



RECEIVED OCD

2012 NOV -6 P 1:39

November 5, 2012

New Mexico Oil Conservation Division
Attn: William V. Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Application For Authorization To Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Wild Cobra 1 State SWD #1 well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

C-108 Application for Authorization to Inject
WILD COBRA 1 STATE SWD #1
Unit C, Sec 1 T19S R34E
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 8000' for salt water disposal service into the Delaware Sand from 6300' to 7750'. An APD will be submitted upon approval of this C-108.

- V. Map is attached.
- VI. Two wells within the ½ mile radius area of review penetrate the proposed injection zone. Two other wells are permitted. Wellbore schematics are attached.
- VII.
 - 1. Proposed average daily injection rate = 4000 BWPD
Proposed maximum daily injection rate =7500 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 1260 psi
(0.2 psi/ft. x 6300' ft.)
 - 4. Source of injected water will be Bone Spring produced water. No compatibility problems are expected. Analyses of Delaware receiving formation and Bone Spring produced waters from analogous wells are attached.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 6300' to 7750'. Any underground water sources will be shallower than 175' based on the State Engineer records.
- IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid. If necessary, the injection interval may be fraced with up to 200,000 lbs. of sand.
- X. Well logs, if run, will be filed with the Division. A section of the neutron porosity log from an analogous well 1800' to the southwest showing the injection interval is attached.
- XI. Was able to locate two water wells within, or just outside of the 1 mile area of review. Water analyses are attached for wells located SE/4 SW/4 SE/4 Sec. 1-19S-R34E and NW/4 SW/4 Sec 6-19S-R35E.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

III.

WELL DATA

INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC

WELL NAME & NUMBER: Wild Cobra 1 State SWD 1

WELL LOCATION: 660' FNL 1980' FWL C 1 19s 34e
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See Attached Schematic
(Drill Well)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ 1900' ±

Cemented with: _____ sx. or 2650 ft³

Top of Cement: Surface Method Determined: Design

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8" @ 3550' ±

Cemented with: _____ sx. or 2200 ft³

Top of Cement: Surface Method Determined: Design

Production Casing

Hole Size: 8 3/4" Casing Size: 7" @ 8000' ±

Cemented with: _____ sx. or 1100 ft³

Top of Cement: 3050' Method Determined: Design

Total Depth: 8000' ±

Injection Interval

6300' feet to 7750'

(Perforated) or Open Hole; indicate which

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: IPC or Duoline 20
 Type of Packer: Nickel plated double grip retrievable
 Packer Setting Depth: 6250' ±
 Other Type of Tubing/Casing Seal (if applicable): NIA

Additional Data

1. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Delaware Sand

3. Name of Field or Pool (if applicable): Scharb / LaRica East

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Seven Rivers ± 3950-4100'
 Overlying: Queen ± 4550-5100' Grayburg / S. Andres ± 5500-5850'

Underlying: Bone Spring ± 9550-10900'
Morrow ± 13275-13600'

30-025-

Wild Cobra 1 State SWD 1
660' FNL, 1980' FWL
C-1-193-34e
Lea, NM

17 1/2"

13 3/8" / 54.5 / J55 / STC @ 1900' ±

2650 CF cmt. (circ)

12 1/4"

TOC 3050' Design

9 5/8" / 36 / J55 / BTC @ 3550' ±

2200 CF cmt. (circ)

8 3/4"

3 1/2" or 4 1/2" Inj Tbg

Inj Pkr 6250' ±
6300'

Delaware Sand
Disposal Interval

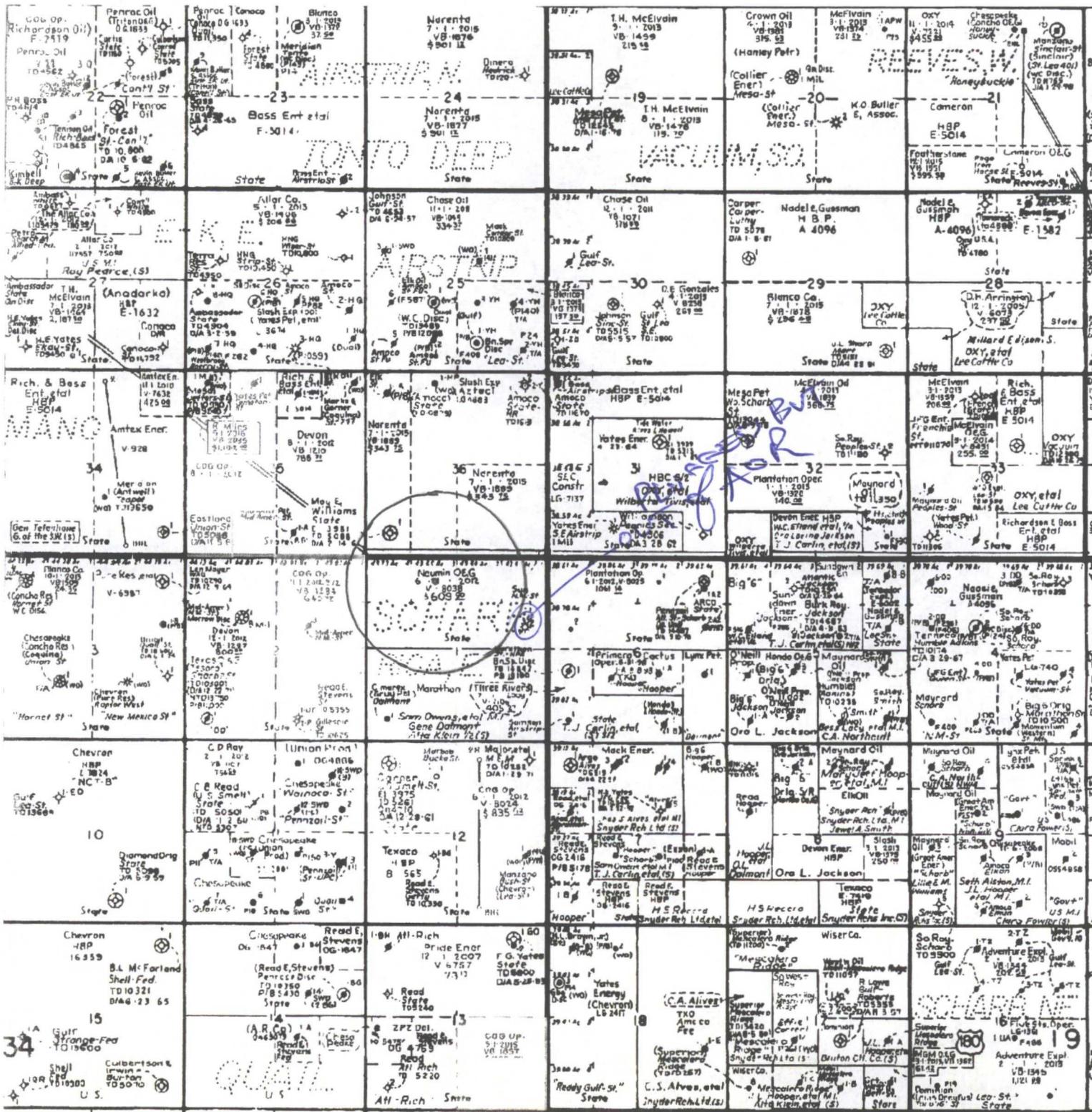
7750'

7" / 26 / J55 / LTC @ 8000' ±

1100 CF cmt

V.

MAP



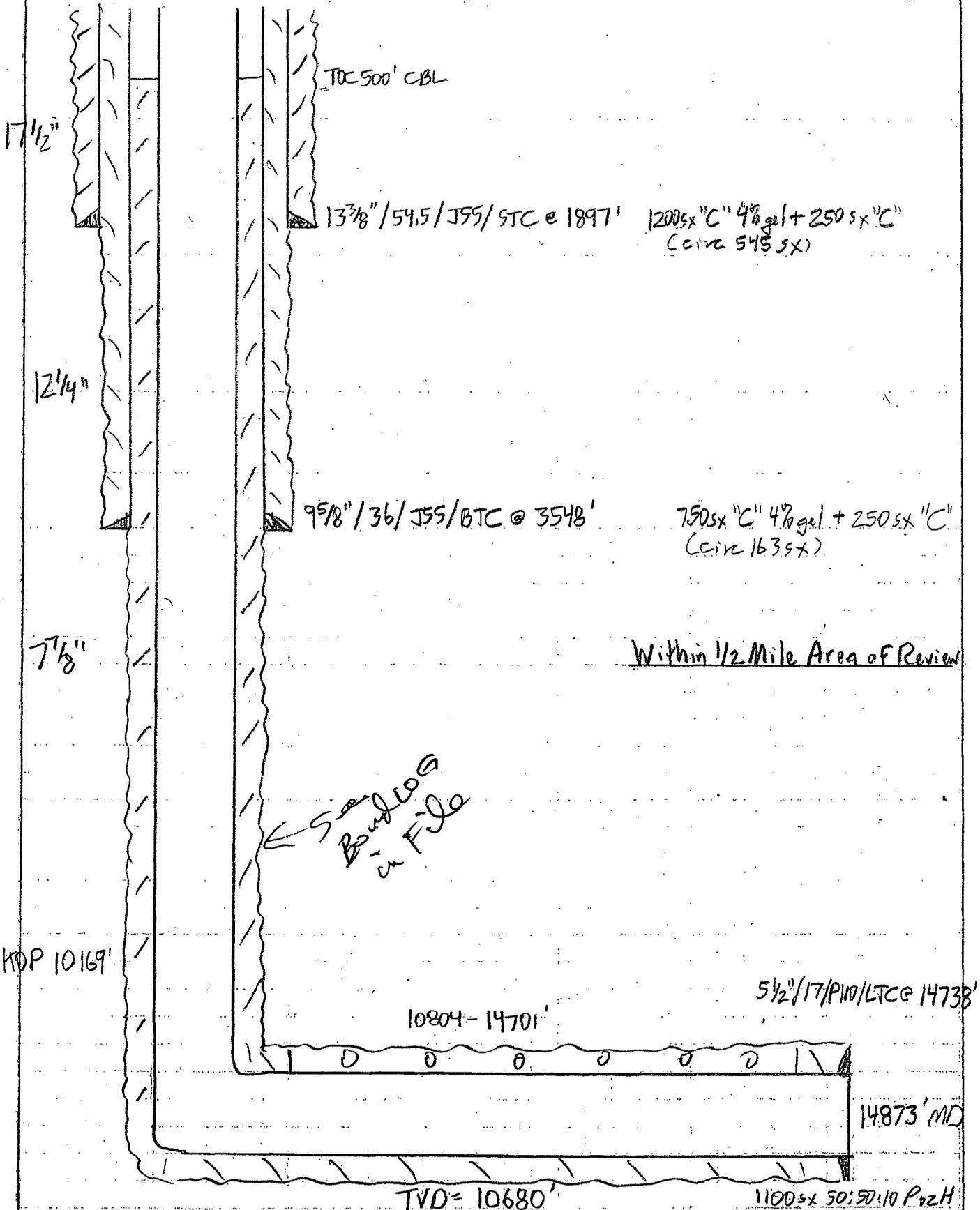
COG Operating, LLC
Wild Cobra 1 State SWD #1
Unit C, Sec 1-T19S-R34E
Lea County, NM

VI.

Wells Penetrating Proposed Disposal Interval Within Half Mile Area of Review

30-025-40404

Wild Cobra 1 9+ 2H
1815' FNL, 460' FWL, Unit E (surf)
2135' FNL, 472' FEL, Unit H (bhi)
1-195-34e
Lea, NM



TOC 500' CBL

17 1/2"

13 3/8" / 54.5 / JSS / STC @ 1897'

1200sx "C" 4 1/2 gel + 250sx "C"
(circ 545sx)

12 1/4"

9 5/8" / 36 / JSS / BTC @ 3548'

750sx "C" 4 1/2 gel + 250sx "C"
(circ 163sx)

7 1/8"

Within 1/2 Mile Area of Review

See Borelog
in File

KOP 10169'

5 1/2" / 17 / P10 / LTC @ 14738'

10804 - 14701'

14873 MD

TVD = 10680'

1100sx 50:50:10 PozH
+ 900sx Versacem
(circ 25sx)

30-025-40388

King Cobra 2 St 1H
460' FML, 460' FEL, Unit A (svrF)
338' FSL, 478' FEL, Unit P (bhl)
Z-19s-34e
Lea, NM

17 1/2"

12' 4"

7 7/8"

13 3/8" / 54.5 / J55 / STC @ 1900'

1200sx "C" 4% gal + 250sx "C"
(cave 436sx)

9 5/8" / 136 / J55 / BTC @ 3567'

750sx "C" 4% gal + 250sx "C"
(cave 165sx)

Within 1/2 Mile Area of Review

KOP 10139'

10838 - 14901'

5 1/2" / 17 / P110 / LTC @ 14940' MD

14940' MD

250sx H

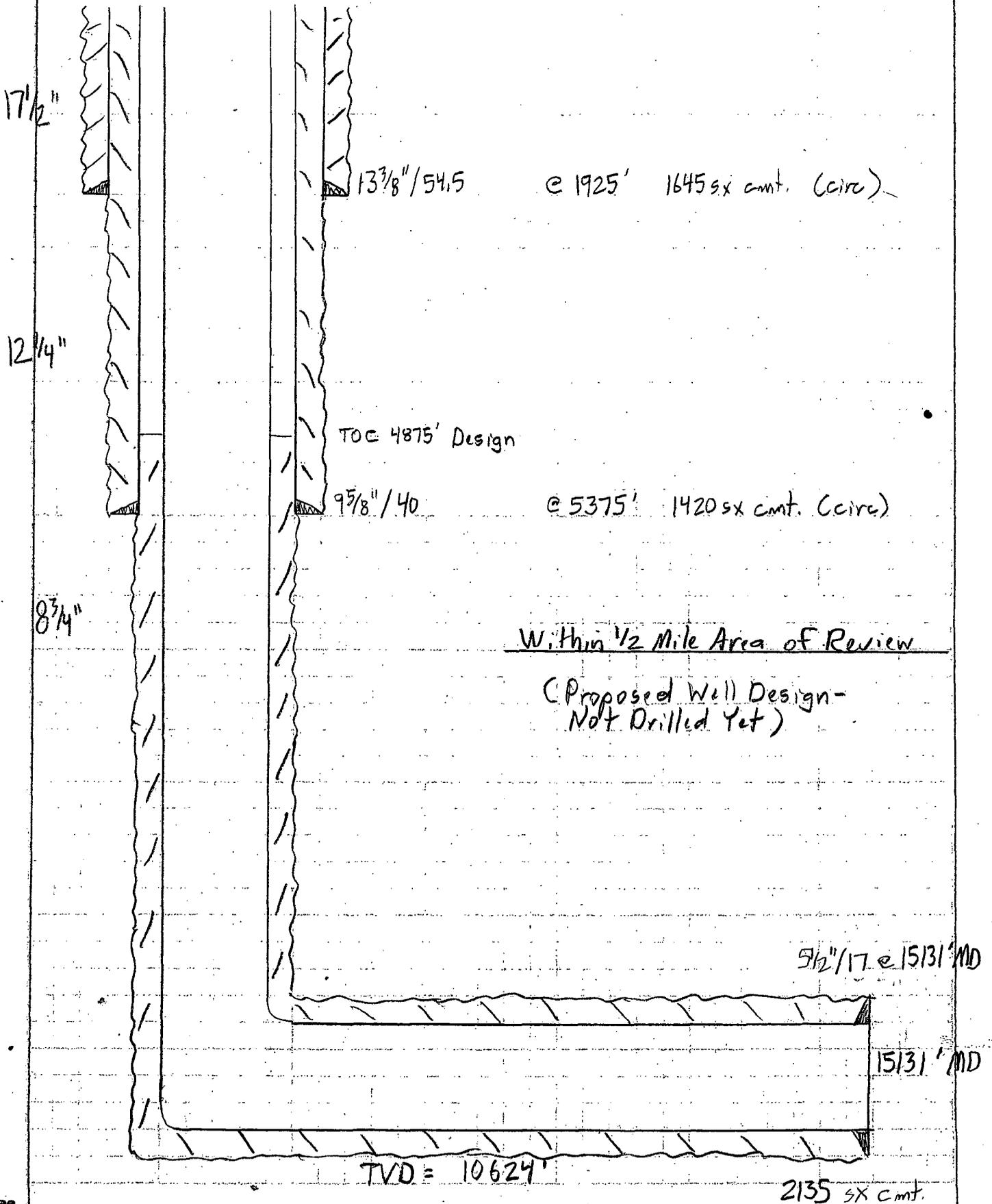
TVD 10665'

1100sx 50:50:10 Poz H +
900sx Versacem
(cave 326sx)

10950'

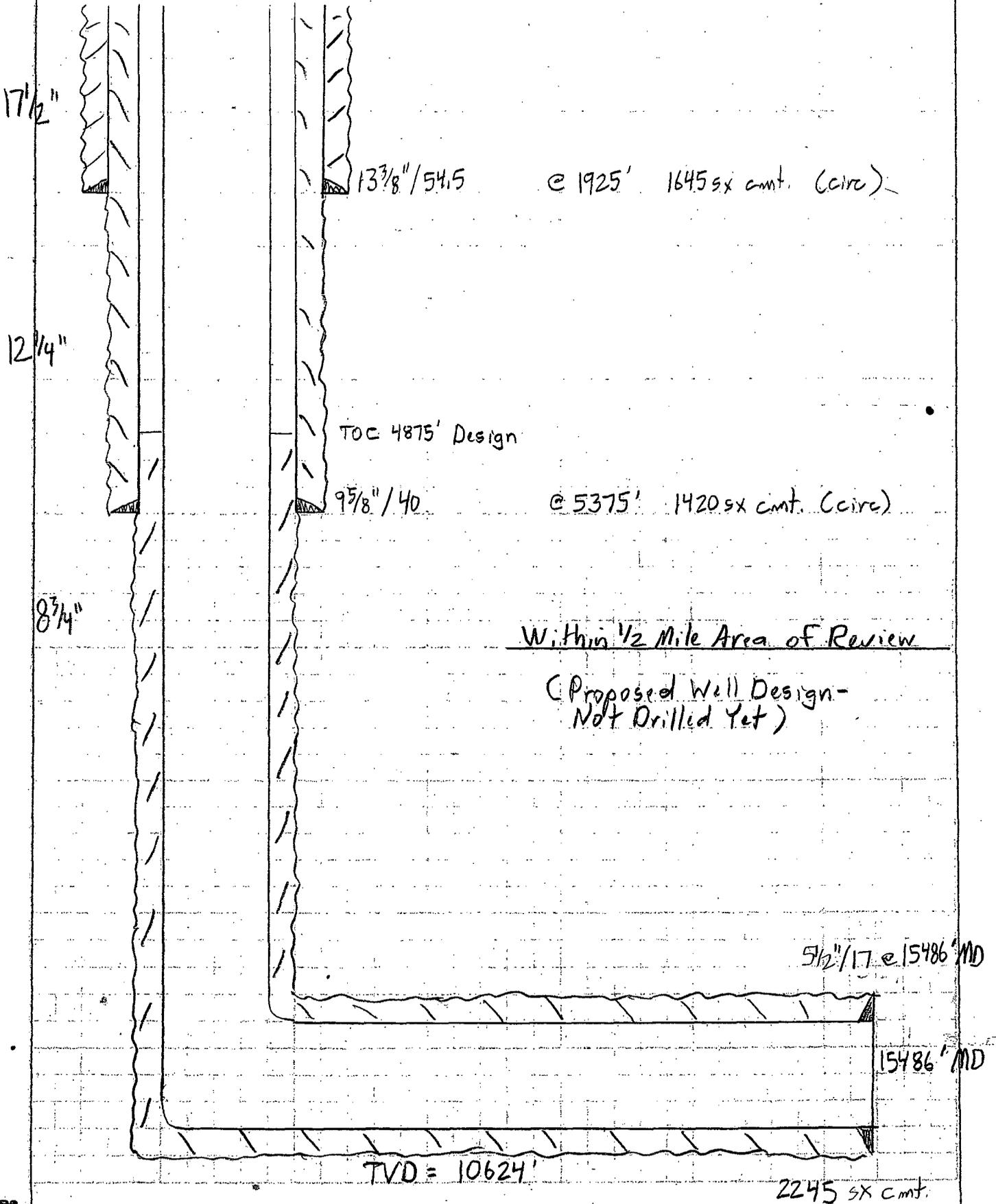
30-025-40634

Buffer Cup 35 St Comm 1H
550' FSL, 200' FEL
P-35-18s-34e
Lea, NM



30-025-40640

Buffer Cup 36 St Com 1H
500' FSL, 200' FEL
P-35-18s-34e
Lea, NM



VII.

Water Analysis Produced and Receiving Formation Water

Water Analysis of Bone Spring Representative of Produced Water

WATER CONSERVATION DIVISION
RECEIVED



APR 29 9 47 AM '94
P.O. BOX 2187
DUBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Lowell Deckert
cc: Kenny Kearney
cc:
cc:
Company: Subsurface Water Disp. Inc.
Address: P.O. Box 1002
Service Engineer: K. Kearney
Date sampled: 04/29/94
Date reported: 05/01/94
Lease or well # : Lea Bone Springs
County: Lea State: N.M.
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	160000	4513
Iron (Fe) (total)	3.0	
Total hardness	87000	
Calcium (Ca)	23458	1171
Magnesium (Mg)	6925	556
Bicarbonates (HCO3)	36	1
Carbonates (CO3)	0	
Sulfates (SO4)	548	11
Hydrogen sulfide (H2S)	n/a	
Carbon dioxide (CO2)	n/a	
Sodium (Na)	64373	2799
Total dissolved solids	255342	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	

Specific Gravity 1.182
Density (#/gal.) 9.850
pH 5.750
IONIC STRENGTH 5.39

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = +0.41
104 F = +0.64
122 F = +0.90
140 F = +1.19
158 F = +1.51

This water is 90 mg/l (-10.38%) under ITS CALCULATED
CaSO4 saturation value at 82 F.
SATURATION= 867 mg/L PRESENT= 777 mg/L

REPORTED BY ROBERT C MIDDLETON
TECHNICAL SERVICES REPRESENTATIVE

Water Analysis of Delaware Sand Representative of Receiving Formation Water

VII. PROPOSED OPERATION:

VOLUME OF FLUID TO BE INJECTED

SYSTEM TYPE:

INJECTION PRESSURE:

WATER SOURCE:

WATER ANALYSIS:

PRODUCED DELAWARE WATER FROM WELLS IN SECTIONS 1, 2, 3 & 10
T20S-R34E

MOBIL LEA STATE #1 12/9/92

TOTAL HARDNESS	1820.00	me/l
CALCIUM	32076.98	mg/l
MAGNESIUM	2673.31	mg/l
IRON	30.00	mg/l
SODIUM	44604.19	mg/l
CHLORIDE	1321995.38	mg/l 132,995
SULFATE	550.00	mg/l
CARBONATE	0.00	mg/l
BICARBONATE	183.04	mg/l
TOTAL SOLIDS	213112.90	mg/l
CARBON DIOXIDE	217.80	mg/l
pH	6.65	
SPECIFIC GRAVITY	1.14	
TDS	213115.89	
RESISTIVITY	0.057	@ 70 DEGREES

X.

**Log Across Proposed
Delaware Sand
Injection Interval**

HALLIBURTON

COMPENSATED NEUTRON
GAMMA RAY/CCL

COG OPERATING HEAD
RECEIVED
JUN 07 2012

Company COG
Well WILD COBRA 1 STATE #2H
Field LUSK; BONE SPRING
County LEA State NM

Company COG
Well WILD COBRA 1 STATE #2H
Field LUSK; BONE SPRING
County LEA State NM

API No.: 30-025-40404
Location: SHL: 1,815' FNL & 460' FWL
BHL: 2,135' FNL & 472' FEL

Other Services

NONE

Sec: 1 Twp: 19S Rge: 34E

Measurement Datum G.L. Elevation 3966'
1 Measured From K.B. 17 Ft. above perm. datum
Logging Measured From K.B.

Elevation 3983'
D.F. N/A
G.L. 3966'

Time Logged	6/3/2012	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	N/A
Driller	14741	Fluid Level	FULL
Logger	10828	Cement Top Est. Logged	500
Logged Interval	10822	Equipment / Location	133 / HOBBS
Log Interval	SURFACE	Recorded by	CHRIS KIRBY
Recorded Temp.	NOT RECORDED	Witnessed by	STEVEN BROWN
MENTING DATA	Surface	Protection	Production
	String	String	Liner

Time / Time Cemented		Production	
Pressure / Squeeze		String	
Pressure Strength	psi@ hrs		
Volume	psi@ hrs		
Type / Weight	psi@ hrs		
Mud Wgt.	psi@ hrs		
Bit	From	To	Size
5.5			
Weight	17	From	To
14737			
Surface			

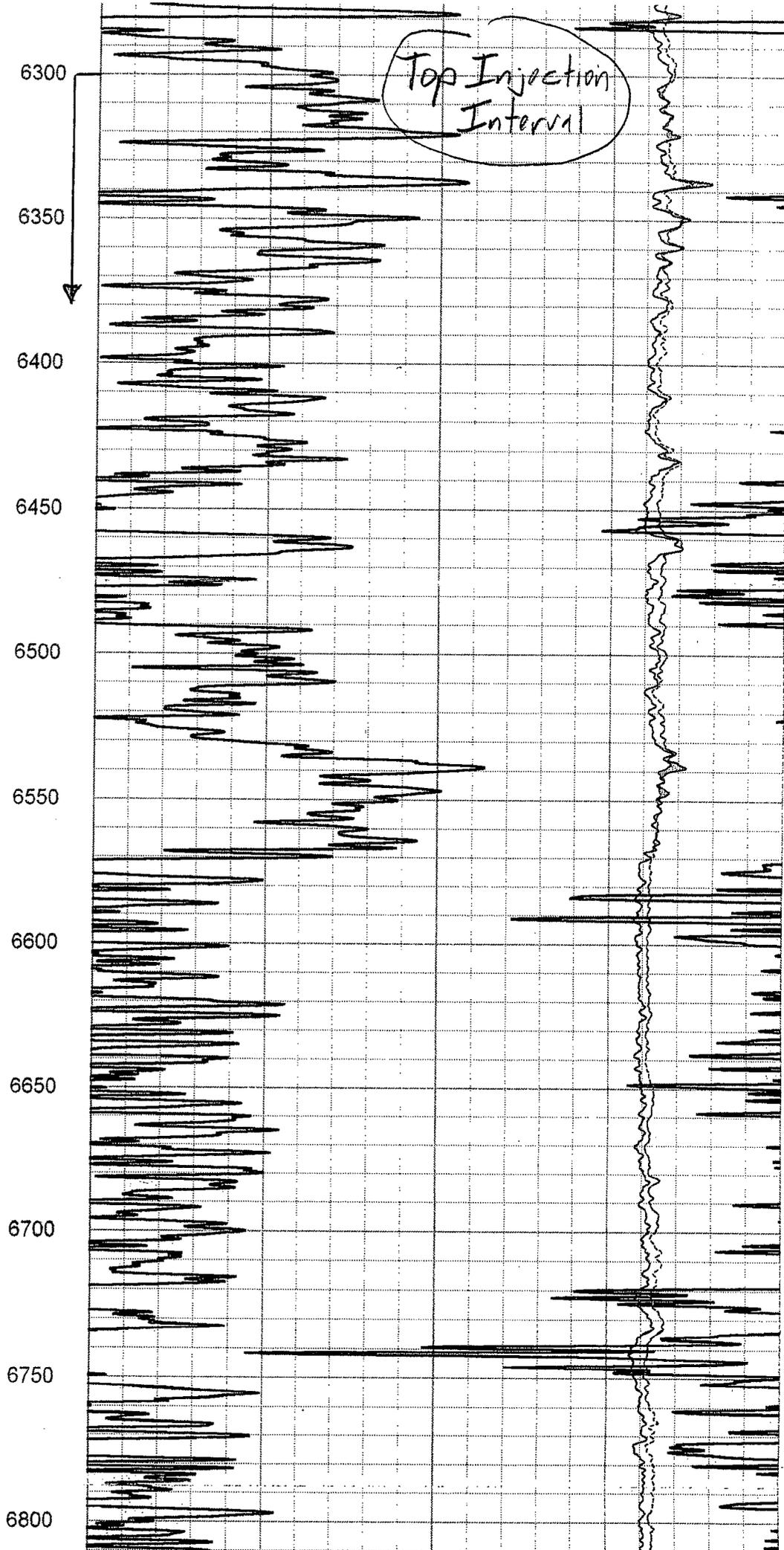
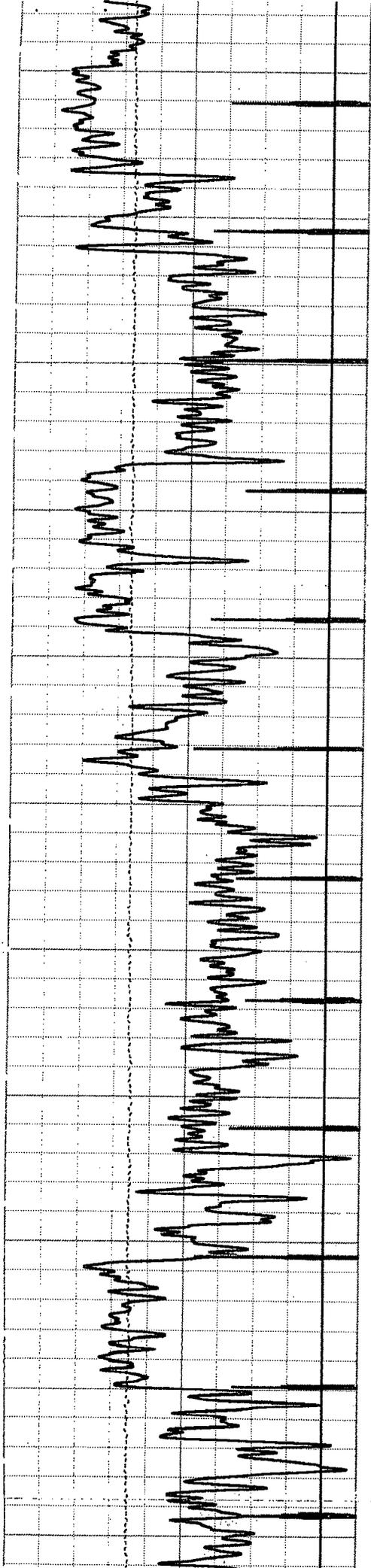
<<< Fold Here >>>

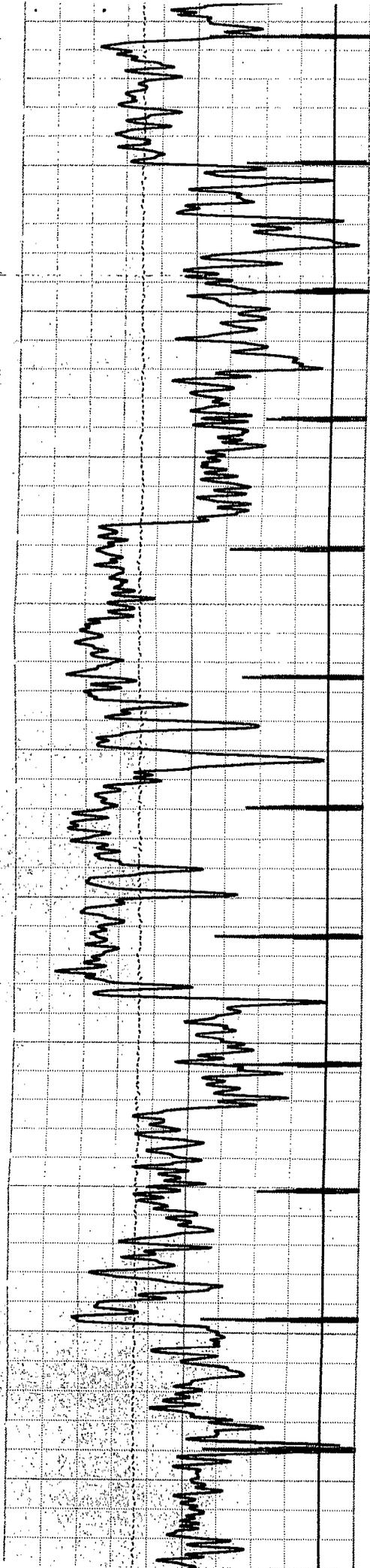
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

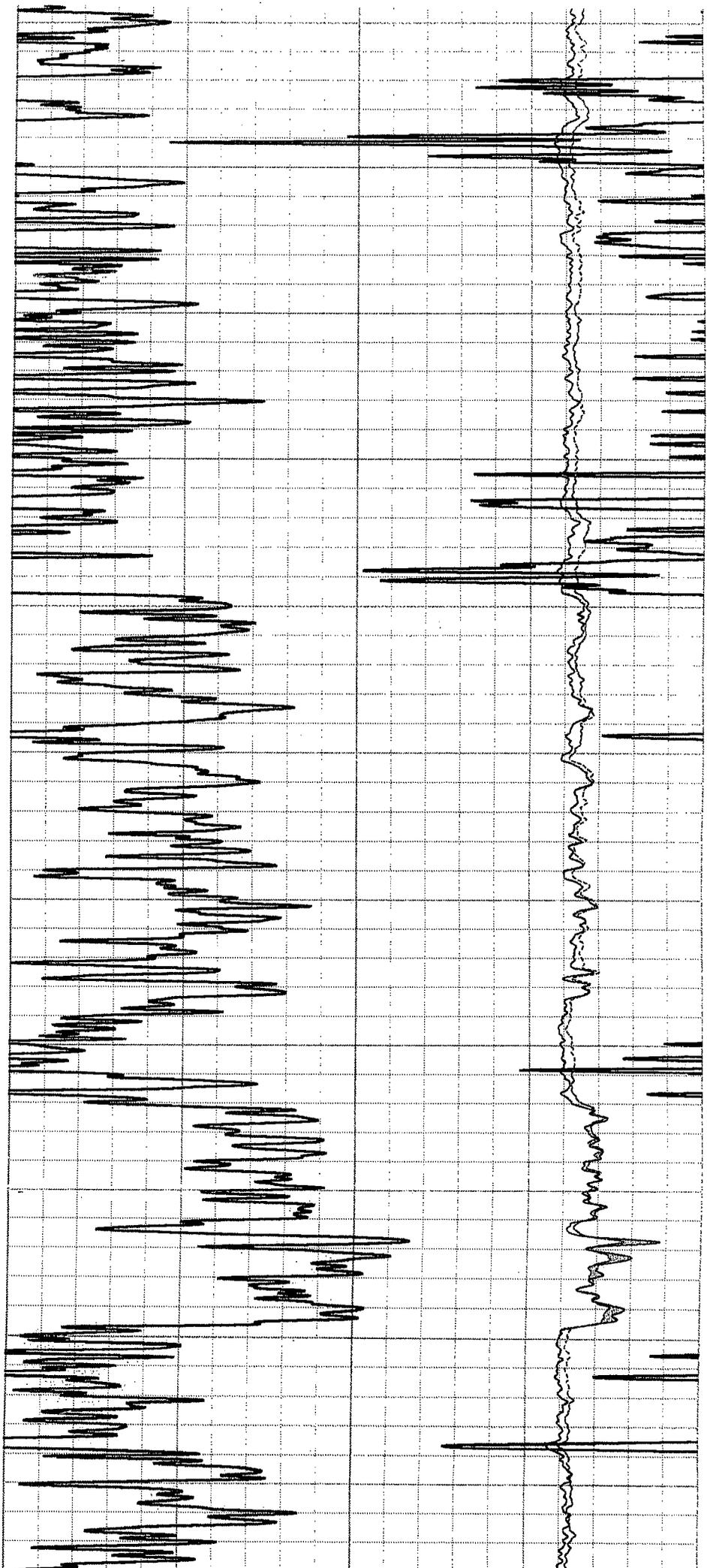
LOG RECORDED FROM 10822' TO SURFACE BASED OFF K.B.
MARKER JOINT FOUND AT 10059'
YOUR HES CREW: C. KING, Z. ANDERSON, J. WEBER, I. SALAZAR, D. CASTRO
THANK YOU FOR USING HALLIBURTON ENERGY SERVICES

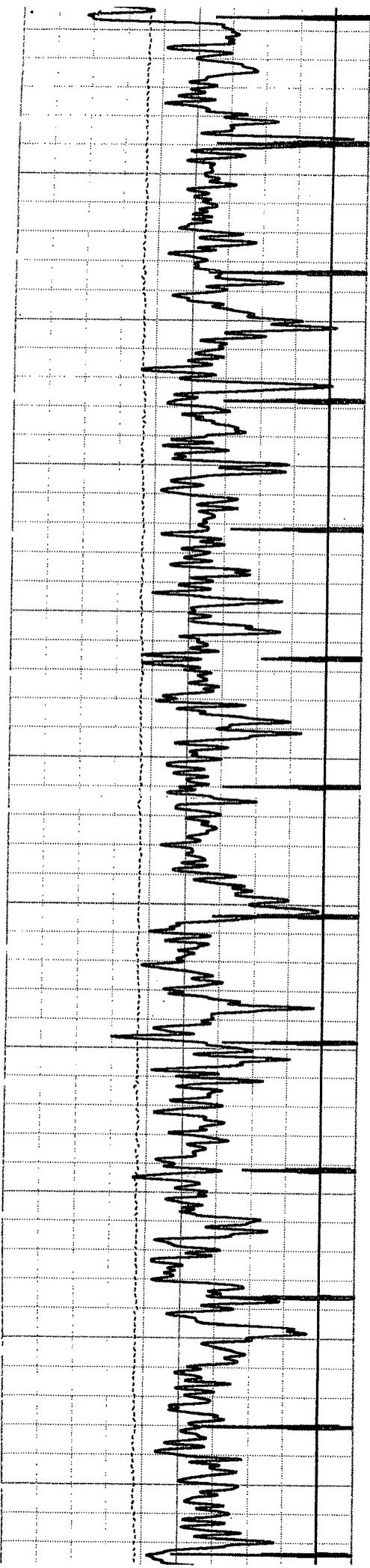
2" = 100'



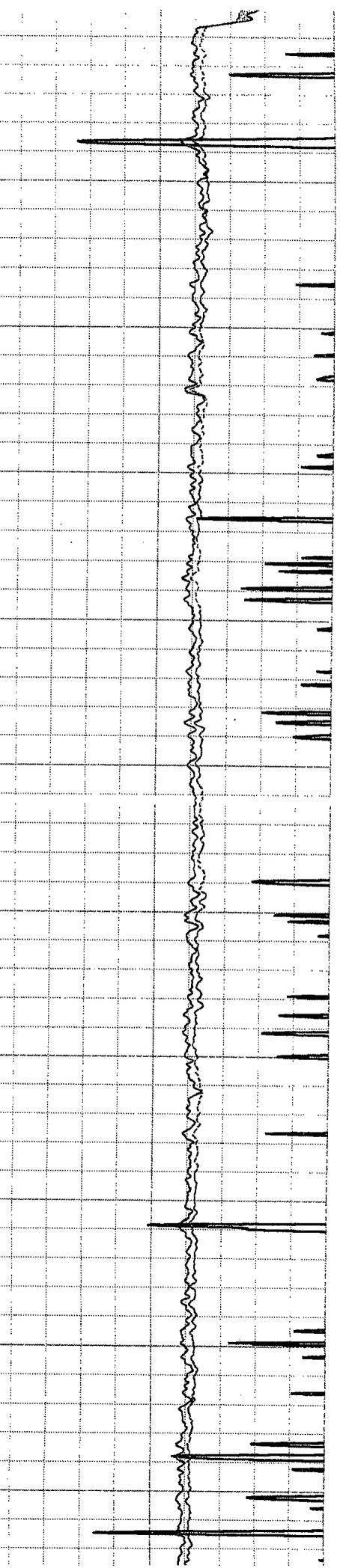
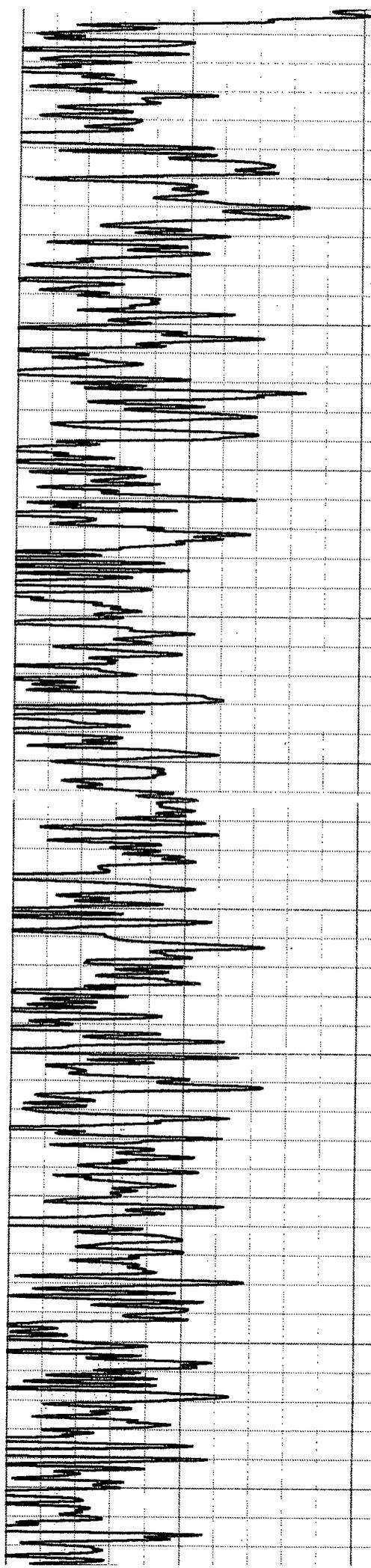


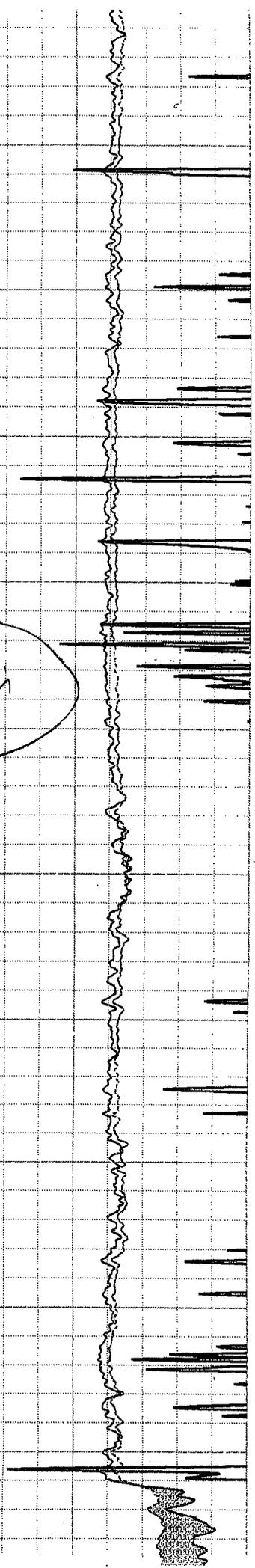
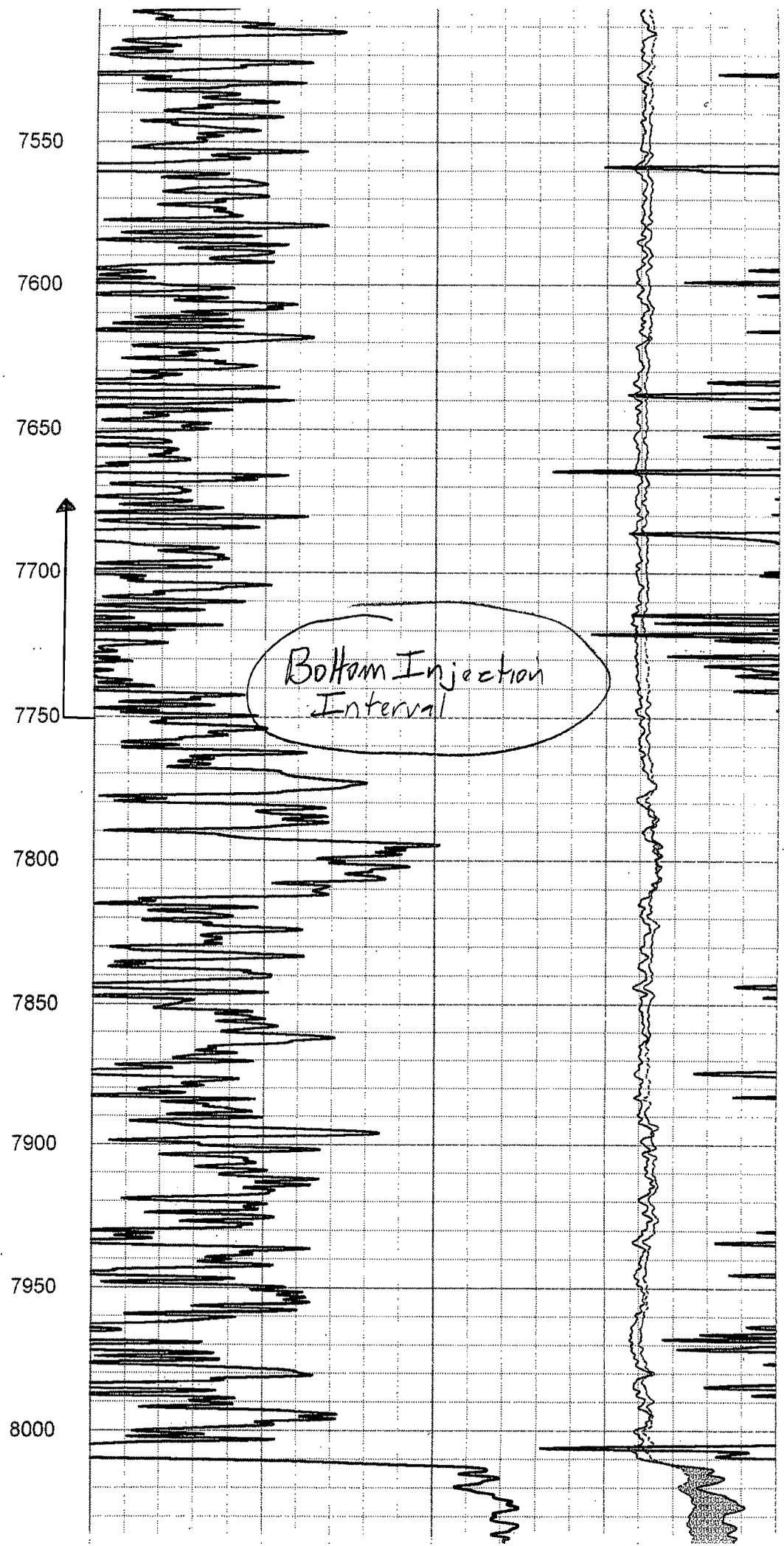
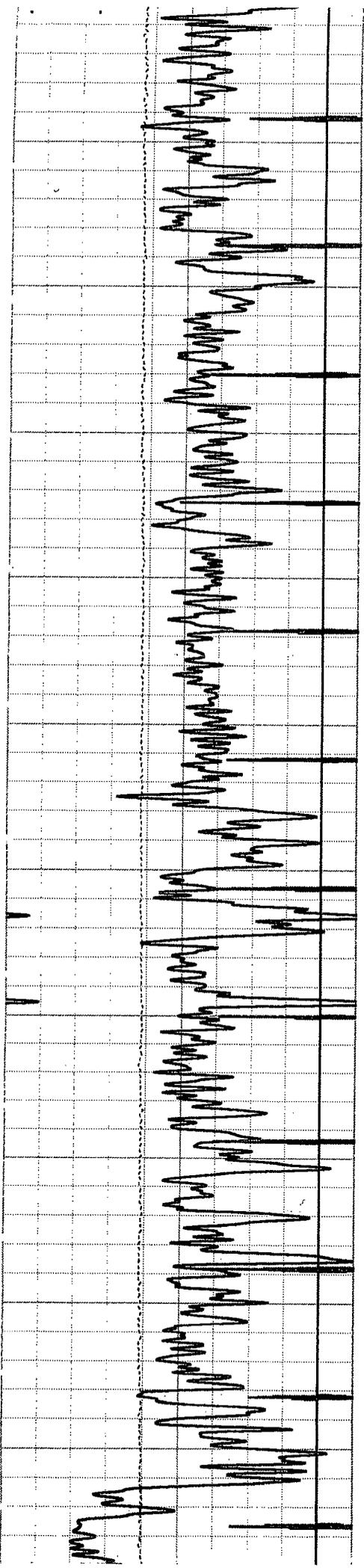
6700
6750
6800
6850
6900
6950
7000
7050
7100
7150
7200





7150
7200
7250
7300
7350
7400
7450
7500
7550
7600
7650





XI.

Fresh Water Sample Analyses

Fresh Water Well Analyses

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
 WATER ANALYSIS REPORT
 HOBBS, NEW MEXICO

COMPANY: Cog
 LEASE: L-04211 FW
L-12103 FW

REPORT DATE: W12-210
October 10, 2012
 DISTRICT: Hobbs

SUBMITTED BY Bret Barrett

TANK SAMPLE	NW SW 6-19s-35e	SE SW SE 2-19s-34e	_____	_____	_____
Sample Temp.	<u>71</u> °F	<u>71</u> °F	_____ °F	_____ °F	_____ °F
SPECIFIC GR.	<u>1.008</u>	<u>1.007</u>	_____	_____	_____
pH	<u>7.46</u>	<u>7.37</u>	_____	_____	_____
CALCIUM	<u>150</u> mpl	<u>200</u> mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>210</u> mpl	<u>210</u> mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	<u>7636</u> mpl	<u>6,030</u> mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<u><400</u> mpl	<u><400</u> mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	<u>300</u> mpl	<u>200</u> mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	<u>0</u> mpl	<u>0</u> mpl	_____ mpl	_____ mpl	_____ mpl
KCL	<u>Negative</u>	<u>Negative</u>	_____	_____	_____
	_____ mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
	_____ mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl

REMARKS

MPL = Milligrams per liter
 Resistivity measured in: Ohm/m2/m

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ANALYST: S. Herzog



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant					X	Y		
								Source	Sec	Tws	Rng				
L 11934	L	STK	3	WILBERTA TIVIS	LE	L 11934 POD1	160' Deep	Shallow	3	3	35	18S	34E	637806	3618744*

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

PLSS Search:

Section(s): 35, 36 Township: 18S Range: 34E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 11934 POD1	3 3 4	35	18S	34E	637806	3618744*

Driller License: DESERT SAND WATER WELL

Driller Name: THOMPSON, STEVE (LD)

Drill Start Date: 10/13/2006

Drill Finish Date: 10/20/2006

Plug Date:

Log File Date: 10/24/2006

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 5.00

Depth Well: 160 feet

Depth Water: 105 feet

Water Bearing Stratifications:

Top	Bottom	Description
-----	--------	-------------

105	160	Sandstone/Gravel/Conglomerate
-----	-----	-------------------------------

Casing Perforations:

Top	Bottom
-----	--------

100	160
-----	-----

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 31

Township: 18S

Range: 35E



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File.Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source			X		Y	
									64	16	4	Sec	Tws	Rng	
<u>L 01979</u>	L	IRR	0	GENE DALMONT	LE	<u>L 01979</u> <i>No Data</i>			1	4	01	19S	34E	639532	3617625*
<u>L 04059</u>	L	PRO	0	NOBLE DRILLING CO	LE	<u>L 04059</u> <i>125' Deep</i>	Shallow		4	1	12	19S	34E	639146	3616412*
<u>L 04587</u>	L	SRO	0	JOHN H. TRIGG	LE	<u>L 04587</u> <i>No Data</i>			1	1	02	19S	34E	637107	3618390*
					LE	<u>L 04587 X</u> <i>No Data</i>			2	1	02	19S	34E	637510	3618397*
<u>L 04723</u>	L	PRO	0	CACTUS DRILLING COMPANY	LE	<u>L 04723</u> <i>145' Deep</i>	Shallow		1	1	11	19S	34E	637026	3616880*
<u>L 05763</u>	L	SRO	0	THOMAS F. WELCH & ASSOCIATES	LE	<u>L 05763</u> <i>No Data</i>			2	2	02	19S	34E	638414	3618509*
					LE	<u>L 05763 X</u> <i>No Data</i>			2	2	02	19S	34E	637609	3618496*
<u>L 06731</u>	L	PRO	0	M G F	LE	<u>L 06731</u> <i>120' Deep</i>	Shallow		3	2	12	19S	34E	639844	3616727*
<u>L 10380</u>	L	STK	3	CHARLES B. GILLESPIE, JR.	LE	<u>L 10380</u> <i>153' Deep</i>	Shallow		4	4	02	19S	34E	638428	3617102*
<u>L 12103</u>	L	STK	3	SNYDER RANCHES	LE	<u>L 12103</u> <i>POD1 120' Deep</i>	Shallow		4	3	02	19S	34E	637936	3617173
<u>L 12957</u>	L	PRO	0	GLENN'S WATER WELL SRVC, INC.	LE	<u>L 12103</u> <i>POD1 120' Deep</i>	Shallow		4	3	02	19S	34E	637936	3617173
<u>L 12958</u>	L	PRO	0	GLENN'S WATER WELL SRVC, INC.	LE	<u>L 12958</u> <i>POD1 No Data</i>	Shallow		3	4	02	19S	34E	637498	3617839
<u>L 13016</u>	L	PRO	0	TD WATER SERVICES	LE	<u>L 12103</u> <i>POD1 120' Deep</i>	Shallow		4	3	02	19S	34E	637936	3617173
<u>L 13017</u>	L	PRO	0	TD WATER SERVICES	LE	<u>L 12958</u> <i>POD1 No Data</i>	Shallow		3	4	02	19S	34E	637498	3617839

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Record Count: 14

PLSS Search:

Section(s): 1, 2, 11, 12

Township: 19S

Range: 34E

Sorted by: File Number



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

L 04059

4 1 12 19S 34E

639146 3616412*

Driller License: ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 01/29/1959

Drill Finish Date: 01/29/1959

Plug Date: 06/05/1959

Log File Date: 02/05/1959

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 125 feet

Depth Water: - 60 feet

Water Bearing Stratifications:

Top Bottom Description

60 125 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

70 125

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 06731	3 2 2	12	19S	34E	639844	3616727*

Driller License: ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 11/14/1970	Drill Finish Date: 11/15/1970	Plug Date:
Log File Date: 11/16/1970	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 120 feet	Depth Water: 80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	80	120

*UTM location was derived from PLSS - see Help .

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 10380	4 4 4	02	19S	34E	638428	3617102*

Driller License: ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MURREL

Drill Start Date: 03/08/1994

Drill Finish Date: 03/11/1994

Plug Date:

Log File Date: 03/16/1994

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 5.50

Depth Well: 153 feet

Depth Water: 100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	100	153	Other/Unknown

Casing Perforations:	Top	Bottom
	78	153

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 12103 POD1	4	3	4	02	19S	34E	637936	3617173

Driller License: UNKNOWN

Driller Name: EXISTING WELL

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 120 feet

Depth Water:



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 12103 POD1	4	3	4	02	19S	34E	637936	3617173

Driller License: UNKNOWN

Driller Name: EXISTING WELL

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 120 feet

Depth Water:



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 12103 POD1	4	3	4	02	19S	34E	637936	3617173

Driller License: UNKNOWN

Driller Name: EXISTING WELL

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 120 feet

Depth Water:



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest) (NAD83 UTM in meters)				
									Source	q	q	q	X	Y			
<u>L 03145</u>	L	PRO	0	PETE LOMAX DRILLING CO.	LE	<u>L 03145</u>			Shallow	1	1	07	19S	35E	640347	3616866*	
<u>L 04211</u>	L	DOM	3	GENE DALMONT	LE	<u>L 04211</u>			Shallow	1	3	06	19S	35E	640337	3617672*	
<u>L 04211 A</u>	L	COM	0	WYLIE BROTHERS CONSTRUCTION CO	LE	<u>L 04211</u>			Shallow	1	3	06	19S	35E	640337	3617672*	
<u>L 04762</u>	L	COM	44.8	RITTENHOUSE OIL & GAS COMPANY	LE	<u>L 04762</u>			Shallow			06	19S	35E	640945	3617872*	
<u>L 05217</u>	L	PRO	0	CACTUS DRILLING CORPORATION	LE	<u>L 05217</u>			Shallow	2	2	07	19S	35E	641547	3616879*	
<u>L 05220</u>	L	PRO	0	WILLIAM W CARLIN	LE	<u>L 05220</u>			Shallow	1	4	06	19S	35E	641131	3617681*	
<u>L 05246</u>	L	PRO	0	HUMBLE OIL & REFINING COMPANY	LE	<u>L 05246</u>			Shallow	3	1	2	07	19S	35E	641043	3616774*
<u>L 06301</u>	L	PRO	0	CACTUS DRILLING CORP OF TEXAS	LE	<u>L 06301</u>				2	3	07	19S	35E	640754	3616063*	
<u>L 06468</u>	L	PRO	0	GULF OIL CORPORATION	LE	<u>L 06468</u>				1	1	1	07	19S	35E	640246	3616965*

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 9

PLSS Search:

Section(s): 6, 7

Township: 19S

Range: 35E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
L 03145	1 1 07 19S 35E	640347	3616866*

Driller License: ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MURRELL

Drill Start Date: 03/12/1956 **Drill Finish Date:** 03/12/1956 **Plug Date:** 04/12/1957

Log File Date: 03/23/1956 **PCW Rcv Date:** 03/23/1956 **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 97 feet **Depth Water:** 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	93	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	45	88

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
L 04211	1 3 06 19S 35E	640337	3617672*

Driller License: O.R. MUSSELWHITE WATER WELL SE

Driller Name:

Drill Start Date: 07/25/1959

Drill Finish Date: 07/26/1959

Plug Date:

Log File Date: 08/13/1959

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 130 feet

Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	125	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	130

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

L 04762

06 19S 35E

640945 3617872*

Driller License: VAN NOY, W.L.

Driller Name:

Drill Start Date: 05/07/1962

Drill Finish Date: 05/08/1962

Plug Date:

Log File Date: 05/11/1962

PCW Rcv Date: 07/23/1962

Source: Shallow

Pump Type: TURBIN

Pipe Discharge Size: 4

Estimated Yield: 120

Casing Size: 7.00

Depth Well: 175 feet

Depth Water: 130 feet

Water Bearing Stratifications: **Top Bottom Description**

130 168 Shallow Alluvium/Basin Fill

Casing Perforations: **Top Bottom**

130 170

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

L 05217

2 2 07 19S 35E

641547 3616879*

Driller License: BAKER, E.B. DRILLING COMPANY

Driller Name: BAKER, E.B.

Drill Start Date: 08/06/1963

Drill Finish Date: 08/07/1963

Plug Date: 01/06/1965

Log File Date: 09/14/1964

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 105 feet

Depth Water: 55 feet

Water Bearing Stratifications:

Top Bottom Description

55 85 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

55 105

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

L 05220

1 4 06 19S 35E

641131 3617681*

Driller License: O.R. MUSSELWHITE WATER WELL SE

Driller Name: MUSSELWHITE, O.R.

Drill Start Date: 08/01/1963

Drill Finish Date: 08/31/1963

Plug Date: 06/25/1964

Log File Date: 08/26/1964

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 100 feet

Depth Water: 55 feet

Water Bearing Stratifications:

Top Bottom Description

65 90 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

57 100

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

L 05246

3 1 2 07 19S 35E

641043 3616774*

Driller License: ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 09/25/1963

Drill Finish Date: 09/25/1963

Plug Date: 09/15/1964

Log File Date: 10/03/1963

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 100 feet

Depth Water: 60 feet

Water Bearing Stratifications:

Top Bottom Description

60 90 Sandstone/Gravel/Conglomerate

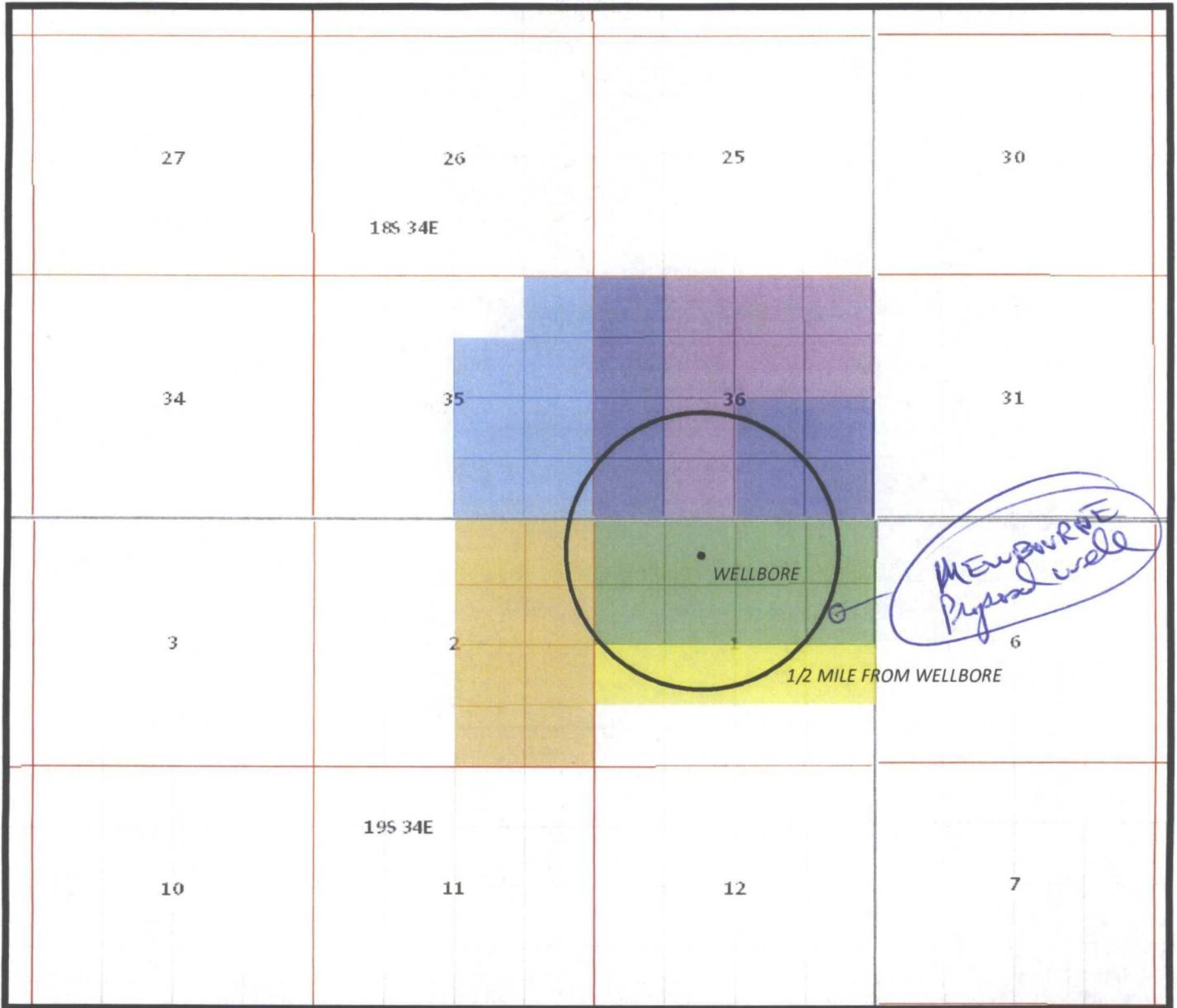
Casing Perforations:

Top Bottom

60 90

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



- Devon Energy Production Company LP
- Devon Energy Production Company LP
- Slash Exploration LP
Armstrong Energy Corporation
- COG Operating LLC
- Black Crown Energy Partners, LP
- Diamondback Resources, LLC

Wild Cobra 1 State SWD No. 1
660' FNL & 1980' FWL
Section 1; T19s - R34e
Lea County, New Mexico



November 5, 2012

Hobbs News-Sun
P.O. Box 850
Hobbs, NM 88240

**Re: Legal Notice
Salt Water Disposal Well
Wild Cobra 1 State SWD #1**

To Whom It May Concern:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at:

COG Operating LLC, 2208 W. Main St., Artesia, NM 88210

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

HOBBS NEWS-SUN
LEGAL NOTICES

COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Wild Cobra 1 State SWD No. 1 is located 660' FNL & 1980' FWL, Section 1, Township 19 South, Range 34 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Delaware formation at a depth of 6300' to 7750' at a maximum surface pressure of 1260 psi and a maximum rate of 7,500 BWPD. The proposed SWD well is located approximately 25 miles west of Hobbs. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210, or call 575-748-6940.

Published in the Hobbs News-Sun, Hobbs, New Mexico
_____, 2012.



November 5, 2012

Black Crown Energy Partners, LP
303 Veterans Air Park Lane, Suite 6101
Midland, TX 79705

Re: Application to Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



November 5, 2012

Devon Energy Production Co., LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102-5010

Re: Application to Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



November 5, 2012

Diamondback Resources LLC
303 Veterans Airpark Lane
Midland, TX 79705

Re: Application to Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



November 5, 2012

New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

Re: Application to Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



November 5, 2012

Slash Exploration LP/Armstrong Energy Corp.
P.O. Box 1973
Roswell, NM 88202

Re: Application to Inject
Wild Cobra 1 State SWD #1
Township 19 South, Range 34 East, N.M.P.M.
Section 1: 660' FNL & 1980' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

Affidavit of Publication

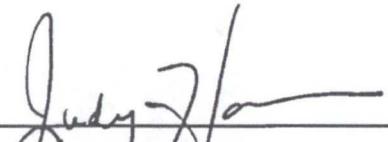
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

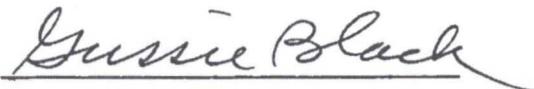
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
November 07, 2012
and ending with the issue dated
November 07, 2012

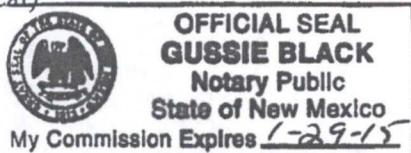

PUBLISHER

Sworn and subscribed to before me
this 7th day of
November, 2012



Notary Public

My commission expires
January 29, 2015
(Seal)



This newspaper is duly qualified to
publish legal notices or
advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.

LEGAL	LEGAL
LEGAL NOTICES November 7, 2012	
COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Wild Cobra 1 State SWD No. 1 is located 660' FNL & 1980' FWL, Section 1, Township 19 South, Range 34 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Delaware formation at a depth of 6300' to 7750' at a maximum surface pressure of 1260 psi and a maximum rate of 7,500 BWPD. The proposed SWD well is located approximately 25 miles west of Hobbs. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210, or call 575-748-6940. #27697	

02107967 00103853
COG OPERATING LLC
FASKEN CENTER, TOWER II
550 W. TEXAS AVE., STE 1300
MIDLAND, TX 79701

Wild Cobra 1 State SWD #1
Sent certified mailers on 11/5/12

7011 1570 0003 6369 6916

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **Black Crown Energy Partners, LP**
303 Veterans Airpark Lane, Ste. 6101
 Street, Apt. No., or PO Box No.
Midland, TX 79705
 City, State, ZIP+4
Wild Cobra 1 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **Devon Energy Production Co., LP**
333 W. Sheridan Ave.
 Street, Apt. No., or PO Box No.
Oklahoma City, OK 73102-5010
 City, State, ZIP+4
Wild Cobra 1 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **Diamondback Resources LLC**
303 Veterans Airpark Lane
 Street, Apt. No., or PO Box No.
Midland, TX 79705
 City, State, ZIP+4
Wild Cobra 1 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0003 6369 6940

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **New Mexico State Land Office**
P.O. Box 1148
 Street, Apt. No., or PO Box No.
Santa Fe, NM 87504-1148
 City, State, ZIP+4
Wild Cobra 1 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0003 6369 6952

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **Slash Exploration LP**
Armstrong Energy Corp.
 Street, Apt. No., or PO Box No.
P.O. Box 1973
Roswell, NM 88202
 City, State, ZIP+4
Wild Cobra 1 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Black Crown Energy Partners, LP
303 Veterans Airpark Lane, Ste. 6101
Midland, TX 79705
Wild Cobra 1 St. SWD #1/Notification

2. Article Number

(Transfer from service label)

7011 1570 0003 6389 6919

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-15

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* Agent Addressee

B. Received by (Printed Name)

Suzanne Williams C. Date of Delivery

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type

Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148
Wild Cobra 1 St. SWD #1/Notification

2. Article Number

(Transfer from service label)

7011 1570 0003 6389 6940

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-15

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* Agent Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type

Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

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Slash Exploration LP
Armstrong Energy Corp.
P.O. Box 1973
Roswell, NM 88202
Wild Cobra 1 St. SWD #1/Notification

2. Article Number

(Transfer from service label)

7011 1570 0003 6389 6957

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-15

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Vincent Sexton* Agent Addressee

B. Received by (Printed Name)

Vincent Sexton C. Date of Delivery

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type

Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Diamondback Resources LLC
 303 Veterans Airpark Lane
 Midland, TX 79705
 Wild Cobra 1 St. SWD #1/Notification

2. Article Number
(Transfer from service label)

7011 1570 0003 6389 6933

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Dee McDonald* Agent Addressee

B. Received by (Printed Name)
DEE McDONALD

C. Date of Delivery
11-7-12

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Energy Production Co., LP
 333 W. Sheridan Ave.
 Oklahoma City, OK 73102-5010
 Wild Cobra 1 St. SWD #1/Notification

2. Article Number
(Transfer from service label)

7011 1570 0003 6389 6926

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* Agent Addressee

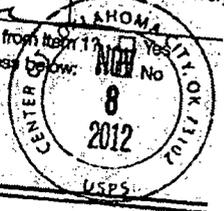
B. Received by (Printed Name)
[Signature]

C. Date of Delivery
NOV 8 2012

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes



Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, December 19, 2012 4:51 PM
To: 'Brian Collins'
Cc: Kautz, Paul, EMNRD; Warnell, Terry G. (twarnell@slo.state.nm.us)
Subject: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD #1 30-025-NA
Lot 3/1/19S/34E/Lea County

Hello Brian,

There is a Wildcat Delaware oil completion in Section 6 to the east, but it may be higher on structure and seems to be very low production – is that true?
Does your proposed Delaware disposal well have any possibility of production?

Only thing I need is the actual newspaper notice.

Thank You Sir

Will Jones

Submit To Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Avenue, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources
RECEIVED
DEC 10 2009
HOBBS
 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-105
 Revised June 10, 2003
 WELL API NO.
 30-025-38642
 5. Indicate Type of Lease
 STATE FEE
 State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
 OIL WELL GAS WELL DRY OTHER _____
 b. Type of Completion:
 NEW WORK DEEPEN PLUG DIFF.
 WELL OVER BACK RESVR. OTHER

7. Lease Name or Unit Agreement Name
Silver Oak

2. Name of Operator
 Plantation Operating, LLC

8. Well No.
1

3. Address of Operator
 4700 W. Sam Houston Parkway N., Suite 140, Houston, TX 77041

9. Pool name or Wildcat
 Wildcat Delaware **<97221>**

4. Well Location
 Unit Letter **B** ; **660** Feet From The **North** Line and **1980** Feet From The **East** Line
 Section **6** Township **19S** Range **35E** NMPM Lea **County**

10. Date Spudded 1/15/2008 11. Date T.D. Reached 2/10/2008 12. Date Compl. (Ready to Prod.) 11/11/2009 13. Elevations (DF & RKB, RT, GR, etc.) 3938' GR 14. Elev. Casinghead

15. Total Depth 11,500' 16. Plug Back T.D. 9595' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 19. Producing Interval(s), of this completion - Top, Bottom, Name 6730-6736' Wildcat Delaware 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run 22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13.375"	48#	425'	17.5"	440 sx	15 sx
8.625"	32#	3450'	11"	1100 sx	215 sx
5.5"	17#	11,500'	7.875"	2550 sx	331 sx

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	6,873	

26. Perforation record (interval, size, and number)
 6,730-6,736', 6 SPF, 36 holes, .42 shot size
 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
 DEPTH INTERVAL 6,730-6,736'
 AMOUNT AND KIND MATERIAL USED Acidized w/1000 gals 2% KCl. Frac with 37,254 gals Viking 2500 XL gel + 25,000# 20/40 white sand.

28. PRODUCTION

Date First Production 11/19/2009		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping			Well Status (Prod. or Shut-in) Producing		
Date of Test 11/19/2009	Hours Tested 24 hrs.	Choke Size Open	Prod'n For Test Period	Oil - Bbl 3	Gas - MCF 0	Water - Bbl. 31	Gas - Oil Ratio
Flow Tubing Press	Casing Pressure 40	Calculated 24-Hour Rate	Oil - Bbl. 3	Gas - MCF 0	Water - Bbl. 31	Oil Gravity - API - (Corr) 39.7	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By

30. List Attachments

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature **Kimberly Faldyn** Printed Name **Kimberly Faldyn** Title **Engineering Tech** Date **12/9/2009**
 E-mail Address **kfaldyn@plantationpetro.com**

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Thursday, December 20, 2012 8:17 AM
To: Jones, William V., EMNRD
Cc: Bobbie Goodloe
Subject: RE: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD #1 30-025-NA Lot 3/1/19S/34E/Lea County

Will:

I'll verify on the Delaware well in Sec 6 and let you know. I don't expect Delaware potential, but plan to mud log this well (and all SWD drill wells) to make sure we don't inject water into any good shows. If we see good shows, we'll make sure we don't perforate in or too close to them. Bobbie is out until next week. I'll have her send you the affidavit/ad when she gets back. Thanks. ---Brian

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Wednesday, December 19, 2012 5:51 PM
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Cc: Kautz, Paul, EMNRD; Warnell, Terry G.
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Does your proposed Delaware disposal well have any possibility of production?

Only thing I need is the actual newspaper notice.

Thank You Sir

Will Jones

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Wednesday, December 26, 2012 9:34 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD #1 30-025-NA Lot 3/1/19S/34E/Lea County

Will:

I believe the well you're referring to is the Silver Oak No. 1, located 1.25 miles east of the Wild Cobra 1 St SWD 1, in which the Delaware 6730-6736' is down hole commingled with two other Bone Spring zones. My best correlation is that this zone is stratigraphically equivalent to the interval 6780-6786' in the proposed SWD well, making it 31' low on a subsea basis to the Silver Oak No. 1. The reported production on the Delaware zone was 3 BOPD/3MCFPD/50 BWPD in June 2010 when the DHC application was submitted. The current well production from all the commingled zones has averaged about 0.66 BOPD and 3 BWPD for 2012. I think the risk of harm to the producing zone on the Silver Oak No. 1 is low due to the distance between wells, the structural difference between the wells and the fact that the Silver Oak No. 1 is currently marginally productive out of the Delaware and two Bone Spring zones.

As shown below, we plan to mud log the Delaware when we drill the well to ensure we don't inject water into any zones having good shows. I think it unlikely that we will encounter potentially commercial Delaware zones within the proposed disposal interval. Hope this answers your questions. Thanks.

Brian

From: Brian Collins
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Cc: Bobbie Goodloe
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Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, December 26, 2012 3:07 PM
To: 'Brian Collins'
Cc: Kautz, Paul, EMNRD
Subject: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD #1 30-025-NA Lot 3/1/19S/34E/Lea County Delaware disposal from 6300 (or top of Delaware) down to 7750 feet

Brian,

Thanks for this!

I was just looking at the proposed wells to be drilled in this Section and see that Mewbourne Oil Company will spud a horizontal BS well in Unit H (30-025-40884) and the application didn't say how high they would bring cement on the production string.

The ownership map from the COG land group shows Black Crown Energy Partners, LP as owning the N/2 of this Section 1 and doesn't mention Mewbourne.

Mewbourne was not noticed of this SWD well.

Would you ask Land about this? ... And do you think their cement design is OK for your SWD well in the Delaware?

Will

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Sent: Wednesday, December 26, 2012 9:34 AM
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Brian

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Thursday, December 27, 2012 10:11 AM
To: Jones, William V., EMNRD
Cc: Dean Chumbley; Bobbie Goodloe
Subject: RE: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD #1 30-025-NA Lot 3/1/19S/34E/Lea County Delaware disposal from 6300 (or top of Delaware) down to 7750 feet

Will:

When I originally researched wells in this section for the C108, the Mewbourne well wasn't posted in the OCD Online.

I downloaded the application and here's what Mewbourne is up to. The surface location is in Section 1-19s-34e (barely, 150' FEL) but the horizontal lateral will be drilled east in Section 6-19s-35e. Their surface location is outside the ½ mile area of review (3258' to the east southeast of our location).

Mewbourne is not a leaseholder in Section 1-19s-34e where our SWD is located so we are good on our leasehold operator notification.

Cement design-wise, I think their intent is to place cement behind the 7" set at 10950' so that it overlaps into the 9-5/8" to be set at 3410'. For the worst case (1100 sx Class H at 1.18 CF/Sack, 50% washout factor on 8-3/4" hole), I calculate a TOC of 5200' on the 7" string which is 1100' above the proposed top of our disposal interval at 6300'.

In summary, I think we are good on lease operator notification, wells within ½ mile AOR and on proposed TOC on the Mewbourne well. Hope this fixes you up. Let me know if you need anything else. Thanks.

Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Wednesday, December 26, 2012 4:07 PM
To: Brian Collins
Cc: Kautz, Paul, EMNRD
Subject: Disposal application from COG Operating LLC: Wild Cobra 1 State SWD. #1 30-025-NA Lot 3/1/19S/34E/Lea County Delaware disposal from 6300 (or top of Delaware) down to 7750 feet

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Mewbourne was not noticed of this SWD well.

Would you ask Land about this? ... And do you think their cement design is OK for your SWD well in the Delaware?

Will

Injection Permit Checklist (11/15/2010)

LOT 3 11/11/13 **(U/F/M)**
~~12/12~~ ~~07/10~~

WFX _____ PMX _____ SWD 1377 Permit Date _____ UIC Qtr _____

Wells 1 Well Name(s): WILD COBRA 1 STATE SWD #1

API Num: 30-025- Spud Date: Nov 12 New/Old: N (UIC primacy March 7, 1982)

Footages 666 FNL/1980 FWL Unit C Sec 1 Tsp 195 Rge 34E County LEA

General Location: _____

Operator: COG OPERATING LLC Contact BRIAN COLLINS

OGRID: 229137 RULE 5.9 Compliance (Wells) 2755 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed none Current Status: _____

Planned Work to Well: _____

Diagrams: Before Conversion _____ After Conversion Elogs in Imaging File: New well

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
New <input checked="" type="checkbox"/> Existing _____ Surface	<u>17 1/2 - 13 1/8</u>	<u>1900</u>		<u>2650 CF</u>	<u>CIRC</u>
New <input checked="" type="checkbox"/> Existing _____ Interm	<u>12 1/4 - 9 5/8</u>	<u>3550</u>		<u>2200 CF</u>	<u>CIRC</u>
New <input checked="" type="checkbox"/> Existing _____ LongSt	<u>3 1/4 - 7"</u>	<u>8000 TO</u>		<u>1100 CF</u>	<u>3050' depth</u>
New _____ Existing _____ Liner					
New _____ Existing _____ OpenHole					

369

Depths/Formations: _____ Schub; BS area

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>460 - 6369</u>	<u>Del</u>	<input checked="" type="checkbox"/>
<u>Injection TOP:</u>	<u>6300</u>	<u>Del</u>	Max. PSI <u>1260</u> OpenHole _____ Perfs <input checked="" type="checkbox"/>
<u>Injection BOTTOM:</u>	<u>7750</u>	<u>Del</u>	Tubing Size <u>3 1/2 x 1 1/2</u> Packer Depth <u>6250 ±</u>
Formation(s) Below	<u>8010 -</u>	<u>B.S.</u>	<input checked="" type="checkbox"/>

Capitan Reef? _____ (Petasth? _____ Noticed? _____) (WTRP? _____ Noticed? _____) Salado Top/Bot 1975 - 3315 Cliff House? _____

Fresh Water: Depths: 1775' Formation _____ Wells? yes Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: B.S.

Disposal Interval: Analysis? Production Potential/Testing: _____

Notice: Newspaper Date 11/12/12 Surface Owner SIO Mineral Owner(s) SLO-

RULE 26.7(A) Affected Persons: Devon / slash / ARMSTRONG / Black Crown / DIAMOND BACK

AOR: Maps? Well List? yes Producing in Interval? No Wellbore Diagrams?

.....Active Wells 4 Repairs? 0 Which Wells? (2 planned wells + 2 EXISTING)

.....P&A Wells 0 Repairs? 0 Which Wells? _____

Issues: What about WC; Del in 6 Request Sent 6720 - 6736 Reply: _____