

DATE IN <b>5-3-10</b>	SUSPENSE	ENGINEER <b>WJ.</b>	LOGGED IN <b>5-3-10</b>	TYPE <b>SWD</b>	PTCW APP NO. <b>1012 429453</b>
-----------------------	----------	---------------------	-------------------------	-----------------	------------------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED  
MAR-BOB

2010 MAY -3 P 1:08

Lusk 32 SWD #1

## ADMINISTRATIVE APPLICATION CHECKLIST 30-025-26703

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

Signature

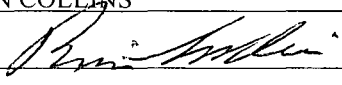
PETROLEUM ENGINEER

Title

Date

bcollins@marbob.com  
e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance X Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? X Yes \_\_\_\_\_ No
- II. OPERATOR: MARBOB ENERGY CORPORATION  
ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227  
CONTACT PARTY: BRIAN COLLINS, PETROLEUM ENGINEER PHONE: 575-748-3303
- 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: PETROLEUM ENGINEER  
SIGNATURE:  DATE: 23 Apr 10  
E-MAIL ADDRESS: bcollins@marbob.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: \_\_\_\_\_

Application for Authorization to Inject  
Lusk 32 SWD No. 1  
Unit J, Section 32-T18S-R32E

Objective: Marbob Energy proposes to re-enter this well, drill out plugs, tie 5 ½" csg back to surface, cement 5 ½" tieback to surface, squeeze cement San Andres and Bone Spring perms and convert well to SWD in the Strawn Lime.

- V. Map is attached.
- VI. Three wells within the 1/2 mile radius area of review penetrate the proposed injection zone. A wellbore diagram of each one is attached.
- VII.
  - 1. Proposed average daily rate = 2500 BWPD  
Proposed maximum daily rate = 10000 BWPD
  - 2. Proposed maximum injection pressure = 2317 psi (0.2 psi/ft)
  - 3. System is closed
  - 4. Majority of injected water will be Bone Spring produced water. Analysis of produced water is attached.
  - 5. The Strawn is depleted and is not productive within a mile of the Lusk 32 SWD No. 1. The Strawn water has a very high salinity like the Bone Spring water. We operate two Strawn SWD's in the Lusk area and have had no water compatibility issues.
- VIII. The injection zone is the Strawn limestone from 11586' to 11860'. Underground sources of drinking water will be shallower than 650 feet deep.
- IX. The proposed injection zone will be acidized with 30,000 gallons 15% HCL acid, if necessary.
- X. Logs are filed with the Division. A section of the porosity log is attached.
- XI. There are no fresh water wells within one mile of the Lusk 32 SWD No 1.
- XII. After examining available geologic and engineering data, there is no evidence 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: Marbob Energy CorpWELL NAME & NUMBER: LvsK 32 SWD No. 1 (Formerly State HU-1)WELL LOCATION: 1980' FSL, 1980' FELUNIT LETTER JSECTION 32TOWNSHIP 18SRANGE 32EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8" @ 428'Cemented with: 425 sx. or — ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8" @ 4245'Cemented with: 2200 sx. or — ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 8 3/4" Casing Size: 5 1/2" @ 13110'Cemented with: 2990 sx. or — ft<sup>3</sup>Top of Cement: 1880' Method Determined: Temp SurveyTotal Depth: 13119'Injection Interval11586' feet to 11860'

(Perforated or Open Hole; indicate which)

See Attached Before  
& After Schematics

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Dualine 20 or IPC  
 Type of Packer: 10K nickel plated double grip retrievable  
 Packer Setting Depth: ± 11540'  
 Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

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

If no, for what purpose was the well originally drilled? Oil & gas

2. Name of the Injection Formation: Strawn

3. Name of Field or Pool (if applicable): Lusk

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.

See attached "before" wellbore schematic

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

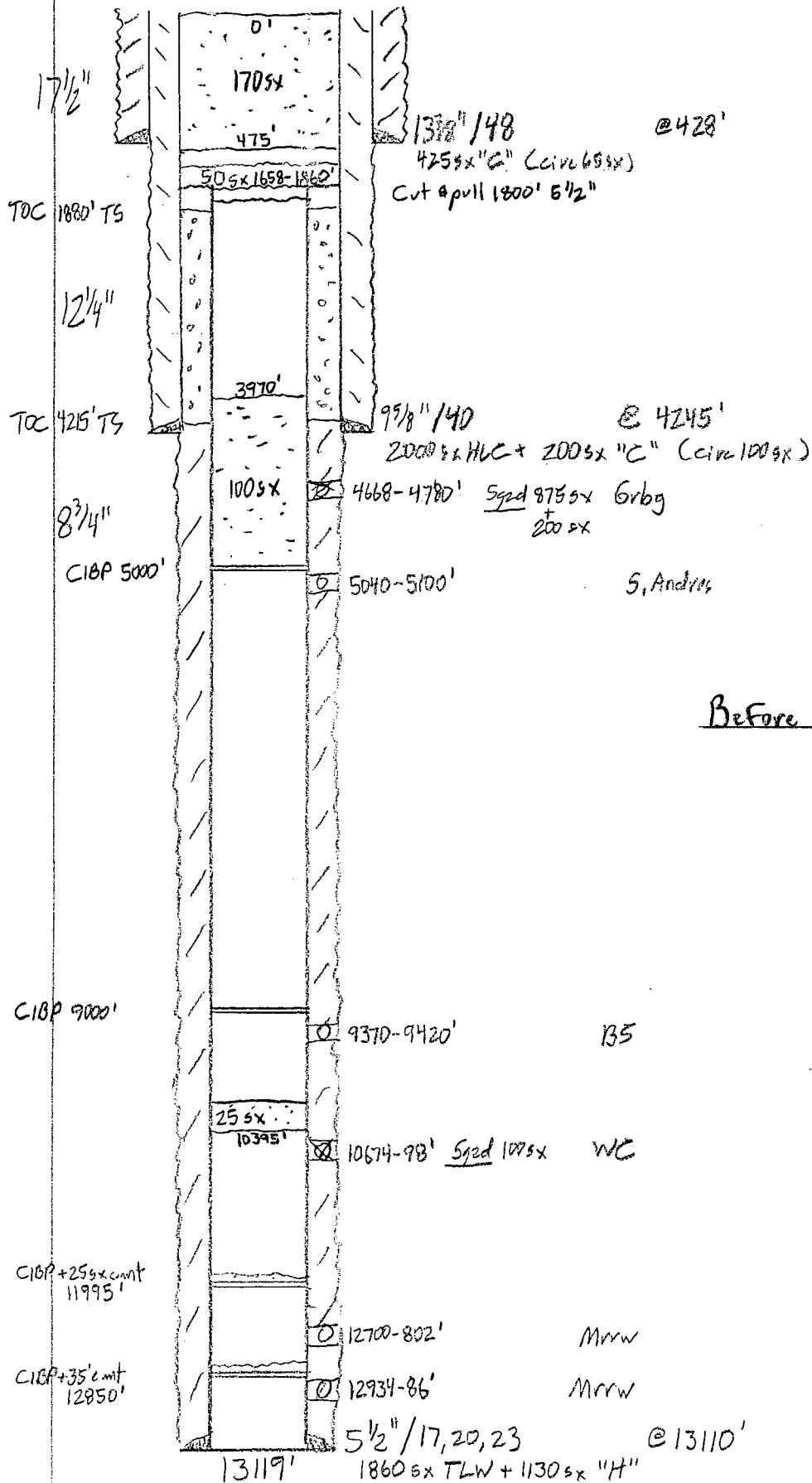
Overlying: Strawn (Strawn depleted and not producing in area)

Wolfcamp (normally limited reservoirs) 10500-10700', Bone Spring 8300-9500',

Grayburg/San Andres 4600-5100'

Underlying: Atoka 11800-11900', Morrow 12500-13000'

State HV-1  
1980'FSL, 1980'FEL  
J-32-18g-32e  
Lea NM



30-025-26703

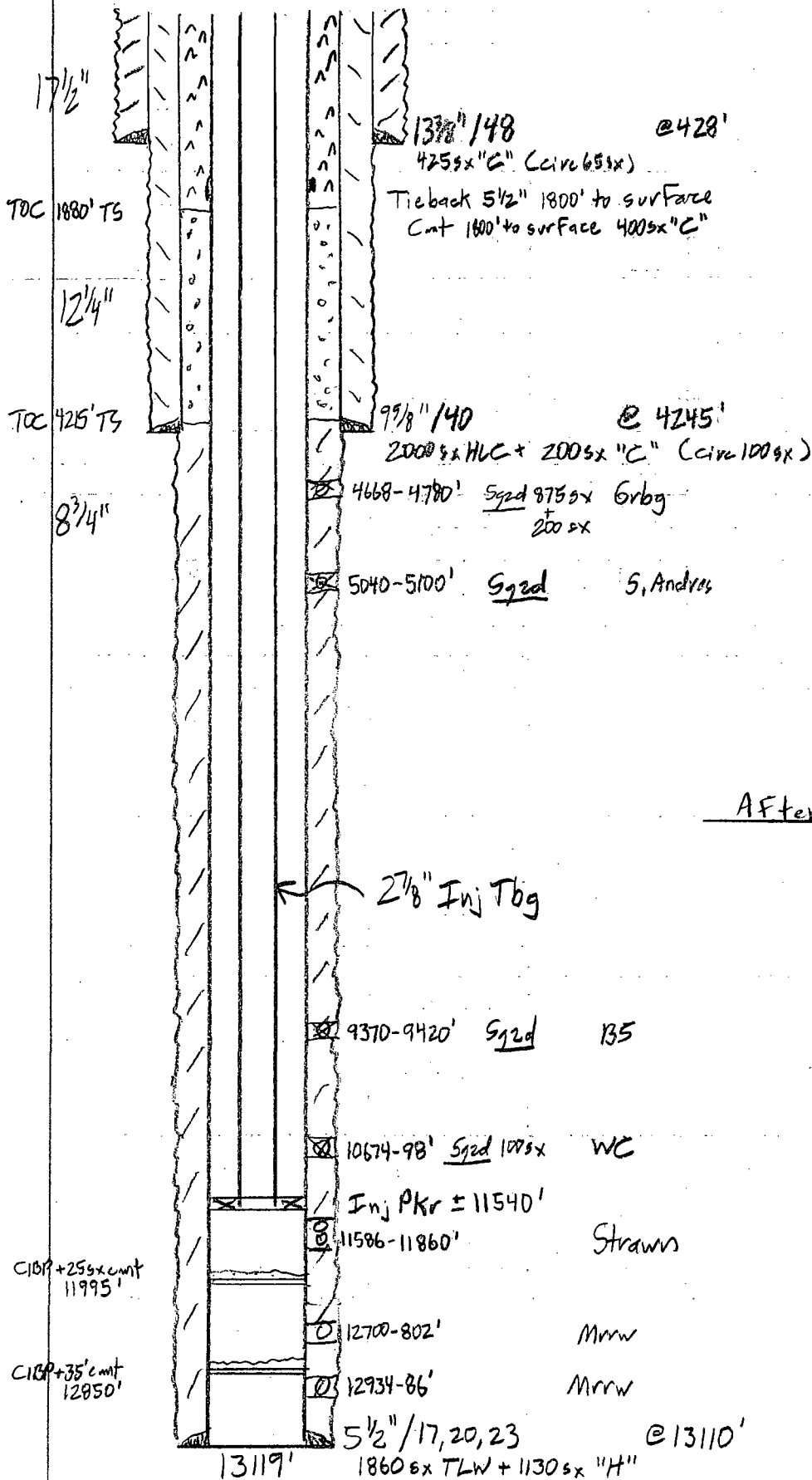
Lusk 32 SWD No. 1

(State HV-1)

1980' FSL, 1980' FEL

J-32-185-32e

Lea NM



After SWD Conversion



**V.**

**MAP**

**Wells within 1/2  
Mile Radius**







# **VI.**

## **Well Data on Wells Penetrating Strawn within 1/2 Mile Radius Area of Review**

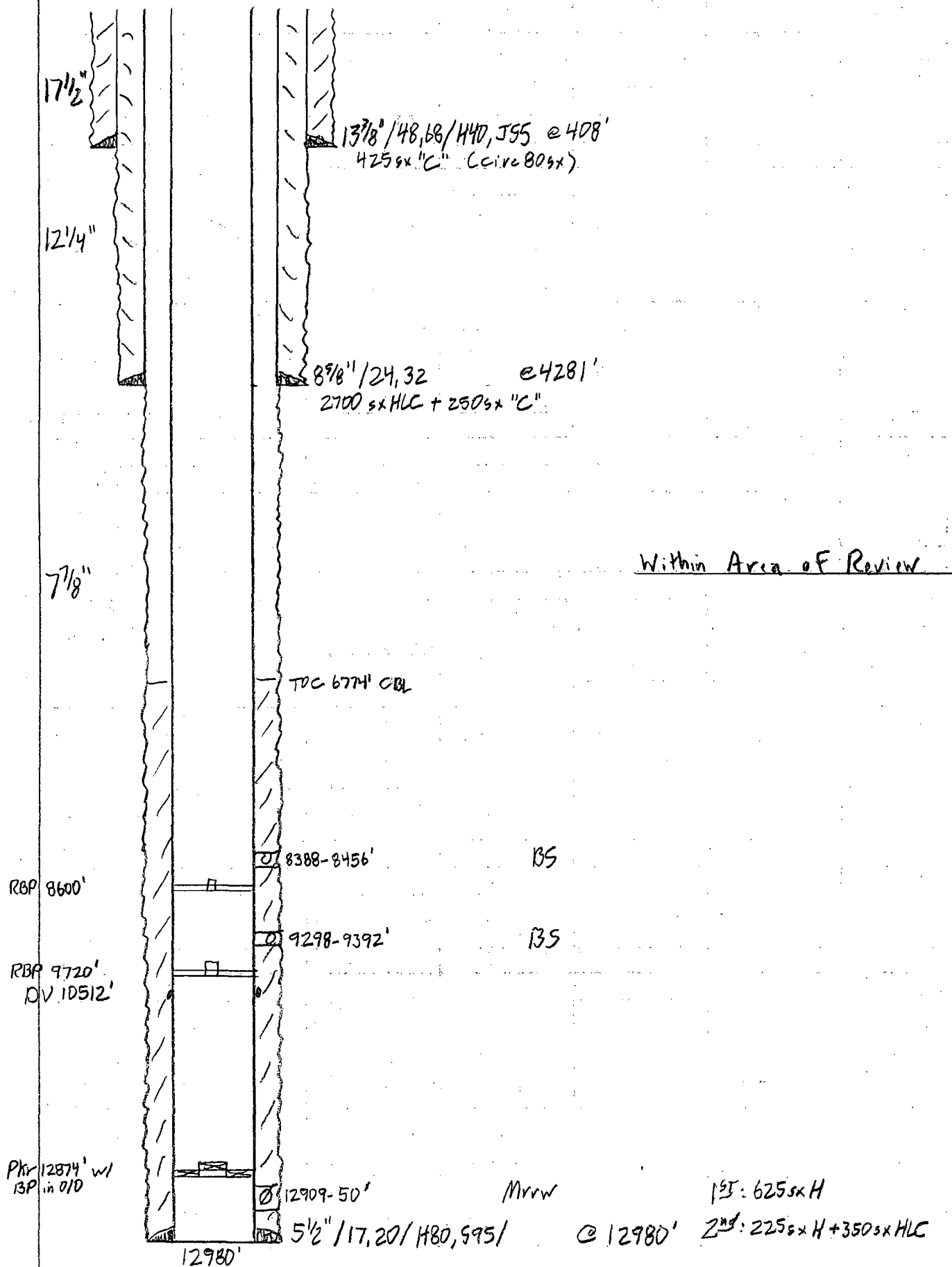
30-025-26754

Max St. 1

1780' FNL, 1780' FEL

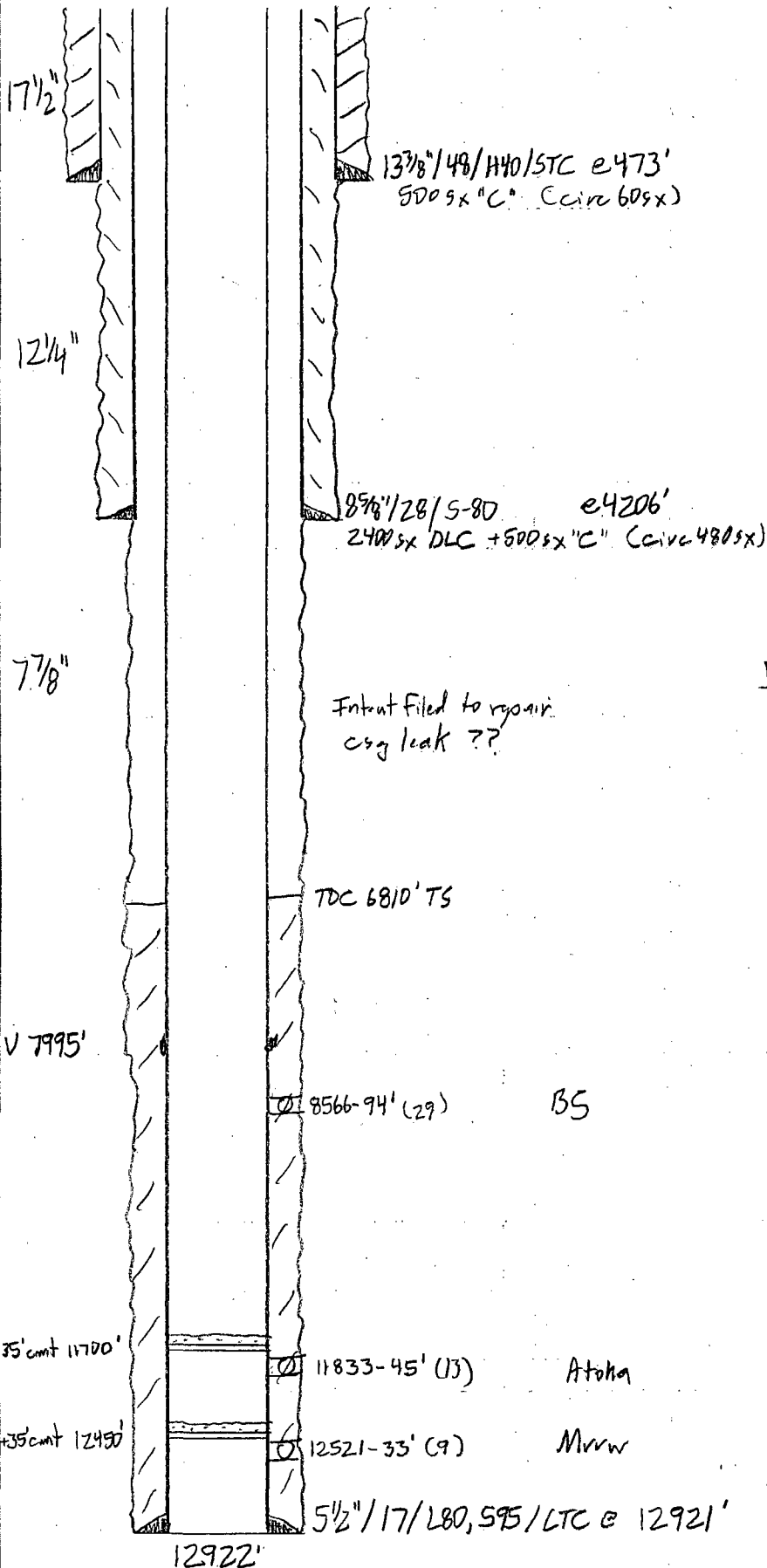
G-32-185-32e

Lee Co, NM



3D-025-31735

Watkins 32 St. 1  
1980' FWL, 1650' FWL  
F-32-18s-32e  
Lea NM



Within Area of Review

BS

Atoka

Murrow

1st: 1630s x H  
2nd: Couldn't circ DV tool

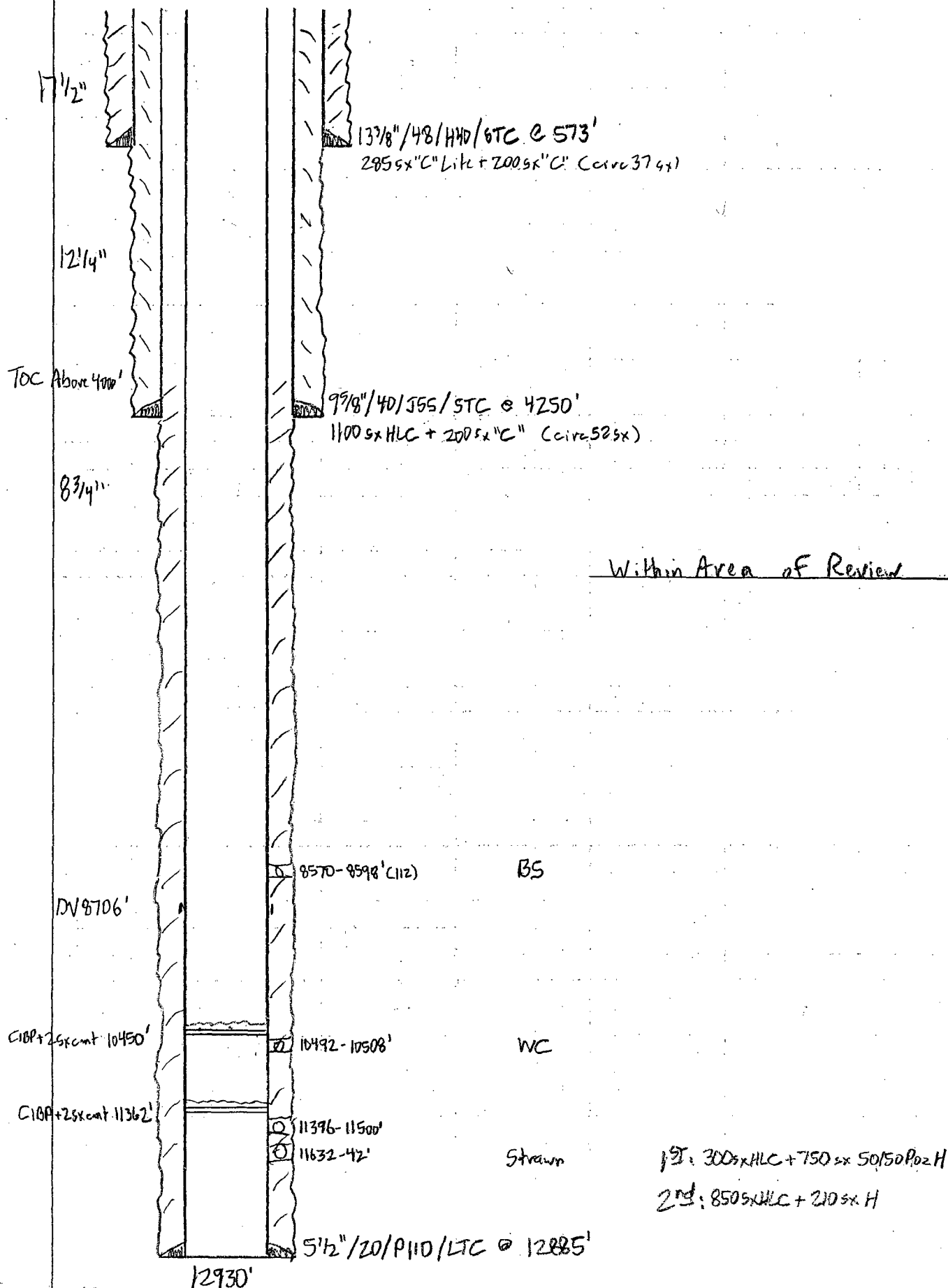
30-025-35748

N. Lusk 32 St. 1

1980' FSL, 660' FWL

L-32-185-32e

Lea, NM



**VII.**

**WATER ANALYSIS**

**Injection Water**



# HALLIBURTON

## CENTRAL OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY Marbob

REPORT DATE W01-112  
November 26, 2001  
DISTRICT Artesia/Hobbs

Produced Water

SUBMITTED BY \_\_\_\_\_

WELL COUNTY \_\_\_\_\_ DEPTH FIELD \_\_\_\_\_ FORMATION SOURCE \_\_\_\_\_

SAMPLE	Luske 13	Lusk 19	WPB 1
Sample Temp.	66 °F	66 °F	66 °F
RESISTIVITY	0.058	0.06	0.058
SPECIFIC GR.	1.135	1.120	1.135
pH	6.14	6.19	6.54
CALCIUM	7,600 mpl	8,200 mpl	4,100 mpl
MAGNESIUM	5,160 mpl	6,900 mpl	3,000 mpl
CHLORIDE	134,355 mpl	106,470 mpl	129,285 mpl
SULFATES	Mod mpl	light mpl	Light mpl
BICARBONATES	31 mpl	61 mpl	122 mpl
SOLUBLE IRON	light mpl	light mpl	light mpl
Sodium	mpl	mpl	mpl
TDS	mpl	mpl	mpl
OIL GRAVITY	@ °F	@ °F	@ °F

REMARKS \_\_\_\_\_

Injection Zone Water

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

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: John E. Bank

Produced and injection zone waters are very similar to one another.  
No compatibility problems anticipated.





*New Mexico Office of the State Engineer*  
**Point of Diversion by Location**  
(with Owner Information)

No PODs found.

**PLSS Search:**

Section(s): 28-33

Township: 18S

Range: 32E

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.

3/19/10 1:26 PM

Page 1 of 1

POINT OF DIVERSION BY LOCATION



*New Mexico Office of the State Engineer*  
**Point of Diversion by Location**  
(with Owner Information)

**PLSS Search:**

Section(s): 4-9

Township: 19S

Range: 32E

No PODs found.

**X.**

## **LOG SECTION**

**Strawn Disposal Zone**

30-025-16703

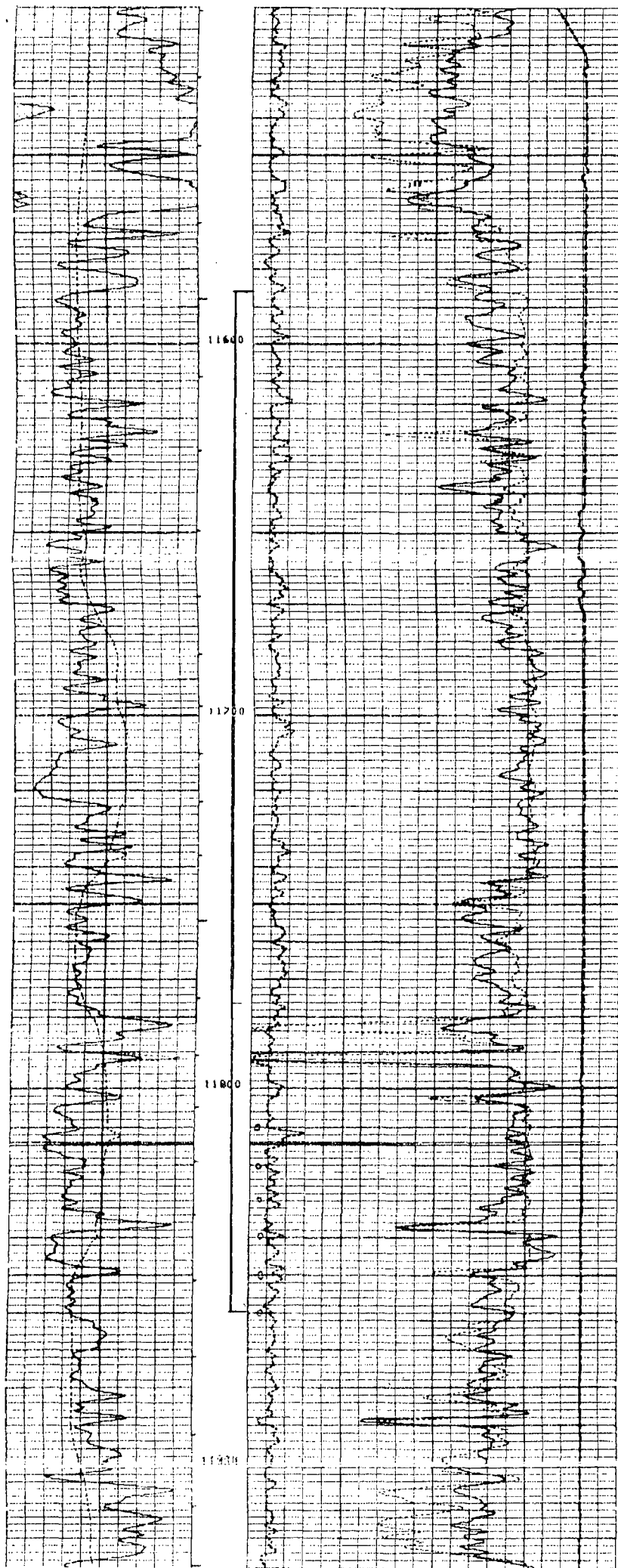
[illegible]

RUN NO										ONE									
Service Order No.										126073									
Fluid Level										FULL									
Sounding PPM Cl										97000									
Speed F.P.M.										70									
EQUIPMENT DATA										REMARKS									
Dens. Panel										482									
Dens. Cor.										586									
Dens. Slid										1113									
Dens. Sonds										303									
Dens. Source										1246									
Dens. Calibrator										575									
Neut. Panel										482									
Neut. Cor.										1622									
Neut. Source										1585									
Neut. Calibrator										1644									
GR Cor.										2358									
Mammograph Panel										227									
Tape Recorder (TR)										938									
Depth Encoder (DNE)										CSO									
Pressure Wheel (CPW)										CSU									
Compressor										Type									
Enter Spring										80WSPRING									
Standoffs										No									
In Line or Not										S. O. - Inches									
CALIBRATION DATA										SEE CAL FILM									
GR										BKG. CPS									
										Source CPS									
										Sens. Cal									
										I. C. Co.									
Short Spacing - Before Log																			
Long Spacing - Before Log																			
Short Spacing - After Log																			
Long Spacing - After Log																			
TP - Before Log																			
TP - Before Log																			
TP - After Log																			
TP - After Log																			
LOGGING DATA										GR									
DEPTH				CNP		fpc		GR				Scale							
Top	Bottom	Porosity Scale	Mudline	Auto Corr. or Hole Size Saming	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	I. C.	Zero Dr. Log	Scale For 100 Yds.							
CSG	FD	30-10	LS-CH	AUTO	30-10	2.71	1.1	LTQ	100	1	0	100							
SURF	CSG	30-10	LS-CH						100	1	0	100							

All interpretations are submitted based on information from electrical or other measurements and are approximate and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence or due to the inability to obtain data, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Conditions of Sale.

CALIPER		DIAM. IN INCHES	
6			16
GAMMA RAY		API UNITS	
0			100
100			200

CORRECTION		GRAMS CC	
Use this scale when correction factor is presented in Track 2	OR	Use this scale when correction factor is presented in Track 1	
0	25	25	0
BULK DENSITY		GRAMS CC	
2.0	2.5		3.0
1.0	1.5		2.0
G.M. POROSITY = %			



Strawn Lime

11586-11860'

Gross

SWD Interval



**marbob**  
energy corporation

April 26, 2010

Hobbs News-Sun  
201 N. Thorp  
Hobbs, NM 88240

Re: Legal Notice  
Salt Water Disposal Well

Gentlemen:

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 Marbob Energy Corporation, P. O. Box 227, Artesia, NM 88211-0227.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brian Collins', is written over a horizontal line.

Brian Collins  
Petroleum Engineer

BC/dlw

enclosure

**ARTESIA DAILY PRESS**  
**LEGAL NOTICES**

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, 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 Lusk 32 SWD No. 1 is located 1980' FSL and 1980' FEL, Section 32, Township 18 South, Range 32 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 Strawn formation at a depth of 11586 - 11860' at a maximum surface pressure of 2317 psi and a maximum rate of 10,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 575-748-3303.

Published in the Hobbs News-Sun, Hobbs, New Mexico, on \_\_\_\_\_, 2010.



April 28, 2009

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

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. 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 should you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Brian Collins', is written over a horizontal line.

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure





April 28, 2009

OXY USA, Inc.  
P. O. Box 4294  
Houston, TX 77210

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. 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.

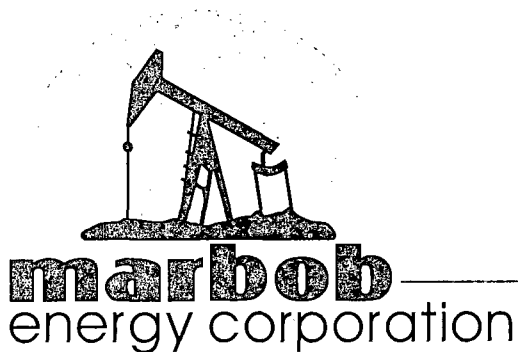
Please do not hesitate to contact us should you have any questions.

Sincerely,

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

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



April 28, 2009

Chevron USA, Inc.  
11111 S. Wilcrest  
Houston, TX 77099

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. 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 should you have any questions.

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



April 28, 2009

Echo Production, Inc.  
P. O. Box 1210  
Graham, TX 76450

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

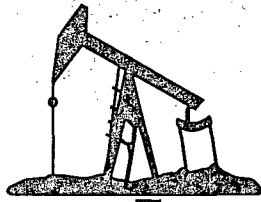
Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must 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 should you have any questions.

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



**marbob**  
energy corporation

April 28, 2009

Snow Oil & Gas, Inc.  
P. O. Box 1277  
Andrews, TX 79714

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. 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 should you have any questions.

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



April 28, 2009

Devon Energy Operating Corp.  
20 N. Broadway  
Oklahoma City, OK 73102

Re: Application to Inject  
Lusk 32 SWD No. 1  
Township 18 South, Range 32 East, NMPM  
Section 32: 1980 FSL 1980 FEL, Unit J  
Eddy County, New Mexico

Ladies and Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. 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 should you have any questions.

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, June 08, 2010 11:22 AM  
**To:** 'Debora Wilbourn'; 'Brian Collins'  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** Disposal application from Marbob: Lusk 32 SWD #1 30-025-26703

Hello Debora:

Would you please mail a copy of the actual newspaper notice as posted in the paper for this well only? If you email it, make sure the copy is readable.

You previously emailed some certified receipts, but I don't know which well they pertained to....please email again only for this well?

Please only send items for one application at a time.

– I once passed through Artesia and must have gotten heat stroke, now am easily confused.

Regards,

William V Jones, P.E.  
Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462



# Affidavit of Publication

State of New Mexico,

County of Lea.

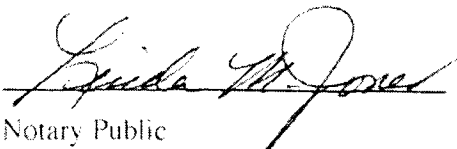
I, JUDY HANNA  
PUBLISHER

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  
May 04, 2010  
and ending with the issue dated  
May 04, 2010

  
PUBLISHER

Sworn and subscribed to before me  
this 18th day of  
May, 2010

  
Notary Public

My commission expires  
June 16, 2013  
(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 NOTICE  
MAY 4, 2010

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, 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 Lusk 32 SWD No. 1 is located 1980' FSL and 1980' FEL, Section 32, Township 18 South, Range 32 East, Lea County, New Mexico. Disposal Water will be sourced from area wells producing from the Bone Spring formation. This disposal water will be injected into the Strawn formation at a depth of 11586-11860' at a maximum surface pressure of 2317 psi and a maximum rate of 10,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 575-746-3303.

Published in the Hobbs News-Sun, Hobbs, New Mexico, on  
May 4, 2010

#25826

02105718

00051318

MARBÓB ENERGY CORPORATION  
P.O. BOX 227  
ARTESIA, NM 88211-0227

## 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 OPERATING CORP  
20 N BROADWAY  
OKLAHOMA CITY OK 73102

2. Article Number

(Transfer from service label)

7006 0810 0000 8975 7107

PS Form 3811, February 2004

DW

Domestic Return Receipt Lusk 32 5.00

102595-02-M-1540

## 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

MAY 10 2010

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:

ECHO PRODUCTION INC  
P O BOX 1210  
GRAHAM TX 76450

2. Article Number

(Transfer from service label)

7006 0810 0000 8979 7084

PS Form 3811, February 2004

DW

Domestic Return Receipt Lusk 32 5.00

102595-02-M-1540

## 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

MAY 10 2010

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:

CHEVRON USA INC  
11111 S WILCREST  
HOUSTON TX 77099

2. Article Number

(Transfer from service label)

7006 0810 0000 8979 7077

PS Form 3811, February 2004

DW

Domestic Return Receipt Lusk 32 5.00

102595-02-M-1540

## 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

MAY 06 2010

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:

NM STATE LAND OFFICE  
P O BOX 1148  
SANTA FE NM 87504-1148

2. Article Number

(Transfer from service label)

7006 0810 0000 8979 7114

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

# COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

☐ Agent

☐ Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

5/4/10

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

MAY 06 2010

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:

OXY USA INC  
P O BOX 4294  
HOUSTON TX 77210

2. Article Number

(Transfer from service label)

7006 0810 0000 8979 7060

PS Form 3811, February 2004

DW

Domestic Return Receipt

Look 32 SWD

102595-02-M-1540

# COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

☐ Agent

☐ Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

5-4-10

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

MAY 07 2010

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:

SNOW OIL & GAS INC  
P O BOX 1277  
ANDREWS TX 79714

2. Article Number

(Transfer from service label)

7006 0810 0000 8979 7091

PS Form 3811, February 2004

DW

Domestic Return Receipt

Look 32 SWD

102595-02-M-1540

# COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

☐ Agent

☐ Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

5-3-10

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

MAY 04 2010

3. Service Type

☒ Certified Mail

☐ Express Mail

☐ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

# Injection Permit Checklist (03/15/2010)

Case \_\_\_\_\_ R- \_\_\_\_\_ SWD 1223 WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 6/9/10 UIC Qtr (A/M/T)  
 # Wells 1 Well Name: LSK 32 SWD #1 (FAMILY STATE HUNT #1)  
 API Num: (30-) 025-26703 Spud Date: 3/10/80 New/Old: 0 (UIC primacy March 7, 1982)  
 Footages 1980 FSL/1980 FEL Unit J Sec 32 Tsp 18S Rge 32E County Lea  
 Operator: Marbel Energy Corp Contact Brian Collins  
 OGRID: 14049 RULE 5.9 Compliance (Wells) 4/1300 (Finan Assur) OK IS 5.9 OK? OK  
 Operator Address PO Box 227, Artesia NM 88211-0227

Current Status: PA'03  
 Planned Work to Well: Re-enter, install 5 1/2" 5025A/B5 Planned Tubing Size/Depth: 2 7/8 @ 11,540

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing Surface	17 1/2 13 1/8	428	425	CIRC
Existing Intermediate	12 1/4 9 5/8	4245	2200	CIRC
Existing Long String	8 3/4 5 1/2	13,110	2990	1880 T.S. (1215 T.S.)

SV Tool \_\_\_\_\_ Liner \_\_\_\_\_ Open Hole 1809/1150 Total Depth 13119  
 Well File Reviewed ✓  
 Diagrams: Before Conversion ✓ After Conversion ✓ Elogs in Imaging File: ✓

Intervals:	Depths	Formation	Producing (Yes/No)	GENERAL LOCATION
Above (Name and Top)				
Above (Name and Top)		TOP STRAIN		
Injection..... Interval TOP:	11586	STRAIN	NO	2317 PSI Max. WHIP
Injection..... Interval BOTTOM:	11860	STRAIN	NO	Open Hole (Y/N)
Below (Name and Top)	11995	ATOKA		Deviated Hole?

Sensitive Areas: Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths 1300 ~ 2870  
2620  
 Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 0-650 Wells None Analysis? \_\_\_\_\_ Affirmative Statement ✓  
 Disposal Fluid Sources: B.S. Analysis? ✓

Disposal Interval Production Potential/Testing/Analysis Analysis: Depleted

Notice: Newspaper(Y/N) ✓ Surface Owner SLO Mineral Owner(s) \_\_\_\_\_  
 RULE 26.7(A) Affected Parties: OXY / Chevron / ECHO / SMCW / Devon (4/28 Letter)

Area of Review: Adequate Map (Y/N) ✓ and Well List (Y/N) \_\_\_\_\_  
 Active Wells 3 Num Repairs 0 Producing in Injection Interval in AOR No  
 P&A Wells 0 Num Repairs \_\_\_\_\_ All Wellbore Diagrams Included? \_\_\_\_\_

Questions/Required Work: LOG Xover?  
etch to top of strain structure dip down to base  
one depleted strain to west

Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_  
 Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_  
 Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_