

DATE <u>11/6/12</u>	SUSPENSE	ENGINEER <u>WJ</u>	LOGGED IN	TYPE <u>SWD</u> <u>1317</u>	APP NO. <u>PWVJ 1236154742</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



COPY

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

BRIAN COLLINS
Print or Type Name

Brian Collins
Signature

SENIOR OPERATIONS ENGINEER
Title

10 Oct 12
Date

bcollins@concho.com
e-mail Address



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.

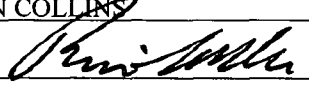
Sincerely,

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

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: COG OPERATING LLC
ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210
CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN COLLINS TITLE: Senior Operations Engineer
SIGNATURE:  DATE: 10 Oct 12
E-MAIL ADDRESS: bcollins@concho.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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, LLCWELL 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 DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8" @ 1900' ±Cemented with: _____ sx. or 2650 ft³Top of Cement: Surface Method Determined: DesignIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8" @ 3550' ±Cemented with: _____ sx. or 2200 ft³Top of Cement: Surface Method Determined: DesignProduction CasingHole Size: 8 3/4" Casing Size: 7" @ 8000' ±Cemented with: _____ sx. or 1100 ft³Top of Cement: 3050' Method Determined: DesignTotal Depth: 8000' ±Injection Interval6300' 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 Dimple 20

Type of Packer: Nickel plated double grip retrievable

Packer Setting Depth: 6250' ±

Other Type of Tubing/Casing Seal (if applicable): N/A

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

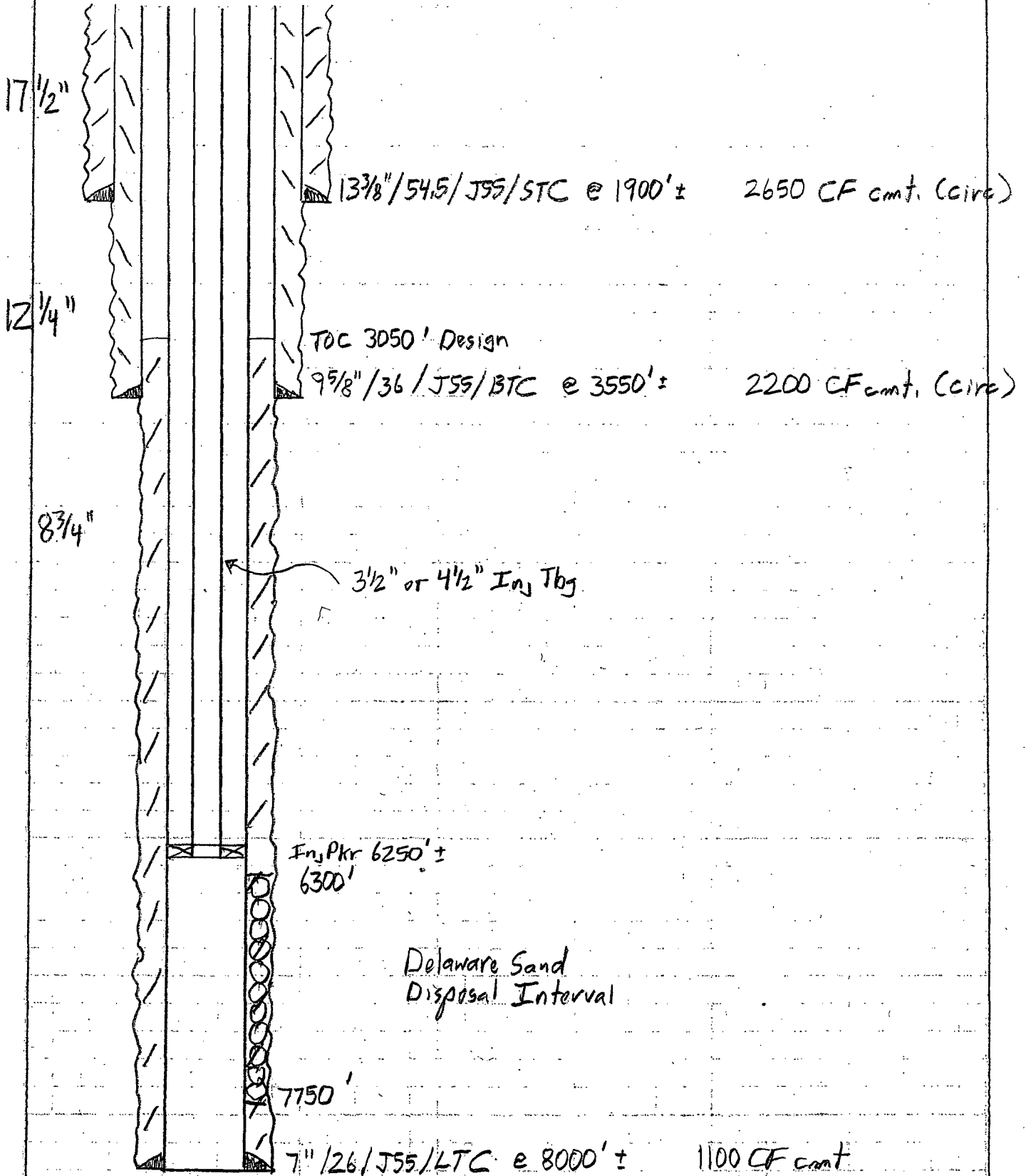
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Injection zone in this area: Seven Rivers \pm 3950-4100'
Overlying: Queen \pm 4550-5100' Grayburg / S. Andres: \pm 5500-5850'

Underlying: Bone Spring \pm 9550-10900'
Morrow \pm 13275-13600'

30-025-

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



V.

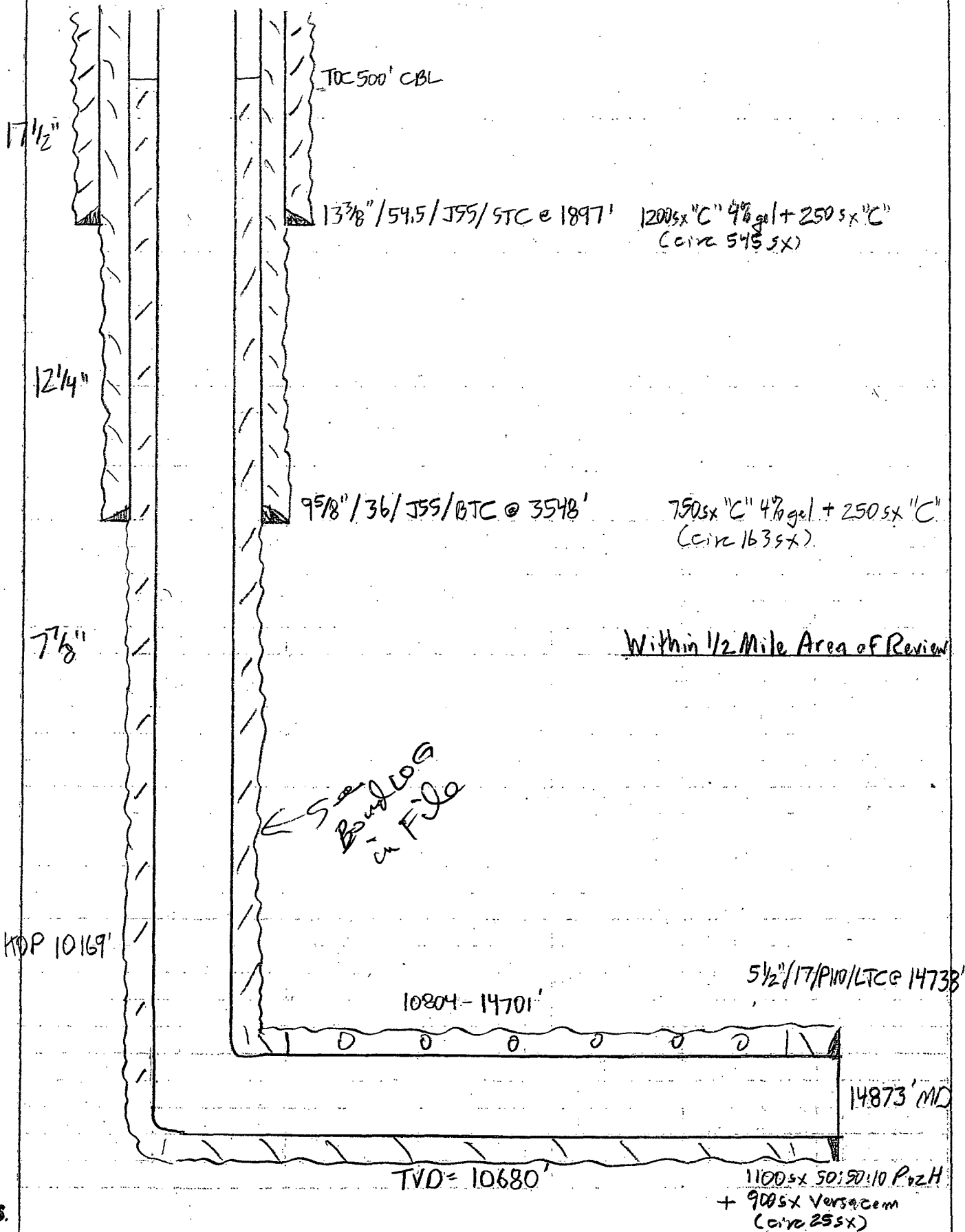
MAP

VI.

Wells Penetrating Proposed Disposal Interval Within Half Mile Area of Review

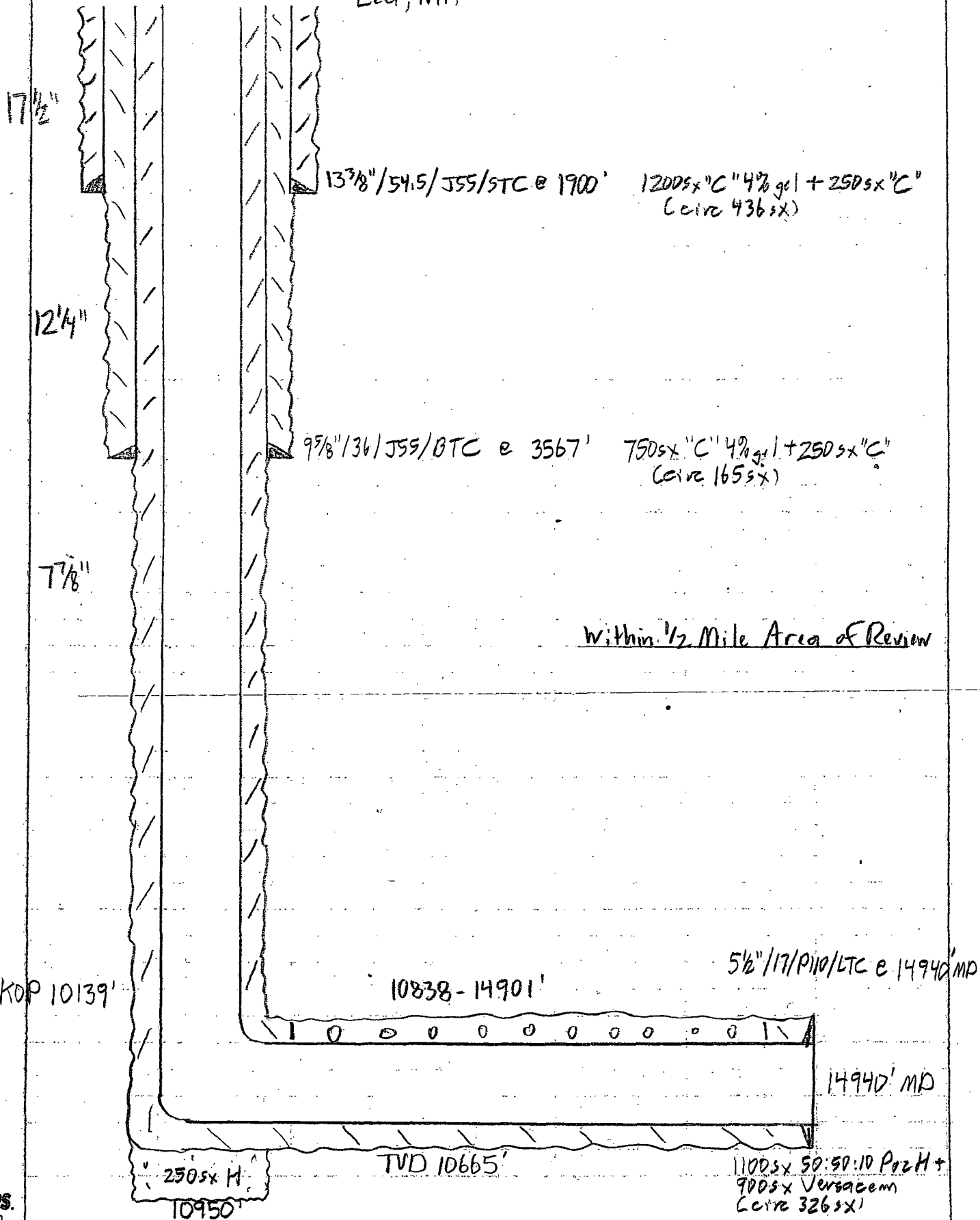
30-025-40404

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



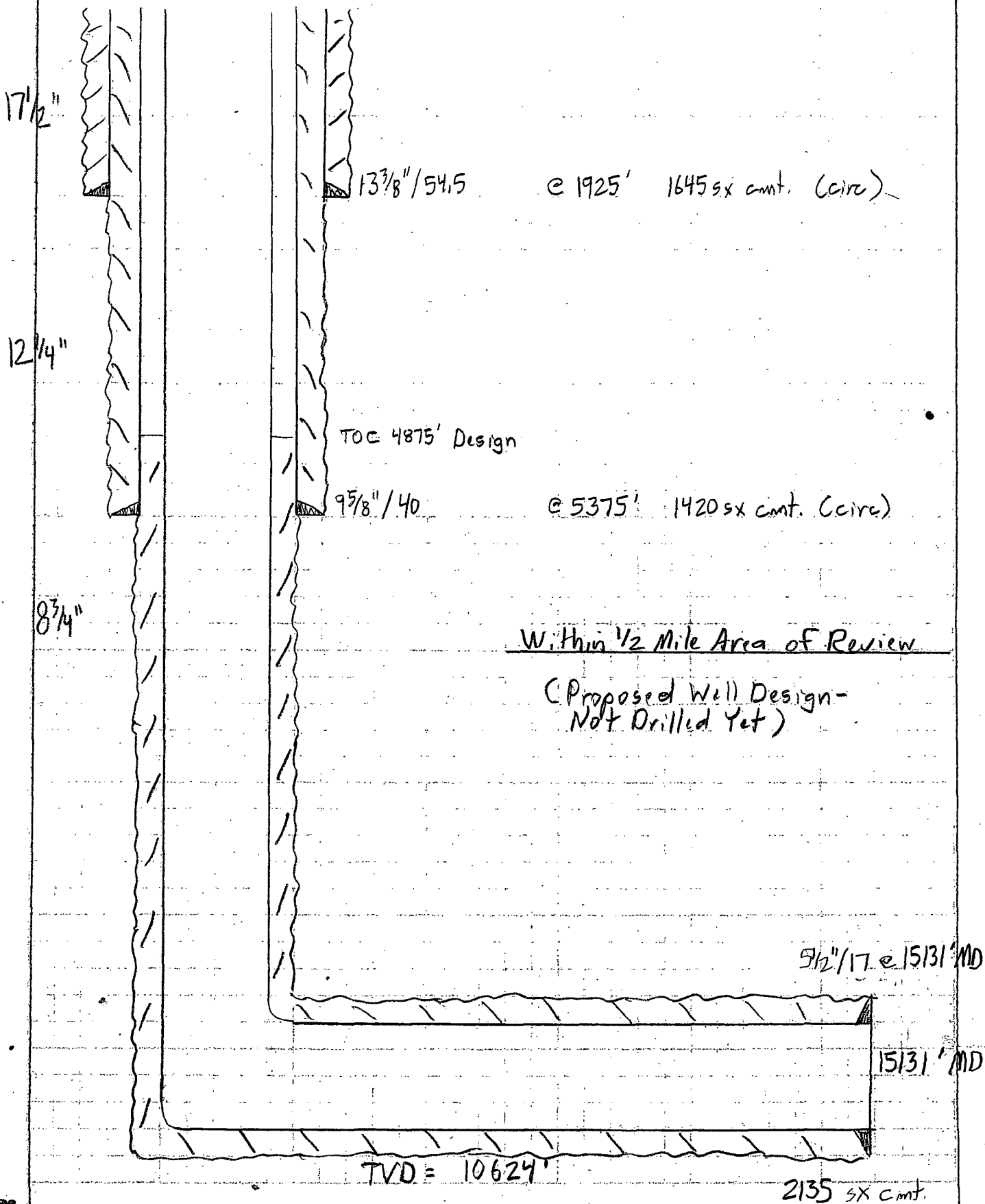
30-025-40388

King Cobra 2 St 1H
460' FNL, 460' FEL, Unit A (surf)
338' FSL, 478' FEL, Unit P (bbl)
2-19s-34e
Lea, NM



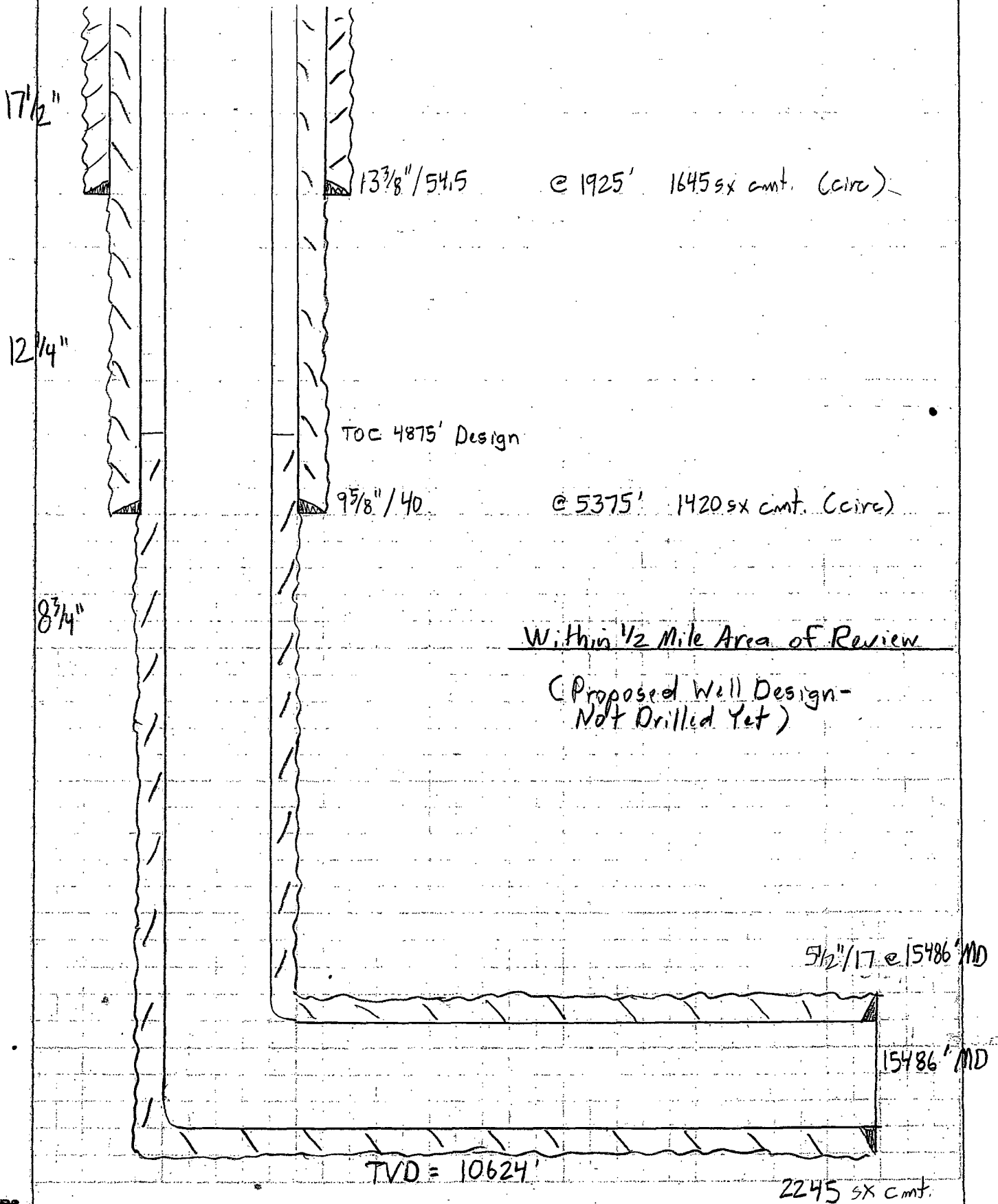
30-025-40634

Buffer Cup 35 St Com 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



PO BOX 2187
BBS, 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 LOG

JUN 07 2012

RECEIVED

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

Serv #: N/A

Other Services

BHL: 2,135' FNL & 472' FEL

NONE

Sec: 1 Twp: 19S Rge: 34E

Permanent 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'

Log No.	6/3/2012	Type Fluid in Hole	WATER
Driller	ONE	Density of Fluid	N/A
Logger	14741	Fluid Level	FULL
Log Interval	10828	Cement Top Est. Logged	500
Log Interval	10822	Equipment / Location	133 / HOBBS
Recorded Temp.	SURFACE	Recorded by	CHRIS KIRBY
MENTING DATA	NOT RECORDED	Witnessed by	STEVEN BROWN
Time Cemented	Surface	Protection	Production
Time / Squeeze	String	String	Liner
Strength	psi@	hrs	psi@
Volume	psi@	hrs	psi@
Type / Weight	/	/	/
Type / Mud Wgt.	/	/	/
Run Number	Bit	From	To
	5.5	17	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

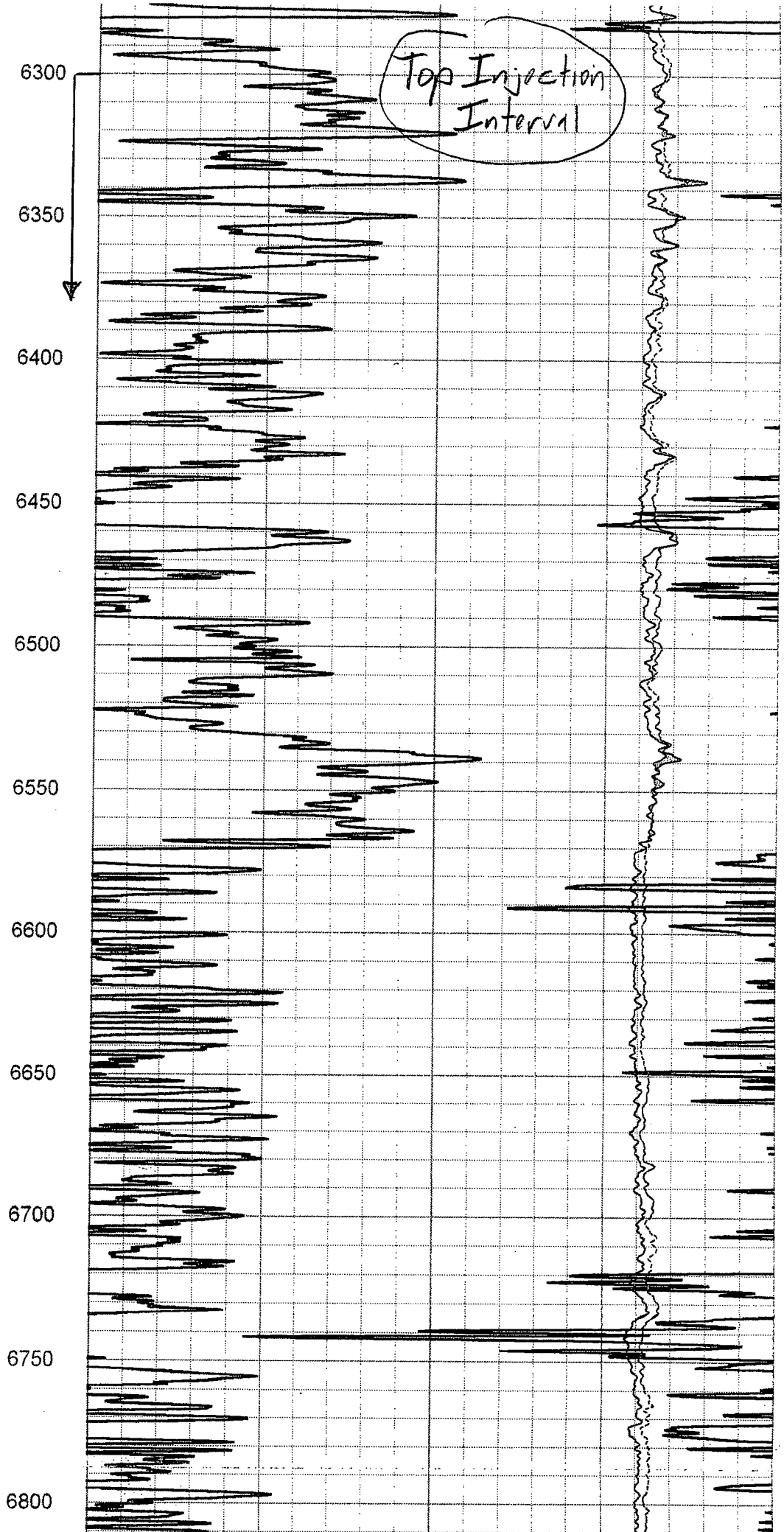
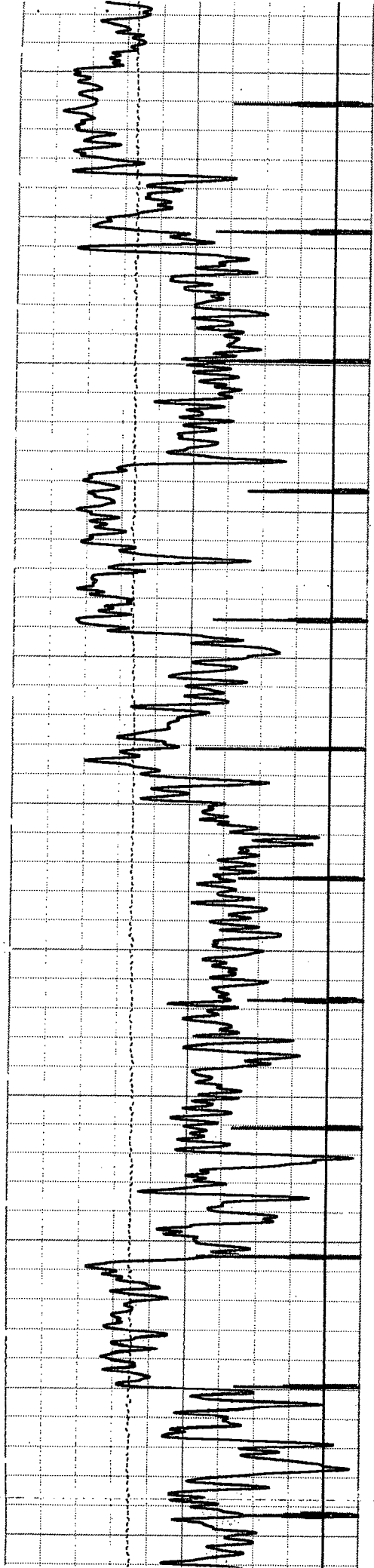
LOG RECORDED FROM 10822' TO SURFACE BASED OFF K.B.

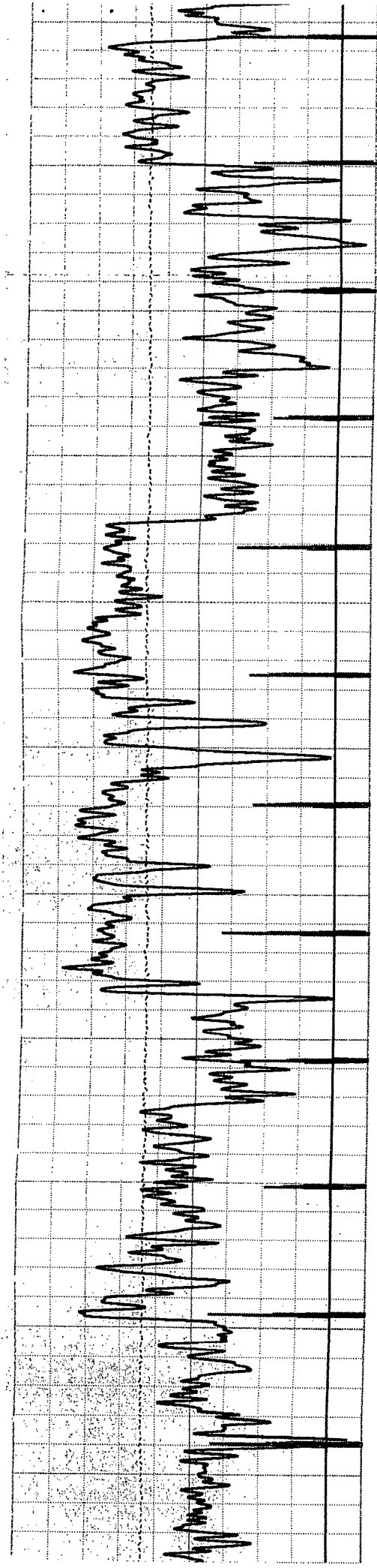
MARKER JOINT FOUND AT 10059'

YOUR HES CREW: C. KING, Z. ANDERSON, J. WEBER, I. SALAZAR, D. CASTRO

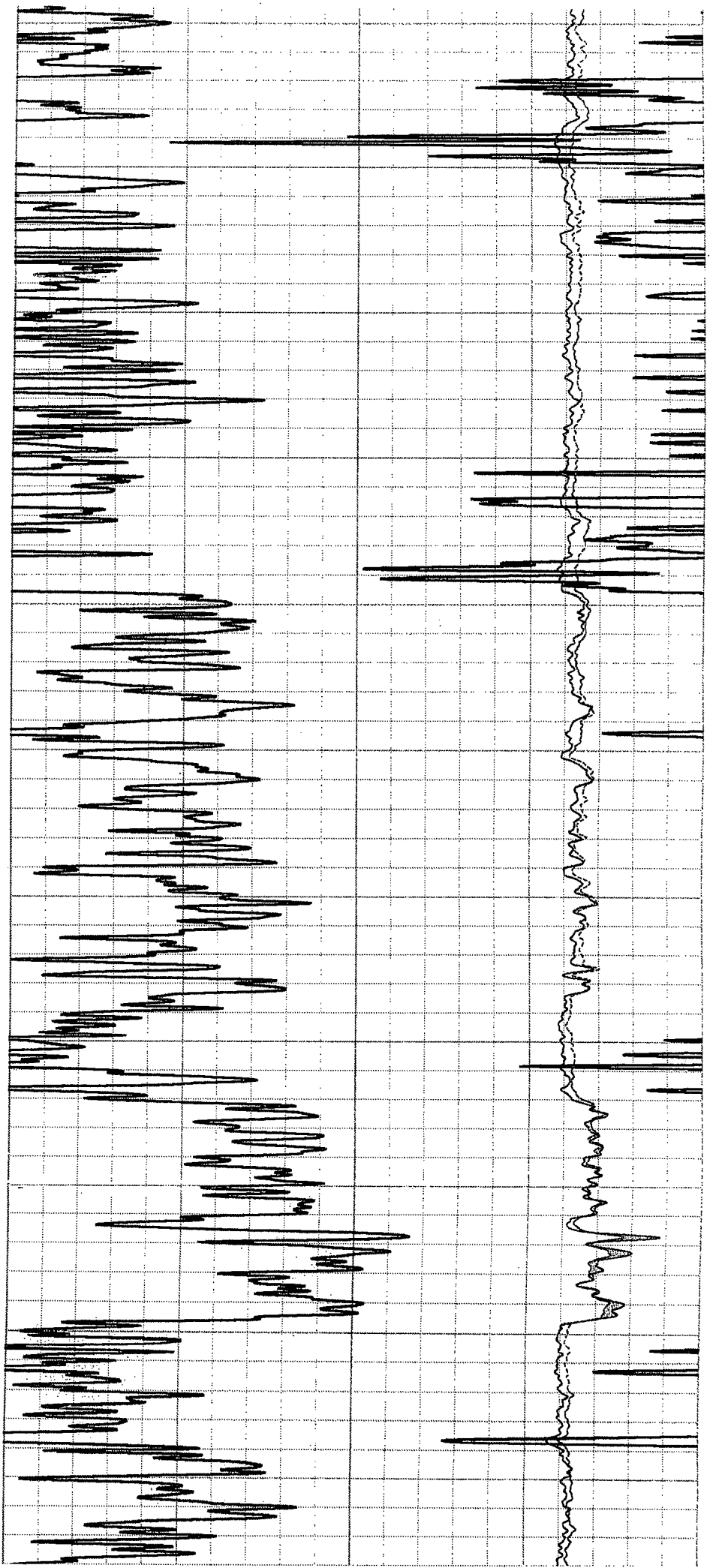
THANK YOU FOR USING HALLIBURTON ENERGY SERVICES

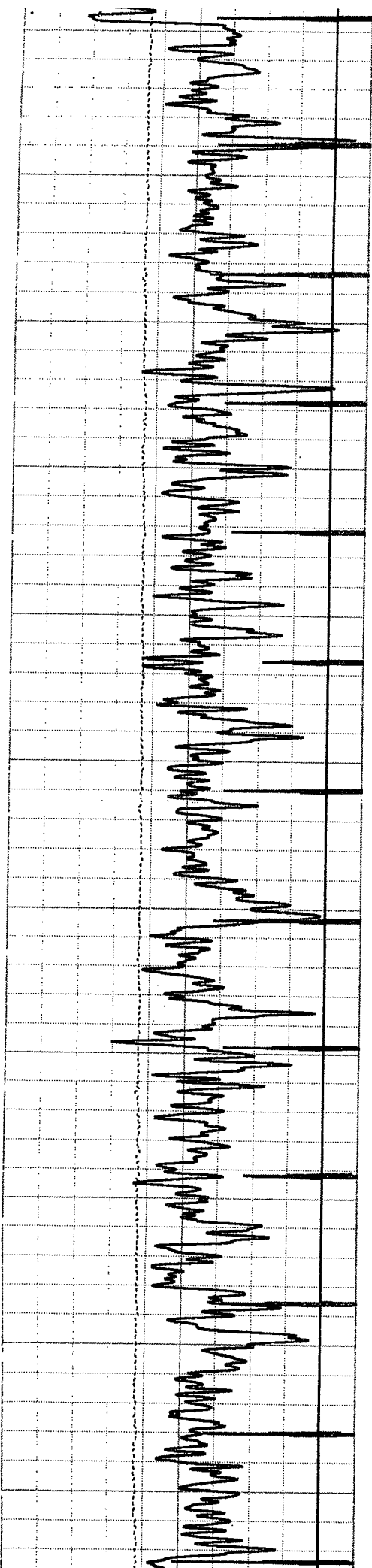
2" = 100'



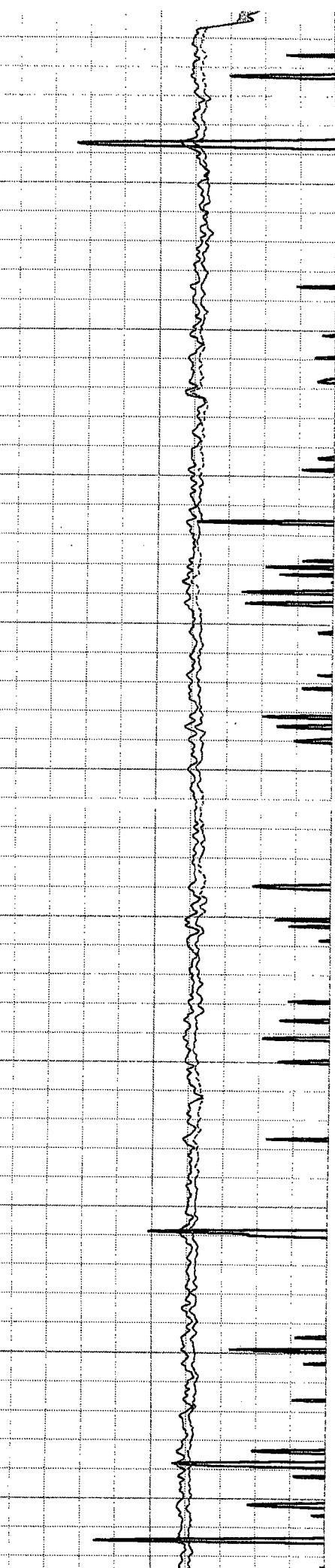
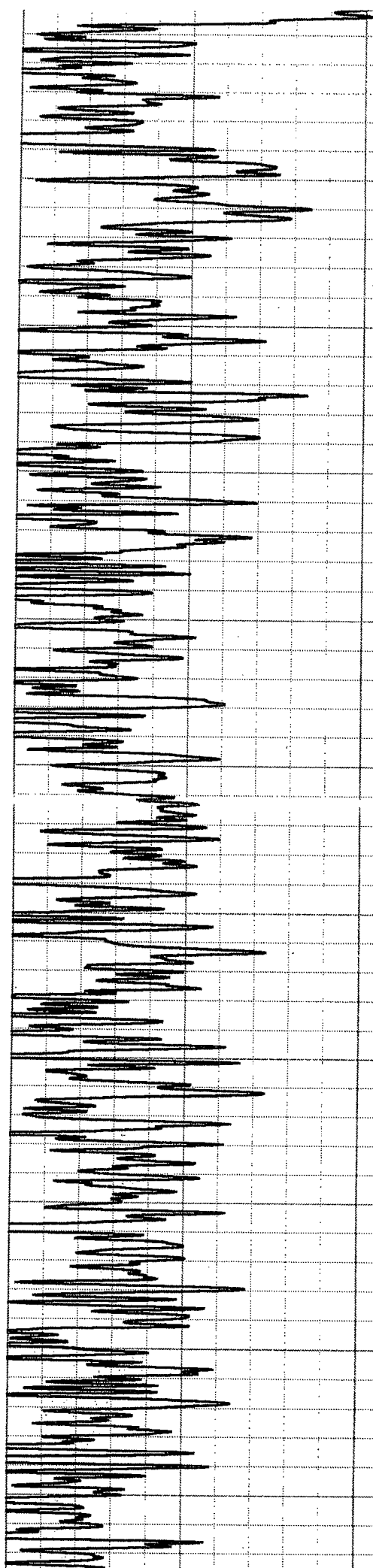


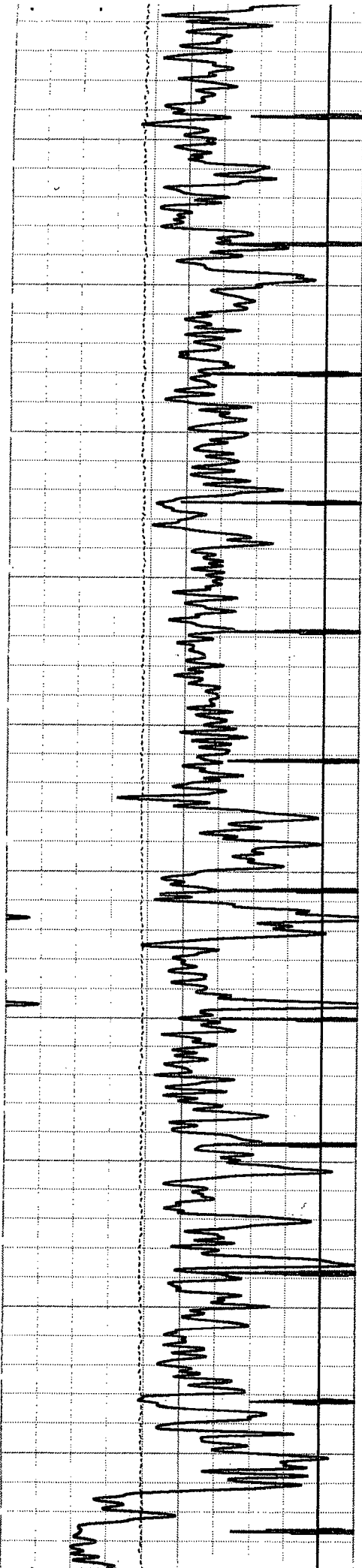
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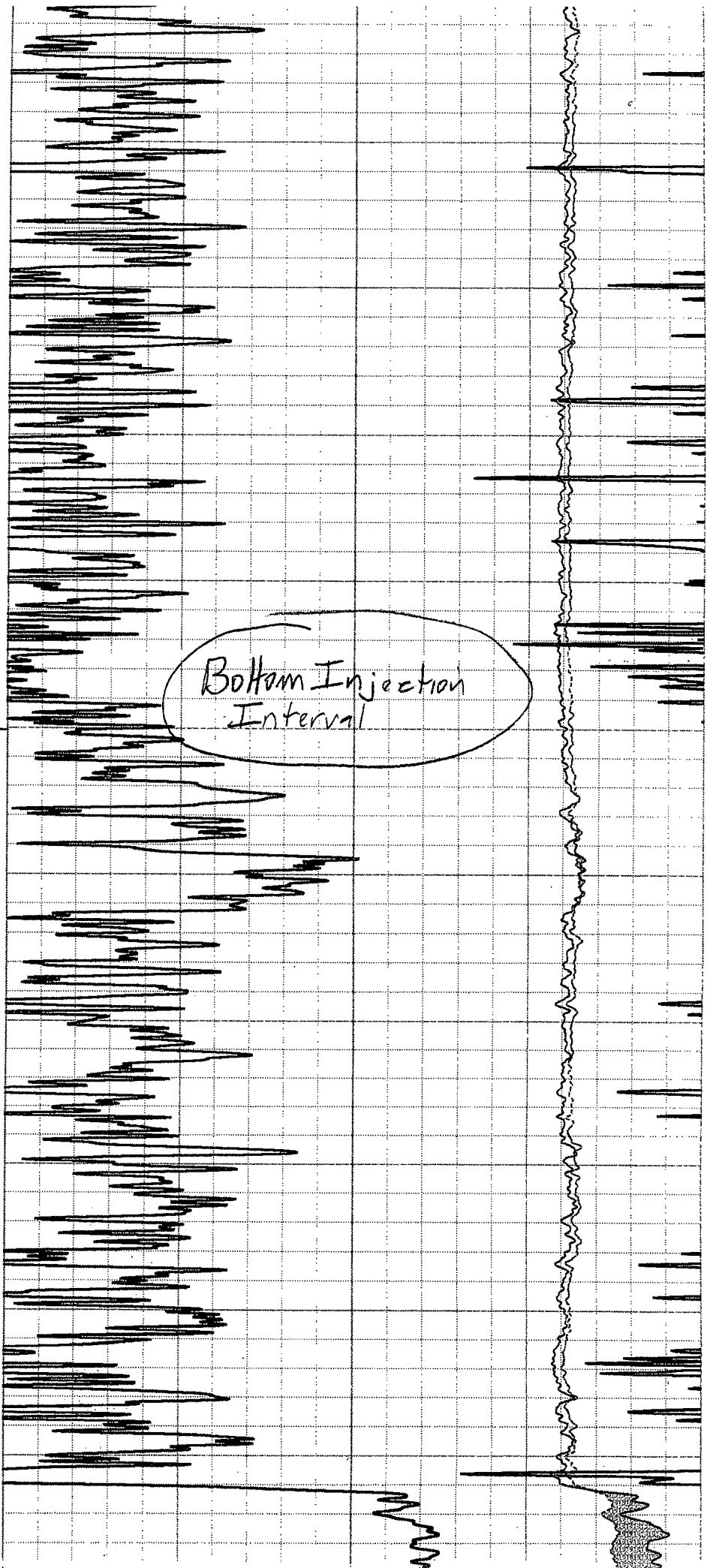


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XI.

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 W12-210
DATE 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	<u></u> °F	<u></u> °F	<u></u> °F
SPECIFIC GR.	<u>1.008</u>	<u>1.007</u>	<u></u>	<u></u>	<u></u>
pH	<u>7.46</u>	<u>7.37</u>	<u></u>	<u></u>	<u></u>
CALCIUM	<u>150</u> mpl	<u>200</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
MAGNESIUM	<u>210</u> mpl	<u>210</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
CHLORIDE	<u>7636</u> mpl	<u>6,030</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
SULFATES	<u><400</u> mpl	<u><400</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
BICARBONATES	<u>300</u> mpl	<u>200</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
SOLUBLE IRON	<u>0</u> mpl	<u>0</u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
KCL	<u>Negative</u>	<u>Negative</u>	<u></u>	<u></u>	<u></u>
	<u></u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl
	<u></u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl	<u></u> mpl

REMARKS

MPL = Milligrams per liter
Resitivity 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	Source	q q q	Sec	Tws	Rng	X	Y
L 11934	L	STK		3 WILBERTA TIVIS	LE	L 11934	POD1	160' Deep	Shallow	3	3	4	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

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
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 31

Township: 18S

Range: 35E

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.

10/3/12 4:14 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)								
WR File.Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	Sec	Tws	Rng	X	Y
<u>L 01979</u>	L	IRR	0	GENE DALMONT	LE	<u>L 01979</u>		No Data		1 4	01	19S	34E	639532	3617625*
<u>L 04059</u>	L	PRO	0	NOBLE DRILLING CO	LE	<u>L 04059</u>		125' Deep	Shallow	4 1	12	19S	34E	639146	3616412*
<u>L 04587</u>	L	SRO	0	JOHN H. TRIGG	LE	<u>L 04587</u>		No Data		1 1	02	19S	34E	637107	3618390*
					LE	<u>L 04587 X</u>		No Data		2 1	02	19S	34E	637510	3618397*
<u>L 04723</u>	L	PRO	0	CACTUS DRILLING COMPANY	LE	<u>L 04723</u>		145' Deep	Shallow	1 1 1	11	19S	34E	637026	3616880*
<u>L 05763</u>	L	SRO	0	THOMAS F. WELCH & ASSOCIATES	LE	<u>L 05763</u>		No Data		2 2 2	02	19S	34E	638414	3618509*
					LE	<u>L 05763 X</u>		No Data		2 2 1	02	19S	34E	637609	3618496*
<u>L 06731</u>	L	PRO	0	M G F	LE	<u>L 06731</u>		120' Deep	Shallow	3 2 2	12	19S	34E	639844	3616727*
<u>L 10380</u>	L	STK	3	CHARLES B. GILLESPIE, JR.	LE	<u>L 10380</u>		153' Deep	Shallow	4 4 4	02	19S	34E	638428	3617102*
<u>L 12103</u>	L	STK	3	SNYDER RANCHES	LE	<u>L 12103</u> POD1		120' Deep	Shallow	4 3 4	02	19S	34E	637936	3617173
<u>L 12957</u>	L	PRO	0	GLENN'S WATER WELL SRVC, INC.	LE	<u>L 12103</u> POD1		120' Deep	Shallow	4 3 4	02	19S	34E	637936	3617173
<u>L 12958</u>	L	PRO	0	GLENN'S WATER WELL SRVC, INC.	LE	<u>L 12958</u> POD1		No Data	Shallow	3 4 1	02	19S	34E	637498	3617839
<u>L 13016</u>	L	PRO	0	TD WATER SERVICES	LE	<u>L 12103</u> POD1		120' Deep	Shallow	4 3 4	02	19S	34E	637936	3617173
<u>L 13017</u>	L	PRO	0	TD WATER SERVICES	LE	<u>L 12958</u> POD1		No Data	Shallow	3 4 1	02	19S	34E	637498	3617839

*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

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 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)

(acre ft per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE)		(quarters are smallest to largest) (NAD83 UTM in meters)	
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source
<u>L 03145</u>	L	PRO	0	PETE LOMAX DRILLING CO.	LE	<u>L 03145</u>	97' Deep		Shallow
<u>L 04211</u>	L	DOM	3	GENE DALMONT	LE	<u>L 04211</u>	130' Deep		Shallow
<u>L 04211 A</u>	L	COM	0	WYLIE BROTHERS CONSTRUCTION CO	LE	<u>L 04211</u>			Shallow
<u>L 04762</u>	L	COM	44.8	RITTENHOUSE OIL & GAS COMPANY	LE	<u>L 04762</u>	175' Deep		Shallow
<u>L 05217</u>	L	PRO	0	CACTUS DRILLING CORPORATION	LE	<u>L 05217</u>	105' Deep		Shallow
<u>L 05220</u>	L	PRO	0	WILLIAM W CARLIN	LE	<u>L 05220</u>	100' Deep		Shallow
<u>L 05246</u>	L	PRO	0	HUMBLE OIL & REFINING COMPANY	LE	<u>L 05246</u>	100' Deep		Shallow
<u>L 06301</u>	L	PRO	0	CACTUS DRILLING CORP OF TEXAS	LE	<u>L 06301</u>	No Data		
<u>L 06468</u>	L	PRO	0	GULF OIL CORPORATION	LE	<u>L 06468</u>	No Data		

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

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.

10/3/12 4:15 PM



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

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.

10/3/12 4:15 PM

Page 1 of 1

POD SUMMARY - L 03145



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

*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 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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10/3/12 4:16 PM

Page 1 of 1

POD SUMMARY - L 04762



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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10/3/12 4:16 PM

Page 1 of 1

POD SUMMARY - L 05217



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

L 05220

Q64 Q16 Q4 Sec Tws Rng

1 4 06 19S 35E

X

Y

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

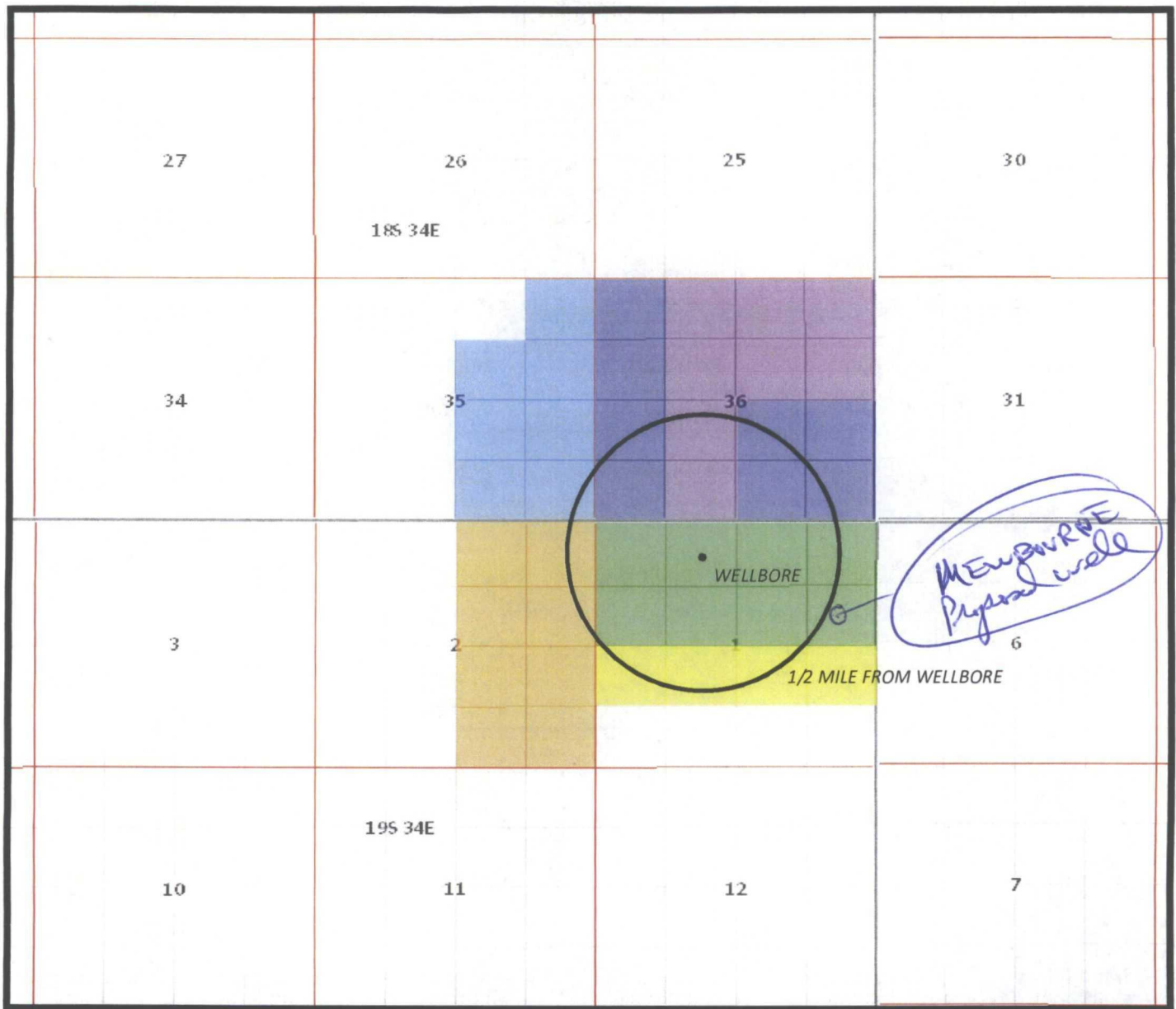
Casing Perforations:

Top Bottom

60 90

*UTM location was derived from PLSS - see Help

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- 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 cursive script, 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.

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

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.

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

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.

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

Affidavit of Publication

State of New Mexico,
County of Lea.

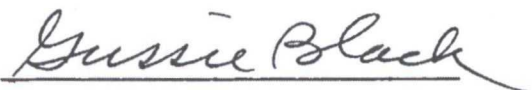
I, JUDY HANNA
PUBLISHER

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

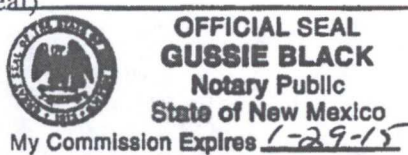

PUBLISHER

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 BWP. 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 6919

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 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	

7011 1570 0003 6369 6926

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 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	

7011 1570 0003 6369 6933

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 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

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 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 6957

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.	
P.O. Box 1973	
Street, Apt. No., or PO Box No. 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

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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:

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

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

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- 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:

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

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

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- 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?

If YES, enter delivery address below:

☐ Yes

☐ 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?

If YES, enter delivery address below:

☐ Yes

☐ 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 87412 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised June 10, 2003	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED DEC 10 2009 HOBBS </div>		WELL API NO. 30-025-38642		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG		State Oil & Gas Lease No.		7. Lease Name or Unit Agreement Name <div style="text-align: center; font-size: 1.2em;">Silver Oak</div>	
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____ b. Type of Completion: NEW <input type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input checked="" type="checkbox"/> DIFF. WELL OVER BACK RESVR. <input type="checkbox"/> OTHER		2. Name of Operator Plantation Operating, LLC		8. Well No. <div style="text-align: center; font-size: 1.5em;">1</div>	
3. Address of Operator 4700 W. Sam Houston Parkway N., Suite 140, Houston, TX 77041		9. Pool name or Wildcat Wildcat Delaware		<div style="text-align: right; font-size: 1.5em;"><97221></div>	
4. Well Location Unit Letter <u>B</u> ; <u>660</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>6</u> Township <u>19S</u> Range <u>35E</u> 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 Rotary Tools Cable Tools	
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					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
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
Flow Tubing Press	Casing Pressure 40	Calculated 24-Hour Rate	Oil - Bbl 3	Gas - MCF 0	Water - Bbl. 31
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 		Printed Name Kimberly Faldyn		Title Engineering Tech	
E-mail Address kfaldyn@plantationpetro.com		<div style="text-align: center;"> </div>		Date 12/9/2009	

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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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
Sent: Thursday, December 20, 2012 9:17 AM
To: 'Jones, William V., EMNRD'
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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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
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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)

WFX _____ PMX _____ SWD 1377 Permit Date 11/11/13 UIC Qtr 1

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

API Num: 30-025 Spud Date Nov 72 New/Old: N (UIC primacy March 7, 1982)

Footages 666 FNL/1980 FWL Unit C Sec 1 Tsp 19S 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 <u>✓</u> Existing _____	Surface	<u>17 1/2 - 13 5/8</u>	<u>1900</u>		<u>2650 CF</u>	<u>CIRC</u>
New <u>✓</u> Existing _____	Interm	<u>12 5/8 - 9 5/8</u>	<u>3550</u>		<u>2200 CF</u>	<u>CIRC</u>
New <u>✓</u> Existing _____	LongSt	<u>5 3/4 - 7"</u>	<u>8000 TO</u>		<u>1100 CF</u>	<u>3050' depth</u>
New _____ Existing _____	Liner					
New _____ Existing _____	OpenHole					

Depths/Formations: _____

	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>4670</u> <u>6369</u>	<u>DEL</u> <u>DEL</u>	<u>✓</u> <u>✓</u>
Injection TOP:	<u>6300</u>	<u>Del</u>	Max. PSI <u>1260</u> OpenHole _____ Perfs <u>✓</u>
Injection BOTTOM:	<u>7750</u>	<u>Del</u>	Tubing Size <u>3 1/2" x 1/2"</u> Packer Depth <u>6250 ±</u>
Formation(s) Below	<u>8010</u>	<u>B.S.</u>	<u>✓</u>

Capitan Reef? _____ (Petash? _____ Noticed? _____) (WIRP? _____ Noticed? _____) Salado Top/Bot 1975-335 Cliff House? _____

Fresh Water: Depths: 1750 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 SLO Mineral Owner(s) SLO

RULE 26.7(A) Affected Persons: Devon / SLO / ARMSTRONG / Black Creek / 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 6720-6726 Reply: (Very low pressure)