: 10:00 AM Location: 4900 - 130 Operator: J.Chen Recorder: J.Chen Notes:	Date: 03/09/2012 Time: 10:00 AM Location: 4900 - 130 Operator: J.Chen Recorder: J.Chen Notes:



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



LOG M-1133

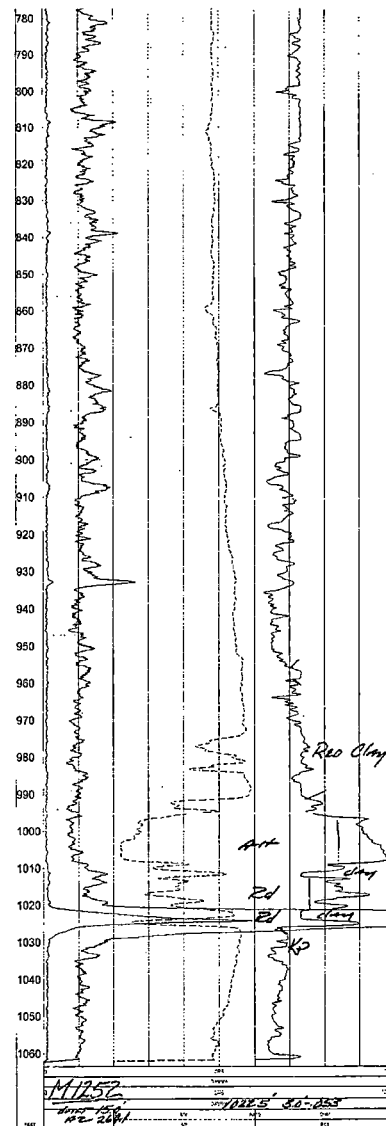
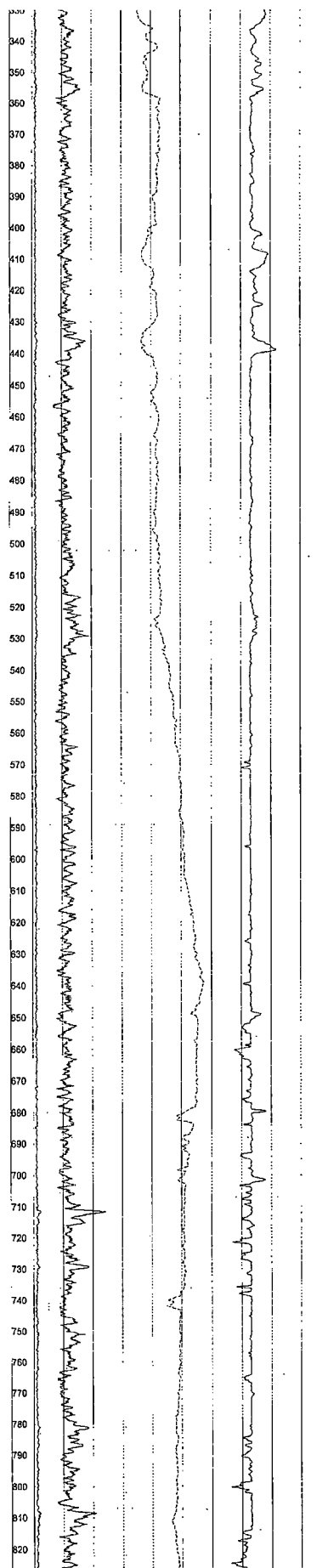
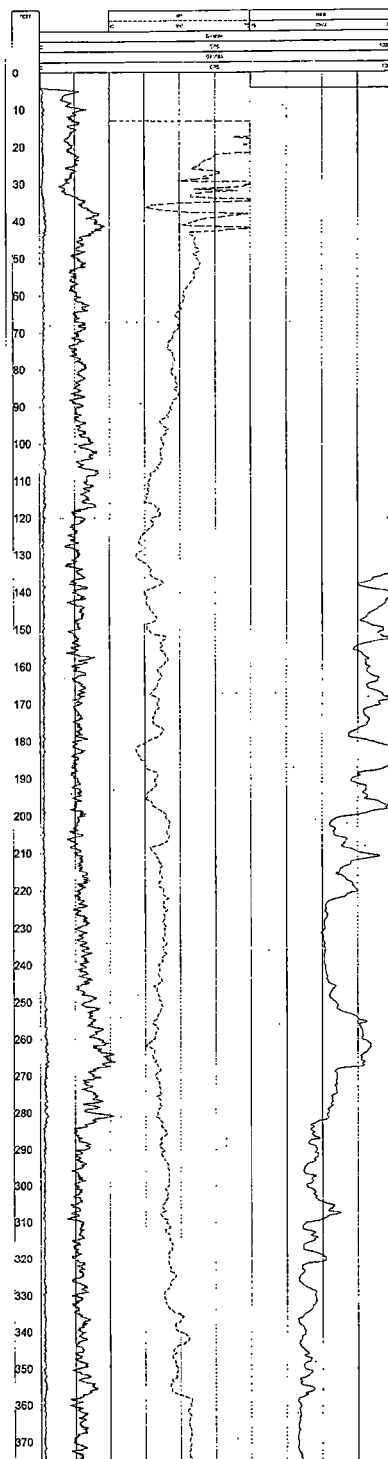


CROW BUTTE RESOURCES, INC.

M-1252

Client:	BOULDER COUNTY	Project:	BOULDER COUNTY
Address:	1000	City:	BOULDER
State:	CO	Zip:	80501
Phone:	303.440.1234	Fax:	303.440.1234
E-mail:	info@crowbutte.com	Website:	www.crowbutte.com
Project Manager:	J. Chen	Field Engineer:	J. Chen
Surveyor:	J. Chen	Logger:	J. Chen
Drawn By:	J. Chen	Checked By:	J. Chen
Date:	09/09/2012	Scale:	1" = 100'

Handwritten: 200 ft

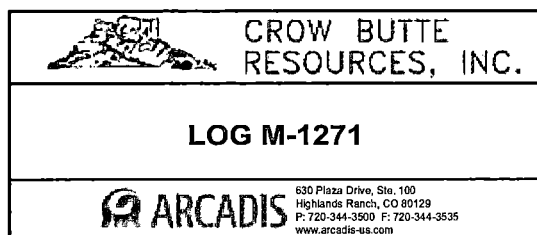
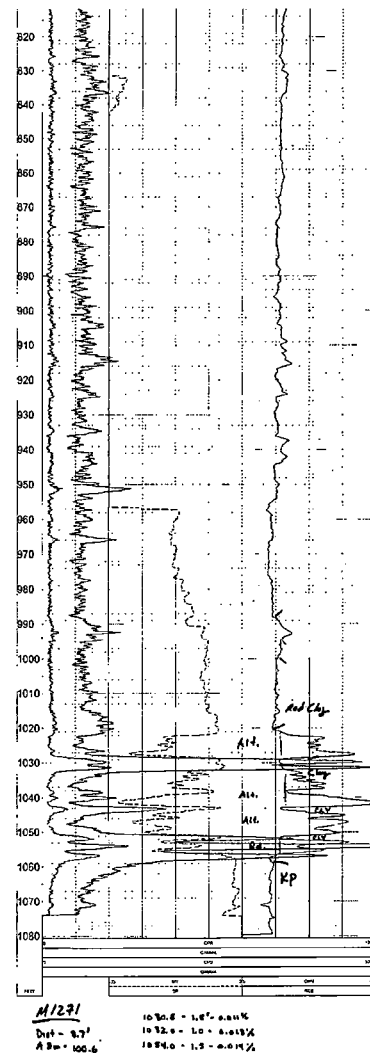
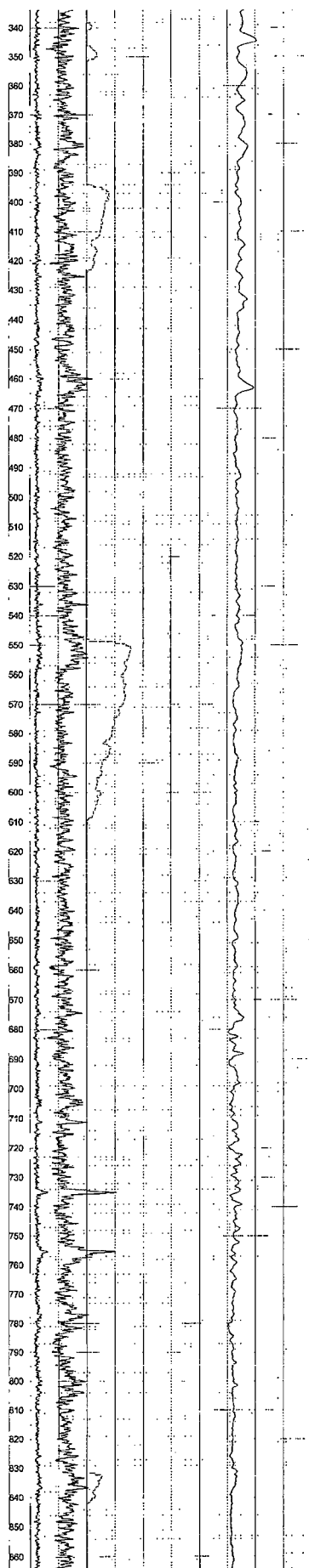
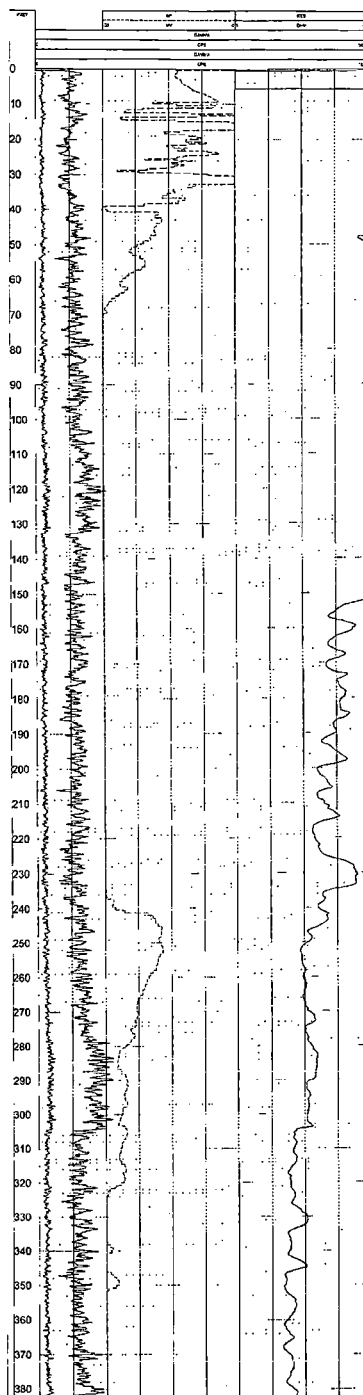


CROW BUTTE RESOURCES, INC.

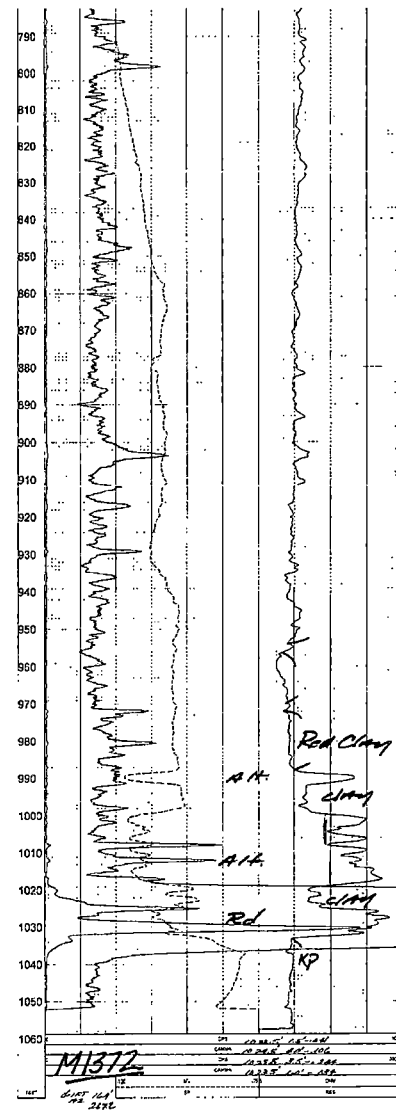
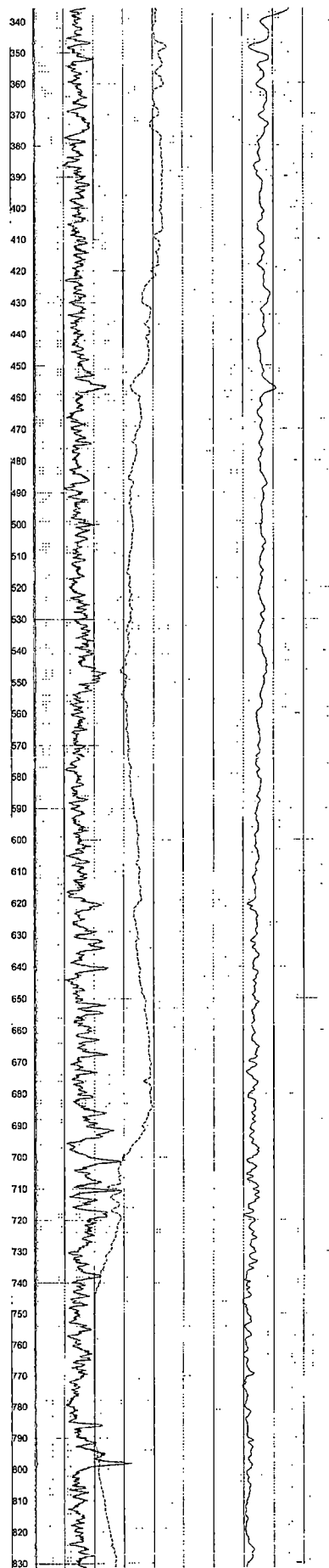
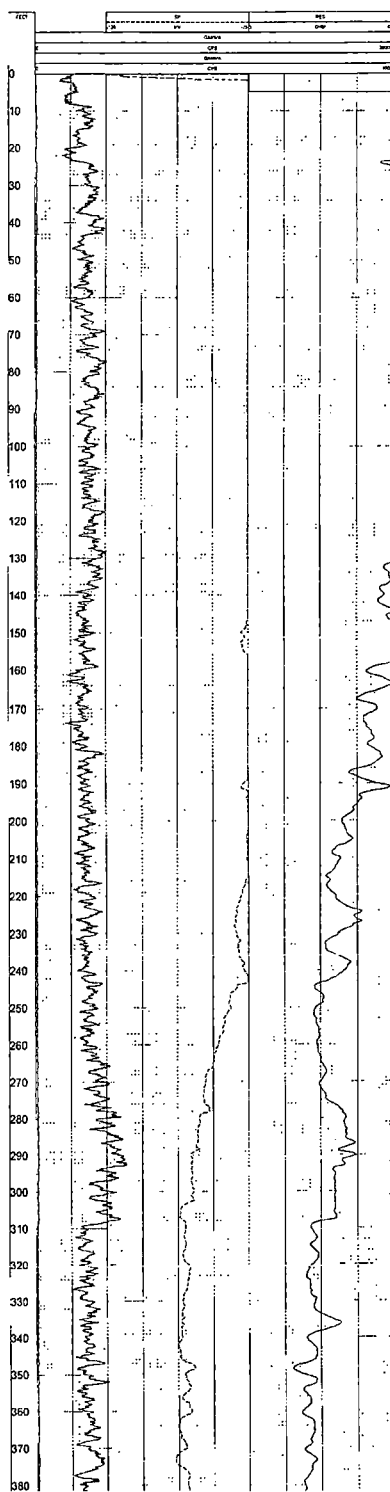
LOG M-1252



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-1372			
Client:	CHRYSLER FORD CREDIT	Contract:	
Job:	1000	Location:	
Job No.:	1000	Job Title:	
Job Date:	10/10/00	Job Status:	
Job Type:	1000	Job Price:	1000
Job Description:	1000		
Job Notes:	1000		
Job Comments:	1000		
Job History:	1000		
Job Details:	1000		
Job Summary:	1000		
Job Footer:	1000		

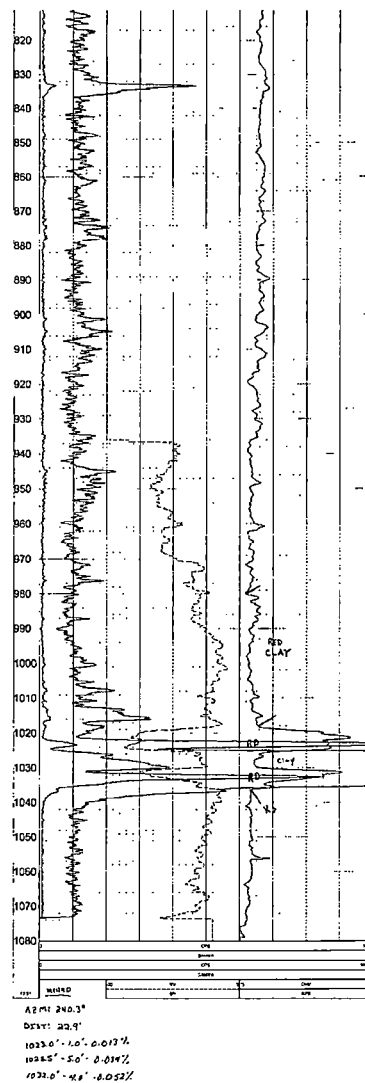
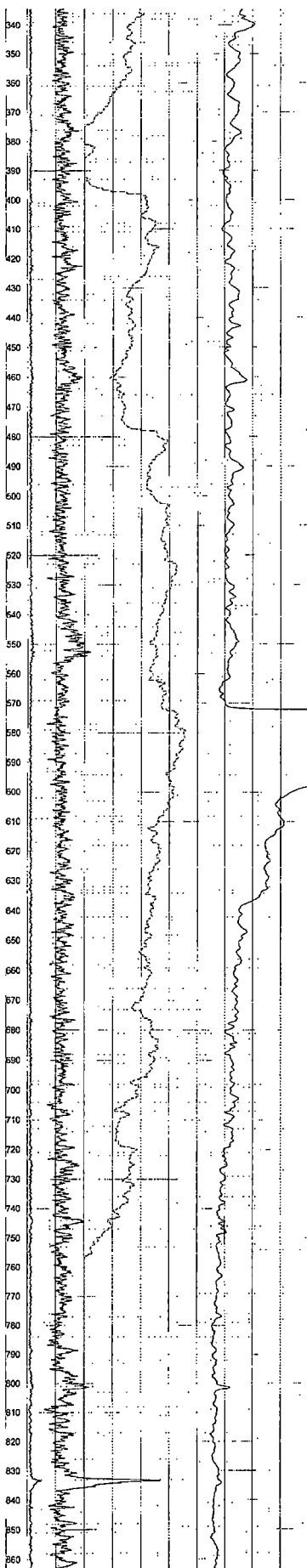
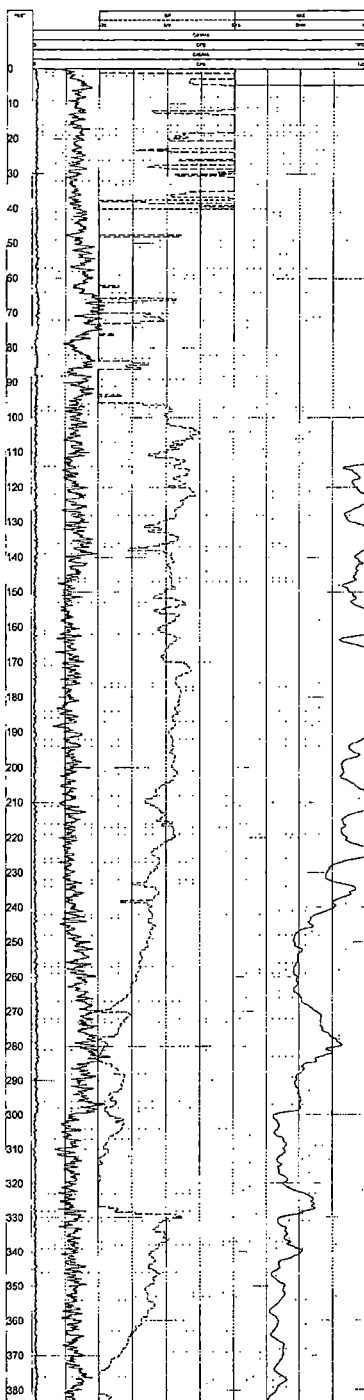


CROW BUTTE
RESOURCES, INC.

LOG M-1372



630 Plaza Drive, Ste. 400
Highlands Ranch, CO 80129
P: 720-344-3500 F: 720-344-3535
www.arcadis-us.com

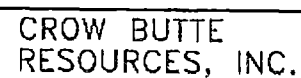
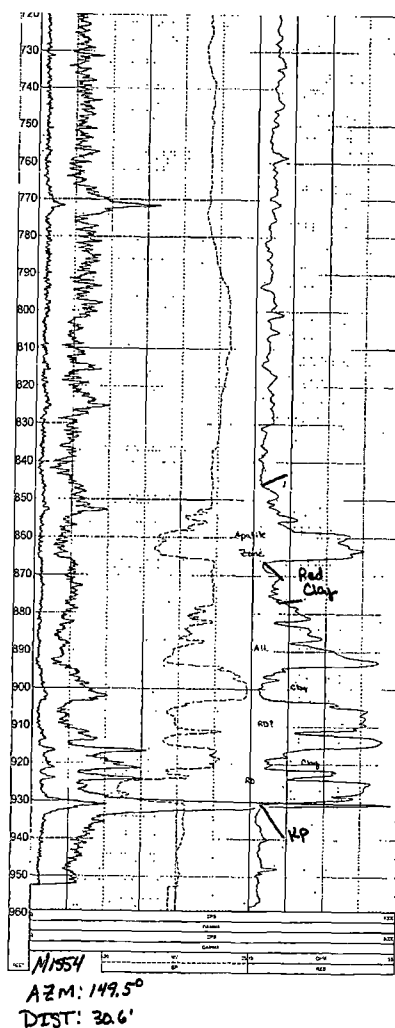
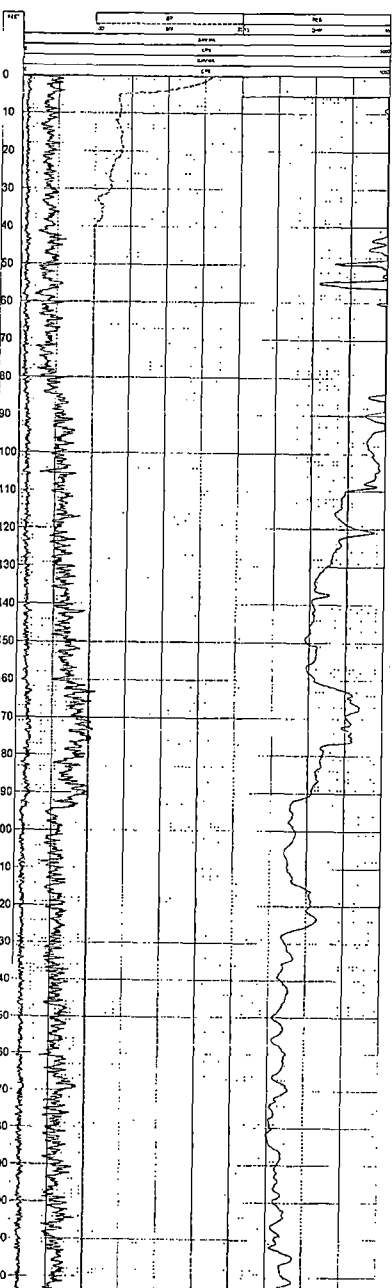


CROW BUTTE
RESOURCES, INC.

LOG M-1440



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



ARCADIS

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

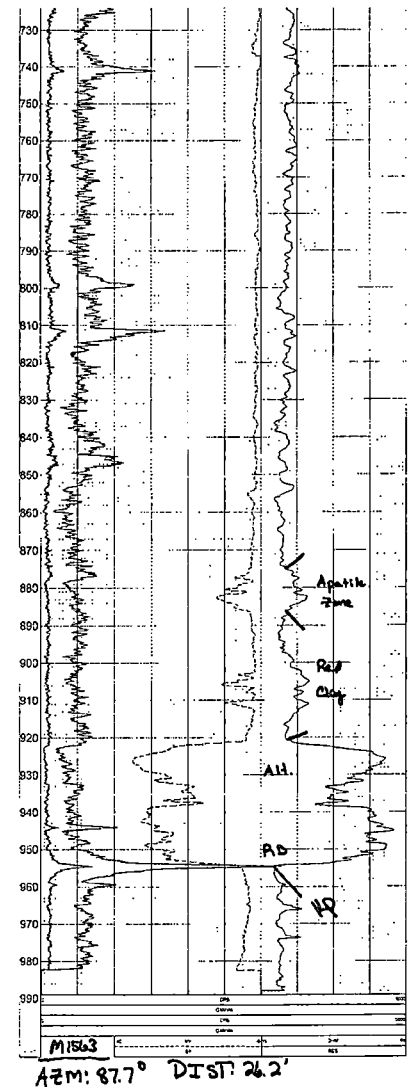
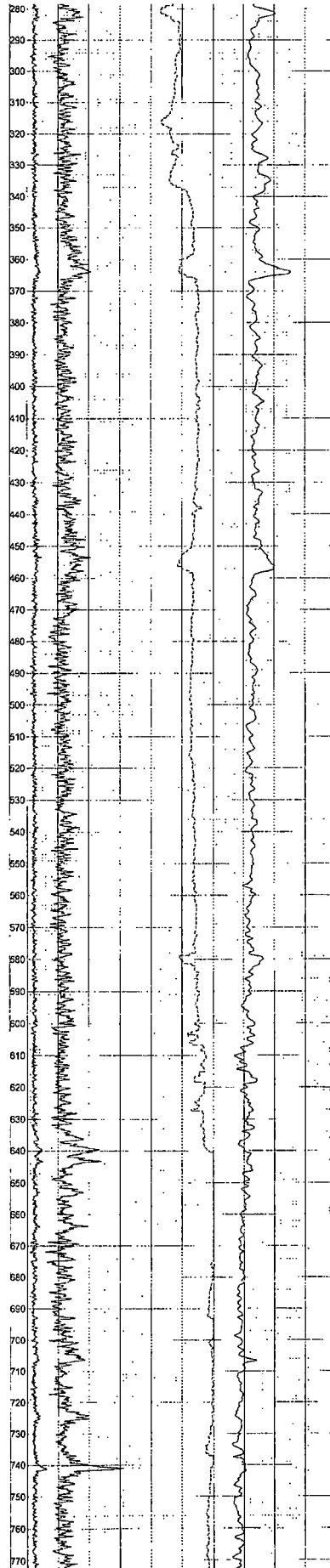
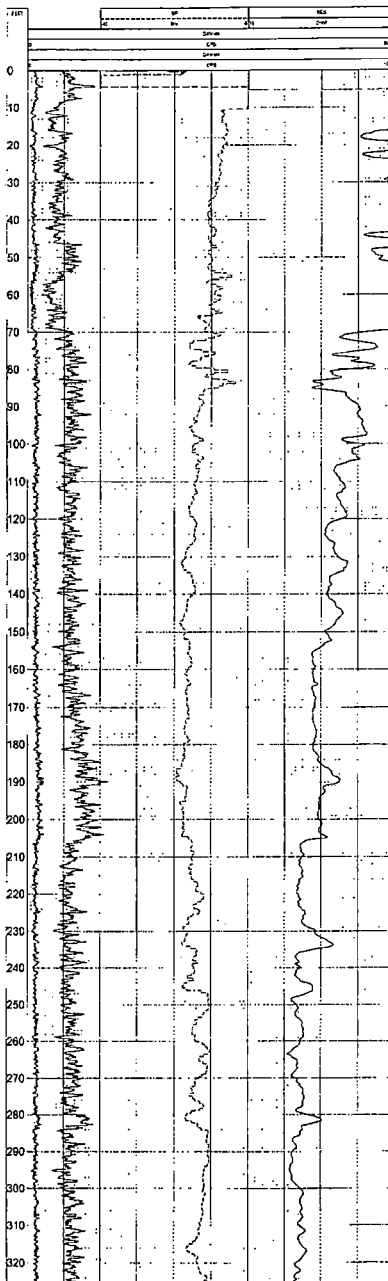


**CROW BUTTE
RESOURCES, INC.**

M-1563

Client:	CH2M HILL	Project:	CH2M HILL
Location:	CH2M HILL	Location:	CH2M HILL
Well:	CH2M HILL	Well:	CH2M HILL
Core:	CH2M HILL	Core:	CH2M HILL
Core Length:	CH2M HILL	Core Length:	CH2M HILL
Core Date:	CH2M HILL	Core Date:	CH2M HILL
Core Depth:	CH2M HILL	Core Depth:	CH2M HILL
Core Type:	CH2M HILL	Core Type:	CH2M HILL
Core Material:	CH2M HILL	Core Material:	CH2M HILL
Core Condition:	CH2M HILL	Core Condition:	CH2M HILL
Core Notes:	CH2M HILL	Core Notes:	CH2M HILL

Forman ~ 400' N from 1650-5175

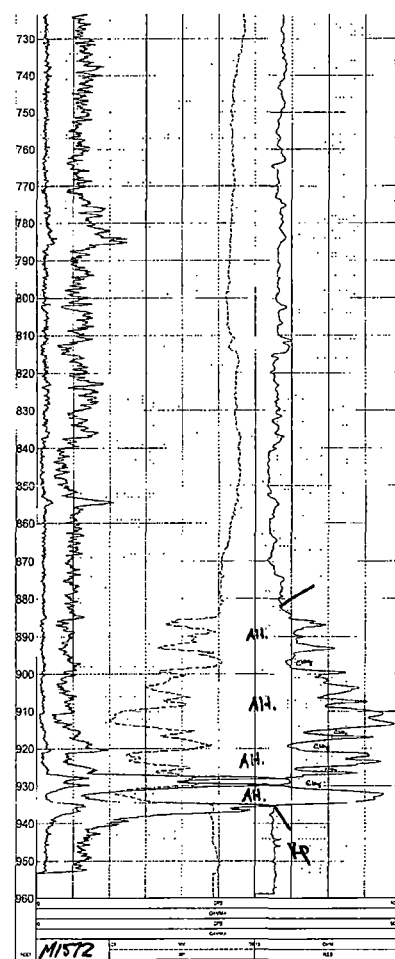
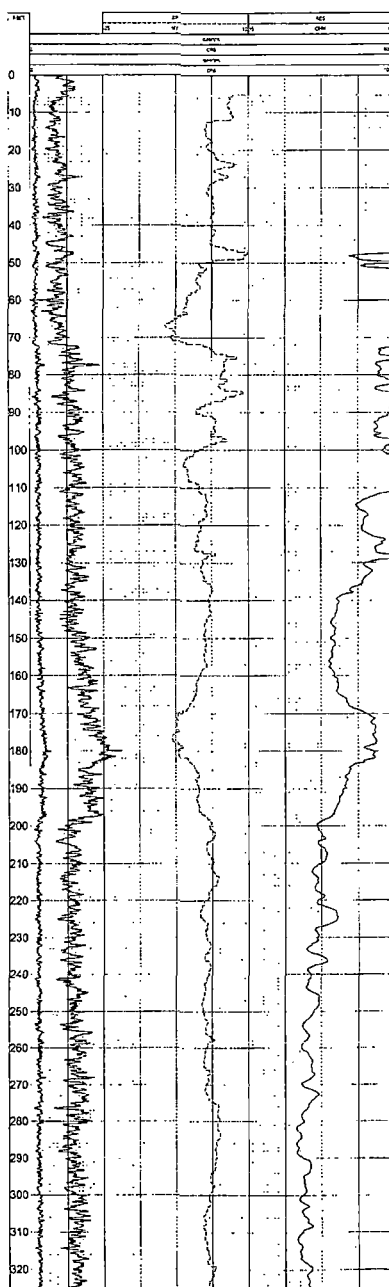


**CROW BUTTE
RESOURCES, INC.**

LOG M-1563



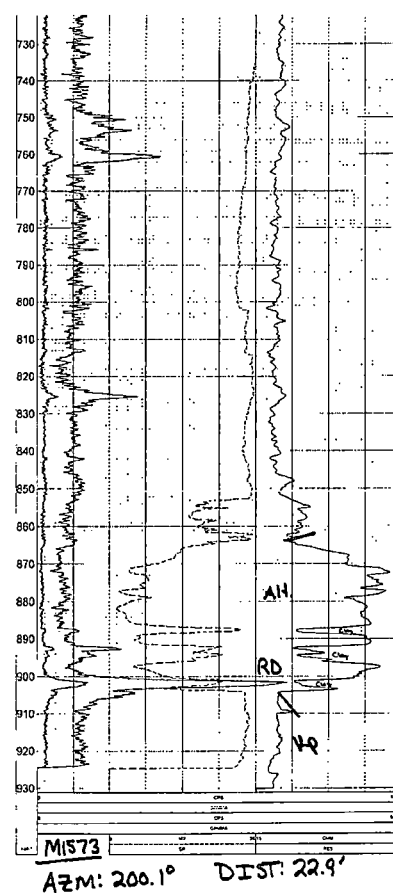
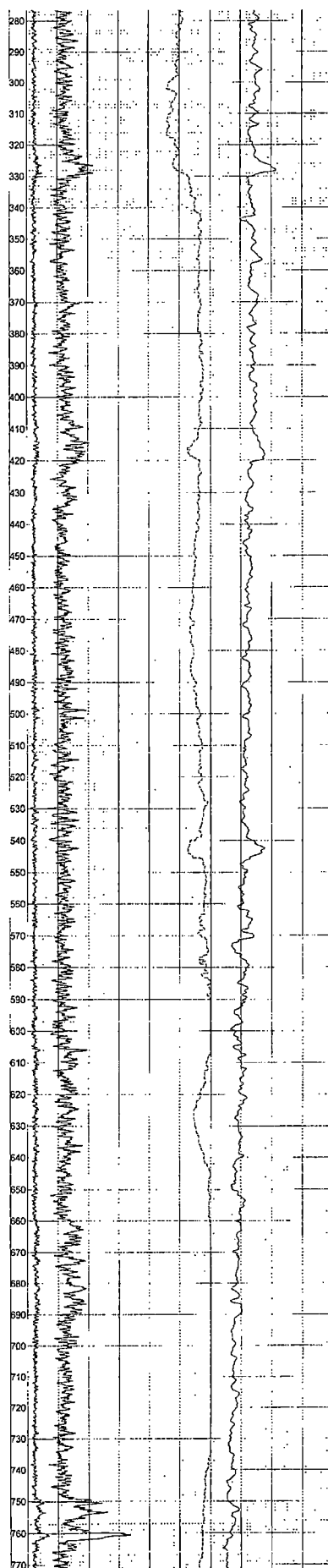
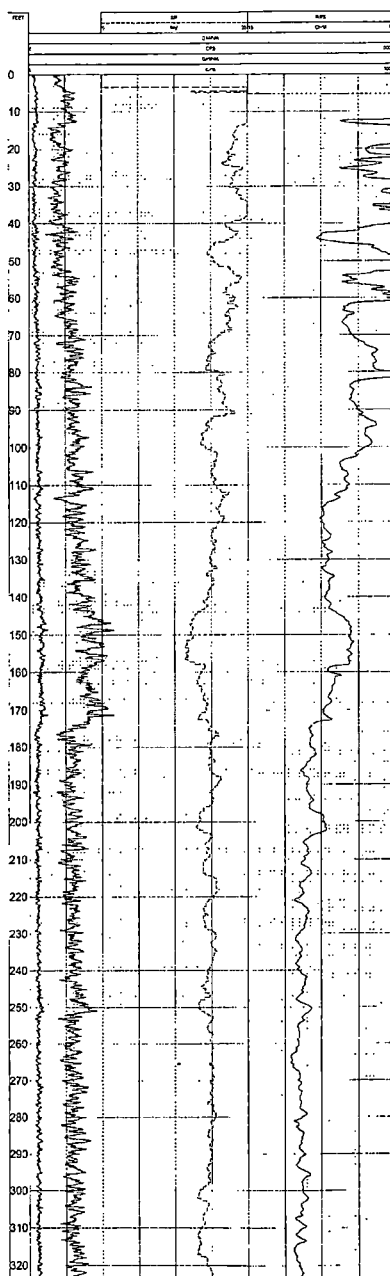
630 Plaza Drive, Ste. 100
Highlands Ranch, CO 80129
P: 720-344-3500 F: 720-344-3535
www.arcadis-us.com



AZM: 45.6°
DIST: 7.2'

 **ARCADIS**

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



 **CROW BUTTE
RESOURCES, INC.**

LOG M-1573

 **ARCADIS**

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

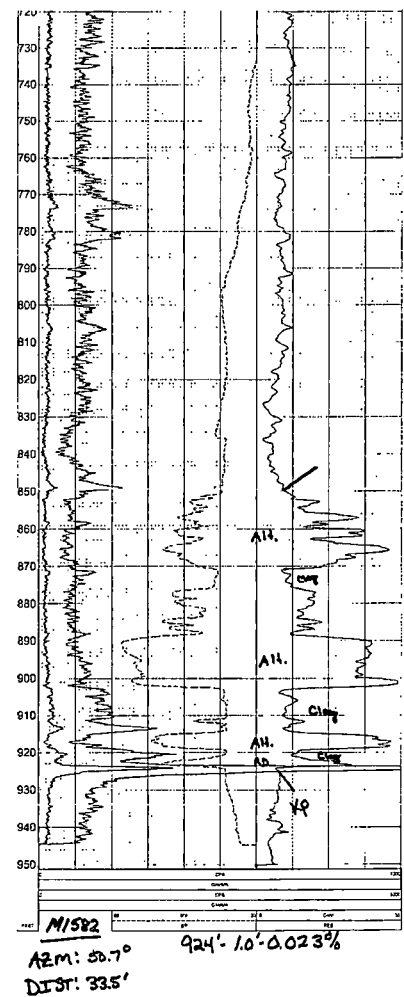
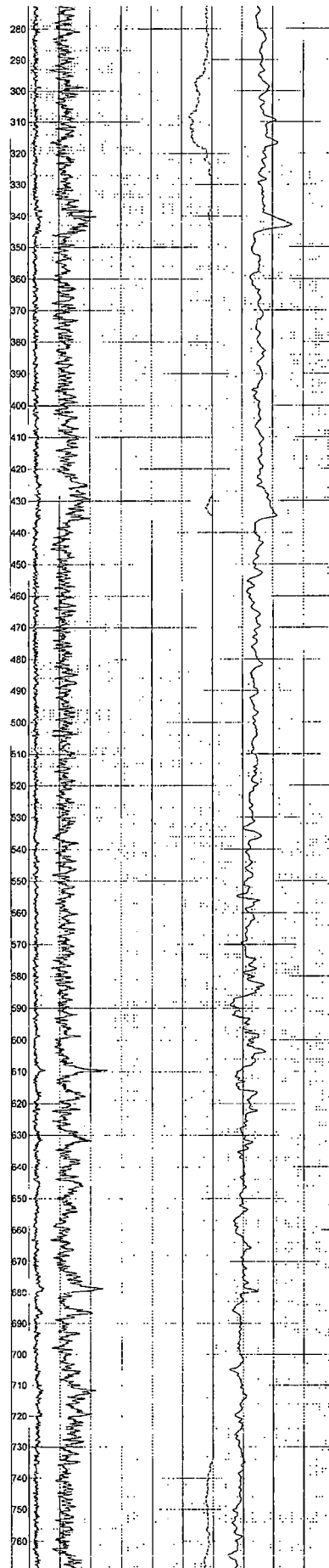
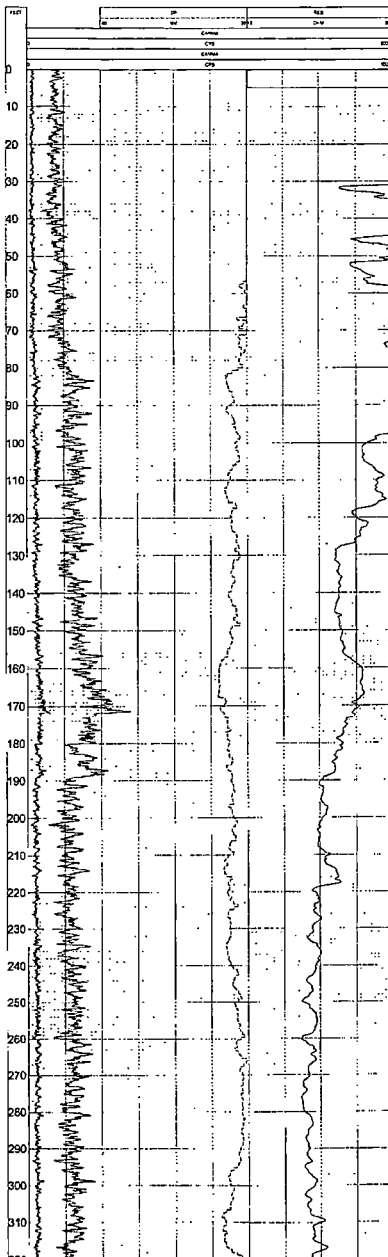


**CROW BUTTE
RESOURCES, INC.**

M-1582

Company	CROW BUTTE	Project	FORMAN
Address	1000 N. 100th St.	City	Eden Prairie, MN
State	Minnesota	County	Eden Prairie
Latitude	45.5000	Longitude	-93.4500
Altitude	1000	UTM Zone	18QUD
Client	FORMAN	Contract	FORMAN
Survey	1000	Scale	1:1000
Station	1000	Section	1000
Depth	1000	Time	1000
Temperature	1000	Pressure	1000
Humidity	1000	Wind	1000
Clouds	1000	Visibility	1000
Soil	1000	Vegetation	1000
Water	1000	Geology	1000
Topography	1000	Land Use	1000
Infrastructure	1000	Other	1000

FORMAN ~ 200' S FROM MISS

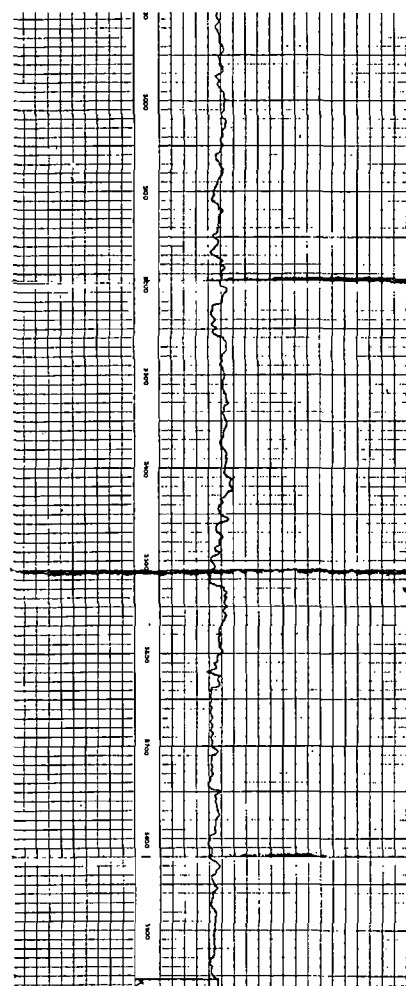
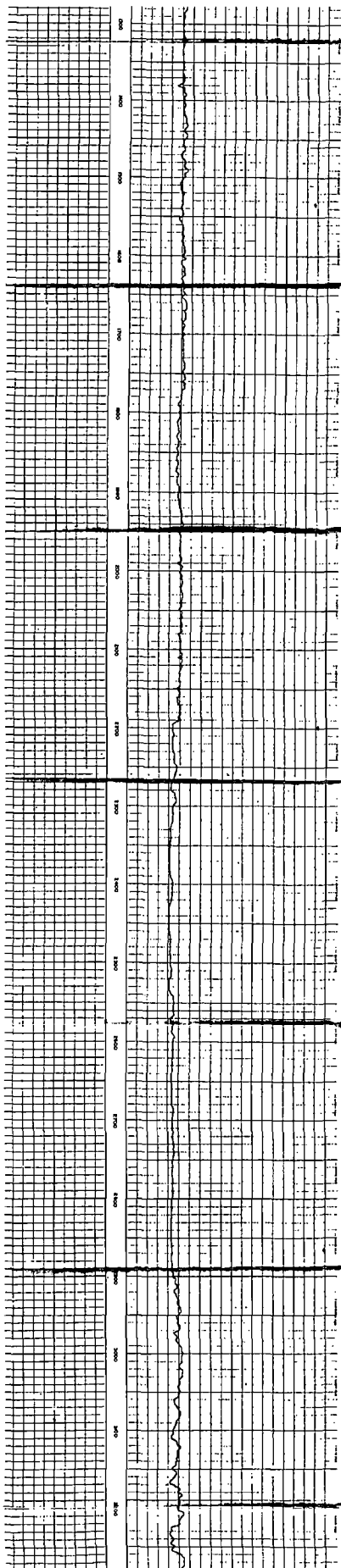
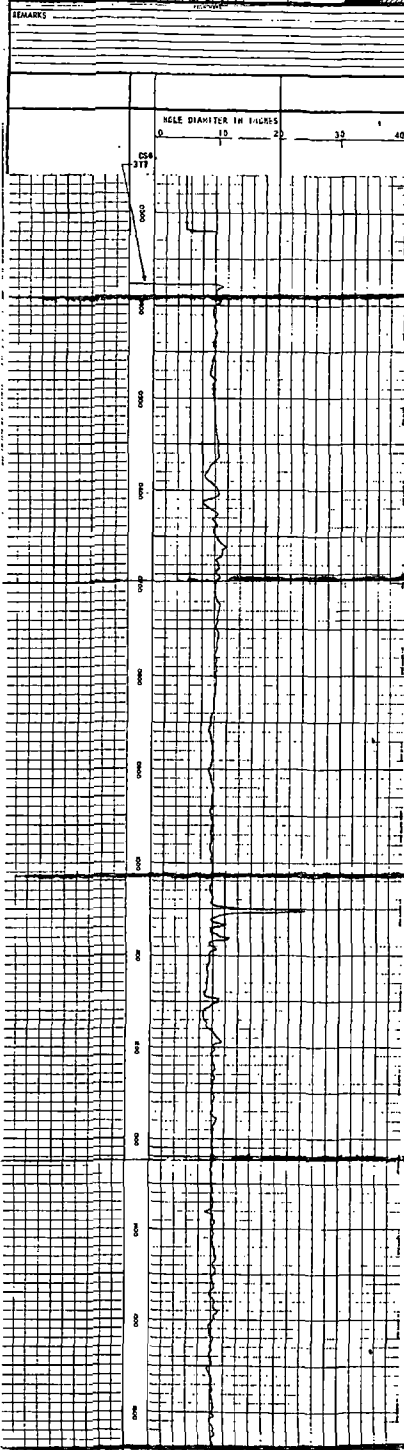


**CROW BUTTE
RESOURCES, INC.**

LOG M-1582



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



GULF OIL CORP.
RESOUE TOTAL # 1
23-30W-61 W
DAMES CO. NEBRASKA
ELEV. 4464 T.B.



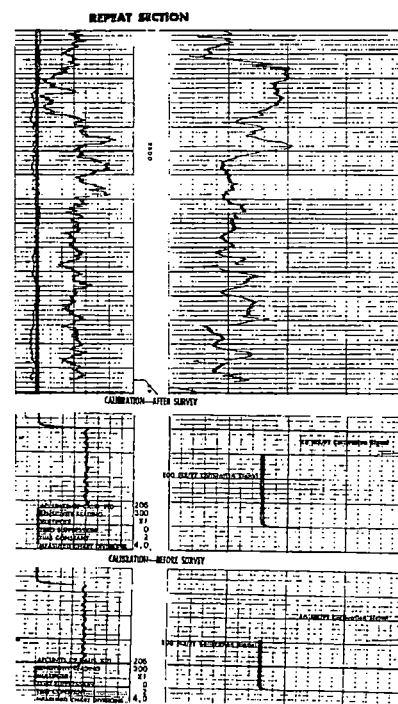
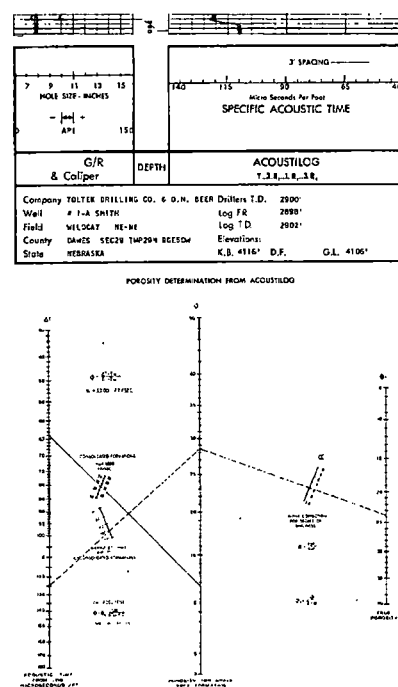
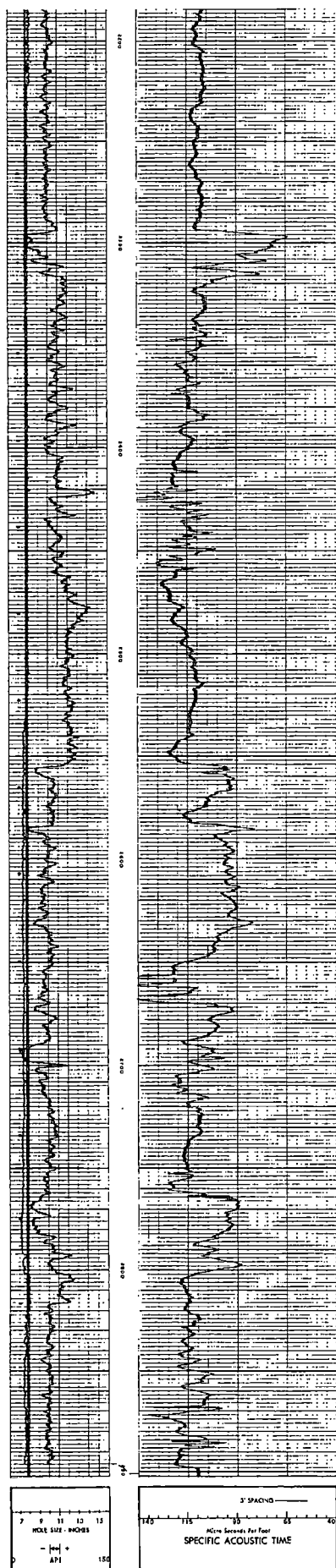
CROW BUTTE
RESOURCES, INC.

ROYAL LOG



ARCADIS

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

[illegible]

 **CROW BUTTE
RESOURCES, INC.**

SMITH 1A LOG

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

Appendix D

Well Plugging and Abandonment Records

D-1

Oil and Gas Plugging Records

Chicoine 1 Oil and Gas Well Plugging Record

Nebraska Oil and Gas Conservation Commission
Form 6

PLUGGING RECORD						
Instructions: Within thirty days following the plugging of a dry hole, or the abandonment of a producing well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. Fill out form as completely as possible.						
Operator Petronomics, Inc.						
Address 3603 Westcenter Drive, Houston, Texas 77042						
Well Number 1	Lease Name Vernon P. Chicoine	Field and reservoir (If wildcat, so state) Niobrara				
Location NW/4 NW/4 Sec. 30 Twp. 30N Range 50W						
County Dawes						
Footage Location ft. from (N) (S) line, ft. from (E) (W) line of $\frac{1}{4}$						
Spud Date 10-28-81	Date reached T.D. 10-31-81	Date Plugged 11-1-81	Total Depth 2641	P. B. T. D.		
Elevation 4455		Reference (Indicate) (X) (GL) (DR)				
Producing rate on initial completion			Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)	
Producing rate at time of abandonment			Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)	
Application to drill this well was filed in name of: Petronomics, Inc.						
CONDITION OF HOLE						
Name each formation containing oil or gas. Indicate which formations open to well bore at time of plugging.		Fluid Content	Depth Interval	Size, kind and depth of plugs used. Indicate zones squeeze cemented giving amount of cement.		
Niobrara		water	2130'	Cement Plug 1900 - 2100'		
			484	Cement Plug 450 - 500'		
				Cement Plug 5 - 50'		
Size, kind and depth of any additional plugs						
CASING RECORD						
Size casing in O. D.	Weight lbs./ft.	Setting Depth	Sacks Cement	Amount Recovered	Amount left in well	Method of parting (shot, flopped, etc.)
8 5/8	24	484	500		484	
Was hole filled with mud-laden fluid? yes						
If this well was plugged back for use as a fresh water well, give pertinent details of plugging operations to base of fresh water sand. Attach letter from surface owner authorizing completion of this well as a fresh water well and agreeing to assume full liability for subsequent plugging which may be required.						
I/We hereby swear or affirm that the statements made are true, complete and correct.						
NO CORES NO TESTS NO LOGS LOST HOLE		RECEIVED MAR 22 1982 NEBRASKA OIL & GAS CONS. COMMISSION				
(If new log on well)		Vice Pres.				
		March 18, 1982				
		Date				

Chicoine 1-A Oil and Gas Well Plugging Record

Nebraska Oil and Gas Conservation Commission
Form 6

PLUGGING RECORD						
Instructions: Within thirty days following the plugging of a dry hole, or the abandonment of a producing well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. Fill out form as completely as possible.						
Operator PETRONOMICS, Inc.						
Address 630 N. Federal Highway, Suite 402, North Palm Beach FL 33408						
Well Number 1-A	Lease Name Chicoine		Field and reservoir (If wildcat, so state) Wildcat			
Location SW/NW		Sec. 30	Twp. 30N	Range 50W	County Dawes	
Footage Location 1820 ft. from (N) 00 line, 660 ft. from (W) line of Sec. 30 T30N 1/4 R50W						
Spud Date 11-3-81	Date reached T.D. 11-7-81	Date Plugged 8-9-82	Total Depth 3069		P. B. T. D.	
Elevation 4490 (KB) MINNEX		Producing rate on initial completion				
		Oil (bbls/day)		Gas (MCF/day)		Water (bbls/day)
Application to drill this well was filed in name of: Petronomics, Inc.		Producing rate at time of abandonment				
		Oil (bbls/day)		Gas (MCF/day)		Water (bbls/day)
CONDITION OF HOLE						
Name each formation containing oil or gas. Indicate which formations open to well bore at time of plugging.		Fluid Content	Depth Interval	Size, kind and depth of plugs used. Indicate zones squeeze cemented giving amount of cement.		
				20 sack cement plug		
				0-30 feet and		
				470-500 feet		
Size, kind and depth of any additional plugs						
CASING RECORD						
Size casing in O.D.	Weight lbs./ft.	Setting Depth	Sacks Cement	Amount Recovered	Amount left in well	Method of parting (shot, ripped, etc.)
4 1/2"	10.5	2633	175	1175	1458	shot
Was hole filled with mud-laden fluid? Yes						
If this well was plugged back for use as a fresh water well, give pertinent details of plugging operations to base of fresh water sand. Attach letter from surface owner authorizing completion of this well as a fresh water well and agreeing to assume full liability for subsequent plugging which may be required.						
I/We hereby swear or affirm that the statements herein made are complete and correct.						
(If new dry hole, complete well log on reverse side of form)			RECEIVED AUG 26 1982 NEBRASKA OIL & GAS CONS. COMMISSION			
			A.B. McClelland President			
			8-23-82			
Title 8-23-82						
Date						

Hollibaugh 1 Oil and Gas Well Plugging Record

Nebraska Oil and Gas Conservation Commission
Form 6

PLUGGING RECORD

Instructions: Within thirty days following the plugging of a dry hole, or the abandonment of a producing well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. Fill out form as completely as possible.

Operator

GABLE DRILLING CO., INC. --- Joe Josephson & V. E. Autry

Address

508 Patterson Bldg., Denver, Colo. 80202

Well Number

1

Lease Name

Hollibaugh

Field and reservoir (if wildcat, so state)

Wildcat

Location

NE NE

Sec. 12

Twp. 29 N

Range 51 W

County

Dawes

Footage Location

660

ft. from (N) line,

660

ft. from (E) line of

Northeast

1/4 section

Spud Date

1-13-69

Date reached T.D.

1-17-69

Date Plugged

1-18-69

Total Depth

3295 dlr. 3283log

P. B. T. D.

NA

Elevation

4244 KB

Reference (indicate)

(KB) (GL) (DF)

4236 GL

Producing rate on initial completion

Oil (bbls/day)

NA

Gas (MCF/day)

NA

Water (bbls/day)

NA

Application to drill this well was filed in name of:

Producing rate at time of abandonment

Oil (bbls/day)

NA

Gas (MCF/day)

NA

Water (bbls/day)

NA

CONDITION OF HOLE

Name each formation containing oil or gas. Indicate which formations open to well bore at time of plugging.

Fluid Content

Depth Interval

Size, kind and depth of plugs used. Indicate zones squeezed cemented giving amount of cement.

Muddy - J, Zone 3

Water

2810-2930

#1 35 sacks cement

Tertiary sands & gravels

Water

280-310

#2 10 sacks cement

Top plug omitted at landowner's request for his conversion into a domestic water well.

Size, kind and depth of any additional plugs

Heavy drilling mud between cement plugs.

CASING RECORD

Size casing in O. D.	Weight lbs./ft.	Setting Depth	Amount Recovered	Amount left in well	Method of parting (shot, ripped, etc.)
8 5/8	24#	216' KB	none	208'	NA

Was hole filled with mud-laden fluid?

Niobrara Shale
Codell sandstone
Greenhorn limestone
Bentonite Marker
Muddy J Zone 1
Zone 2
Zone 3
Zone 4
Cheyenne sandstone

1913
2224
2465
2595
2731
2771
2848
2927
3132

On water well, give pertinent details of plugging operations to base of fresh water sand. Attach letter from surface fresh water well and agreeing to assume full liability for subsequent plugging which may be required.

statements herein made are complete and correct.

MAR 31 1969

Nebraska Oil and Gas Conservation Commission

Robert L. Kramer

Geologist

Signature

Title

March 28, 1969

Date

No cores or tests.

Porter 1 Oil and Gas Well Plugging Record

AUG 2 1956

NO LOGS RUN

PLUGGING AFFIDAVIT—STATE OF NEBRASKA

INSTRUCTIONS: Fill in completely as possible one copy and mail to Nebraska Geological Survey, Nebraska Hall, University of Nebraska, Lincoln, Nebraska within 15 days after plugging (Revised Statutes of Nebraska, 1943, sections 37-213 to 37-217, amended by Legislative Bill 433, 62nd Session, Legislature of Nebraska.) Underline applicable words or letters, cross out those not applicable.

Lease Name PORTER Well No. 1

Legal Description Location (Example: C N/2-NE/4-NE/4):

0 SE/4SE/4Sec. 20, Twp. 30N No. 31W 0SE(W); County DAWES
660 Ft. 0SE (W) of 0SE (E) line; 660 Ft. (N) 0SE of 0SE (S) line of SE/4

Operating Company Tom Potter

Complete Mailing Address 1032 Life of America Bldg., Dallas, Texas

Contractor Potter Drilling Co.

Complete Mailing Address 1032 Life of America Bldg., Dallas, Texas

Drilled with (cable) (rotary) tools. Spudding date 2/23/56; completion date 3/29/56; plugging date 3/28/56

Surface Pipe Data: Casing (new) 0SE Size 10-3/4" in. Weight 32.75 lbs.

Amount Set 250 ft.; Cement used 130 sac; kind Regular

Surface Hole Data: Size of hole 13-3/4 in.; Depth of hole 262 1/2 ft.

Total Depth of hole 3779 ft. (Attach electric log - None Made) Elevation ground

Nature of Wells (wildcat) 0SE derrick floor
Kelley bushing

Reason for Abandonment Fishing Job and Dry

Casing record other than surface pipe (indicate amount, size and weight of each string run, how set or cemented, whether pulled or left in hole and where cut if partially pulled)

Plugging Record (state in detail each step in plugging procedure)

Left 385' of pipe in hole
Put 50 sacks of cement at 3394'
Put 20 sacks of cement at 2550'
Put 15 sacks of cement at 262'
Put 5 sacks of cement at surface pipe

Plugging Procedure Approved by Date March 29, 1956
(Insert "blanket approval" in case of fields or areas where standard plugging procedure has been approved by the Nebraska Geological Survey)

Name of Witness to Plugging Bill Painter

Address Chadron, Nebraska

AFFIDAVIT

I, Tom Potter of the Potter Drilling Company
Company, being first duly sworn on oath, state: That I have knowledge of the facts, statements and matters herein contained and that the same are true and correct.

Tom Potter

In Witness whereof I hereinbefore set my hand and affix my official seal this 31st day of

July 19 56

My commission Expires: 6/1/57

Lawrence S. Miller
Notary Public
Dallas County, Texas

No Log Available

Royal 1 Oil and Gas Well Plugging Record

PLUGGING AFFIDAVIT—STATE OF NEBRASKA

INSTRUCTIONS: Fill in as completely as possible one copy and mail to Nebraska Geological Survey, Nebraska Hall, University of Nebraska, Lincoln, Nebraska within 18 days after plugging (Revised Statutes of Nebraska, 1943, sections 87-313 to 87-317, amended by Legislative Bill 433, 62nd Session, Legislature of Nebraska.) Underline applicable words or letters, cross out those not applicable.

Lease Name Roscoe Royal

Well No. 1

Legal Description Location (Example: C N/3-NE/4-NE/4):

C SW SW Sec. 23, Twp. 30 No., Rgn. 51 (E) (W); County Dawes
860 Ft. (E) (W) of (W) (E) line; 960 Ft. (N) (S) of (S) (N) line of SW 1/4

Operating Company Gulf Oil Corporation

Office Address 134 E. Midwest Ave., Casper, Wyoming

Contractor Dunbar Drilling Company

Office Address Denver, Colorado

Drilled with ~~(rotary)~~ (rotary) tools. Spudding date 12-15-52; completion date 1-23-53

Surface Pipe Data: Casing (new) ~~(used)~~ Size 10-3/4 in. Weight 32.75 lbs.

Amount Set 377 ft.; Cement used 250 sacks; kind Ash Grove Reg. Portland

Surface Hole Data: Size of hole 13-3/4 in.; Depth of hole 109 ft.

Total Depth of Hole 3956 ft. (Attach electric log or driller's log) Elevation: 4465' ground

Nature of Well: (wildcat) (field well offset) (abandoned producer) 4465' derrick floor
4469' Kelly bushing

Reason for Abandonment Dry Hole

Casing record other than surface pipe (indicate amount, size and weight of each string run, how set or cemented, whether pulled or left in hole and where cut if partially pulled) none

Plugging Record (state in detail each step in plugging procedure) Filled hole with heavy mud from total depth to 400', placed 40 sacks cement plug from 400' to 320', heavy mud from 320' to 22', 10 sacks cement plug from 22' to bottom of cellar.

Plugging Procedure Approved by E. C. Reed Date 1-22-53
(Insert "blanket approval" in case of fields or areas where standard plugging procedure has been approved by the Nebraska Geological Survey)

Name of Witness to Plugging F. H. Frederick

Address 740 South 15th St.
Horland, Wyoming

AFFIDAVIT

I, Lester LaFavour of the Gulf Oil Corporation Company, being first duly sworn on oath, state: That I have knowledge of the facts, statements and matters herein contained and that the same are true and correct.

Lester LaFavour

In Witness whereof I hereinbefore set my hand and affix my official seal this 26th day of

January, 1953

My commission Expires: Jan. 5 - 1957

Bill J. Parker
Notary Public

Smith 1-A Oil and Gas Well Plugging Record

Nebraska Oil and Gas Conservation Commission
Form 6

PLUGGING RECORD						
Instructions: Within thirty days following the plugging of a dry hole, or the abandonment of a producing well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. Fill out form as completely as possible.						
Operator Toltek Drilling Company & O.N. Beer						
Address 340 Denver Club Bldg., Denver, Colorado 80202						
Well Number 1-A	Lease Name Smith	Field and reservoir (If wildcat, so state) wildcat				
Location NE NE		Sec. 29	Twp. 29 N	Range 50 W	County Dawes	
Footage Location 640 ft. from (N) 1/4 line, 710 ft. from (E) 1/4 line of NE 1/4						
Spud Date 2-11-69	Date reached T.D. 2-14-69	Date Plugged 2-14-69	Total Depth 2901'	P. B. T. D.		
Elevation 4106'	Reference (indicate) 2020 (GL) 25M	Producing rate on initial completion				
		Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)		
Application to drill this well was filed in name of: Toltek Drilling Company		Producing rate at time of abandonment				
		Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)		
CONDITION OF HOLE						
Name each formation containing oil or gas. Indicate which formations open to well bore at time of plugging.		Fluid Content	Depth Interval	Size, kind and depth of plugs used. Indicate zones squeeze cemented giving amount of cement.		
Size, kind and depth of any additional plugs 10 sacks top of surface casing 15 sacks bottom of casing						
CASING RECORD						
Size casing in O. D.	Weight lbs./ft.	Setting Depth	Amount Recovered	Amount left in well	Method of parting (shot, flooded, etc.)	
Was hole filled with mud-laden fluid? Yes						
If this well was plugged back for use as a fresh water well, give pertinent details of plugging operations to base of fresh water sand. Attach letter from surface owner authorizing completion of this well as a fresh water well and agreeing to assume full liability for subsequent plugging which may be required.						
I/We hereby swear or affirm that the statements herein made are complete and correct.						
(If new dry hole, complete well log on reverse side of form)		<i>[Signature]</i> Signature Executive Vice President Title February 17, 1969 Date				

D-2

Water Well Abandonment Records

Well 863A (G071432) Notice of Water Well Abandonment Record

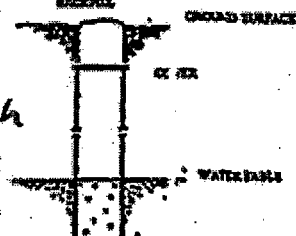
JUL 13 '01 11:35AM NNS-R&L/PUBLIC R.LTH

P.2/2

NEBRASKA DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 9476, LINCOLN, NEBRASKA 68509-4676
(402) 471-2343

DNR ADAM
JULY 2001

NOTICE OF WATER WELL ABANDONMENT

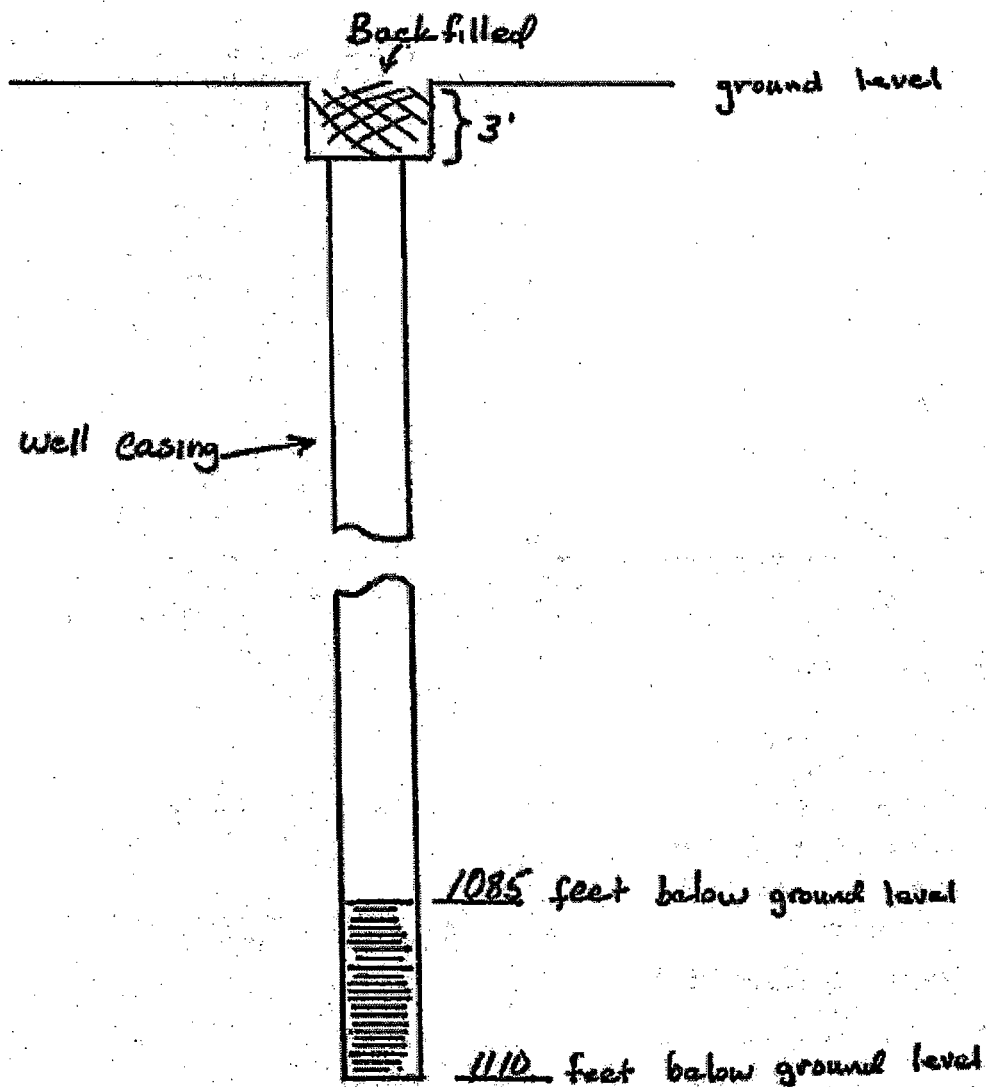
Instructions		FOR DEPARTMENT USE ONLY	
Complete by printing in ink or typing the appropriate information. Submit the completed form to the above address within 60 days of decommissioning.		Filing Date 7-25-2001	Registration Number G-71432
1. Well Owner Information: Name: CROW BUTTE RESOURCES Address: Box 169 City: CARLISBORO State: NE Zip: 69339 Home Phone No. 308 665-2215 Work Phone No.		Owner Code 39475	Sequence Number 79594
2. Person Completing Decommissioning (if not owner) Contractor's Information Name: LANDELL EXPLORATION Address: 102 PINE City: CARLISBORO State: NE Zip: 69339 308 665-2493 19019 Business Phone No. Contractor's License No.		NRD ☐ 01-Up. Big Blue ☐ 10-Explo-Missouri ☐ 18-Central Platte ☐ 02-Low. Big Blue ☐ 11-Nemaha ☐ 19-Low. Platte N. ☐ 03-Up. Elkhorn ☐ 12-Up. Nebraska ☐ 20-Low. Platte S. ☐ 04-Low. Elkhorn ☐ 13-Mid. Nebraska ☐ 21-Ja. Republican ☐ 05-Lake Blue ☐ 14-Low. Nebraska ☐ 22-Mid. Republican ☐ 06-Up. Loup ☐ 15-North Platte ☐ 23-Low. Republican ☐ 07-Low. Loup ☐ 16-South Platte ☐ 24-Mid. Basin ☐ 08-Lewis/Clark ☐ 17-Twin Platte	
3a. Well Registration No. (if applicable) G-071432 3b. Type of Ground Water Use MONITOR WELL 3c. Date of Decommissioning 7/10/01 3d. Legal Description of Well Location: County DAWES Township 29N Range 51W Section 1 NE 1/4 of the NW 1/4 3e. Street Address of Block, Lot and Subdivision (if applicable). 3f. Well Location in Feet from Section Lines 850 feet from North or South (circle one) section line 815 feet from East or West (circle one) section line 3g. Location of Water Use: County DAWES Township 29N Range 51W Section 1 NW 1/4 of the NW 1/4 3h. Date Well Last Operated UNKNOWN 3i. Well Casing Size 4.5" I. D.		4a. Actual Method for Decommissioning of Well. Use Sketch below (if appropriate), or illustrate method of decommissioning on a separate sheet. See sketch  4b. Type of Back Fill Used in Upper Three Feet. (If excavated area is greater than three feet, indicate depth of excavation.) 4c. Type and Location of Well Cover Use. 4d. Type, Amount, and Location of Materials Used in Lower Casing. 4e. Type and Thickness of Materials Used Between Confining Layers. Indicate plug depth(s) on left side of sketch.	
I am familiar with the information submitted on this form and to the best of my knowledge, it is true. Brian K. Zick 7/29/01 Water Well Contractor's Signature Date		Ralph J. Dwyer 7/19/01 Water Well Owner's Signature Date	

JUL 25 2001
DEPARTMENT OF
NATURAL RESOURCES

Well 863A (G071432) Notice of Water Well Abandonment Record

G-071432.

54 sacks of bentonite grout (50 lbs. ea.) to make 910 gallons of slurry with approximately 25% solids. Material was placed from bottom with tremi pipe to three feet below ground level. Casing was cut off and capped. Concrete and bentonite was placed over casing. Ground was leveled.



Well 864A (G071433) Notice of Water Well Abandonment

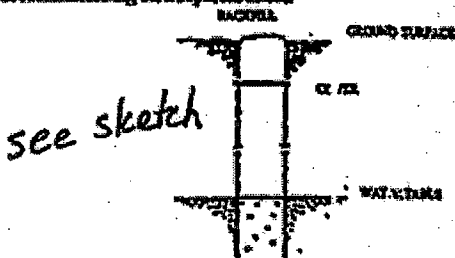
JUL 13 '01 11:55AM NHD-RRL/PUBLIC H/TH

P.2/2

NEBRASKA DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 9476, LINCOLN, NEBRASKA 68509-4576
(402) 471-3300

DELABAH
JULY 2001

NOTICE OF WATER WELL ABANDONMENT

INSTRUCTIONS		FOR DEPARTMENT USE ONLY	
Complete by printing in ink or typing the appropriate information. Submit the completed form to the above address within 60 days of decommissioning.		Filing Date	Registration Number
1. Well Owner Information:		7-25-2001	G-71433
Name: <u>CROW BUTTE RESOURCES</u>		Owner Code	Sequence Number
Address: <u>BOX 169</u>		39475	79595
City: <u>CEAUFORD</u> State: <u>NE</u> Zip: <u>69339</u>		NHD	
Home Phone No. <u>208 665-2215</u>	Work Phone No. <u>208 665-2215</u>	001-Up, Big Bluff 010-Papio-Missouri 018-Tenard Plate	
2. Person Completing Decommissioning (if not owner)		002-Low, Big Bluff 011-Nemaha 019-Low, Plate N.	
Contractor's Information		003-Up, Elkhorn 012-Up, Nebraska 020-Low, Plate S.	
Name: <u>LANDRILL EXPLORATION</u>		004-Low, Elkhorn 013-Mid, Nebraska 021-Lp. Republican	
Address: <u>102 PINE</u>		005-Little Bluff 014-Low, Nebraska 022-Mid, Republican	
City: <u>CEAUFORD</u> State: <u>NE</u> Zip: <u>69339</u>		006-Up, Loop 015-North Plate 023-Low, Republican	
Business Phone No. <u>208 665-2493</u>	Contractor's License No. <u>19019</u>	007-Low, Loop 016-South Plate 024-Mid-Basin	
		008-Lewis/Clark 017-Twin Plate	
3a. Well Registration No. (if applicable) <u>G-071433</u>		4a. Actual Method for Decommissioning of Well. Use Sketch below (if appropriate), or illustrate method of decommissioning on a separate sheet.	
3b. Type of Ground Water Use: <u>MONITOR WELL</u>			
3c. Date of Decommissioning: <u>7/10/01</u>		4b. Type of Back Fill Used in Upper Three Feet. (If excavated area is greater than three feet, indicate depth of excavation.)	
3d. Legal Description of Well Location: County <u>DAWES</u>		4c. Type and Location of Well Cover Use.	
Township <u>29N</u> Range <u>51W</u> Section <u>1</u>		4d. Type, Amount, and Location of Materials Used in Lower Casing.	
<u>SW 1/4 of the SW 1/4</u>		4e. Type and Thickness of Materials Used Between Confining Layers. Indicate plug depth(s) on left side of sketch.	
3e. Street Address of Block, Lot and Subdivision (if applicable).			
3f. Well Location in Feet from Section Lines			
<u>650</u> feet from North or South (circle one) section line			
<u>1300</u> feet from East or West (circle one) section line			
3g. Location of Water User: County <u>DAWES</u>			
Township <u>29N</u> Range <u>51W</u> Section <u>1</u>			
<u>SW 1/4 of the SW 1/4</u>			
3h. Date Well Last Operated: <u>UNKNOWN</u>			
3i. Well Casing Size: <u>4.5" I.D.</u>			

I am familiar with the information submitted on this form and to the best of my knowledge, it is true.

Ryan K. Jell
Water Well Contractor's Signature

7/20/01
Date

Ralph Throck
Water Well Owner's Signature

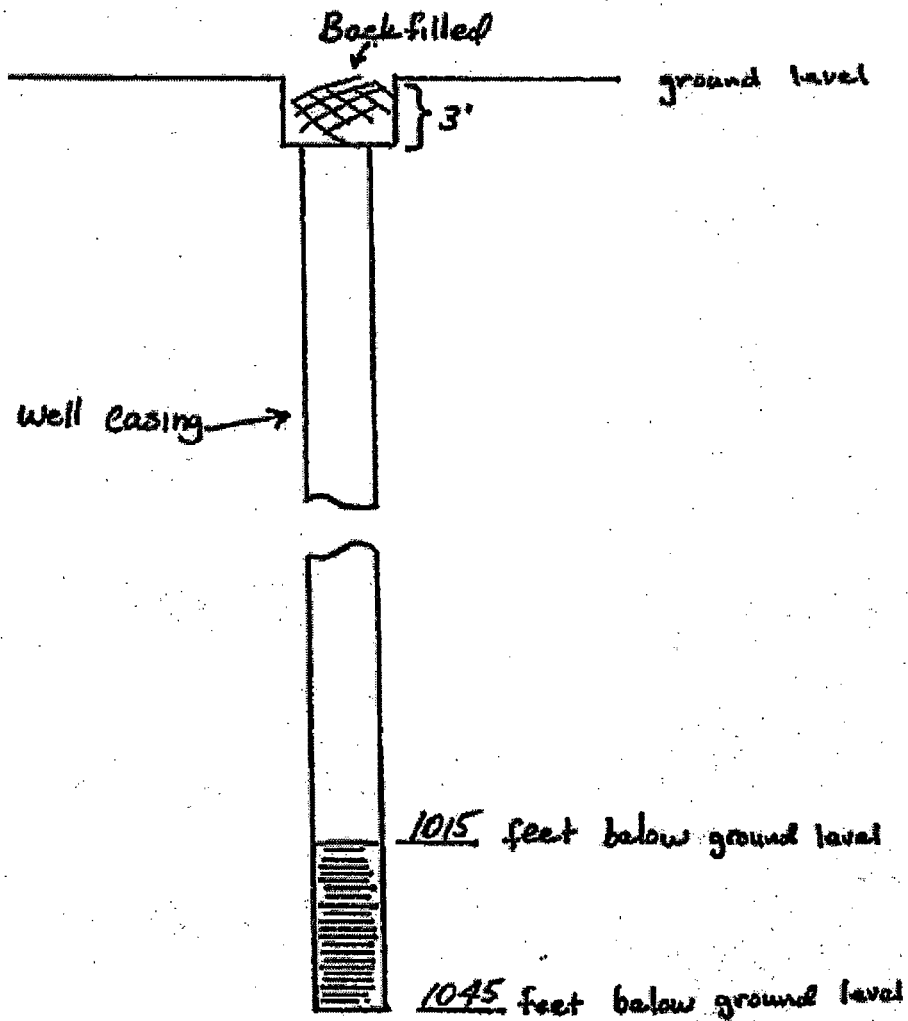
7/19/01
Date

RECEIVED
JUL 25 2001
DEPARTMENT OF
NATURAL RESOURCES

Well 864A (G071433) Notice of Water Well Abandonment

G-071433

40 sacks of bentonite grout (50 lbs. ea.) to make 860 gallons of slurry with approximately 25% solids. Material was placed from bottom with tremi pipe to three feet below ground level. Casing was cut off and capped. Concrete and bentonite was placed over casing. Ground was releveled.



Well 865A (G071430) Notice of Water Well Abandonment Record

JUL 13 '01 11:35AM NHD-RLL/PUBLIC H.T.H.

P.2/2

NEBRASKA DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 34676, LINCOLN, NEBRASKA 68509-4676
(402) 471-2363

ENR/ADAN
JULY 2000

NOTICE OF WATER WELL ABANDONMENT

INSTRUCTIONS		FOR DEPARTMENT USE ONLY	
Complete by printing in ink or typing the appropriate information. Submit the completed form to the above address within 60 days of decommissioning.		Filing Date 7-25-2001	Registration Number G-11430
1. Well Owner Information:		Owner Code 39475	Sequence Number 79592
Name: CROW BUTTE RESOURCES		NRD	
Address: BOX 169		☐ 01-Up, Big Blue ☐ 10-Papio-Missouri ☐ 18-Central Plains ☐ 02-Low, Big Blue ☐ 11-Nemaha ☐ 19-Low, Platte N. ☐ 03-Up, Elkhorn ☒ 12-Up, Niobrara ☐ 20-Low, Platte S. ☐ 04-Low, Elkhorn ☐ 13-Mid, Niobrara ☐ 21-Jp. Republican ☐ 05-Little Blue ☐ 14-Low, Niobrara ☐ 22-Mid, Republican ☐ 06-Up, Loup ☐ 15-North Platte ☐ 23-Low, Republican ☐ 07-Low, Loup ☐ 16-South Platte ☐ 24-Mid-Basin ☐ 08-Lewis/Clark ☐ 17-Twin Platte	
City: CRAWFORD State: NE Zip: 69339			
Home Phone No. 208 665-2215			
Work Phone No.			
2. Person Completing Decommissioning (if not owner):		42. Actual Method for Decommissioning of Well. Use Sketch below (if appropriate), or illustrate method of decommissioning on a separate sheet.	
Contractor's Information			
Name: LANE RILL EXPLORATION			
Address: 102 PINE			
City: CRAWFORD State: NE Zip: 69339			
Business Phone No. 208 665-2493 Contractor's License No. 19019			
3a. Well Registration No. (if applicable) G-071430			
3b. Type of Ground Water Use MONITOR WELL			
3c. Date of Decommissioning 7/11/01			
3d. Legal Description of Well Location: County DAWES		4b. Type of Back Fill Used in Upper Three Feet. (If excavated area is greater than three feet, indicate depth of excavation.)	
Township 29N Range 50W Section 18			
NE/4 of the NW/4			
3e. Street Address of Block, Lot and Subdivision (if applicable).		4c. Type and Location of Well Cover Use.	
3f. Well Location in Feet from Section Lines		4d. Type, Amount, and Location of Materials Used in Lower Casing.	
970 feet from North (circle one) section line 280 feet from East (circle one) section line			
3g. Location of Water Use: County DAWES		4e. Type and Thickness of Materials Used Between Confining Layers. Indicate plug depth(s) on left side of sketch.	
Township 29N Range 50W Section 18			
NW 1/4 of the NW 1/4			
3h. Date Well Last Operated UNKNOWN			
3i. Well Casing Size 4.5" I.D.			

I am familiar with the information submitted on this form and to the best of my knowledge, it is true.

Ryan K. ZC
Water Well Contractor's Signature

7/20/01
Date

Patricia H. H.
Water Well Owner's Signature

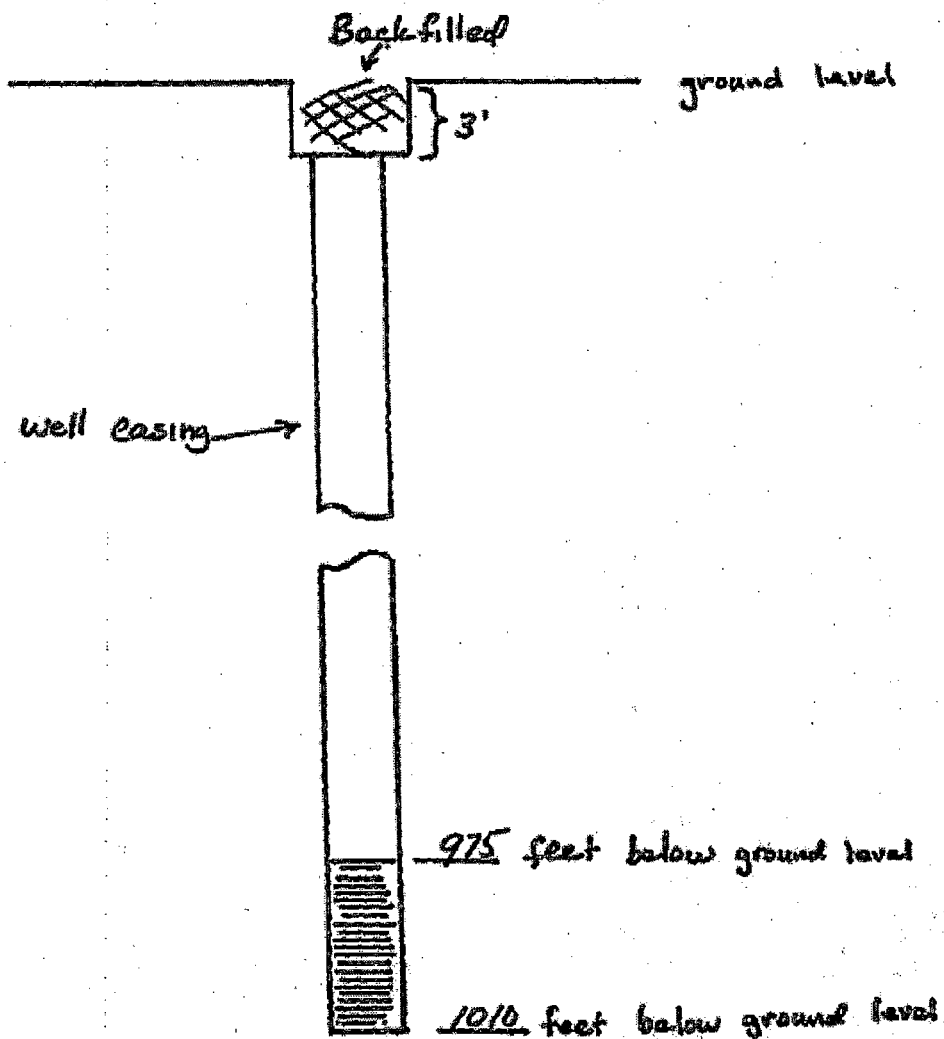
7/19/01
Date

JUL 25 2001
DEPARTMENT OF
NATURAL RESOURCES

Well 865A (G071430) Notice of Water Well Abandonment Record

G-071430

40 sacks of bentonite grout (50 lbs. ea.) to make 830 gallons of slurry with approximately 25% solids. Material was placed from bottom with tremi pipe to three feet below ground level. Casing was cut off and capped. Concrete and bentonite was placed over casing. Ground was relevelled.



Well 866A (G071431) Notice of Well Abandonment Record

JUL 13 '01 11:35AM NRS-PRL/PUBLIC HLTH

P.2/2

NEBRASKA DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 94676, LINCOLN, NEBRASKA 68509-4676
(402) 671-3363

DNLABAN
JULY 2000

NOTICE OF WATER WELL ABANDONMENT

Instructions		FOR DEPARTMENT USE ONLY	
Complete by printing in ink or typing the appropriate information. Submit the completed form to the above address within 60 days of decommissioning.		Filing Date	Registration Number
		7-25-2001	G-71431
1. Well Owner Information:		Owner Code	Sequence Number
Name: <u>CROW BUTTE RESOURCES</u>		39475	79593
Address: <u>BOX 169</u>		NRD	
City: <u>CRAWFORD</u> State: <u>NE</u> Zip: <u>69339</u>		☐ 01-Up. Big Blue ☐ 10-Papio-Missouri ☐ 18-Central Platte ☐ 02-Low. Big Blue ☐ 11-Nemaha ☐ 19-Low. Platte N. ☐ 03-Up. Elkhorn ☒ 12-Up. Nebraska ☐ 20-Low. Platte S. ☐ 04-Low. Elkhorn ☐ 13-Mid. Nebraska ☐ 21-1p. Republican ☐ 05-Little Blue ☐ 14-Low. Nebraska ☐ 22-Mid. Republican ☐ 06-Up. Loup ☐ 15-North Platte ☐ 23-Low. Republican ☐ 07-Low. Loup ☐ 16-South Platte ☐ 24-Tri-Basin ☐ 08-Lewis/Clark ☐ 17-Twin Platte	
Home Phone No. <u>308 665-2215</u>			
Work Phone No.			
2. Person Completing Decommissioning (if not owner)			
Contractor's Information			
Name: <u>LANE RILL EXPLORATION</u>			
Address: <u>102 PINE</u>			
City: <u>CRAWFORD</u> State: <u>NE</u> Zip: <u>69339</u>			
Home Phone No. <u>308 665-2493</u> Work Phone No. <u>19019</u>			
Business Phone No. Contractor's License No.			
3a. Well Registration No. (if applicable) <u>G071431</u>			
3b. Type of Ground Water Use <u>MONITOR WELL</u>			
3c. Date of Decommissioning <u>7/11/01</u>			
3d. Legal Description of Well Location: County <u>DAWES</u>			
Township <u>29N</u> Range <u>50W</u> Section <u>29</u>			
NW 1/4 of the NW 1/4			
3e. Street Address of Block, Lot and Subdivision (if applicable).			
3f. Well Location in Feet from Section Lines			
<u>500</u> feet from North or South (circle one) section line			
<u>1240</u> feet from East or West (circle one) section line			
3g. Location of Water Use: County <u>DAWES</u>			
Township <u>29N</u> Range <u>50W</u> Section <u>29</u>			
NW 1/4 of the NW 1/4			
3h. Date Well Last Operated <u>UNKNOWN</u>			
3i. Well Casing Size <u>4.5" I.D.</u>			
4a. Actual Method for Decommissioning of Well. Use Sketch below (if appropriate), or illustrate method of decommissioning on a separate sheet.			
4b. Type of Back Fill Used in Upper Three Feet. (If excavated area is greater than three feet, indicate depth of excavation.)			
4c. Type and Location of Well Cover Use.			
4d. Type, Amount, and Location of Materials Used in Lower Casing.			
4e. Type and Thickness of Materials Used Between Confining Layers. Indicate plug depth(s) on left side.			

I am familiar with the information submitted on this form and to the best of my knowledge, it is true.

Paul K. Z...
Water Well Contractor's Signature

7/20/01
Date

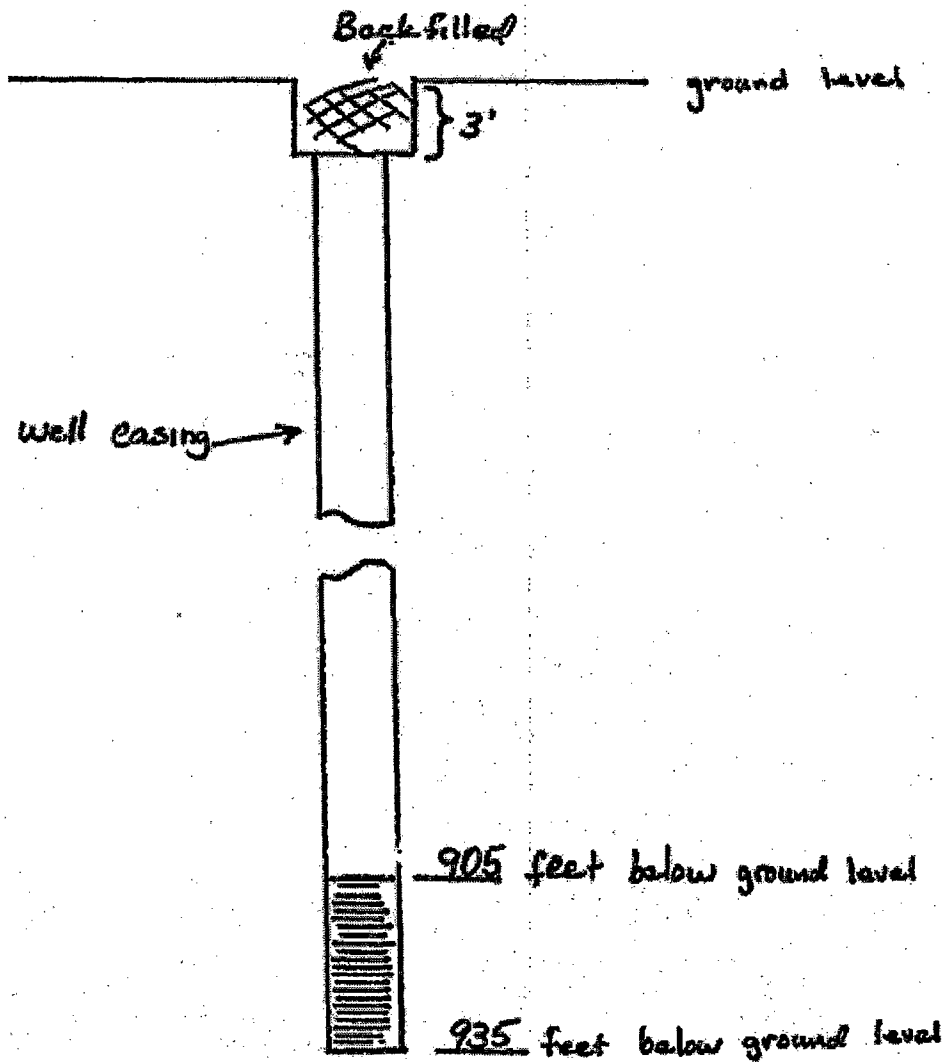
Paul K. Z...
Water Well Owner's Signature

7/19/01
Date

JUN 25 2001
DEPARTMENT OF
NATURAL RESOURCES

G-071431

36 sacks of bentonite grout (50 lbs. ea.) to make 770 gallons of slurry with approximately 25% solids. Material was placed from bottom with tremi pipe to three feet below ground level. Casing was cut off and capped. Concrete and bentonite was placed over casing. Ground was releveled.



Appendix E

Water Well Registration and Completion Records

E-1

Water Well Registration Records

Well 723 (G100831) Water Well Registration

October 1999
ENR Form 143

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES Water Well Registration

Page one 1 of 1

FOR DEPARTMENTAL USE ONLY			
Registration Date	6-7-1999	Sequence No.	118707
Registration No.	G-100831		
Owner Code No.	53453	Receipts No.	100705
Upper Niobrara Whitens			

1. Well Owner JOHN KRAFT
Address 1808 EAST 2ND
City MCCOOK

Telephone Number (305) 305-6411

State NE Zip Code 67861 +

2. Drilling Firm CROSS WATER WELLS
Address 11 West 4th Creek Road
City Crawford

Telephone Number (305) 655-1010

Contractor's License No. 39835

State NE Zip Code 69339 +

3. Permit Number(s)

4. Purpose of well (Indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☐ Livestock ☐ Reclamation
☐ Observation ☐ Public Water Supply (with spacing 46-638) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Agriculture
☐ Other

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☐ Yes ☒ No

B. Replacement well is ☐ feet from abandoned well.

C. Original well pump column size: ☐ inches.

D. Location of water use of abandoned well:

E. Registration number of abandoned well:

F. Abandoned well last operated

G. Completion of original well abandonment on

6. A. Well Location: SE 1/4 of the SE 1/4 of Section 11, Township 29 North, Range 5E, T19S, R15E, NE County.
B. The well is ☐ feet from the North/South section line and ☐ feet from the East/West section line
C. Street address or block, lot and subdivision, if applicable: ☐
D. Location of water use, if applicable (give legal descriptions):
E. If for irrigation, the land to be irrigated is ☐ acres.
F. Well reference letter(s), if applicable:

7. Pump Information.

Is pump installed at this time? ☒ Yes ☐ No

If yes, complete items A through F.

If no, complete items A and B with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 10.00 gallons per minute. Measured ☐ Estimated ☒

B. Pump column diameter: 1 inches. C. Length of pump column: 200 feet.

D. Pumping equipment installed: 03/25/99 E. Brand/Type: DUNSTON / SUBMERSIBLE

F. Pump installed by: Contractor ☐ Owner ☐ Pump Installer ☐ License No. 39835

-- CONTINUED ON REVERSE PAGE --

Well 723 (G100831) Water Well Registration

SECOND PAGE OF REGISTRATION REPORT FOR: Well Owner JOHN KEANE

Well location: SE 1/4 of the SE 1/4 of Section 11, Township 29 North, Range 9 N, DAVES
The well is _____ feet from the _____ section line and _____ feet from the _____ section line

G-100831

Page 002 of 1
County.

8. Well Construction Information

A. Total well depth: 220 feet. B. Static water level: 150 feet.

C. Pumping water level: 150 feet.

☒ Encased or ☐ Reamed

D. Well Construction began 02/19/99 E. Well Construction completed: 05/26/99

F. Hole diameter 9 inches.

G. Flare Casing: Diameter 4.454 ID 4.350 OD inches. Type of material PVC

Wall thickness: .496 inches. Joints GLUED

Length(s) and placement(s) depth from 5 ft. to 200 ft. from ft. to ft.

H. Screens: 4.454 ID 4.350 OD in. Type of material PVC

Screen openings (slot size): .016 Trade name: ROBERTS

Length(s) and placement(s) depth from 180 ft. to 220 ft. from ft. to ft. Grates at 200 ft.

I. Gravel pack interval(s) from 10 ft. to 220 ft. from ft. to ft. Grate size: 20

J. Grouted/Sealed from 5 ft. to 10 ft. with EPOXY/RESIN CHIPS

from ft. to ft. with

K. Drilling method: ROTARY

L. Drilling fluid: MUD

M. Well development technique (total time and method): DRILLING

N. Will chemicals, fertilizer or nutrients be injected or utilized in the system? Yes ☒ No ☐

If yes, what will be used: _____

9. Geologic Materials Logged

DEPTH IN FEET
FROM TO DESCRIPTION

DEPTH IN FEET
FROM TO DESCRIPTION

0 4 TOP SOIL
4 150 SANDSTONE
150 220 WATER BEARING SANDSTONE

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

John K. Keane
Water Well Contractor's Signature

05/28/99
Date

John K. Keane
Water Well Owner's Signature

06-03-99
Date

Water Well 725 (G94856) Water Well Registration

STATE OF NEBRASKA
DEPARTMENT OF WATER RESOURCES
WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration Date 2-19-98 Sequence No. 110776 Registration No. G-94856
Owner Code No. 50448 Receipt No. 94914 Upper Nebraska-White NRD

1. Well Owner Bennis Chapman Telephone Number 808 632-3269
Address 1808 Oxford Drive
City Lincoln State NE Zip Code 68501

2. Drilling Firm Nelken Wells, Inc. Telephone Number 808 762-1592
Address 2511 S. Hwy 383 Contractor's License No. 39318
City Lincoln State NE Zip Code 68501

3. Permit Number(s) _____

4. Purpose of well (indicate one): Dewatering (over 90 days) Domestic Geothermal Ground Heat Exchanger
Ground Water Source Heat Pump Industrial Injection Irrigation X Livestock Monitoring
Observation Public Water Supply (with aquifer) Public Water Supply (without aquifer) Recovery Aquaculture
Other _____
(Indicate use)

5. Replacement and abandoned well information.

A. Is this well a replacement well? Yes X No B. Registration number of abandoned well: _____
C. Replacement well is _____ feet from abandoned well. D. Abandoned well last operated _____, 19____
E. Original well pump column size: _____ inches. F. Completion of original well abandonment on _____, 19____
G. Location of water use of abandoned well: _____

6. A. Well location: NE 1/4 of the SE 1/4 of Section 7, Township 22 North, Range 50 East, Dawes County.
B. The well is 2260 feet from the (North or South) section line and 2380 feet from the (East or West) section line.
(Circle one) (Circle one)
C. Street address or block, lot and subdivision, if applicable: _____
D. Location of water use, if applicable (give legal description): Part of Section 7 T.22N R.50W
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference letter(s), if applicable: _____

7. Pump information.

Is pump installed at this time? X Yes No
If yes, complete items A through F.
If no, complete items A and D with estimated information for those wells in which pump will be installed.
A. Actual pumping rate, if applicable: 24 gallons per minute. Measured X or Estimated Y
B. Pump column diameter: 1 1/2 inches. C. Length of pump column: 120 feet.
D. Pumping equipment installed: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. B. Brand/Type: 2" Flush Cap 1/2" buder
Pump Installer _____ License No. 28, 28, 28

Water Well 725 (G94856) Water Well Registration

8. Well Construction Information

A. Total well depth: 240 feet. B. Static water level: 139 feet. C. Pumping water level: 220 feet.
☒ Estimated or ☐ Measured
D. Well Construction began: 12/18, 1997 E. Well Construction completed: 12/19, 1997
F. Bore hole diameter: 9" inches.
G. Plain casing: Diameter 4 1/2" ID 5" OD inches. Type of material: Sch 40 PVC
Wall thickness: .250 inch(es). Joints: Welded ☒ Threaded ☐ Other _____
Length(s) and placement(s) depth from 0 ft. to 180 ft. from _____ ft. to _____ ft.
H. Screen: 4 1/2" ID 5" OD in. Type of material: Sch 40 PVC
Screen openings (slot size): .016" Trade name: Eagle
Length(s) and placement(s) depth from 180 ft. to 240 ft. from _____ ft. to _____ ft. Guides at None
I. Gravel pack interval(s) from 10 ft. to 240 ft. from _____ ft. to _____ ft. Grade size: Concrete
J. Grouted/Sealed from 4 ft. to 12 ft. with Chip Bentonite
from 1 1/2 ft. to 0 ft. with Concrete Interior
K. Drilling method: Straight Rotary L. Drilling fluid: Poly-gel Bentonite
M. Well development technique (total time and method): 2 hrs. Air Lift Pumping
N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes ☒ No
If yes, what will be used: _____

9. Geologic Materials Logged

DEPTH IN FEET FROM	TO	DESCRIPTION	DEPTH IN FEET FROM	TO	DESCRIPTION
<u>0</u>	<u>2</u>	<u>Dark brown silty topsoil</u>	<u>53</u>	<u>160</u>	<u>Limestone + fine gravel</u>
<u>2</u>	<u>10</u>	<u>Med. brown silty sand</u>	<u>160</u>	<u>240</u>	<u>Soft silty sandstone +</u>
<u>10</u>	<u>21</u>	<u>Limestone, very silty</u>			<u>some limestone</u>
		<u>sand</u>			
<u>21</u>	<u>35</u>	<u>Coarse sandstone</u>			
		<u>limestone</u>			
<u>35</u>	<u>45</u>	<u>Coarse sandstone, limestone</u>			
		<u>interbedded gravel</u>			
<u>45</u>	<u>53</u>	<u>Coarse sand, fine</u>			
		<u>gravel</u>			

(Additional sheets may be submitted)

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Rich Nelson

Water Well Contractor's Signature

1/14/98

Date

Lennie Chapman

Water Well Owner's Signature

12-29-97

Date

Well 728 (G88070) Water Well Registration

Revised 1973
DNR Form 148

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration Date 5-28-76 Sequence No. 100059 Registration No. 6-88070
Owner Code No. 1-5-119 Receipt No. 86479 1A - Upper Nebraska - White NRD

X 1. Well Owner Caroline Allway & Bonnie Chapman Telephone Number (307) 738-1367
Address P.O. Box 4659 Casper, WY 82601 1800 6th St. Drive, Cheyenne WY 82001
City _____ State _____ Zip Code _____

2. Drilling Firm Nelson Wells, Inc. Telephone Number (308) 763-1542
Address P.O. Box 263 Alliance Contractor's License No. 39318
City _____ State NE Zip Code 69301

3. Permit Number(s) _____

4. Purpose of well (Indicate one): Dewatering (over 90 days) Domestic Occidental Ground Heat Exchanger
Ground Water Source Heat Pump Industrial Injection Irrigation Livestock Monitoring
Observation Public Water Supply (not for sale) Public Water Supply (for sale) Recovery Aquaculture
Other _____

5. Replacement and abandoned well information.

A. Is this well a replacement well? Yes X No B. Registration number of abandoned well _____
C. Replacement well is _____ feet from abandoned well. D. Abandoned well last operated _____ 19____
E. Original well pump column size _____ inches. F. Completion of original well abandonment on _____ 19____
G. Location of water use of abandoned well: _____

6. A. Well location: NE 1/4 of the NE 1/4 of Section 1, Township 27 North, Range 51 East, Dundy County.

B. The well is 160 feet from the (North or South) section line and 1450 feet from the (East or West) section line.
(Circle one) (Circle one)

C. Street address or block, lot and subdivision, if applicable: _____

D. Location of water use, if applicable (give legal description): Livestock water on section 1 S1 T29 R51

E. If for irrigation, the land to be irrigated is _____ acres.

F. Well reference marker(s), if applicable: _____

7. Pump information.

Is pump installed at this time? X Yes No

If yes, complete items A through F.

If no, complete items A and D with estimated information for those wells to which pump will be installed.

A. Actual pumping rate, if applicable: 5-10 gallons per minute. Measured ☐ or Estimated ☒
B. Pump column diameter: 1/2 inches. C. Length of pump column: 200 feet.
D. Pumping equipment installed: 5-24-1976 E. Brand/Type: Caults Submersible
F. Pump installed by: Contractor X Owner ☐ Pump Installer ☐ License No. 39318

Well 728 (G88070) Water Well Registration

8. Well Construction Information

A. Total well depth: 260 feet. B. Static water level: 112 feet. C. Pumping water level: 200 feet.
 D. Well Construction began: 4-27-1976 E. Well Construction completed: 5-20-1976 ☒ Estimated or ☐ Measured
 F. Bore hole diameter: 9 inches
 G. Pipe casing: Diameter: 4 1/2 inches OD inches. Type of material: Sch 40 PVC
 Well thickness: 250 inch(es). Joints: Welded/Glued/Threaded/Other
 Length(s) and placement(s) depth from: 0 ft. to 180 ft. from ft. to ft.
 H. Screen: 4 1/2 ID 5 OD in. Type of material: Sch 40 PVC
 Screen openings (size): 20 Trade name: Eagle
 Length(s) and placement(s) depth from 180 ft. to 260 ft. from ft. to ft. Gravel at ft.
 I. Gravel pack interval(s) from 10 ft. to 260 ft. from ft. to ft. Gravel size: 1/4"
 J. Cased/Sealed from 0 ft. to 10 ft. with Chipped Bentonite (type)
 from ft. to ft. with (type)
 K. Drilling method: Straight Rotary L. Drilling fluid: Poly Gel Slurry Bentonite
 M. Well development technique (total time and method): Air Lift Pumping - 2 hrs.
 N. Will chemicals, fertilizers or antifreezes be injected or utilized in the system? Yes ☒ No
 If yes, what will be used:

9. Geologic Materials Logged

DEPTH IN FEET FROM	TO	DESCRIPTION	DEPTH IN FEET FROM	TO	DESCRIPTION
<u>0</u>	<u>2</u>	<u>Dark brown silty sand</u>	<u>230</u>	<u>260</u>	<u>Thin sandstone, some</u>
<u>2</u>	<u>8</u>	<u>Dark brown silty sand</u>			<u>limestone & silty sand</u>
		<u>some lime rock</u>			
<u>8</u>	<u>20</u>	<u>Limestone</u>			
<u>20</u>	<u>30</u>	<u>Med. brown sandstone</u>			
		<u>limestone</u>			
<u>30</u>	<u>110</u>	<u>Med. brown sandstone</u>			
		<u>fine limestone</u>			
<u>110</u>	<u>250</u>	<u>Dark silty light brown</u>			
		<u>sandy limestone</u>			
		<u>ledges</u>			

(Additional sheets may be submitted)

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Rob. Miller 5/24/76 Leardine, Ollinger, Rupp
 Water Well Constructor's Signature Date Water Well Owner's Signature

Well 731(G90120) Water Well Registration

State of Nebraska
BWA Form 101

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration Date 12-14-96 Sequence No. 105200 Registration No. 6-20121
Owner Code No. 4500 Receipt No. 8762 12 Upper Mainum White NRD 11

307-234-8377 307-633-3269
1. Well Owner Harold and Bernice Thompson Telephone Number ()
Address P.O. Box 250625 1808 Oxford Drive
City Casper WY 82401 State WY Zip Code 82401

2. Drilling Firm Nelson Wells, Inc. Telephone Number 308-762-1592
Address P.O. Box 28 Contractor's License No. 39318
City Allamore State NE Zip Code 69301

3. Permit Number(s)

4. Purpose of well (check one): Dewatering (over 90 days) Domestic Geothermal Ground Heat Exchanger
Ground Water Source Heat Pump Individual Infection Irrigation Livestock Monitoring
Observation Public Water Supply (city or town) Public Water Supply (rural) Recovery Aquaculture
Other (check one)

5. Replacement and abandoned well information.
A. Is this well a replacement well? Yes X No
C. Replacement well is feet from abandoned well.
D. Abandoned well last operated 19
E. Original well pump column size: inches.
F. Completion of original well abandonment on 19
G. Location of water use of abandoned well:

6. A. Well location SW 1/4 of the NW 1/4 of Section 18, Township 29 North, Range 50 West, Dawes County.
B. The well is 1980 feet from the (North or South) section line and 330 feet from the (East or West) section line.
(Circle one) (Circle one)
C. Street address or block, lot and subdivision, if applicable:
D. Location of water use, if applicable (give legal description):
E. If for irrigation, the land to be irrigated is acres
F. Well reference letter(s), if applicable:

7. Pump information.
Is pump installed at this time? X Yes No
If yes, complete items A through F.
If no, complete items A and D with estimated information for those wells in which pump will be installed.
A. Actual pumping rate, if applicable: gallons per minute. Measured or Estimated
B. Pump column diameter: 1 1/2 inches. C. Length of pump column: 212 feet.
D. Pumping equipment installed: 12-6, 1996. E. Brand/Type: Clayton Mark Cylinder
F. Pump installed by: Contractor X Owner Pump Installer License No. 39318

Well 731(G90120) Water Well Registration

8. Well Construction Information

A. Total well depth: 180 feet B. Static water level: 106 feet C. Pumping water level: 147 feet
 D. Well construction began: 12-2-1976 E. Well construction completed: 12-6-1976
 F. Bore hole diameter: 9 inches
 G. Casing diameter: 4 1/2 inches ID 10 inches OD inches Type of material: Steel 40 PVC
 Well thickness: 250 inch(es) Joints: Welded/Clined/Threaded/Other
 Length(s) and placement(s) depth from 0 ft to 130 ft from ft to ft in the story of ft
 H. Screen: 4 1/2 inches ID 5 inches OD inches Type of material: Steel 40 PVC
 Screen openings (s): 10/16 Trade name: Baylo
 Length(s) and placement(s) depth from 130 ft to 150 ft from ft to ft in the story of ft
 I. Gravel pack interval(s) from 10 ft to 180 ft from ft to ft in the story of ft
 J. Gravel/Sealed from 5 ft to 10 ft with Chipped Rock
 K. Drilling method: Straight Rotary L. Drilling fluid: Polys gel
 M. Well development technique (total time and method): 1 hr air lift pumping
 N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes No
 If yes, what will be used?

9. Geologic Materials Logged

DEPTH IN FEET FROM	TO	DESCRIPTION	DEPTH IN FEET FROM	TO	DESCRIPTION
0	3	Dark med. brn. silt/clay	130	130	Light med. brn. silt/clay
3	14	Med. brn. sand			
14	35	Light brown limestone 1/4" x 3/8"			
35	50	Fine gravel 1/8" some			
		roll's fine limestone			
50	75	Fine gravel 1/8" fine			
		sandstone			
75	110	Limestone fine gravel			
		med. brn. sandstone			
110	130	Lat. brn. limestone			
		fine gravel, with			
		sandstone			

(Additional sheets may be submitted)

Well 731(G90120) Water Well Registration

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Rich Nelson

Water Well Contractor's Signature

12/19/96

Date

Bonnie F. Chapman

Water Well Owner's Signature

12/19/96

Date

Water Well 734 (G94138) Water Well Registration

October 1993
DWR Form 111

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration Date 1-5-98 Sequence No. 109906 Registration No. G-94138
Owner Code No. 50020 Receipt No. 94092 12 UPPER NIAGARA-WHITE NRD

- X 1. Well Owner Casaldine, Alloway AKO Leaz Alloway Telephone Number (307) 234-6377
Address P.O. Box 50674
City Casper State WY Zip Code 82405 40875
2. Drilling Firm Nelson Wells Inc. Telephone Number (908) 762-1572
Address 2511 #2 S. Hwy 385 Contractor's License No. 59318
City Alliance State NE Zip Code 68301
3. Permit Number(s) _____
4. Purpose of well (Indicate one): Dewatering (over 90 days) Domestic Geothermal Ground Heat Exchanger
Ground Water Source Heat Pump Industrial Injection Irrigation X Livestock Monitoring
Observation Public Water Supply (with spout (65 438)) Public Water Supply (without spout) Recovery Aquaculture
Other _____
(Indicate use)
5. Replacement and abandoned well information.
A. Is this well a replacement well? Yes X No B. Registration number of abandoned well: _____
C. Replacement well is _____ feet from abandoned well. D. Abandoned well last operated _____, 19____
E. Original well pump column size: _____ inches. F. Completion of original well abandonment on _____, 19____
G. Location of water use of abandoned well: _____
6. A. Well location: SW 1/4 of the NW 1/4 of Section 31, Township 30 North, Range 50 East, Dawes County.
X B. The well is 3000 feet from the (North or South) section line and 1100 feet from the (East or West) section line.
(Circle one) (Circle one)
C. Street address or block, lot and subdivision, if applicable: _____
D. Location of water use, if applicable (give legal description): _____
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference to acre(s), if applicable: _____
7. Pump Information.
X Is pump installed at this time? Yes X No
If yes, complete items A through F.
If no, complete items A and D with estimated information for those wells in which pump will be installed.
XA. Actual pumping rate, if applicable: _____ gallons per minute. Measured ☐ or Estimated ☐
XB. Pump column diameter: 1 1/2 inches. XC. Length of pump column: 228 feet.
XD. Pumping equipment installed: Tanqua, 1998. XE. Brand/Type: Midland 2" cylinder pump
XF. Pump installed by: Contractor ☐ Owner ☐ Pump Installer X License No. 29259

Water Well 734 (G94138) Water Well Registration

II. Well Construction Information

A. Total well depth: 300 feet. B. Static water level: 1 feet. C. Pumping water level: 260 feet.
 Estimated or ☒ Measured

D. Well Construction began: 12-2, 1997 E. Well Construction completed: 12-3, 1997

F. Bore hole diameter: 9 inch(es).

G. Pipe casing: Diameter 4 1/2 ID 5 OD inches. Type of material: sch 40 PDC
 Wall thickness: .250 inches. Joints: Welded Other: None
 Length(s) and placement(s) depth from 0 ft. to 240 ft. from ft. to ft.

H. Screen: 4 1/2 ID 5 OD in.; Type of material: SDR 17 PVC
 Screen openings (slot size): .010 Trade name: Keagle Casing at ft.
 Length(s) and placement(s) depth from 240 ft. to 300 ft. from ft. to ft.

I. Gravel pack interval(s) from 10 ft. to 300 ft. from ft. to ft. Gravel size:

J. Grouted/Sealed from 3 ft. to 10 ft. with chipped bentonite (type)
 from ft. to ft. with (type)

K. Drilling method: Straight Rotary L. Drilling fluid: Bentonite - Poly Gel

M. Well development technique (total time and method): air lift pumping - 2 hours

N. Will chemicals, fertilizers or soilicides be injected or utilized in the system? Yes ☒ No
 If yes, what will be used:

9. Geologic Materials Logged

DEPTH IN FEET FROM	TO	DESCRIPTION	DEPTH IN FEET FROM	TO	DESCRIPTION
<u>0</u>	<u>3</u>	<u>Sandy soil</u>	<u>90</u>	<u>140</u>	<u>dk. brn sandstone</u>
<u>3</u>	<u>5</u>	<u>Gravel</u>	<u>140</u>	<u>165</u>	<u>dk. brn sandstone, fine</u>
<u>5</u>	<u>40</u>	<u>dk. brn sandstone</u>	<u>165</u>	<u>170</u>	<u>Gravel, sandstone</u>
		<u>limestone (shale, ss)</u>	<u>170</u>	<u>190</u>	<u>dk. sand, fine, coarse</u>
<u>40</u>	<u>65</u>	<u>dk. brn sandstone</u>			<u>medium fine gravel</u>
		<u>tanish. clay sand</u>	<u>190</u>	<u>200</u>	<u>dk. sand, brown limestone</u>
<u>65</u>	<u>75</u>	<u>dk. brn sandstone</u>	<u>200</u>	<u>224</u>	<u>dk. sand, limestone</u>
		<u>bed of limestone</u>	<u>224</u>	<u>260</u>	<u>fine sandstone, coarse</u>
<u>75</u>	<u>90</u>	<u>dk. brn sandstone, fine</u>	<u>260</u>	<u>280</u>	<u>dk. sand, fine sandstone</u>
		<u>gravel</u>	<u>280</u>	<u>300</u>	<u>fine sand, limestone</u>

(Additional sheets may be submitted)

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Rich Nelson
 Water Well Contractor's Signature

12/4/97
 Date

Geraldine (Jo) Murray
 Water Well Owner's Signature

12-9-97
 Date

(Print name on separate paper)

Water Well 735 (G148049) Water Well Registration

Mail to
Department of Natural Resources
PO Box 94676
Lincoln, NE 68509-4676
Phone (402) 471-2363

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION

July 2005
UP-3 Form 125

FOR DEPARTMENT USE ONLY

Date Filed 1/22/08 Owner Code No. 88935 Registration No. 6-148049
01222008 189921 WNRP(3) 622718 UNW NRD

1. a. Well Owner's First Name PATCI Last Name Hollibaugh
OR Company Name _____
b. Attention Name _____
c. Address 971 Square Mount Rd
City Crawford State Ne Zip 69339 Telephone _____
2. a. Contractor's License No. 38482 Contractor's Name Jim Kauer
Contractor's Email Address _____
b. Drilling Firm Name Jim's Well Service
Address 316 Jim
City Crawford State Ne Zip 69339 Telephone 665 2254
Drilling Firm's Email Address _____
3. a. Well location SE 1/4 of the SW 1/4 of Section 31, Township 36 North, Range 50E, W 1/2, Hamlin County.
b. Natural Resources District UNW
c. The well is 200 feet from the (N ☐ S ☒ E ☐ W ☐ section line and 1824 feet from the (E ☐ W ☒ section line
OR Latitude Degree 42 Minute 31 Second 30
Longitude Degree 103 Minute 14 Second 14
d. Street address and subdivision, if applicable _____
Block _____ Lot _____
e. Location of water use (give legal descriptions) Acres on 39
f. If for irrigation, the land to be irrigated is _____ acres.
g. Well reference letter(s), if applicable _____ HISS PWSID _____
4. Permits
Management Area Permit Number _____ Surface Water Permit Number _____
Geothermal Permit Number _____ Industrial Permit Number _____
Municipal Permit Number _____ Transfer Out-Of-State Permit Number _____
Well Spacing Permit Number _____ Conduct Permit Number _____
HISS _____ Other Permit Number _____
NDEQ _____
5. Purpose of well (indicate one) ☐ Aquaculture ☐ Commercial/Industrial ☐ Dewatering (over 90 days)
☐ Domestic ☐ Ground Heat Exchanger ☐ Groundwater Source Heat Pump ☐ Irrigation ☐ Injection
☒ Livestock ☐ Monitoring ☐ Observation ☐ Public Water Supply (only specify (14-070))
☐ Public Water Supply (other specify) ☐ Recovery ☐ Other _____
(Indicate unit)
6. Wells in a Series.
a. Is this well a part of a series? ☐ Yes go to part b of this section ☒ No go to part 7 of this application
b. If one or more of the wells in the series is currently registered, give all well registration numbers _____
c. How many wells in the series are you registering at this time? _____

Water Well 735 (G148049) Water Well Registration

B-148049

7. Replacement and decommissioned/modified well information.

- a. Is this well a replacement well? ☐ Yes ☒ No go to part 8 of this application
 b. Registration number of original well _____ If not registered, date original well was constructed on ____/____/____
 c. Original well last operated on ____/____/____ d. Replacement well is _____ feet from original well.
 e. Location of water use of original well _____

Please Select One:

- f.1. ☐ Original water well decommissioned on ____/____/____ OR
 2. ☐ I hereby certify that the original water well will be decommissioned within 180 days after such construction of the replacement water well. OR
 3. ☐ I hereby certify that the original water well will be modified and equipped to pump 50 gallons per minute or less within 180 days after such construction of the replacement water well. It will be used for one of the following: a. ☐ Livestock
 b. ☐ Monitoring c. ☐ Observation
 d. ☐ Nonconsumptive or de minimus use approved by the applicable natural resources district. State use: _____
 If 3d is chosen, NRD signature is required.

NRD signature _____ Date _____ OR

4. ☐ Decommission/Modification Certification form is submitted by landowner.

8. Pump Information.

- a. Is pump installed at this time ☐ Yes ☒ No
 Is pump installed by well owner in section 1? ☐ Yes ☐ No Is pump installed by contractor in section 2? ☐ Yes ☐ No
 If pump installed by pump installer, please fill out license number below
 b. Pump Installer's License No. _____ Pump Installer's Name _____
 Pump Installer's Email Address _____
 Pump Installer's Firm Name _____
 Pump Installer's Firm Address _____
 City _____ State _____ Zip _____ Telephone _____
 Pump Installer's Firm Email Address _____
 c. Pumping rate _____ gallons per minute Measured _____ Estimated _____
 d. Drop pipe diameter _____ inches e. Length of drop pipe _____ feet
 f. Pumping equipment installed on ____/____/____ g. Pump Brand _____
 h. This well is designed and constructed to pump less than 50 gpm ☒ Yes ☐ No

9. Well Construction Information

- a. Total well depth 375 feet b. Static water level 210 feet c. Pumping water level 290 feet
 d. Well Construction began on 11/19/07 e. Well Construction completed on 11/21/07

Wells drilled prior to stays or moratoriums require NRD signature.

NRD signature _____

Date _____

- f. Bore hole diameter in inches Top 9 Bottom 9

- g. Casing and Screen Joints are: Welded ☐ Glued ☐ Threaded ☐ Other splined groove

10. Well Construction (Casing & Screen) - c, d, e, & g measurements should be in inches to three decimal places

Placement Depth in Feet		Casing or Screen	Inside Diameter	Outside Diameter	Well Thickness	Screen Slot Size	Type of Material	Trade Name
From	To							
375	355	Screen	4.050	4.273	.271	.025	PVC	carda loc
355	0	Casing	4.050	4.273	.271		PVC	carda loc

6-148049

[illegible][illegible]

13. I hereby certify that the information provided on this registration is true and accurate to the best of my knowledge.

Date _____

Please note this document contains three pages.

Water Well 736 (G68634) Water Well Registration

Revised December, 1978

DWR Form 602

DO NOT WRITE IN THIS SPACE

Registration No. G-68634

County Dawes

Date Filed 2/23/83

1

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WELL REGISTRATION

1. General information:

A. Connected well

Is this well connected to another well? ☐ Yes ☒ No

If yes, give registration number of previously registered well _____

(If new installation consists of a series of wells with one outlet, complete registration forms and driller's certificates for each and submit \$7.50)

B. Replacement well

Is this well to replace a permanently abandoned well? ☐ Yes ☒ No

If yes, give registration number of abandoned well _____

C. Permit No. _____ (required only in a Ground Water Control Area)

Type of well to be registered:
(Check One)

☒ IRRIGATION

☐ MUNICIPAL

☐ INDUSTRIAL

☐ Other _____

2. Name & address of well owner:

Tomahawk Ranch & Cattle Co. % Bruce Lake (39455)
Marland, Nebraska

Zip Code 69354

Phone (308) 665-1765

3. Name & address of well driller:

Midwest Farm Service
Gering, Nebraska

Zip Code 69341

Phone: (308) 632-6187

4. Location & purpose of the well:

A. 12 Upper White, Nebraska Natural Resources District (Identify)

B. SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 17, Township 29, Range 50 ☐ E ☒ W
(check one)

Dawes County

C. The well is 1000 feet from the nearest municipal, irrigation, or industrial well. The nearest well is owned by ☒ you ☐ someone other than you.
(check one)

D. The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of the following land: Section 17, Township 29 N, Range 50 W
OR

E. The well shall be used for purposes of: Irrigation and stock water

5. Well and pump specifications:

A. Pumping rate under normal conditions: 900 gallons per minute.

B. Total well depth: 200 feet.

C. Inside diameter of the casing: 16 inches.

D. Static (non-pumping) water level in the well: 115 feet below ground surface.

E. Depth of water under normal pumping conditions: 174 feet below ground surface.

F. Pump column: Diameter 8 inches. Length 180 feet.

G. The well was completed on or about Feb. 7, 19 83

MORE ON BACK

10-27-18

MORE ON BACK

Water Well 736 (G68634) Water Well Registration

(With an "X" mark the location of the well)

NW NW	NE NW	SW NE	SE NE
SW SW	SE SW	SW SE	SE SE

X

120'

120'

120'

120'

This drawing represents one square mile (a section).
Each small subdivision is a 40-acre tract.

I certify that I am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, correct and accurate.

Tomhawk Ranch & Cattle Co.
Well Owner's Signature
Bruce Joke 18 Feb 1983

Both a Well Registration and Driller's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refundable \$7.50 fee (payable to the Director of Water Resources) must accompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

State of Nebraska
Department of Water Resources
301 Centennial Mall-South
P.O. Box 94676
Lincoln, Nebraska 68509

Water Well 736 (G68634) Water Well Registration

Revised April 1, 1966
Dr. 43

1

Registration No. G-68634 County of Dawes Date Filed 2/23/83

STATE OF NEBRASKA CERTIFICATE OF WELL DRILLER

I, Midwest Farm Service, Inc. of Box 366, Gering, Nebraska 69341
(Name of Driller) (Postoffice Address)

County of Scotts Bluff State of Nebraska, do hereby certify that:

1. I am the driller of a well located on the SW NE Quarter, Section No. 17
Township 29 North, Range 50 W, owned by
whose postoffice address is _____ State of _____

2. That the drilling was begun on the 25 day of October, 1968, and completed on
the 27 day of October, 1968

3. That the well is cased and screened in the following manner: 0-120 16" 10ga Plain
(Give kind of casing, length and position of plain and
120-200 16" Bgs. Part
screen casing, weight of casing tubing, etc.)

4. That the diameter of drilled hole is 0-24-26 inches
36-200 25"

5. That Reverse Rotary type of drilling machinery was used.

6. That the drilled hole is not sealed, as follows: _____

7. That the following is an accurate log of the depth, thickness and character of the different strata penetrated, and the location of water-bearing strata:

DEPTH IN FEET FROM TO		MATERIAL DRILLED
0	11	Soil & Clay
11	20	Br rock Med sand
20	25	Br rock SS Soft SS VO Sand
25	50	Soft Clay
50	65	3' clay VO sand gravel soft SS
65	80	Soft Clay
80	95	2/3 soft clay w/ataska VO sand
95	110	Small gravel VO sand
110	119	Small gravel w/clay layer

Date Signed 11-17-69

MIDWEST FARM SERVICE, INC.
[Signature]
Driller

(If more space is required please use reverse side of this page.)

Water Well 736 (G68634) Water Well Registration

119	125	Small gravel VG sand chatter
125	128	Same chatter
128	140	Soft clay w/layer small gravel chatter
140	145	Soft clay ,
145	155	Small gravel VG sand chatter
155	170	Small gravel VG sand men sand
170	185	Coarse gravel Br roc ledge @ 186'
185	200	Small gravel, layer clay chatter

Water Well 737 (G68635) Water Well Registration

Revised December, 1978

DWR Form 602

DO NOT WRITE IN THIS SPACE

Registration No. G-68635 County Dawes Date Filed 2/23/83

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WELL REGISTRATION

1. General Information:

A. Connected well

Is this well connected to another well? ☐ Yes ☒ No

If yes, give registration number of previously registered well: _____

(If new installation consists of a series of wells with one outlet, complete registration forms and driller's certificates for each and submit \$7.50)

B. Replacement well

Is this well to replace a permanently abandoned well? ☐ Yes ☒ No

If yes, give registration number of abandoned well: _____

C. Permit No. _____ (required only in a Ground Water Control Area)

Type of well to be registered:
(Check One)

☒ IRRIGATION

☐ MUNICIPAL

☐ INDUSTRIAL

☐ Other _____

2. Name & address of well owner:

Tomahawk Ranch & Cattle Co.
Harland, Nebraska

4 Bruce Lake (39455)

Zip Code 69354 Phone (308) 565-1765

3. Name & address of well driller:

Chase Drilling Co.

This company is no longer in business.

Zip Code _____ Phone: (____) _____

4. Location & purpose of the well:

A12 Upper White, Niobrara

Natural Resources District (Identify)

B. SE 1/4 of the NE 1/4 of Section 17, Township 29, Range 50, ☐ E ☒ W.
Dawes County. (check one)

C. The well is 1000 feet from the nearest municipal, irrigation, or industrial well. The nearest well is owned by ☒ you ☐ someone other than you.
(check one)

D. The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of the following land: Section 17, Township 29 N, Range 50 W
OR

E. The well shall be used for purposes of: Irrigation and stock water

5. Well and pump specifications:

A. Pumping rate under normal conditions: 1200 gallons per minute.

B. Total well depth: 340 feet.

C. Inside diameter of the casing: 16 inches.

D. Static (non-pumping) water level in the well: 110 feet below ground surface.

E. Depth of water under normal pumping conditions: 200 feet below ground surface.

F. Pump column: Diameter 8 inches. Length 240 feet.

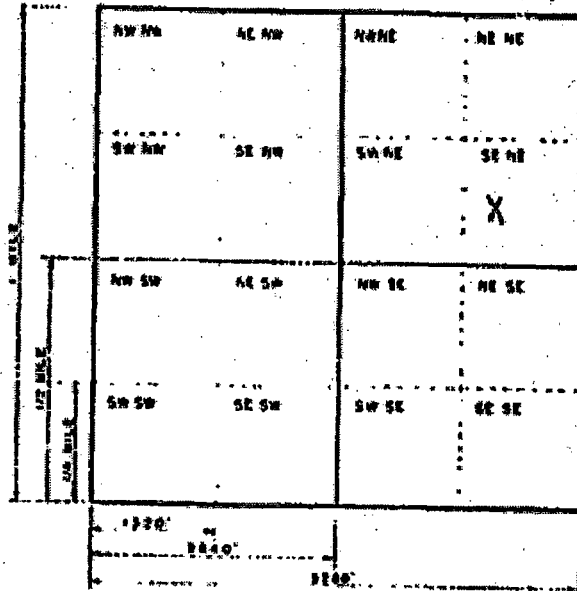
G. The well was completed on or about Dec., 19 78.

MORE ON BACK

MORE ON BACK

Water Well 737 (G68635) Water Well Registration

(With an "X" mark the location of the well)



This drawing represents one square mile (a section).
Each small subdivision is a 40-acre tract.

I certify that I am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, concise and accurate.

Tomahawk Ranch & Cattle Co.
Well Owner's Signature
Bruce Voke 18 Feb 1983 Date

Both a Well Registration and Driller's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refundable \$7.50 fee (payable to the Director of Water Resources) must accompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

State of Nebraska
Department of Water Resources
301 Centennial Mall-South
P.O. Box 94676
Lincoln, Nebraska 68509

Well 738 (G97537) Water Well Registration

October 1995
DWR Form 105

STATE OF NEBRASKA
DEPARTMENT OF WATER RESOURCES
Water Well Registration

Page not 1 of 1

FOR DEPARTMENTAL USE ONLY

Registration Date 8-21-98 Sequence No. 113701 Registration No. G-097537
Order Code No. 37641 Receipt No. 98096 Upper Nebraska-White and

1. Well Owner RONNIE WILKINS
Address P.O. Box 218
City MANASSAS

Telephone Number (308) 665-2400

State NE Zip Code 69354 +

2. Drilling Firm CRISP WATER WELLS
Address 11 West 1st Creek Road
City Crawford

Telephone Number (308) 665-1010

Contractor's License No. 37035

State NE Zip Code 69339 +

3. Permit Number(s)

4. Purpose of well (indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☐ Livestock ☐ Monitoring
☐ Observation ☐ Public Water Supply (with spacing 46-636) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Aquaculture
☐ Other _____

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☒ Yes ☐ No

B. Registration number of abandoned well: _____

H. Replacement well is 15 feet from abandoned well.

D. Abandoned well last operated 10/10/97

K. Original well pump column size: 1 1/4 inches.

F. Completion of original well abandonment on 04/30/98

G. Location of water use of abandoned well:

6. A. Well location: SW 1/4 of the SE 1/4 of Section 26, Township 29 North, Range 31 W, DANB County.
B. The well is 1250 feet from the North/South section line and 1050 feet from the East/West section line.
C. Street address or block, lot and subdivision, if applicable: NR
D. Location of water use, if applicable (give legal descriptions):
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference letter(s), if applicable:

7. Pump Information.

Is pump installed at this time? ☒ Yes ☐ No

If yes, complete items A through F.

If no, complete items A and B with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 3.00 gallons per minute. Measured ☐ Estimated ☒

H. Pump column diameter: 1 1/4 inches. C. Length of pump column: 234 feet.

D. Pumping equipment installed: 07/14/98

K. Brand/Type: WINDMILL

F. Pump installed by: Contractor ☒ Owner ☐ Pump installer ☐ License No. 37035

-- CONTINUED ON NEXT PAGE --

G-097537

Page 102 1 of 1
CINCEP.

A. Total well depth: 260 feet. B. Static water level: 170 feet. C. Pumping water level: 180 feet.
(X) Estimated or () Measured

D. Well Construction began: 06/28/30 E. Well Construction completed: 05/04/36

F. Bore hole diameter: 9 inches.

G. Flank casing: Diameter 4.435 ID 4.930 OD inches. Type of material PVC
Wall thickness: .454 inch(es). Joints 62220
Length(s) and placement(s) depth from 0 ft. to 262 ft. from ft. to ft.

H. Screen: 4.454 ID 4.930 OD in. Type of material PVC
Screen openings (slot size): .015 Trade name: ROYALT
Length(s) and placement(s) depth from 260 ft. to 260 ft. from ft. to ft. Screen at ft.

I. Gravel pack interval(s) from 25 ft. to 260 ft. from ft. to ft. Grade sizes 24

J. Grouted/Sealed from 15 ft. to 26 ft. with DYSTONITE CRISTO
from 0 ft. to 11 ft. with DRILCOFILLING

K. Drilling method: ROYALT L. Drilling fluid: SERRONITE

M. Well development technique (total time and method):

N. Were chemicals, fertilizers or antifreeze be injected or utilized in the system? Yes X No
If yes, what will be used:

DATE: 11/11/11
PAGE: 10

DEPT OF JUSTICE
FBI

0	15	SURFACE SAND
15	110	SANDSTONE
110	125	LOFT CIRCULATION ZONE
125	180	SPITE ROCK
180	260	WATER BEARING SANDSTONE

Robert H. Clark
Water Well Contractor's Signature

05/12/90
Date

Louis Willin
Water Well Contractor's Signature

7-16-83
Date

Water Well 739 (G113923) Water Well Registration

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION or AREA PERMIT						Total Fee	NRSS Fee	Got It?
FOR DEPARTMENT USE ONLY						500.00	500.00	8
NOL ID	101078451	NOL Status	Accepted	Well Status	A	Registration Code	G-113923	Print
Owner ID	43200	NOL Date	01/12/2002	Call Up Code		Registration Date	01/14/2002	Add
Call Up Date	12/12/01							

Monday, January 14, 2002

Page 1 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION or AREA PERMIT					
FOR DEPARTMENT USE ONLY					
NOL ID	101078451				
Owner ID	43200				
Owner Name	BRUCE				
Owner Address	TROESTER				
Owner City					
Owner State	NE				
Owner Zip	68354				
Owner Phone	308-655-2385				
Contractor Name	Leonard H. Chubb				
Contractor Address	1400 S. 10th St.				
Contractor City	Lincoln, NE				
Contractor State	NE				
Contractor Zip	68502				
Contractor Phone	402-466-1243				
Well Location	N 29° 29' 00" of Section 30, Township 29 North, Range 10 East, County of Lincoln				
Well Name	Upper Hobart White				
Well Depth	11' 12" (N/S) and 1' 12" (E/W) from the nearest section line				
GPS of Location	Latitude: 42° 29' 25.00" Longitude: 100° 13' 54.00" Differential GPS ☐ D				
Street address or block, lot and subdivision, if applicable:	Block No. Lot				
Location of water use, if applicable (give legal descriptions)	NW 1/4 SE 1/4 S 30 T 29 R 10				
If for irrigation, the land to be irrigated is	Acres				
Well Reference letter(s), if applicable					
Permits	Permits Number	Date	Permits	Permits Number	Date
Management Area Permit			Transfer Out-Of-State		
Surface Water			Well Spacing		
Geothermal			Conduct Water		
Mineral			Municipal		
Other			Other		
Purpose of Well	Irrigation				

Water Well 739 (G113923) Water Well Registration

Monday, January 14, 2002

Page 2 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION or AREA PERMIT G-113923 FOR DEPARTMENT USE ONLY

NOL ID 101078451

Owner ID 43206

Is this well a replacement well? ☐ 0 ☒ 1

If one or more of the wells in this series is currently registered, provide the well registration number

How many wells in the series are you registering at this time?

Is this well a replacement well? ☐ 0 ☒ 1

Replacement Number

Is this well a replacement well? ☐ 0 ☒ 1

b Registration number of abandoned well

If not registered, date abandoned well was constructed

Abandonment was at 11/02/2001 11/02/2001

d Abandoned well last operated

f Completion of original well abandonment on 11/02/2001

Abandonment was at 11/02/2001 11/02/2001

Abandonment was at 11/02/2001 11/02/2001

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is pump installed by contractor in section 27? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

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Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

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Is this well a replacement well? ☐ 0 ☒ 1

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Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

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Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

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Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

Is this well a replacement well? ☐ 0 ☒ 1

From Depth	To Depth	Inside Diam	Outside Diam	Case Thickness	Screen Slot Size	Material	Screen Trade Name	Case
0	30	4.454	4.950	.496		PVC	EAGLE	
30	60	4.454	4.950	.496		.016 PVC	ROBERTS	

Water Well 739 (G113923) Water Well Registration

Monday, January 14, 2002

Page 3 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES

WATER WELL REGISTRATION or AREA PERMIT G-113923

FOR DEPARTMENT USE ONLY

NOL ID

10107845103

Owner ID

43206

1. Well Construction (Grout and Gravel)

Error in Grout Gravel Table ☐

NOL ID	From Depth	To Depth	Material	
10107845103	8 12		BENTONITE CHIPS	1
10107845103	12 60		2A	2

2. Geologic Material Logged

Error in Geologic Table ☐

NOL ID	From Depth	To Depth	Description
10107845103	0 4		TOPSOIL
10107845103	4 12		BRULE CLAY
10107845103	12 60		WATER SAND

Water Well 740 (G108894) Water Well Registration

Mail to:
PO Box 94676
Lincoln, NE 68509-4676
Phone: (402) 471-2363

STATE OF NEBRASKA
DEPARTMENT OF NATURAL RESOURCES
WATER WELL REGISTRATION

24-700
2003 Form 10

Registration Date 2-13-2001 Sequence No. 123384 Registration No. G108894
Owner Code No. 43206 Receipt No. 4854 Upper Nebraska White NRD

1. Well Owner Bruce Tracster Telephone Number (308) 665-2353
Address Box 533 Blue Rd
City Marsland State NE Zip Code 68354

2. Drilling Firm Nelson Wells, Inc Telephone Number (308) 262-1592
Address 2511 #2 S Hwy 385 Contractor's License No. 39318
City Allamore State NE Zip Code 68301

3. Permit Number(s) UNR C.O.-0005

4. Purpose of well (indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☒ Irrigation (important, see 6D and 6E)
☐ Livestock ☐ Monitoring ☐ Observation ☐ Public Water Supply (see 6D and 6E)
☐ Public Water Supply (see 6D and 6E) ☐ Recovery ☐ Aquaculture ☐ Other

5. Replacement and abandoned well information.

A. Is this well a replacement well? Yes ☒ No

B. Registration number of abandoned well:

C. Replacement well is _____ feet from abandoned well.

If not registered, date well construction completion na na na

E. Original well pump column size: _____ inches.

D. Abandoned well last operated na na na

G. Location of water use of abandoned well:

F. Completion of original well abandonment on na na na

6. A. Well location: SW 1/4 of the SE 1/4 of Section 35, Township 29 North, Range 27 East, Dumas County.

B. The well is 350 feet from the (North ☒ South) section line and 2200 feet from the (East ☒ West) section line.
(circle one) (circle one)

C. Street address or block, lot and subdivisions, if applicable:

D. Location of water use, if applicable (give legal descriptions): Part of South half of Section 30

X E. If for irrigation, the land to be irrigated is 180 acres. As acres hatched.

F. Well reference letter(s), if applicable:

7. Pump Information.

Is pump installed at this time: Yes ☒ No Planned as listed below in Spring of 2001

If yes, complete items A through F.

If no, complete items A and D with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 850 gallons per minute. Measured ☒ or Estimated ☐

B. Drop pipe diameter: 6" inches.

C. Length of drop pipe: 70' feet.

D. Pumping equipment installed: none

E. Brand/Type: Grundfos 4 stage 110LC

F. Company Name Nelson Wells, Inc

Pump Installer Name

Address 2511 #2 S Hwy 385

Telephone Number (308) 262-1592

City Allamore

State NE

Zip Code 68301 Contractor's License No. 39318

G-108894

A. Total well depth: 110' feet. B. Static water level: 8' feet.
C. Pumping water level: 54' feet. D. Estimated or G. Measured (at what gallons per minute rate?) 250
D. Well Construction began: Jan 9, 1941 E. Well Construction completed: Mar 11, 1941
F. Bore hole diameter: 26" inches.
G. Plain Casing: Diameter 15" ID 16" OD inches. Type of material: 5" 40 PVC
Well thickness: .50 inch(es). Joints—Welded Glued Threaded/Other: Screws
Placement depth(s) from 0 ft. to 52' ft. from _____ ft. to _____ ft.
H. Screen: 15" ID 16" OD in.; Type of material: 5" 40 PVC
Screen openings (slot size): .080 Trade name: Certain Feed
Placement depth(s) from 50' ft. to 100' ft. from _____ ft. to _____ ft. Guides at None ft.
I. Gravel pack interval(s) from 0 ft. to 100' ft. from _____ ft. to _____ ft. Grade size: 1/4" to 3/8"
J. Grouted/Sealed from 26' ft. to 4' ft. with Benznite & Cement
from _____ ft. to _____ ft. with _____
(type) outside of
20' of 3" 40 PVC
(type) 1/4" Gal. PVC
K. Drilling method: Reverse Rotary Drilling fluid: None
M. Well development technique (total time and method): hrs 8' Turbine - Surging
N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes No But not at this time.
If yes, what will be used: fertilizer & possibly chemicals

[illegible]

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Paul Wilson 2-2-01 2 Bruce T. Moore 2-1-01
Water Well Contractor's Signature Date Water Well Owner's Signature Date

2511 #2 South Hwy. 385
Alliance, NE. 69301
(308)762-1592

Date: 10/2098

Address:

Location: South of river about 100'



Water Well 741 (G81600) Water Well Registration

November 1983
DWR Form 131

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

INSTRUCTIONS

To register a ground water well, forward the following to the Department of Water Resources, P.O. Box 94676, Lincoln, Nebraska 68509-4676. Telephone number: 402/471-2363:

1. Water Well Registration form (DWR Form 131).

2. The most recent United States Department of Agriculture aerial photograph(s), available at the county Agricultural Stabilization and Conservation Service, marked to show the following:

- The location of the well to be registered.
- The location of wells owned by you in the same section. Each well should be labeled to show the use of water and the registration number. Abandoned wells should be shown, also.
- If the well is for irrigation, the land to be irrigated should be shown by a crosshatch pattern and the number of acres irrigated from the well should be indicated.

3. Fees: * For monitoring and observation wells --- \$60.
* For wells which pump less than 50 gallons per minute --- \$40.
* For wells which pump 50 gallons per minute or more --- \$100.

* For wells permitted pursuant to the Industrial Ground Water Regulatory Act, a separate registration fee is required for each of the first ten wells registered under the permit. For each additional group of ten or fewer wells registered under the permit only one registration fee is required.

For Department Use Only

Registration Number: G-81600

Registration Date: 6-6-94

Receipt Number: 77879

12-UPPER NIobrara NRD

90424

1. Name of well owner Gary O'Brien (Deiken) Telephone Number (38) 665-1714
Address 3311 River Rd.
City Madison State NE Zip Code 68354

2. Drilling Firm Chubb Water Wells Telephone Number (38) 665-1418
Address 11 W. Ash Creek Rd. Contractor's License No. 39035 Pump Installer License No. _____
City Crawford State NE Zip Code 68339
Well Logger (Name) _____ Well Driller (Name) Leonard Chubb

3. Permit Number(s) NA

4. This well will be for (indicate one): Irrigation Industrial Use Public Water Supply Domestic X Livestock
Recovery Injection Observation (Ground Water Levels) Monitoring (Ground Water Quality)
Dewatering (over 90 days) Other (indicate use)

5. Replacement and abandoned well information (Notice of abandonment procedure is required for all abandoned, registered wells):

- A. Is this well a replacement well? Yes X No B. Registration number of abandoned well: _____
C. Replacement well is 15 feet from abandoned well. D. Abandoned well last operated _____, 19____
E. Original well pump column size: _____ inches. F. Abandoned well plugged _____, 19____

6. A. Well location: NE 1/4 of Section 29, Township 29 North, Range 58 East, West Platte County.
B. The well is 1000 feet from the North/South section line and 2000 feet from the East/West section line.
(If possible, measurements should be from nearest section line.) (2000 N 1640 E)
C. Street address or block, lot and subdivision, if applicable: _____

D. Location of use (give legal description): NE 1/4 of SW 1/4 of 29 29 5-1

E. If for irrigation, the land to be irrigated is _____ acres.

Printed on recycled paper

Water Well 741 (G81600) Water Well Registration

7. Pump Information. If a timed pump test was conducted, submit complete pumping and drawdown data including depth of observation wells, if any, on separate page.

A. Pumping rate: 20 gallons per minute. Measured ☒ or Estimated ☐
 B. Pump: Column diameter: 2 inches. C. Depth to pump: 160 feet
 D. Pumping equipment installed: 3/24, 1994 E. Brand/Type: Rollins

8. Well Information.

A. Total well depth: 190 feet. B. Static water level: 42 feet. C. Pumping water level: 60 feet.
 D. Construction began: 3-19-94, 1994. E. Construction completed: 3-19, 1994.
 F. Bore hole diameter: 8 inches.
 G. Casing: Diameter: 4 1/2 ID, 5 OD in.; Type of material: PVC
 Wall thickness: 0.12 in. Joints: Welded/Glued/Threaded/Other: Glued; Guides at: 0 ft.
 Length(s) and placement(s) depth from 0 ft. to 50 ft. from 0 ft. to 0 ft.
 H. Screen: 4 1/2 ID, 5.0 OD in.; Type of material: PVC
 Screen openings (slot size): 0.16; Trade name: Roberts; Guides at: 0 ft.
 Length(s) and placement(s) depth from 50 ft. to 70 ft. from 170 ft. to 190 ft.
 I. Gravel pack interval(s) from 10 ft. to 190 ft. from 0 ft. to 0 ft. Grade size: 20
 J. Grouted/Sealed from 10 ft. to 6 ft. with Bentonite
 from 6 ft. to 0 ft. with Drill Cuttings
 K. Drilling method: Rotary L. Drilling fluid: Bentonite
 M. Well development technique (total time and method): Air Lifted 2 hr
 N. Will chemicals or fertilizer be injected into the distribution system? Yes No

GEOLOGIC MATERIALS LOGGED

DEPTH IN FEET FROM	TO	DESCRIPTION	DEPTH IN FEET FROM	TO	DESCRIPTION
<u>0</u>	<u>10</u>	<u>Surface Sand</u>			
<u>10</u>	<u>25</u>	<u>Sand</u>			
<u>25</u>	<u>60</u>	<u>Gravel</u>			
<u>60</u>	<u>175</u>	<u>Sandstone</u>			
<u>175</u>	<u>190</u>	<u>Water Sand</u>			
<u>190</u>	<u>190</u>	<u>Clay</u>			

(Additional sheets may be submitted)

I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Leonard H. Chubb 3-23-94 Sam Carter 3/24/94
 Water Well Contractor's Signature Date Water Well Owner's Signature Date

Water Well 742 (G86157) Water Well Registration

February 1999
DWR Form 981

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration No. G-86157 Sequence No. 97608 Registration Date: 12-4-95
Owner Code No. 43200 Receipt No. 83970 12 Upper-Niobrara NRD

1. Well Owner Bruce Traister Telephone Number (308) 665-2353
Address Box 215
City Wasson State NE Zip Code 69354

2. Drilling Firm Chubb Water Wells Telephone Number (308) 665-1418
Address 11 W. 1st St. Contractor's License No. 89625 Pump Installer License No. _____
City Conroy State NE Zip Code 69354

3. Permit Number(s) _____

4. Purpose of well (indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☒ Livestock ☐ Monitoring
☐ Observation ☐ Public Water Supply (with spacing 104-618) ☐ Public Water Supply (without spacing) ☐ Recovery
Other _____
(indicate one)

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☐ Yes ☒ No B. Registration number of abandoned well: _____
C. Replacement well is _____ feet from abandoned well. D. Abandoned well last opened _____, 19____
E. Original well pump column size _____ inches. F. Abandoned well plugged _____, 19____

6. A. Well location: N 1/4 NW 1/4 of Section 31, Township 29 North, Range 50 East, DeWitt County.
B. The well is 435 feet from the North/South section line and 2340 feet from the East/West section line.
C. Street address or block, lot and subdivision, if applicable: _____
D. Location of water use, if applicable (give legal descriptions): _____
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference locust(s), if applicable: _____

7. Pump Information.

Is pump installed at this time? ☒ Yes ☐ No

If yes, complete items A through E.

If no, complete items A and D with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 20 gallons per minute. Measured ☐ or Estimated ☒
B. Pump column diameter: 2 inches. C. Length of pump column: 90 feet.
D. Pumping equipment installed: cat 2, 1995. E. Brand/Type: 2 hp. Submer. W.

8. Well Construction Information

A. Total well depth 60 feet. B. Static water level 18 feet. C. Pumping water level 25 feet.

D. Construction began: Sept 4, 1995. E. Construction complete: Sept 4, 1995.

F. Bare hole diameter 9 inches

G. Casing: Diameter 6.15 ID 6.125 OD inches. Type of material: PVC

Wall thickness: .255 Inches. Joints: Welded/Glued/Threaded/Other: _____ Guides at 10.25 ft.

Length(s) and placement(s) depth from 0 ft. to 40 ft. from — ft. to — ft.

H. Screen: 6.115 ID 6.625 OD in: Type of material PVC

Screen openings (slot size): .016 Trade name: Polystyrene Grinders at: None

Length(s) and placement(s) depth from 40 ft. to 60 ft. from — ft. to — ft.

1. Gravel pack interval(s) from 10 ft. to 60 ft. from ft. to ft. Grade size 2A

1. Grouted/Sealed from 0 ft. to 10 ft. with Drill Cylinders

(b)(7)(C)

from _____ ft. in _____ ft. with _____ (type) _____

R. Drilling method: Rotary L. Drilling fluid: Water

M. Well development technique (tool time and methods)

N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes No

If yes, what will be used: _____

DEPTH IN FEET
FROM TO

[illegible]

DEPTH IN FEET
FROM TO

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be from a notebook or a set of legal pads. The edges of the paper are slightly irregular, suggesting it might be a scan of a physical document. There is no handwriting or other markings on the page.

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

James H. Chubb
Water Well Contractor's Signature

10-25-95
Date

Eric. Persson
Water Well Owner's Signature

11-18-93
Date

Well 743 (G016423) Water Well Registration

October 1995
DEN Form 145

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES Water Well Registration

Page set 1 of 1

FOR DEPARTMENTAL USE ONLY			
Registration Date	Sequence No.	Registration No.	
7-17-2000	122883	G-106423	
Order Code No.	Receipt No.	Upper Nebraska Water	
37704	2101		

1. Well Owner JOHN HANNING
Address 1761 RIVER ROAD BOX 276
City HAYSLAND

Telephone Number (308) 666-2167

State NE Zip Code 68334

2. Drilling Firm CHUBB WATER WELLS
Address 11 West Ash Creek Road
City Crawford

Telephone Number (308) 663-1440

Contractor's License No. 19035

State NE Zip Code 68329

3. Permit Number(s)

4. Purpose of well (Indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☒ Livestock ☐ Monitoring
☐ Observation ☐ Public Water Supply (with spacing 46-635) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Agriculture
☐ Other

5. Replacement and abandoned well information.

A. Is this well a replacement well? Yes ☒ No

B. Replacement well is feet from abandoned well.

C. Original well pump column size inches.

D. Location of water use of abandoned well.

E. Registration number of abandoned well.

F. Abandoned well last operated

G. Completion of original well abandonment on

6. A. Well location: SW 1/4 of the NE 1/4 of Section 16, Township 30 North, Range 51 W, DAWES County.
B. The well is feet from the North/South section line and feet from the East/West section line
C. Street address or block, lot and subdivision, if applicable.
D. Location of water use, if applicable (give legal descriptions).
E. If for irrigation, the land to be irrigated is acres.
F. Well reference letter(s), if applicable.

7. Pump Information.

Is pump installed at this time? Yes ☒ No

If yes, complete items A through F.

If no, complete items A and D with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 0.00 gallons per minute. Measured ☐ Estimated ☐

B. Pump column diameter: inches. C. Length of pump column: 0 feet.

D. Pumping equipment installed: E. Brand/Type:

F. Pump installed by: Contractor ☐ Owner ☐ Pump Installer ☐ License No.

-- CONTINUED ON NEXT PAGE --

G-106423

Page 22 of 1
County.

Well Location: SW 1/4 of the NE 1/4 of Section 26, Township 30 North, Range 51 E, DAKS
The well is 1800 feet from the E section line and 2700 feet from the N section line

A. Total well depth, 140 feet. B. Static water level, 70 feet. C. Pumping water level, 100 feet.
 [] Estimated or [] Measured

Length(s) and placement(s) depth from 0	ft. to 120	ft. from	ft. to	ft.
---	------------	----------	--------	-----

Length(s) and placement(s) depth from 120	ft. to 140	ft. from	ft. to	ft. Golden st	ft.
---	------------	----------	--------	---------------	-----

from ft. to ft. with

L. Drilling field: NEGATIVE

11. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes II No

If yes, what will be used:

DEPTH IN FEET
FROM TO

DESCRIPTION

DEPTH IN FEET
FROM TO

DESCRIPTION

2	4	SOP SOIL
1	63	SILTSTONE
63	70	BUTTE ROCK
70	140	WATER BEARING SANDSTONE

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Edward K. Schulz
Water Well Contractor's Signature

85/06/59
Date

Water Well Owner's Signature _____ Date _____

Water Well 775 (G95954) Water Well Registration

October 1995
SWS Form 145

STATE OF IOWA DEPARTMENT OF WATER RESOURCES Water Well Registration

Page not 1 of 1

FOR DEPARTMENTAL USE ONLY

Registration Date 5-11-98 Sequence No. 112372 Registration No. G-095954
Owner Code No. 51178 Receipt No. 96235 Upper Niobrara-White W

1. Well Owner: JOHN COTTEN
Address 369 COTTEN ROAD
City CHARLESTON

Telephone Number (319) 663-1300

State IA Zip Code 52003

2. Drilling Area: CHINA WATER WELLS
Address 11 West Oak Creek Road
City CHARLESTON

Telephone Number (319) 663-1418

Contractor's License No. 39035

State IA Zip Code 52003

3. Permit Number(s)

4. Purpose of well (indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☐ Livestock ☐ Monitoring
☐ Observation ☐ Public Water Supply (with spacing 45-ft) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Aquaculture
☐ Other

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☐ Yes ☒ No

B. Replacement well is feet from abandoned well.

C. Original well pump column size: inches.

D. Location of water use of abandoned well:

E. Registration number of abandoned well:

F. Abandoned well last operated

G. Completion of original well abandoned on

6. A. Well location: NE 1/4 of the SE 1/4 of Section 31, Township 26 North, Range 31 W, SWIS County.
B. The well is feet from the North/South section line and feet from the East/West section line.
C. Street address or block, lot and subdivision, if applicable:
D. Location of water use, if applicable (give legal description):
E. If for irrigation, the land to be irrigated is acres.
F. Well reference letter(s), if applicable:

7. Pump Information.

Is pump installed at this time? ☒ Yes ☐ No

If yes, complete items A through F.

If no, complete items A and B with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: gallons per minute. Measured ☐ Estimated ☒

B. Pump column diameter: inches. C. Length of pump column: feet.

D. Pumping equipment installed: 06/10/98 E. Brand/Type: DUNSTON / SUBMERSIBLE

F. Pump installed by: Contractor ☐ Owner ☐ Pump installer ☐ License No. 39035

-- CONTINUED ON NEXT PAGE --

Water Well 775 (G95954) Water Well Registration

SECOND PART OF REGISTRATION REPORT FOR: Well Owner **JOHN CUNNEE**
Well Location: NW 1/4 of the SW 1/4 of Section 33, Township 10 North, Range 52 N, **DANES**
The well is _____ feet from the _____ section line and _____ feet from the _____ section line

Page 222 of 2
County.

A. Well Construction Information

A. Total well depth: 129 feet. B. Static water level: 147 feet.

C. Pumping water level: 120 feet.
(X) Estimated or () Measured

H. Well Construction began 01/04/78 S. Well Construction completed: 06/06/78

F. Bore hole diameter 9 inches.

6. Plain Castings: Diameter 4.451 ID 4.910 OD inches. Type of material PVC

Wall thickness: .496 inches. Joints close

Length(m) and placement(s) depth from	ft. to 240	ft. from	ft. to	ft.
---------------------------------------	------------	----------	--------	-----

1. Bureau: 4.494 TD 4.130 OD in; Type of material: MC

Series openings (slot size): .010 Trade name: ROBERTS

Length(s) and placement(s) depth from 200 ft. to 210 ft. from ft. to ft. Sudden at ft.

1. Gravel pack interval(s) from 15 ft. to 210 ft. from 24. to ft. Gravel sizes 24

J. Ground/hailed from 9 ft. to 15 ft. with SIGNIFICANT CHIPS

IRON 8 FT. CO 3 FT. WITH ORILLICUTTING

2. Drilling fluids: OILBASE
 3. Drilling fluids: WATERBASE
 4. Well development techniques (total time and method): TEST RUNS (1 hr)

2. Will chemicals, fertilizer or antiferrous be injected or utilized in the system? -- Yes ☒ No ☐
If yes, what will be used: _____

D. Custodial Materials Logged

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATION
500 5TH AVENUE
NEW YORK 17, N.Y.

REC'D 10/21/81

DATE TO PAY
FROM TO

自德意志帝国成立以来

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1	15	CEATL
15	45	AND
45	105	WILSON
105	145	AND
145	160	SANDSTONE
160	210	WATKINS

1. NAME _____
 2. DATE _____
 3. PERIOD _____
 4. TEACHER _____
 5. SUBJECT _____
 6. TOPIC _____
 7. OBJECTIVES _____
 8. CONTENT _____
 9. ASSESSMENT _____
 10. REFLECTION _____
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 180. REMARKS _____
 181. SIGNATURE _____
 182. DATE _____
 183. PERIOD _____
 184. TEACHER _____
 185. SUBJECT _____
 186. TOPIC _____
 187. OBJECTIVES _____
 188. CONTENT _____
 189. ASSESSMENT _____
 190. REFLECTION _____
 191. ATTACHMENTS _____
 192. REMARKS _____
 193. SIGNATURE _____
 194. DATE _____
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 196. TEACHER _____
 197. SUBJECT _____
 198. TOPIC _____
 199. OBJECTIVES _____
 200. CONTENT _____
 201. ASSESSMENT _____
 202. REFLECTION _____
 203. ATTACHMENTS _____
 204. REMARKS _____
 205. SIGNATURE _____
 206. DATE _____
 207. PERIOD _____
 208. TEACHER _____
 209. SUBJECT _____
 210. TOPIC _____
 211. OBJECTIVES _____
 212. CONTENT _____
 213. ASSESSMENT _____
 214. REFLECTION _____
 215. ATTACHMENTS _____
 216. REMARKS _____
 217. SIGNATURE _____
 218. DATE _____
 219. PERIOD _____
 220. TEACHER _____
 221

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Leonard V. Schulz
Water Well Contractor's Signature

● 考友 ●

Bert Oetters 4/20/98
Enter Well Quare's Signature Date

Enter Well Owner's Signature

৫৫৫

Water Well 782 (G134034) Water Well Registration

Mail to:
DNR
PO Box 94676
Lincoln, NE 68509-4676
Phone (402) 471-2363

06/06/2005 - 168230 100% f (2)
Department of Natural Resources

January 2004
DNR Form 145

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

Registration Date 6-6-2005 Sequence No. 168230 Registration No. W-134034
Owner Code No. 73232 Receipt No. R18128 Nebraska Division of Water

1. a. Well Owner's First Name Chuck Last Name Turnbull
b. Company Name _____
c. Correspondent Name _____ Attention _____
Address 377 Shelton Telephone 402-3460
City Chadron State NE Zip 69337 Telephone (208) 4828
2. a. Contractor's License No. _____ Contractor's Name Peelstick
Contractor's Email Address _____
b. Drilling Firm Name Midwest Farm Service
Address _____
City Scottsbluff State _____ Zip _____ Telephone _____
Drilling Firm's Email Address _____
3. a. Well location NE 1/4 of the NE 1/4 of Section 28, Township 29 North, Range 50E, Dawson County.
b. Natural Resources District 11NW
c. The well is 600 feet from the (N) 1/2 section line and 600 feet from the (E) 1/2 section line
(circle one) (circle one)
or Latitude Degree _____ Minute _____ Second _____
Longitude Degree _____ Minute _____ Second _____
d. Street address and subdivision, if applicable _____
Block _____ Lot _____
e. Location of water use, if applicable (give legal descriptions) NE 1/4 sect. 28 NW 1/4 sect. 27 29N50W
f. If for irrigation, the land to be irrigated is 80 acres.
g. Well reference letter(s), if applicable HSS PWSID
4. Permits
Management Area Permit Number N/A Surface Water Permit Number _____
Geothermal Permit Number _____ Industrial Permit Number _____
Municipal Permit Number _____ Transfer Out-Of-State Permit Number _____
Well Spacing Permit Number _____ Conduer Permit Number _____
HHS _____ Other Permit Number _____
NDEQ _____
5. Purpose of well (indicate one) ☐ Aquaculture ☐ Commercial/Industrial ☐ Dewatering (over 90 days)
☐ Domestic ☐ Ground Heat Exchanger ☐ Groundwater Source Heat Pump ☒ Irrigation ☐ Injection
☐ Livestock ☐ Monitoring ☐ Observation ☐ Public Water Supply (with spacing (40-420))
☐ Public Water Supply (without spacing) ☐ Recovery ☐ Other _____
(indicate one)
6. Wells in a Series.
a. Is this well a part of a series? ☐ Yes go to part b of this section ☒ No go to part 7 of this application
b. If one or more of the wells in the series is currently registered, give the well registration number _____
c. How many wells in the series are you registering at this time? _____
7. Replacement and abandoned well information.
a. Is this well a replacement well? ☐ Yes ☒ No
b. Registration number of abandoned well _____ If not registered, date abandoned well was constructed (m) 1 (d) 1 (y) 1
c. Replacement well is _____ feet from abandoned well. d. Abandoned well last operated (m) 1 (d) 1 (y) 1
e. Original well pump column size _____ inches. f. Completion of original well abandonment on (m) 1 (d) 1 (y) 1
g. Location of water use of abandoned well _____

Water Well 782 (G134034) Water Well Registration

H-134034

8. Pump Information
- a. Is pump installed at this time ☒ Yes ☐ No
 Is pump installed by well owner in section 1? ☐ Yes ☐ No Is pump installed by contractor in section 2? ☐ Yes ☐ No
 If pump installed by pump installer, please fill out license number below
- b. Pump Installer's License No. _____ Pump Installer's Name _____
 Pump Installer's Email Address _____
 Pump Installer's Firm Name _____
 Pump Installer's Firm Address _____
 City _____ State _____ Zip _____ Telephone _____
 Pump Installer's Firm Email Address _____
- c. Pumping rate 500 gallons per minute ☐ Measured ☐ Estimated
 d. Drop pipe diameter _____ inches e. Length of drop pipe _____ feet
 f. Pumping equipment installed 10 1/2 1/2 g. Pump Brand _____
 h. This well is designed and constructed to pump less than 50 gpm ☐ Yes ☒ No

9. Well Construction Information
- a. Total well depth 100 feet b. Static water level 20 feet
 c. Pumping water level _____ feet d. Well Construction began (month) _____ / (year) _____
 e. Well Construction completed (month) _____ / (year) 1960 f. Bore hole diameter in inches Top _____ Bottom _____
 g. Casing and Screen Joints are Welded ☐ Glued ☐ Threaded ☐ Other _____

10. Well Construction (Casing & Screen) - c, d, e, & g measurements should be in inches to three decimal places

a	b	c	d	e	f	g	h
Placement Depth in Feet	Casing or Screen	Inside Diameter	Outside Diameter	Wall Thickness	Screen Slot Size	Type of Material	Trade Name
From To							

11. Grout and Gravel Pack

Placement Depth in Feet	Grout or Gravel Pack	Material Description
From To		

12. Geologic Materials Logged

Depth in Feet	Description	Depth in Feet	Description
From To		From To	

(Additional sheets may be submitted)

13. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Water Well Contractor's Signature _____ Date 5/31/05
 Well Owner's Signature Chuck Turnbull Date 5/31/05
 If Contractor is unknown or Deceased

Water Well 783 (G150312) Water Well Registration

Mail to
Department of Natural Resources
PO Box 94676
Lincoln, NE 68509-4676
Phone (402)471-2363

May 2007
DDNR Form 1-03

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION

Please indicate NA for items unknown

FOR DEPARTMENT USE ONLY

Date Filed 9/2/07 Owner Code No. 43206 Registration No. 6-50312
09022018 192378 WNRF(3) Receipt R23250 UNW NRD
Well ID

1. a. Well Owner's First Name BRUCE Last Name TROESTER
OR Company Name _____
b. Attention Name _____
c. Address 3143 RIVER ROAD
City MARSLAND State NE Zip 69354 Telephone _____
2. a. Contractor's License No. 39035 Contractor's Name LEONARD CHUBB
Contractor's Email Address _____
b. Drilling Firm Name CHUBB WATER WELLS
Address 3632 HWY. 20
City CRAWFORD State NE Zip 69339 Telephone 308.665.1418
Drilling Firm's Email Address _____
3. a. Well location NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28, Township 29 North, Range 50 E ☒ W ☐ DAWES County.
b. Natural Resources District UPPER NIOBRARA-WHITE
c. The well is _____ feet from the (N ☐ S ☐) section line and _____ feet from the (E ☐ W ☐) section line
OR Latitude Degree 42 Minute 27 Second 59
Longitude Degree 103 Minute 11 Second 21
d. Street address and subdivision, if applicable _____
Block _____ Lot _____
e. Location of water use (give legal descriptions) SAME AS 3A
f. If for irrigation, the land to be irrigated is _____ acres. Location of water use is required on all wells
g. Well reference letter(s), if applicable _____ HHSS PWSID _____
4. Permits
Management Area Permit Number _____ Surface Water Permit Number _____
Geothermal Permit Number _____ Industrial Permit Number _____
Municipal Permit Number _____ Transfer Out-Of-State Permit Number _____
Well Spacing Permit Number _____ Conduct Permit Number _____
HHSS _____ Other Permit Number _____
NDEQ _____
5. Purpose of well (Indicate one) ☐ Aquaculture ☐ Commercial/Industrial ☐ Dewatering (over 90 days)
☐ Domestic ☐ Ground Heat Exchanger ☐ Groundwater Source Heat Pump ☐ Irrigation ☐ Injection
☒ Livestock ☐ Monitoring ☐ Observation ☐ PK (for irrigation) ☐ Public Water Supply (with spacing (44-637))
☐ Public Water Supply (without spacing) ☐ Recovery ☐ Other _____
(Further description of use can be provided under other) (Excludes use)
6. Wells in a Series.
a. Is this well a part of a series? ☐ Yes go to part b of this section ☒ No go to part 7 of this application
b. If one or more of the wells in the series is currently registered, give all well registration numbers _____
c. How many wells in the series are you registering at this time? _____

Water Well 783 (G150312) Water Well Registration

6-150312

7. Replacement and decommissioned/modified well information.

- a. Is this well a replacement well? ☐ Yes ☒ No go to part 8 of this application
 b. Registration number of original well _____ If not registered, date original well was constructed (m) ____ / (d) ____ / (y) ____
 c. Original well last operated (m) ____ / (d) ____ / (y) ____ d. Replacement well is _____ feet from original well.
 e. Location of water use of original well _____

Please Select One:

- 2.1. ☐ Original water well decommissioned on (m) ____ / (d) ____ / (y) ____ OR
 2. ☐ I hereby certify that the original water well will be decommissioned within 180 days after such construction of the replacement water well. OR
 3. ☐ I hereby certify that the original water well will be modified and equipped to pump 50 gallons per minute or less within 180 days after such construction of the replacement water well. It will be used for one of the following: a. ☐ Livestock
 b. ☐ Monitoring c. ☐ Observation
 d. ☐ nonconsumptive or de minimus use approved by the applicable natural resources district. State use: _____
 If 3d is chosen, NRD signature is required. (Signature can be submitted on NRD Approval form to DNR prior to registration)
 NRD signature _____ Date _____ OR
 4. ☐ Decommission/Modification Certification form is submitted by landowner.

8. Pump Information.

(Pump information is required if registering a pit)

- a. Is pump installed at this time ☐ Yes ☒ No
 Is pump installed by well owner in section 1? ☐ Yes ☐ No Is pump installed by contractor in section 2? ☐ Yes ☐ No
 If pump installed by pump installer, please fill out license number below
 b. Pump Installer's License No. _____ Pump Installer's Name _____
 Pump Installer's Email Address _____
 Pump Installer's Firm Name _____
 Pump Installer's Firm Address _____
 City _____ State _____ Zip _____ Telephone _____
 Pump Installer's Firm Email Address _____
 c. Pumping rate _____ gallons per minute Measured _____ Estimated _____
 d. Drop pipe diameter _____ inches e. Length of drop pipe _____ feet
 f. Pumping equipment installed (m) ____ / (d) ____ / (y) ____ g. Pump Brand _____
 h. This well is designed and constructed to pump less than 50 gpm ☒ Yes ☐ No (8H is required on ALL wells)

9. Well Construction Information.

- a. Total well depth 70 feet. b. Static water level 24 feet. c. Pumping water level 24 feet
 d. Well Construction Began (m) 5 / (d) 6 / (y) 08 e. Well Construction Completed (m) 5 / (d) 6 / (y) 08

Wells drilled prior to stays or moratoriums require NRD signature

NRD signature _____ Date _____
 (Signature can be submitted on NRD Approval form to DNR prior to registration)

- f. Bore hole diameter in inches Top 9 Bottom 9
 g. Casing and Screen Joints are Welded ☐ Glued ☒ Threaded ☐ Other _____

10. Well Construction (Casing & Screen)- c, d, e, & g measurements should be in inches to three decimal places

a Placement Depth in Feet		b Casing or Screen	c Inside Diameter	d Outside Diameter	e Wall Thickness	f Screen Slot Size	g Type of Material	h Trade Name
From	To							
0	50	CASING	4.454	4.950	0.248			EAGLE
50	70	W SCREEN	4.454	4.950	0.248	.015		CWW

8-150312

*Placement Depth in Feet		Grout or Gravel Pack	Material Description
From	To		
0	5	FILLDIRT	NATIVE SOIL
5	9	GROUT	BENTONITE CHIPS
9	70	GRAVEL PAC	

[illegible][illegible]

13. I hereby certify that the information provided on this registration is true and accurate to the best of my knowledge.


5-23-08

Water Well Contractor's Signature Date Well Owner's Signature Date
 (not required for pits) (if Contractor is unknown or Deceased or for pits)

Sections 9F, 9G, 10, 11 & 12 are not required if registering a plt.

Water Well 801 (G116402) Water Well Registration

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION

Fee Paid \$60.00 DNR Cash Fund SC
 HHSS Fee \$30.00 HHSS-DNR Cash Fund SC
 Get Billing 830

FOR DEPARTMENT USE ONLY

NOL ID 10262508211328 NOL Status Accepted Well Status A Registration Code G-116402 Print
 Owner ID 61027 NOL Date 07/10/2002 Call Up Code Registration Date 07/10/2002 Add
 Seq Num W1301 Call Up Date

Wednesday, July 10, 2002

Page 1 of

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

NOL ID 10262508211328 NOL Status Accepted Well Status A Registration Code G-116402 Print
 Owner ID 61027 NOL Date 07/10/2002 Call Up Code Registration Date 07/10/2002 Add
 Seq Num W1301 Call Up Date

1a Owner's Name Mike groves
 b Company Name
 c Correspondent Name Attention Name
 Address 1302 mississippi
 City: allamore State: NE Zip Code 69301 Phone

2a HHSS Contractor Lic ID: 165492 Contractor's Name: Leonard H. Chubb
 Contractor's License No: 39035 Contractor's Email Address: lchubb@mojcity.com
 b Drilling Firm Name Chubb Water Wells
 Address 11 West Ash Creek Road
 City: Crawford State: NE Zip Code 69339 Phone 308 - 665-1418
 Drilling Firm's Email Address

3a Well Location SWNW of Section 19 Township 30 North, Range 50 W (E/W), Dowes County
 b Natural Resource District Upper Nebraska-White
 c The well is feet from the (N/S) section line and feet from the (E/W) section line
 GPS: or Latitude: 42 33' 49.00" Longitude: -103 14' 24.00"
 d Street address or block, lot and subdivision, if applicable: Block No Lot
 e Location of water use, if applicable (give legal descriptions) sw1/4nw1/4s19r30s50
 f If for irrigation, the land to be irrigated is Acres
 g Well Reference letter(s), if applicable

4 Permits	Permits Number	Date	Permits	Permits Number	Date
Management Area Permit			Transfer Out Of State		
Surface Water			Well Spacing		
Geothermal			Conduct Water		
Industrial			Municipal		
Industrial Transfer Notice			Other		

5 Purpose of Well Domestic Other
 Notes

6 Wells in a Series

Water Well 801 (G116402) Water Well Registration

Wednesday, July 10, 2002

Page 2 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

FOR DEPARTMENT USE ONLY

NOL ID	10202508211328	NOL Status	Accepted	Well Status	A	Registration Code	G-116402	Print
Owner ID	61027	NOL Date	07/10/2002	Call Up Code		Registration Date	07/10/2002	Add
Seq Num	14381	Call Up Date						

a. Is this well a part of a series? ☐

b. If one or more of the wells in the series is currently registered, give the well registration number

c. How many wells in the series are you registering at this time?

7. Replacement and abandoned well information Replacement Number

a. Is this well a replacement well? ☐

b. Registration number of abandoned well
If not registered, date abandoned well was constructed

c. Replacement well is feet from abandoned well.

d. Abandoned well last operated

e. Original well pump column size: inches.

f. Completion of original well abandonment on

g. Location of water use of abandoned well

8. Pump Information

a. Is pump installed at this time? ☒

Is pump installed by well owner in section 17 ☐ Is pump installed by contractor in section 27 ☒

Else installed by pump installer.

b. HNRS Installer's License ID.

Pump Installer's License No. Pump Installer's Name

Pump Installer's Email Address

Pump Installer's Firm Name

Pump Installer's Firm Address

City: State Zip Code 68000 Phone

Pump Installer's Firm Email Address

c. Pumping Rate 15 gallons per minute E measured or estimated

d. Drop pipe diameter 1.00 inches e. Length of drop pipe 203 feet.

f. Pumping equipment installed 07 / 06 / 2002 g. Pump Brand dometest

h. This well will be used to pump less than 50 gpm ☒

9. Well Construction Information

a. Total well depth 220 feet.

b. Static Water Level 70 feet.

c. Pumping Water Level 200 feet.

d. Well construction began: 07 / 02 / 2002

e. Well construction completed: 07 / 06 / 2002

f. Bore hole diameter (inches) Top 9 Bottom 9

g. Casing and Screen Joints Glued Other

10 Well Construction (Casing and Screen)

From Depth	To Depth	Inside Diam	Outside Diam	Thickness	Screen Slot Size	Material	Trade name	Gas
6	160	4.454	4.950	.498		pvc	roberts	
160	220	4.454	4.950	.498	.016 pvc		roberts	

Water Well 801 (G116402) Water Well Registration

Wednesday, July 10, 2002

Page 3 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

(FOR DEPARTMENT USE ONLY)

NOL ID	10262508211326	NOL Status	Accepted	Well Status	A	Registration Code	G-116402	Print
Owner ID	61027	NOL Date	07/10/2002	Call Up Code		Registration Date	07/10/2002	Add
Seq Num	1413.01	Call Up Date						

11 Well Construction (Grout and Gravel)

NOL ID	From Depth	To Depth	Material	
102625082113	6	15	bentonite chips	1
102625082113	15	220	2a	2

12 Geolog Material Logged

NOL ID	From Depth	To Depth	Description
102625082113	0	3	surface sand
102625082113	3	12	white rock
102625082113	12	60	sand
102625082113	60	70	sandstone with hard ledges
102625082113	70	190	water bearing sandstone with hard ledges
102625082113	190	200	water bearing sand
102625082113	200	220	sandstone

NO Return to NOL

Return to NOL

Duplicate

Unbo

NOTIFY NOL

Water Well 836 (G100106) Water Well Registration

October 1995
BWS Form 105

STATE OF KANSAS DEPARTMENT OF WATER RESOURCES Water Well Registration

Page not 1 of 1

FOR DEPARTMENTAL USE ONLY

Registration Date 4-5-99 Sequence No. 117825 Registration No. G-100106
Owner Code No. 104104 Receipt No. 100932 Upper W. Shewana - White and

1. Well Owner ARLNE + BRYN WHITE
Address 7608 DODGE ST.
City BERNARD

Telephone Number (303) 487-3936

State KC

Zip Code 69248 +

2. Drilling Firm CHUBB WATER WELLS
Address 11 West Ash Creek Road
City Crawford

Telephone Number (303) 653-1418

Contractor's License No. 31035

State KC

Zip Code 69339 +

3. Permit Number(s)

4. Purpose of well (indicate one): ☐ Dewatering (over 30 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☐ Livestock ☐ Monitoring
☐ Observation ☐ Public Water Supply (with spacing 45-630) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Agriculture
☐ Other

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☐ Yes ☒ No

B. Registration number of abandoned well: _____

D. Replacement well is _____ feet from abandoned well.

D. Abandoned well last operated _____

E. Original well pump column size: _____ inches.

F. Completion of original well abandonment on _____

G. Location of water use of abandoned well: _____

6. A. Well Location: SE 1/4 of the SW 1/4 of Section 23, Township 30 North, Range 31 W, 21N7S County.
B. The well is 1330 feet from the North South section line and 550 feet from the East section line.
C. Street address or block, lot and subdivision, if applicable: NE
D. Location of water use, if applicable (give legal description):
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference letter(s), if applicable:

7. Pump Information.

Is pump installed at this time? ☐ Yes ☒ No

If yes, complete items A through F.

If no, complete items A and B with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 4.00 gallons per minute. Measured ☐ Estimated ☐

B. Pump column diameter: _____ inches. C. Length of pump column: _____ feet.

D. Pumping equipment installed: _____ E. Brand/Type: _____

F. Pump installed by: Contractor ☐ Owner ☐ Pump Installer ☐ License No. _____

-- CONTINUED ON NEXT PAGE --

Water Well 836 (G100106) Water Well Registration

SECOND PAGE OF REGISTRATION REPORT FOR: Well Owner ARLON + BRITT PHILLIPS
Well Location: NE 1/4 of the SE 1/4 of Section 23, Township 36 North, Range 51 W, DAVES
The well is _____ feet from the _____ section line and _____ feet from the _____ section line

Page 302 of 302
CHERRY.

2. Wall Construction Interactions

1. Total well depth: 220 feet. 2. Static water level: 145 feet.

c. Tarping water levels: 150 feet.
111 Estimated or 1-1 Measured

D. Well construction begin 03/26/98 E. Well construction completed: 03/26/98

F. Core hole diameter 9 inches.

6. Blade Design: Diameter 4.951 ID 4.939 OD inches. Type of material etc

Wall thickness .116 inch(es). Joints G100

length(s) and placement(s) depth from 0 ft. to 200 ft. from 0 ft. to

E. Screen: 4.434 ID 4.350 OD 101 Type of material FR

Screen creasing (alot size), .015 Trade name: KONTAKS

Length(s) and placement(s) depth from 100 ft. to 270 ft. from ft. to ft. Golden at 210 ft.

1. Gravel pack interval(ft) from 13	ft. to 220	ft. from	ft. to	ft. to	ft. Grade size: 20

J. Grouted/Sealed from 5 ft. to 10 ft. with BENTONITE CHIPS

[illegible]

X. Drilling method: ROTARY 1. Drilling fluid: WFO

11. Well development technique (total time and method): TEST PROGRAM 2.5HR

N. Will chemicals, fertilizer

9. Geologic Materials Logged

[illegible]

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Leonard W. Schuch 03/31/88
Hager Hill Contractor's Signature Date

Walter Bell 4-2-88
Walter Bell Owner's Signature Date

Well 841 (G100105) Water Well Registration

October 1983
WTR Form 245

STATE OF NEBRASKA
DEPARTMENT OF WATER RESOURCES
Water Well Registration

Page out 1 of 1

FOR DEPARTMENTAL USE ONLY		
Registration Date <u>4-5-1999</u>	Sequence No. <u>117824</u>	Registration No. <u>G-100105</u>
Owner Code No. <u>10104</u>	Receipt No. <u>100932</u>	<u>Upper Nebraska-White m</u>

1. Well Owner ARLEE & MATTY PHILLIPS
Address 7608 DODGE RD.
City WINSTONFORD

Telephone Number (308) 487-3976

State NE Zip Code 69110

2. Drilling Firm CHUBB WATER WELLS
Address 11 West Ash Creek Road
City Crawford

Telephone Number (308) 468-2418
Contractor's License No. 31935

State NE Zip Code 69139

3. Permit Number(s)

4. Purpose of well (Indicate one): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Geothermal ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☐ Irrigation ☐ Livestock ☐ Reticulation
☐ Observation ☐ Public Water Supply (with spacing 46-638) ☐ Public Water Supply (without spacing) ☐ Recovery ☐ Aquaculture
Other _____

5. Replacement and abandoned well information.

A. Is this well a replacement well? ☐ Yes ☒ No

B. Registration number of abandoned well: _____

C. Replacement well is _____ feet from abandoned well.

D. Abandoned well last operated _____

E. Original well pump column size: _____ inches.

F. Completion of original well abandonment on _____

G. Location of water use of abandoned well: _____

6. A. Well location: SW 1 of the SE 1 of Section 22, Township 30 North, Range 31 W, DAVIS County.
B. The well is 340 feet from the South section line and 1400 feet from the West section line.
C. Street address or block, lot and subdivision, if applicable: XX
D. Location of water use, if applicable (give legal descriptions):
E. If for irrigation, the land to be irrigated is _____ acres.
F. Well reference letter(s), if applicable: _____

7. Pump Information.

Is pump installed at this time? ☐ Yes ☒ No

If yes, complete items A through F.

If no, complete items A and B with estimated information for those wells in which pump will be installed.

A. Actual pumping rate, if applicable: 8.00 gallons per minute. Measured ☐ Estimated ☐

B. Pump column diameter: _____ inches. C. Length of pump column: 6 feet.

D. Pumping equipment installed: _____ E. Brand/Type: _____

F. Pump installed by: Contractor ☐ Owner ☐ Pump Installer ☐ License No. _____

-- CONTINUED ON NEXT PAGE --

Well 841 (G100105) Water Well Registration

SECOND PAGE OF REGISTRATION REPORT FOR: Well Owner ARLINE + DEWITT PHILLIPS

Well Location: SE 1/4 of the SW 1/4 of Section 22, Township 10 North, Range 51 E, T10N R51E

The well is 530 feet from the South section line and 1070 feet from the West section line.

G-100105

Page not in file
Country.

8. Well Construction Information

1. Total well depth: 220 feet. 2. Static water level: 155 feet.

c. Pumping water level: 150 feet.

[] Indexed or [] Searched

D. Well Construction began 03/25/99 E. Well Construction completed: 03/25/99

R. Core hole diameter 9 inches.

C. Plain Casting: Diameter 4.431 ID 4.950 OD inches. Type of material PVC

Wall thickness: .495 Inch(es). Joints: GLUED

[illegible]

H. Screen	4.854	ID	4.950	QD In	Type of material	FIG

Screen openings (slot size): .016 Trade name: ROBERTS

Depth(s) and placement(s) depth from 200 ft. to 220 ft. from ft. to ft. Golden at 210 ft.

I. Gravel pack interval(s) from	ft. to	ft.	from	ft. to	ft.	Grate above	ft.
--	---------------	------------	-------------	---------------	------------	--------------------	------------

J. Granted/Sealed from 5 ft. to 10 ft. with DELYONITE CHIPS

from 14 ft. to 16 ft. with

K. Drilling method: ROTARY

E. Drilling Fluids 300

H. Well development technique (total time and methods).

11. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes XX No

If yes, what will be used:

9. Geologic Materials Logged

[illegible]

10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Leonard H. Chubb
Water Well Contractor's Signature

03/21/59
Date

Water Well Owner's Signature

11-2 99
BUREAU

Water Well 851 (G000345A) Water Well Registration

Submit to:
Department of Natural
Resources
301 Centennial Hall South
P.O. Box 94676
Lincoln, Nebraska 68509-4676

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES WATER WELL REGISTRATION MODIFICATION

July 2002
DNR Form 667

0801 2005-003611-MODF(2)
Department of Natural Resources

(FOR DEPARTMENT USE ONLY)

Date Filed: 2-1-2005 Sequence No. 3611 Registration No. G-000345A
Owner Code No. 10081 Receipt No. 4400N Nishkara White NRD

1. Well Owner (Required) Steve Klass Work Telephone Number ()
Home Telephone Number 308 665-1523
Address 3332 River Road
City Blair State NE Zip Code 68354

2. Contractor (Required) Telephone Number ()
Address Pump Installer License No.
City State Zip Code

3. Water Well Registration No. G-000345A
IDENTIFY WHAT NEEDS TO BE CORRECTED: Legal Location

4. LOCATION OF WELL (Information in ITEMS 4A and 4B are required)
LIST LEGAL:
A. Well location: N 1/4 SE 1/4 of Section 21 Township 29 North, Range 50 E W Y Dawes County.
B. The well is _____ feet from the (N S) section line and _____ feet from the (E W) section line.

5. LOCATION OF WELL
LIST LEGAL CORRECT LEGAL AND/OR FOOTAGE:
A. Well location: N 1/4 SE 1/4 of Section 22 Township 29 North, Range 50 E W X Dawes County.
B. The well is _____ feet from the (N S) section line and _____ feet from the (E W) section line.
C. Latitude Degree: _____ Minute: _____ Second: _____
D. Longitude Degree: _____ Minute: _____ Second: _____
E. Street address and subdivision, if applicable: _____
F. Block _____ Lot _____

6. Number of acres irrigated: 130
A. Location of water use (given legal description): SE 1/4 of 22-29N-50W

7. Change of use (select from this category): ☐ Dewatering (over 90 days) ☐ Domestic ☐ Ground Heat Exchanger
☐ Ground Water Source Heat Pump ☐ Industrial ☐ Injection ☒ Irrigation ☐ Livestock
☐ Monitoring ☐ Observation ☐ Public Water Supply (with spacing (46-638)) ☐ Public Water Supply (without spacing)
☐ Recovery ☐ Other _____
(indicate rec)

A. Well was used for: _____ C. New use is: _____
B. New gallons per minute: _____ D. Date of Change: _____

8. Wells in a Series
A. Is this well a part of a series? ☐ Yes go to part b of this section NO
B. If one or more of the wells in the series is currently registered, give the well registration number (s): NEEDS TO

110 01 205
11/10/2005

Water Well 851 (G000345A) Water Well Registration

9. Replacement and abandoned well information.

- A. Is this well a replacement well? ☐ Yes ☒ No G-000345A
 B. Registration number of abandoned well _____ If not registered, date abandoned well was constructed (m) ____ / (d) ____ / (y) ____
 C. Replacement well is _____ feet from abandoned well. D. Abandoned well last operated (m) ____ / (d) ____ / (y) ____
 E. Original well pump column size _____ inches. F. Completion of original well abandonment on (m) ____ / (d) ____ / (y) ____
 G. Location of water use of abandoned well _____

10. Well Construction Information.

- A. Total well depth _____ feet. B. Static water level _____ feet.
 C. Pumping water level _____ feet. D. Well Construction began (month) ____ / (year) ____ / (day) ____
 E. Well Construction completed (month) ____ / (year) ____ / (day) ____ F. Bore hole diameter in inches Top _____ Bottom _____
 G. Casing and Screen Joints are Welded ☐ Stud ☐ Threaded ☐ Other _____

11. Well Construction (Casing & Screen)- c, d, e, & g measurements should be in inches to three decimal places

A Placement Depth in Feet		B Casing or Screen	C Inside Diameter	D Outside Diameter	E Well Thickness	F Type of Material	G Screen Slot Size	H Trade Name
From	To							

12. Grout and Gravel Pack

Placement Depth in Feet		Grout or Gravel Pack	Material Description
From	To		

13. Geologic Materials Logged

Depth in Feet Description
 From To

14. REQUIRED: State Reason for Change: Well is currently registered in section 21.

needs to be moved to section 22.

15. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true.

Contractor's Signature

Date

Water Well Owner's Signature

Date

Steve Phelps

1/24/05

Water Well 852 (G000345B) Water Well Registration

July 2006
DNR Form 667

Submit to:
Department of Natural Resources
301 Centennial Mall South
P.O. Box 94676
Lincoln, Nebraska 68509-4676
Phone (402) 471-2363

STATE OF NEBRASKA
DEPARTMENT OF NATURAL RESOURCES
WATER WELL REGISTRATION MODIFICATION
OWNER USE ONLY

FOR DEPARTMENT USE ONLY

Date Filed 3-15-2007 Owner Code No. 10081 Registration No. G-000345B
03152007-003612 - MOD(2) Upper Niobrara-White NRD

ALL ITEMS IN SECTION 1 AND SIGNATURE IN SECTION 3 ARE REQUIRED

SECTION 1:

A. Well Owner's First Name Steve Last Name Klaes
OR Company Name _____
Attention Name _____
Address 3933 River Rd.
City Marland State NE Zip 69354 Telephone 308 665 1803

B. Well Registration No. G-000345B

C. For All Wells: Location of water use (give complete legal description) 29 50 22 SWNE

For Irrigation Wells: Number of acres irrigated: _____

If the location of use is different than what is currently registered, and/or the number of acres irrigated is more than what is currently registered, and you are located in an area that has stays or a moratorium on newly irrigated acres, you MUST obtain the written approval of the Natural Resources District PRIOR TO FILING THIS FORM. This approval can be the submission of a Natural Resources District Approval form by the NRD.

UNWRD
(Natural Resources District)

Jean W. Mandy
(Signature of NRD Staff)

12/28/06
(Date)

D. State Reason for Change: well is no longer active as an irrigation well, but would like to keep as an inactive well.

CORRECTIONS NEEDED

Complete only those items being modified.

SECTION 2:

A. If location of well needs corrected, items 1 and 2 are required. Item 3 required when applicable.

1. Well location: 1/4 of the 1/4 of Section 1, Township North, Range E 1 W 1, County Lincoln.
2. The well is 100 feet from the (N ☐ or S ☐) section line and 100 feet from the (E ☐ W ☐) section line.
- OR Latitude Degree: _____ Minute: _____ Second: _____
- Longitude Degree: _____ Minute: _____ Second: _____
3. Street address or block, lot and subdivisions: _____

RECEIVED

RECEIVED

MAR 15 2007

JAN 03 2007

DEPARTMENT OF
NATURAL RESOURCES

DEPARTMENT OF
NATURAL RESOURCES

Water Well 852 (G000345B) Water Well Registration

B. Change to use, complete items 1, 2 and 3. Identify use from this Listing: Dewatering (over 90 days), Domestic, Ground Heat Exchanger, Ground Water Source Heat Pump, Industrial, Injection, Irrigation, Livestock, Monitoring, Observation, Public Water Supply (with spacing (46-638), Public Water Supply (without spacing), Recovery, Other (if well use falls in this category - add specific use).

G-000345B

1. Well was used for: _____
2. New well use is: _____
3. Date of Change: _____

C. Well Construction Information:

1. Total well depth: _____ feet.
2. Static water level: _____ feet.
3. Pumping water level: _____ feet.
4. Well Construction began: (m) ____ / (d) ____ / (y) ____
5. Well Construction completed: (m) ____ / (d) ____ / (y) ____
6. Bore hole diameter in inches: Top ____ Bottom ____
7. Casing and Screen Joints are: Welded ☐ Glued ☐ Threaded ☐ Other: _____

D. Wells in a Series.

1. Is this well a part of a series? ☐ Yes ☐ No
2. If one or more of the wells in the series is currently registered, give all well registration numbers: _____

E. Replacement and decommissioned/modified well information:

Department of Natural Resources Decommission/Modification Certification form or Notice of Decommissioning form is Required for replacement wells.

1. Is this well a replacement well? ☐ Yes ☐ No
2. Registration number of original well: _____ If original well is not registered, date well construction completed (m) ____ / (d) ____ / (y) ____
3. Original well last operated (m) ____ / (d) ____ / (y) ____
4. Completion of original well decommission/modification on (m) ____ / (d) ____ / (y) ____
5. Complete location of water use of original well: _____

F. Pump Information.

1. Pumping rate: _____ gallons per minute. Measured ☐ or Estimated ☐
2. Drop Pipe diameter: _____ Inches.
3. Length of drop pipe: _____ feet.
4. Pumping equipment installed: (m) ____ / (d) ____ / (y) ____
5. Brand/Type: _____
6. Static Water Level: _____ feet.
7. Pumping water level: _____ feet.
8. Amount of time pumped: _____

G. Active to Inactive:

On 12/28/2006, I altered the status of this water well from active to inactive by removing the 1 1/4 inch pump and pumping column and properly capping the water well according to state standards. (\$46-1207.02)

H. Well Construction Modification:

1. Total well depth: _____ feet.
2. Static water level: _____ feet.
3. Pumping water level: _____ feet.
4. Well Modification began: (m) ____ / (d) ____ / (y) ____
5. Well Modification completed: (m) ____ / (d) ____ / (y) ____
6. Casing diameter in inches: Top ____ Bottom ____
7. Casing and Screen Joints are: Welded ☐ Glued ☐ Threaded ☐ Other: _____

I certify that the well has been modified according to information given in section 2 E, F, & H, such that it will pump 50 gallons per minute or less. Pumping Rate: _____

Change to use (Check one of the following): ☐ Livestock ☐ Monitoring ☐ Observation.

☐ nonconsumptive or de minimus use approved by the applicable natural resources district. State use: _____

SECTION 3:

I hereby certify that the information provided on this form is true and accurate to the best of my knowledge.

Steve R. Jones
Water Well Owner's Signature

12/28/06
Date

The Department reserves the right to request verification of information provided.

Water Well 853 (G126273) Water Well Registration

Monday, March 08, 2004

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

Page 1 of 3

147650 - G-126273 -WWW

FOR DEPARTMENT USE ONLY

NOL ID	107334552410840	NOL Status	Accepted	Well Status		Registration Code	G-126273
Owner ID	10081	NOL Date	03/08/2004	Call Up Code		Registration Date	03/08/2004
Seq Num	147650	Call Up Date					

1a Owner's Name Steve Kloss

b Company Name _____

c Correspondent Name _____ Attention Name _____

Address 3335 River Road

City Marland State NE Zip Code 68554 Phone 308 - 665-1443

2a NHSS Contractor Lic ID: 525970 Contractor's Name: David L. Deines

Contractor's License No: 39386 Contractor's Email Address: kellydeines@irrigation@hotmail.com

b Drilling Firm Name Kelly-Deines Irrigation, Inc.

Address 2510 North 16th Street

City Gering State NE Zip Code 69341 Phone 308 - 635-5344

Drilling Firms Email Address _____

3a Well Location NENW of Section 22 Township 29 North, Range 50 W (E/W), Dawes County

b Natural Resource District Upper Nebraska-White

c The well is _____ feet from the _____ (NS) section line and _____ feet from the _____ (EW) section line

GPS: or Latitude: 42 28' 48.40" Longitude: -103 10' 45.20"

d Street address or block, lot and subdivision, if applicable: _____ Block No _____ Lot _____

e Location of water use, if applicable (give legal descriptions) Pt NE 1/4 Sec 22 & Pt NW 1/4 Sec 23 T29N R50W

f If for irrigation, the land to be irrigated is 130 Acres

g Well Reference letter(s), if applicable _____

4 Permits	Permits Number	Date	Permits	Permits Number	Date
Management Area Permit	UNW-090049	02/12/2003	Transfer Out-Of-State		
Surface Water			Well Spacing		
Geothermal			Conduct Water		
Industrial			Municipal		
Industrial Transfer Notice			Other		

5 Purpose of Well Irrigation Other _____

Notes _____

6 Wells in a Series

a Is this well a part of a series? ☐

b If one or more of the wells in the series is currently registered, give the well registration number _____

c How many wells in the series are you registering at this time? _____

7 Replacement and abandoned well information Replacement Number 2

a Is this well a replacement well? ☐

b Registration number of abandoned well _____
If not registered, date abandoned well was constructed: _____

c Replacement well is _____ feet from abandoned well

d Abandoned well last operated _____

e Original well pump column size: _____ inches

f Completion of original well abandonment on _____

Water Well 853 (G126273) Water Well Registration

Monday, March 08, 2004

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

Page 2 of 3
147650 - G-126273 - WWWF

FOR DEPARTMENT USE ONLY					
NOL ID	107334562410240	NOL Status	Accepted	Well Status	
Owner ID	10081	NOL Date	03/05/2004	Call Up Code	
Reg Num	147650	Call Up Date		Registration Code	G-126273
				Registration Date	03/08/2004

g Location of water use of abandoned well

8 Pump Information

- a Is pump installed at this time? ☐
 Is pump installed by well owner in section 1? ☐ Is pump installed by contractor in section 2? ☐
 Else installed by pump installer.

b HHS Installer's License ID.

Pump Installer's License No. Pump Installer's Name
 Pump Installer's Email Address
 Pump Installer's Firm Name
 Pump Installer's Firm Address
 City: State Zip Code -0000 Phone -
 Pump Installer's Firm Email Address

- c Pumping Rate 600 gallons per minute ☐ measured or estimated
 d Drop pipe diameter inches
 e Length of drop pipe feet
 f Pumping equipment installed / /
 g Pump Brand
 h This well will be used to pump less than 50 gpm ☐

9 Well Construction Information

- a Total well depth 160 feet
 b Static Water Level 63 feet
 c Pumping Water Level 140 feet
 d Well construction began: 10 / 30 / 2003
 e Well construction completed: 11 / 05 / 2003
 f Bore hole diameter in inches. Top 26 Bottom 28
 g Casing and Screen Joints Welded Other

10 Well Construction (Casing and Screen)

From Depth	To Depth	Inside Diam.	Outside Diam.	Thickness	Screen Slot Size	Material	Trade Name	Case
0	80	15.6	16	.219		Steel		
80	160	15.6	16	.219	.085	Steel	Millslot	

11 Well Construction (Grout and Gravel)

NOL ID	From Depth	To Depth	Material	Case
10733456241	0	6	Top soil	2
10733456241	6	11	Bentonite	1
10733456241	11	160	1/4" x 3/8" gravel	2

Water Well 853 (G126273) Water Well Registration

Monday, March 08, 2004

Page 3 of 3

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION

147650 - G-126273 - WWR

FOR DEPARTMENT USE ONLY

NOL ID	107334562410840	NOL Status	Accepted	Well Status	1	Registration Code	G-126273
Owner ID	10081	NOL Date	03/06/2004	Call Up Code		Registration Date	03/08/2004
Seq Num	147650	Call Up Date					

12 Geolog Material Logged

Well ID	Depth	Material
10733456241	0	6 Top soil
10733456241	8	16 Mag rock & brown clay
10733456241	16	82 Sand & gravel little clay
10733456241	82	98 Medium sand little clay
10733456241	98	131 Sand & gravel
10733456241	131	160 Siltstone

NO Return to NOL

Return to NOL

NOTIFY NOL

Water Well 858 (G68633) Water Well Registration

Revised December, 1978

DWR Form 602

DO NOT WRITE IN THIS SPACE

Registration No. G-68633

County Dawes

Dawes

Date Filed 2/23/83

1

STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WELL REGISTRATION

1. General Information:

A. Connected well

Is this well connected to another well? ☐ Yes ☒ No

If yes, give registration number of previously registered well _____

(If new installation consists of a series of wells with one outlet, complete registration forms and driller's certificates for each and submit \$7.50)

B. Replacement well

Is this well to replace a permanently abandoned well? ☐ Yes ☒ No

If yes, give registration number of abandoned well _____

C. Permit No. _____ (required only in a Ground Water Control Area)

Type of well to be registered:
(Check One)

☒ IRRIGATION

☐ MUNICIPAL

☐ INDUSTRIAL

☐ Other _____

2. Name & address of well owner:

Tomahawk Ranch & Cattle Co. % Bruce Lake (29455)
Harsland, Nebraska

Zip Code 69354

Phone (308) 665-1765

3. Name & address of well driller:

Unknown - Well was drilled prior to 1968

Zip Code _____

Phone: () _____

4. Location & purpose of the well:

A. Upper White, Niobrara

Natural Resources District (Identify)

B. NW 1/4 of the SW 1/4 of Section 15, Township 29, Range 50

☐ E ☒ W
(check one)

Dawes County.

C. The well is 4000 feet from the nearest municipal, irrigation, or industrial well. The nearest well is owned by ☐ you ☒ someone other than you.

(check one)

D. The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of the following land: Section 15, Township 29 N, Range 50 W

OR

E. The well shall be used for purposes of: Irrigation & Stock water

5. Well and pump specifications:

A. Pumping rate under normal conditions: 1000 gallons per minute.

B. Total well depth: 200 feet.

C. Inside diameter of the casing: 16 inches.

D. Static (non-pumping) water level in the well: 105 feet below ground surface.

E. Depth of water under normal pumping conditions: 140 feet below ground surface.

F. Pump column: Diameter 8 inches; Length 180 feet.

G. The well was completed on or about Unknown, 19 Prior to 1968

MORE ON BACK

MORE ON BACK

Water Well 858 (G68633) Water Well Registration

(With an "X" mark the location of the well)

NW NW	NE NW	NW NE	NE NE
SW NW	SE NW	SW NE	SE NE
NW SW	NE SW	NW SE	NE SE
SW SW	SE SW	SW SE	SE SE

X

1.000'

1.000'

1.000'

1.000'

This drawing represents one square mile (a section).
Each small subdivision is a 40-acre tract.

I certify that I am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, concise and accurate.

Torchawk Ranch & Cattle Co.
Well Owner's Signature
Bruce J. Joke
Date
18 Feb. 1983

Both a Well Registration and Driller's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refundable \$7.50 fee (payable to the Director of Water Resources) must accompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

State of Nebraska
Department of Water Resources

E-2

Water Well Completion Reports

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4260.64 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 4 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/18/2013

Completed Formation: Arikaree

Casing Diameter: 4.95 inch O.D.

Casing Depth: 59 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20,40

Project: Crow Butte

Well No. AOW-1

Wellhead Elevation: 4261.54 ft.

Driller: R. Corbin

Drilling Completed On: 9/18/2013

Depth Drilled: 131 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 51 ft.

Screen Size: 0.020

Screened Interval(s): 61 ft. - 131 ft.

ft. - ft.

Completed Formation Upper Boundary: 61 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 2.4 bbls.

Cement Density: 12.1 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 1 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 2008

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 1.2 ft. at 9.0 degrees

Remarks:

Gravel Size:

ft. - ft.

ft. - ft.

Lower Boundary: 131 ft.

Operator: Klein

Actual Cement Volume Used: 3.5 bbls.

Water Volume Used: 2.5 bbls.

Additives: 37 lbs Salt 50 lbs Bentonite

Density At Surface: 12.1 lbs/gal

Operator: Dunn/Klein

Probe No.: 9057C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection ☐ Monitor ☒

Well No. AOW-3

Ground Elevation: 4351.07 ft.

Wellhead Elevation: 4352.07 ft.

Drilling Contractor: Landrill Exploration

Driller: R. Corbin

Mud Products: 4 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/18/2013

Drilling Completed On: 9/18/2013

Completed Formation: Arikaree

Depth Drilled: 151 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 79 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 71 ft.

Centralizer Depths: 20,40

Screen Size: 0.020

Gravel Size:

Screened Interval(s): 81 ft. - 151 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 81 ft.

Lower Boundary: 151 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 3.1 bbls.

Actual Cement Volume Used: 4.7 bbls.

Cement Density: 12.1 lbs/gal

Water Volume Used: 3.4 bbls.

Cement Type/Class: I/II API

Additives: 50 lbs Salt 67 lbs Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 12.1 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn/Klein

Unit No.: 2008

Probe No.: 9057C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 1.4 ft. at 187.0 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist



Date: October 3, 2013

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection ☐ Monitor ☒

Well No. AOW-4

Ground Elevation: 4161.01 ft.

Wellhead Elevation: 4162.01 ft.

Drilling Contractor: Landrill Exploration

Driller: R. Corbin

Mud Products: 4 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/16/2013

Drilling Completed On: 9/16/2013

Completed Formation: Arikaree

Depth Drilled: 100 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 39 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 19 ft.

Centralizer Depths: 20

Screen Size: 0.020

Gravel Size:

Screened Interval(s): 39 ft - 99 ft.

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 39 ft.

Lower Boundary: 99 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 1.6 bbls.

Actual Cement Volume Used: 2.4 bbls.

Cement Density: 12.8 lbs/gal

Water Volume Used: 1.7 bbls.

Cement Type/Class: III API

Additives: 25 lbs Salt 35 lbs Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 12.8 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn/Klein

Unit No.: 2008

Probe No.: 9057C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.4 ft. at 32.0 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality

Permit No. _____

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor ☒

Well No. AOW-5

Ground Elevation: 4124.32 ft.

Wellhead Elevation: 4125.52 ft.

Drilling Contractor: Landrill Exploration

Driller: R. Corbin

Mud Products: 18 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/17/2013

Drilling Completed On: 9/17/2013

Completed Formation: Arikaree

Depth Drilled: 101 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 39 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 31 ft.

Centralizer Depths: 20

Screen Size: 0.020

Gravel Size:

Screened Interval(s): 41 ft. - 101 ft.

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 41 ft.

Lower Boundary: 101 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 1.6 bbls.

Actual Cement Volume Used: 2.4 bbls.

Cement Density: 12.2 lbs/gal

Water Volume Used: 1.7 bbls.

Cement Type/Class: M/I API

Additives: 25 lbs Salt 33 lbs Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 12.2 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn/Klein

Unit No.: 2008

Probe No.: 9057C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.3 ft at 175.4 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. AOW-6

Ground Elevation: 4067.60 ft.

Wellhead Elevation: 4068.50 ft.

Drilling Contractor: Landrill Exploration

Driller: R. Corbin

Mud Products: 10 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/17/2013

Drilling Completed On: 9/17/2013

Completed Formation: Arikaree

Depth Drilled: 80 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 29 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 19 ft.

Centralizer Depths: 20

Screen Size: 0.020

Gravel Size:

Screened Interval(s): 29 ft - 79 ft.

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 29 ft.

Lower Boundary: 79 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 1.2 bbls.

Actual Cement Volume Used: 1.8 bbls.

Cement Density: 12.2 lbs/gal

Water Volume Used: 1.3 bbls.

Cement Type/Class: I/II API

Additives: 19 lbs Salt 25 lbs Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 12.2 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn/Klein

Unit No.: 2008

Probe No: 9057C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.1 ft. at 236.4 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection _____ Monitor X
Ground Elevation: 4242.94 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 4 Bags Super Gel
Bit Size: 8 Inch
Drilling Begun: 9/19/2013
Completed Formation: Arikaree
Casing Diameter: 4.95 inch O.D.
Casing Depth: 39 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20

Project: Crow Butte
Well No. AOW-7
Wellhead Elevation: 4243.94 ft.
Driller: R. Corbin

Drilling Completed On: 9/19/2013
Depth Drilled: 150 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 30 ft.

Screen Size: 0.020
Screened Interval(s): 40 ft - 150 ft.
ft - ft.
Completed Formation Upper Boundary: 40 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 1.6 bbls.
Cement Density: 13.1 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 1 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 2008
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 0.2 ft. at 23.0 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 150 ft.
Operator: Klein
Actual Cement Volume Used: 2.4 bbls.
Water Volume Used: 1.7 bbls.
Additives: 25 lbs Salt 35 lbs Bentonite
Density At Surface: 13.1 lbs/gal
Operator: Dunn/Klein
Probe No.: 9057C

This report was filled out by: Wade Beins
Representing: Crow Butte Resources, Inc.
On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection Monitor ☒
Ground Elevation: 4364.22 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 4 Bags Super Gel
Bit Size: 8 Inch
Drilling Begun: 9/18/2013
Completed Formation: Arikaree
Casing Diameter: 4.95 inch O.D.
Casing Depth: 79 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20,40

Project: Crow Butte
Well No. AOW-8
Wellhead Elevation: 4365.12 ft.
Driller: R. Corbin

Drilling Completed On: 9/18/2013
Depth Drilled: 151 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 30 ft.

Screen Size: 0.020
Screened Interval(s): 81 ft. - 151 ft.
ft. - ft.
Completed Formation Upper Boundary: 81 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 3.1 bbls.
Cement Density: 12.1 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 1 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 2008
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 1.9 ft. at 73.9 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 151 ft.
Operator: Klein
Actual Cement Volume Used: 4.7 bbls.
Water Volume Used: 3.4 bbls.
Additives: 50 lbs Salt 67 lbs Bentonite
Density At Surface: 12.1 lbs/gal
Operator: Dunn/Klein
Probe No.: 9057C

This report was filled out by: Wade Beins
Representing: Crow Butte Resources, Inc.
On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection Monitor ☒

Well No. AOW-9

Ground Elevation: 4145.31 ft.

Wellhead Elevation: 4146.41 ft.

Drilling Contractor: Landrill Exploration

Driller: R. Corbin

Mud Products: 9 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/16/2013

Drilling Completed On: 9/16/2013

Completed Formation: Arikaree

Depth Drilled: 115 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 29 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 19 ft.

Centralizer Depths: 20

Screen Size: 0.020

Gravel Size:

Screened Interval(s): 29 ft - 109 ft

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 29 ft.

Lower Boundary: 109 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 1.2 bbls.

Actual Cement Volume Used: 1.8 bbls.

Cement Density: 12.8 lbs/gal

Water Volume Used: 1.3 bbls.

Cement Type/Class: I/II API

Additives: 18 lbs Salt 25 lbs Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 12.8 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn/Klein

Unit No.: 2008

Probe No.: 9057C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.8 ft. at 274.6 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist



Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection Monitor ☒
Ground Elevation: 4197.70 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 4 Bags Super Gel
Bit Size: 8 Inch
Drilling Begun: 9/19/2013
Completed Formation: Arikaree
Casing Diameter: 4.95 inch O.D.
Casing Depth: 39 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20

Project: Crow Butte
Well No. AOW-10
Wellhead Elevation: 4198.60 ft.
Driller: R. Corbin

Drilling Completed On: 9/19/2013
Depth Drilled: 141 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 31 ft.

Screen Size: 0.020
Screened Interval(s): 41 ft. - 141 ft.
Completed Formation Upper Boundary: 41 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 1.6 bbls.
Cement Density: 13.1 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 1 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 2008
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 0.3 ft. at 189.1 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 141 ft.
Operator: Klein
Actual Cement Volume Used: 2.4 bbls.
Water Volume Used: 1.7 bbls.
Additives: 25 lbs Salt 33 lbs Bentonite
Density At Surface: 13.1 lbs/gal
Operator: Dunn/Klein
Probe No.: 9057C

This report was filled out by: Wade Beins
Representing: Crow Butte Resources, Inc.
On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection _____ Monitor X
Ground Elevation: 4090.22 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 8 Bags Super Gel
Bit Size: 8 Inch
Drilling Begun: 9/17/2013
Completed Formation: Arikaree
Casing Diameter: 4.95 inch O.D.
Casing Depth: 29 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20

Project: Crow Butte
Well No. AOW-11
Wellhead Elevation: 4091.22 ft.
Driller: R. Corbin

Drilling Completed On: 9/17/2013
Depth Drilled: 70 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 16 ft.

Screen Size: 0.020
Screened Interval(s): 26 ft - 66 ft.
ft. - ft.
Completed Formation Upper Boundary: 26 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 1.2 bbls.
Cement Density: 12.2 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 1 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 2008
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 0.5 ft. at 25.8 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 66 ft.
Operator: Klein
Actual Cement Volume Used: 1.8 bbls.
Water Volume Used: 1.3 bbls.
Additives: 18 lbs Salt 25 lbs Bentonite
Density At Surface: 12.2 lbs/gal
Operator: Dunn/Klein
Probe No.: 9057C

This report was filled out by: Wade Beims
Representing: Crow Butte Resources, Inc.
On:

Certification:

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By: Wade Beims

Title: Senior Geologist

Date: October 3, 2013

Wade Beims

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4259 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 6 Bags Super Gel 2 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 8/24/2010

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 279 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220 Ft

Project: Crow Butte

Well No. BOW-2010-1

Wellhead Elevation: 4260 ft.

Driller: J. Lemmon

2 Bags Lost Circulation Material

Drilling Completed On: 8/26/2010

Depth Drilled: 420 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 275 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 285 ft. - 365 ft.
ft. - ft.

Completed Formation Upper Boundary: 270 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 10.8 bbls.

Cement Density: 12.4 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 0 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 1.2 ft. at 342.2 degrees

Remarks: Tremmied 4 bbls to surface

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 400 ft.

Operator: Klein

Actual Cement Volume Used: 16.2 bbls.

Water Volume Used: 11.6 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 9 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4322 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 7 Bags Super Gel 2 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 8/25/2010

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 339 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Project: Crow Butte

Well No. BOW-2010-2

Wellhead Elevation: 4323 ft.

Driller: J. Lemmon

1 Bags Lost Circulation Material

Drilling Completed On: 8/27/2010

Depth Drilled: 420 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 328 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 338 ft. - 398 ft.
ft. - ft.

Completed Formation Upper Boundary: 330 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 13.1 bbls.

Cement Density: 12.3 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 0 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 2.7 ft. at 300.1 degrees

Remarks: Tremmied 3 bbls to surface

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 410 ft.

Operator: Klein

Actual Cement Volume Used: 19.6 bbls.

Water Volume Used: 14.1 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 9.4 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4350 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 6 Bags Super Gel 1 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 8/20/2010

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 339 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Screen Size: 3 inch by .020 inch

Screened Interval(s): 346 ft. - 416 ft.

ft. - ft.

Completed Formation Upper Boundary: 330 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 13.1 bbls.

Cement Density: 12.2 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 4 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 3.6 ft. at 320.7 degrees

Remarks:

Project: Crow Butte

Well No. BOW-2010-3

Wellhead Elevation: 4350 ft.

Driller: L. Corbin

2 Bags Lost Circulation Material

Drilling Completed On: 8/24/2010

Depth Drilled: 450 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 336 ft.

Gravel Size:

ft. - ft.

ft. - ft.

Lower Boundary: 440 ft.

Operator: Klein

Actual Cement Volume Used: 19.6 bbls.

Water Volume Used: 14.1 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 12.2 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date:

May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4162 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 6 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/10/2010

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 249 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220 Ft

Project: Crow Butte

Well No. BOW-2010-4

Wellhead Elevation: 4163 ft.

Driller: J. Lemmon

1 Bags Lost Circulation Material

Drilling Completed On: 9/13/2010

Depth Drilled: 310 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 240 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 250 ft. - 310 ft.
ft. - ft.

Completed Formation Upper Boundary: 240 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 9.6 bbls.

Cement Density: 12.3 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 3 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 18 ft. at 68 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 300 ft.

Operator: Klein

Actual Cement Volume Used: 14.4 bbls.

Water Volume Used: 10.4 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 11.6 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date:

May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4162 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 5 Bags Super Gel 1 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 3/15/2011

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 249 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220 Ft

Project: Crow Butte

Well No. BOW-2010-4A

Wellhead Elevation: 4163 ft.

Driller: S. Osmotherly

1 Bags Lost Circulation Material

Drilling Completed On: 3/17/2011

Depth Drilled: 400 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 241 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 261 ft. - 311 ft.
ft. - ft.

Completed Formation Upper Boundary: 240 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 9.6 bbls.

Cement Density: 12.1 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 1/2 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 9.8 ft. at 244.2 degrees

Remarks: Tremmed 5 bbls to surface

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 390 ft.

Operator: Klein

Actual Cement Volume Used: 14.4 bbls.

Water Volume Used: 10.4 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 10 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection ☐ Monitor ☒

Well No. BOW-2010-5

Ground Elevation: 4125 ft.

Wellhead Elevation: 4126 ft.

Drilling Contractor: Landrill Exploration

Driller: G. Krotz

Mud Products: 22 Bags Super Gel

8 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 9/28/2010

Drilling Completed On: 9/30/2010

Completed Formation: Brule

Depth Drilled: 340 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 169 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 157 ft.

Centralizer Depths: 20, 40, 100 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 177 ft. - 237 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 160 ft.

Lower Boundary: 330 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 6.6 bbls.

Actual Cement Volume Used: 9.8 bbls.

Cement Density: 12.3 lbs/gal

Water Volume Used: 7.1 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 3 bbls.

Density At Surface: 11.7 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 5.3 ft. at 87 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4099 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 7 Bags Super Gel 2 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 9/24/2010

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 159 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100 Ft

Project: Crow Butte

Well No. BOW-2010-6

Wellhead Elevation: 4101 ft.

Driller: G. Krotz

2 Bags Lost Circulation Material

Drilling Completed On: 9/28/2010

Depth Drilled: 300 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 150 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 160 ft. - 220 ft.
ft. - ft.

Completed Formation Upper Boundary: 150 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 6.2 bbls.

Cement Density: 12 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 0 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 4.3 ft. at 158.1 degrees

Remarks: Tremmied 8 bbls to surface

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 300 ft.

Operator: Klein

Actual Cement Volume Used: 9.3 bbls.

Water Volume Used: 6.7 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 8.9 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4248 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 13 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 3/21/2011

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 259 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220 Ft

Screen Size: 3 inch by .020 inch

Screened Interval(s): 267 ft. - 347 ft.
ft. - ft.

Completed Formation Upper Boundary: 260 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 10.0 bbls.

Cement Density: 13.6 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 3 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 5.7 ft. at 111.8 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4366 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 5 Bags Super Gel 1 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 3/22/2011

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 349 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Project: Crow Butte

Well No. BOW-2010-8

Wellhead Elevation: 4367 ft.

Driller: L. Corbin

1 Bags Lost Circulation Material

Drilling Completed On: 3/24/2011

Depth Drilled: 420 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 336 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 356 ft. - 416 ft.
ft. - ft.

Completed Formation Upper Boundary: 410 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 13.5 bbls.

Cement Density: 12.3 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 5 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 10.1 ft. at 352.9 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 410 ft.

Operator: Klein

Actual Cement Volume Used: 20.2 bbls.

Water Volume Used: 14.5 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 12 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection Monitor ☒

Ground Elevation: 4144.90 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 12 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/16/2013

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 119 ft

Packer Type: Johnson K-packer

Centralizer Depths: 20,40,100

Screen Size: 0.020

Screened Interval(s): 120 ft - 220 ft
ft - ft

Completed Formation Upper Boundary: 120 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 4.7 bbls.

Cement Density: 12.8 lbs/gal

Cement Type/Class: VII API

Cement Circulated to Surface: 1 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 2008

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 1.7 ft. at 262.5 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection Monitor X
Ground Elevation: 4196.74 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 13 Bags Super Gel
Bit Size: 8 Inch
Drilling Begun: 9/19/2013
Completed Formation: Brule
Casing Diameter: 4.95 inch O.D.
Casing Depth: 159 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20,40,100

Project: Crow Butte
Well No. BOW-10
Wellhead Elevation: 4197.94 ft.
Driller: R. Corbin

Drilling Completed On: 9/19/2013
Depth Drilled: 270 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 158 ft.

Screen Size: 0.020
Screened Interval(s): 168 ft - 268 ft.
ft. - ft.
Completed Formation Upper Boundary: 168 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 6.2 bbls.
Cement Density: 13.1 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 1 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 2008
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 4.1 ft. at 159.4 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 268 ft.
Operator: Klein
Actual Cement Volume Used: 9.3 bbls.
Water Volume Used: 6.7 bbls.
Additives: 99 lbs Salt 134 lbs Bentonite
Density At Surface: 13.1 lbs/gal
Operator: Dunn/Klein
Probe No.: 9057C

This report was filled out by: Wade Beins
Representing: Crow Butte Resources, Inc.
On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection Monitor X

Ground Elevation: 4090.97 ft

Drilling Contractor: Landrill Exploration

Mud Products: 9 Bags Super Gel

Bit Size: 8 Inch

Drilling Begun: 9/17/2013

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 89 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20,40

Project: Crow Butte

Well No. BOW-11

Wellhead Elevation: 4092.07 ft.

Driller: R. Corbin

Drilling Completed On: 9/17/2013

Depth Drilled: 180 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 81 ft.

Screen Size: 0.020

Screened Interval(s): 91 ft. - 171 ft.
ft. - ft.

Completed Formation Upper Boundary: 91 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 3.5 bbls.

Cement Density: 12.2 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 1 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 2008

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.2 ft. at 111.5 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 171 ft.

Operator: Klein

Actual Cement Volume Used: 5.2 bbls.

Water Volume Used: 3.8 bbls.

Additives: 56 lbs Salt 75 lbs Bentonite

Density At Surface: 12.2 lbs/gal

Operator: Dunn/Klein

Probe No.: 9057C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: October 3, 2013

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4205 ft.

Drilling Contractor: Landrill Exploration

Mud Products:

Bit Size: 8 Inch

Drilling Begun: 6/29/2007

Completed Formation: Brule/Arikare

Casing Diameter: 4.95 inch O.D.

Casing Depth: 79 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20,40,60

Project: Crow Butte

Well No. Walters 2-720

Wellhead Elevation: 4205 ft.

Driller: S. Osmotherly

Drilling Completed On: 7/1/2007

Depth Drilled: 240 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 75 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 85 ft. - 225 ft.
ft. - ft.

Completed Formation Upper Boundary: 80 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 3.1 bbls.

Cement Density: Not Avail lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: Not Avail bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.01 ft. at 0 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 224 ft.

Operator: Klein

Actual Cement Volume Used: 4.7 bbls.

Water Volume Used: 3.4 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: Not Avail lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: September 28, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4245 ft.

Drilling Contractor: Landrill Exploration

Mud Products:

Bit Size: 8 Inch

Drilling Begun: 7/4/2006

Completed Formation: Brule

Casing Diameter: 4.95 inch O.D.

Casing Depth: 79 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20,40,60

Project: Crow Butte

Well No. Walters 1-721

Wellhead Elevation: 4246 ft.

Driller: S. Osmotherly

Drilling Completed On: 7/6/2006

Depth Drilled: 360 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 75 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 85 ft. - 225 ft.
ft. - ft.

Completed Formation Upper Boundary: 80 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 3.1 bbls.

Cement Density: Not Avail lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: Not Avail bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 0.01 ft. at 0 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 228 ft.

Operator: Klein

Actual Cement Volume Used: 4.7 bbls.

Water Volume Used: 3.4 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: Not Avail lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date:

September 28, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. CPW-2010-1

Ground Elevation: 4260 ft.

Wellhead Elevation: 4262 ft.

Drilling Contractor: Landrill Exploration

Driller: L. Corbin

Mud Products: 11 Bags Super Gel 4 Quart Polymer

2 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 8/31/2010

Drilling Completed On: 9/2/2010

Completed Formation: Chadron

Depth Drilled: 1070 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 1009 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 995 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280; 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1015 ft. - 1048 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 1016 ft.

Lower Boundary: 1046 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 38.8 bbls.

Actual Cement Volume Used: 58.2 bbls.

Cement Density: 12.4 lbs/gal

Water Volume Used: 41.7 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 5 bbls.

Density At Surface: 11.6 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 4.1 ft. at 203.5 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. CPW-2010-1A

Ground Elevation: 4261 ft.

Wellhead Elevation: 4263 ft.

Drilling Contractor: Landrill Exploration

Driller: S. Osmotherly

Mud Products: 7 Bags Super Gel 2 Quart Polymer

3 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 3/14/2011

Drilling Completed On: 3/16/2011

Completed Formation: Chadron

Depth Drilled: 1080 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 1019 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 1005 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1025 ft. - 1055 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 1024 ft.

Lower Boundary: 1050 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 39.2 bbls.

Actual Cement Volume Used: 58.8 bbls.

Cement Density: 12.3 lbs/gal

Water Volume Used: 42.1 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 4 bbls.

Density At Surface: 11 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 24.9 ft. at 153.3 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 1

Ground Elevation: 4101 ft.

Wellhead Elevation: 4102 ft.

Drilling Contractor: Landrill Exploration

Driller: G. Land

Mud Products:

Bit Size: 8 Inch

Drilling Begun: 4/3/1989

Drilling Completed On: 4/5/1989

Completed Formation: Chadron

Depth Drilled: 968 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 905 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 900 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 905 ft. - 940 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 900 ft.

Lower Boundary: 936 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 34.8 bbls.

Actual Cement Volume Used: 52.2 bbls.

Cement Density: Not Avail lbs/gal

Water Volume Used: 37.4 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: Not Avail bbls.

Density At Surface: Not Avail lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 16.4 ft. at 116 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: September 28, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4197 ft.

Drilling Contractor: Landrill Exploration

Mud Products:

Bit Size: 8 Inch

Drilling Begun: 4/7/1989

Completed Formation: Chadron

Casing Diameter: 4.95 inch O.D.

Casing Depth: 974 ft.

Packer Type: Johnson K-packer

Centralizer Depths: ###

Project: Crow Butte

Well No. Monitor 2

Wellhead Elevation: 4198 ft.

Driller: G. Land

Drilling Completed On: 4/9/1989

Depth Drilled: 1030 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 974 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 980 ft. - 1015 ft.

ft. - ft.

Completed Formation Upper Boundary: 974 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 37.5 bbls.

Cement Density: Not Avail lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: Not Avail bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 14.6 ft. at 128 degrees

Remarks:

Gravel Size:

ft. - ft.

ft. - ft.

Lower Boundary: 1015 ft.

Operator: Klein

Actual Cement Volume Used: 56.2 bbls.

Water Volume Used: bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: Not Avail lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date:

May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4260 ft.

Drilling Contractor: Landrill Exploration

Mud Products:

Bit Size: 8 Inch

Drilling Begun: 4/14/1989

Completed Formation: Chadron

Casing Diameter: 4.95 inch O.D.

Casing Depth: 1008 ft.

Packer Type: Johnson K-packer

Centralizer Depths: ###

Project: Crow Butte

Well No. Monitor 3

Wellhead Elevation: 4261 ft.

Driller: G. Land

Drilling Completed On: 4/18/1989

Depth Drilled: 1070 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 1008 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 1015 ft. - 1050 ft.
ft. - ft.

Completed Formation Upper Boundary: 1014 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 38.8 bbls.

Cement Density: Not Avail lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: Not Avail bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 13.8 ft. at 72 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 1046 ft.

Operator: Klein

Actual Cement Volume Used: 58.1 bbls.

Water Volume Used: bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: Not Avail lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Well Type: Production/Injection _____ Monitor X

Ground Elevation: 4326 ft.

Drilling Contractor: Landrill Exploration

Mud Products: 6 Bags Super Gel 3 Quart Polymer

Bit Size: 8 Inch

Drilling Begun: 11/3/2010

Completed Formation: Chadron

Casing Diameter: 4.95 inch O.D.

Casing Depth: 1079 ft.

Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft

Project: Crow Butte

Well No. Monitor 4A

Wellhead Elevation: 4328 ft.

Driller: L. Corbin

Drilling Completed On: 11/5/2010

Depth Drilled: 1140 ft.

Casing Type: White Certalok

Basket Depth: N/A ft.

Packer Depth: 1060 ft.

Screen Size: 3 inch by .020 inch

Screened Interval(s): 1080 ft. - 1110 ft.
ft. - ft.

Completed Formation Upper Boundary: 1081 ft.

Cement Contractor: Crow Butte Resources

Estimated Cement Volume: 41.5 bbls.

Cement Density: 12.5 lbs/gal

Cement Type/Class: I/II API

Cement Circulated to Surface: 8 bbls.

Logging Contractor: Century Geophysical Corp.

Unit No.: 0001

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 11.3 ft. at 53.7 degrees

Remarks:

Gravel Size:

ft. - ft.
ft. - ft.

Lower Boundary: 1109 ft.

Operator: Klein

Actual Cement Volume Used: 62.2 bbls.

Water Volume Used: 44.6 bbls.

Additives: 500 lbs. Salt 500 lbs. Bentonite

Density At Surface: 11.9 lbs/gal

Operator: Dunn

Probe No.: 9055C

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 5

Ground Elevation: 4337 ft.

Wellhead Elevation: 4340 ft.

Drilling Contractor: Landrill Exploration

Driller: J. Lemmon

Mud Products: 8 Bags Super Gel 7 Quart Polymer

3 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 8/30/2010

Drilling Completed On: 9/1/2010

Completed Formation: Chadron

Depth Drilled: 1140 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 1069 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 1060 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1070 ft. - 1120 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 1066 ft.

Lower Boundary: 1116 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 41.1 bbls.

Actual Cement Volume Used: 61.7 bbls.

Cement Density: 12.2 lbs/gal

Water Volume Used: 44.2 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 3 bbls.

Density At Surface: 11.5 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 27 ft. at 142.1 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 6

Ground Elevation: 4214 ft.

Wellhead Elevation: 4215 ft.

Drilling Contractor: Landrill Exploration

Driller: L. Corbin

Mud Products: 13 Bags Super Gel 8 Quart Polymer

4 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 8/16/2010

Drilling Completed On: 8/18/2010

Completed Formation: Chadron

Depth Drilled: 1050 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 989 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 982 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 992 ft. - 1025 ft.

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 982 ft.

Lower Boundary: 1023 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 38.1 bbls.

Actual Cement Volume Used: 57.1 bbls.

Cement Density: 12 lbs/gal

Water Volume Used: 40.9 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 3 bbls.

Density At Surface: 10 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 17.1 ft. at 37.3 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 7

Ground Elevation: 4243 ft.

Wellhead Elevation: 4244 ft.

Drilling Contractor: Landrill Exploration

Driller: L. Corbin

Mud Products: 6 Bags Super Gel 6 Quart Polymer

3 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 8/20/2010

Drilling Completed On: 8/23/2010

Completed Formation: Chadron

Depth Drilled: 1080 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 999 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 993 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1003 ft. - 1046 ft.

ft. - ft.

ft. - ft.

ft. - ft.

Completed Formation Upper Boundary: 1007 ft.

Lower Boundary: 1044 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 38.4 bbls.

Actual Cement Volume Used: 57.6 bbls.

Cement Density: 11.7 lbs/gal

Water Volume Used: 41.3 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 2 bbls.

Density At Surface: 10.2 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 32.2 ft. at 159.9 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

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By: Wade Beins

Title: Senior Geologist

Date:

May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 8

Ground Elevation: 4352 ft.

Wellhead Elevation: 4354 ft.

Drilling Contractor: Landrill Exploration

Driller: L. Corbin

Mud Products: 10 Bags Super Gel 4 Quart Polymer

4 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 8/27/2010

Drilling Completed On: 8/30/2010

Completed Formation: Chadron

Depth Drilled: 1150 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 1079 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 1067 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1087 ft. - 1127 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 1085 ft.

Lower Boundary: 1123 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 41.5 bbls.

Actual Cement Volume Used: 62.2 bbls.

Cement Density: 12.8 lbs/gal

Water Volume Used: 44.6 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 5 bbls.

Density At Surface: 11.5 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 38.5 ft. at 173.6 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 9

Ground Elevation: 4365 ft.

Wellhead Elevation: 4366 ft.

Drilling Contractor: Landrill Exploration

Driller: S. Osmotherly

Mud Products: 5 Bags Super Gel 2 Quart Polymer

2 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 10/20/2010

Drilling Completed On: 10/22/2010

Completed Formation: Chadron

Depth Drilled: 1170 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 1099 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 1080 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000, 1060 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 1110 ft. - 1140 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 1116 ft.

Lower Boundary: 1137 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 42.3 bbls.

Actual Cement Volume Used: 63.4 bbls.

Cement Density: 11.8 lbs/gal

Water Volume Used: 45.4 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 1 bbls.

Density At Surface: 10 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 20.8 ft. at 124.6 degrees

Remarks:

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

On:

Certification:

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By: Wade Beins

Title: Senior Geologist

Date: May 27, 2011

Nebraska Department of Environmental Quality

Permit No. NE0122611

Well Completion Report

Company: Crow Butte Resources, Inc.

Project: Crow Butte

Well Type: Production/Injection _____ Monitor X

Well No. Monitor 10

Ground Elevation: 4160 ft.

Wellhead Elevation: 4161 ft.

Drilling Contractor: Landrill Exploration

Driller: J. Lemmon

Mud Products: 4 Bags Super Gel 6 Quart Polymer

1 Bags Lost Circulation Material

Bit Size: 8 Inch

Drilling Begun: 9/10/2010

Drilling Completed On: 9/13/2010

Completed Formation: Chadron

Depth Drilled: 1000 ft.

Casing Diameter: 4.95 inch O.D.

Casing Type: White Certalok

Casing Depth: 929 ft.

Basket Depth: N/A ft.

Packer Type: Johnson K-packer

Packer Depth: 915 ft.

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880 Ft

Screen Size: 3 inch by .020 inch

Gravel Size:

Screened Interval(s): 935 ft. - 970 ft.
ft. - ft.ft. - ft.
ft. - ft.

Completed Formation Upper Boundary: 931 ft.

Lower Boundary: 979 ft.

Cement Contractor: Crow Butte Resources

Operator: Klein

Estimated Cement Volume: 35.7 bbls.

Actual Cement Volume Used: 53.6 bbls.

Cement Density: 11.7 lbs/gal

Water Volume Used: 38.4 bbls.

Cement Type/Class: I/II API

Additives: 500 lbs. Salt 500 lbs. Bentonite

Cement Circulated to Surface: 0 bbls.

Density At Surface: 9.8 lbs/gal

Logging Contractor: Century Geophysical Corp.

Operator: Dunn

Unit No.: 0001

Probe No.: 9055C

Log Type: Gamma, SP, Resistance, Deviation

Well Deviation: 11.2 ft. at 252.6 degrees

Remarks: Tremmed 5 bbls to surface

This report was filled out by: Wade Beins

Representing: Crow Butte Resources, Inc.

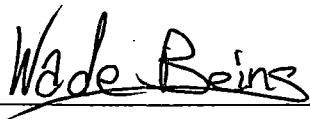
On:

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By: Wade Beins

Title: Senior Geologist



Date: May 27, 2011

Nebraska Department of Environmental Quality
Well Completion Report

Permit No. NE0122611

Company: Crow Butte Resources, Inc.
Well Type: Production/Injection _____ Monitor X
Ground Elevation: 4124 ft.
Drilling Contractor: Landrill Exploration
Mud Products: 10 Bags Super Gel 5 Quart Polymer
Bit Size: 8 Inch
Drilling Begun: 10/4/2010
Completed Formation: Chadron
Casing Diameter: 4.95 inch O.D.
Casing Depth: 899 ft.
Packer Type: Johnson K-packer
Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820 Ft

Project: Crow Butte
Well No. Monitor 11
Wellhead Elevation: 4126 ft.
Driller: G. Krotz
6 Bags Lost Circulation Material
Drilling Completed On: 10/6/2010
Depth Drilled: 980 ft.
Casing Type: White Certalok
Basket Depth: N/A ft.
Packer Depth: 892 ft.

Screen Size: 3 inch by .020 inch
Screened Interval(s): 902 ft. - 947 ft.
ft. - ft.
Completed Formation Upper Boundary: 901 ft.
Cement Contractor: Crow Butte Resources
Estimated Cement Volume: 34.6 bbls.
Cement Density: 12.1 lbs/gal
Cement Type/Class: I/II API
Cement Circulated to Surface: 3 bbls.
Logging Contractor: Century Geophysical Corp.
Unit No.: 0001
Log Type: Gamma, SP, Resistance, Deviation
Well Deviation: 21.9 ft. at 155.2 degrees
Remarks:

Gravel Size:
ft. - ft.
ft. - ft.
Lower Boundary: 948 ft.
Operator: Klein
Actual Cement Volume Used: 51.9 bbls.
Water Volume Used: 37.2 bbls.
Additives: 500 lbs. Salt 500 lbs. Bentonite
Density At Surface: 10.5 lbs/gal
Operator: Dunn
Probe No.: 9055C

This report was filled out by: Wade Beins
Representing: Crow Butte Resources, Inc.
On:

Certification:

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By: Wade Beins

Title: Senior Geologist


Date: May 27, 2011