

DATE IN <b>7-1-10</b>	SUSPENSE	ENGINEER <b>WJ.</b>	LOGGED IN <b>7-1-10</b>	TYPE <b>SWD</b>	PTG-W <b>1018257741</b>
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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



**Mar bob**  
**14049**

**Lus/L12 SWD#1**

## ADMINISTRATIVE APPLICATION CHECKLIST

**30-015-27056**

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

**F 12 195 316**

### 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]**

**T-1827**

### [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 \_\_\_\_\_**

**7-2-10**  
**frm Will**

### [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**  
**to follow by email**  
**[F] ☐ Waivers are Attached**

RECEIVED OGD  
 2010 JUL - 1 P 2:27

### [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

**30 Jun 10**  
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:   *Brian Collins*   DATE:   30 Jun 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 12 SWD No. 1  
Unit F, Section 12-T19S-R31E

Objective: Marbob proposes to reenter the Lusk 9209 JV-P No. 1, drill out plugs, clean out to approximately 11250', squeeze cement Delaware perforations, squeeze cement Bone Spring perforations, squeeze cement Wolfcamp perforations, test squeezed perforations to 1000 psi, perforate and acidize the Strawn Lime 11015-11205' and convert well to SWD service.

- 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 = 2203psi (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 12 SWD No. 1. Strawn water has very high chlorides like the Bone Spring produced water. We have two Strawn SWD's in the Lusk area and have encountered no compatibility issues.
- VIII. The injection zone is the Strawn limestone from 11015' to 11205'. Underground sources of drinking water will be shallower than 632 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 12 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: Marbub Energy CorpWELL NAME & NUMBER: Lusk 12 SWD No. 1 (Formerly Lusk 9209 JV-P No. 1)WELL LOCATION: 1980' FNL 1820' FNLUNIT LETTER: FSECTION: 12TOWNSHIP: 19sRANGE: 31eWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8" @ 632'Cemented with: 700 sx. or - ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: 11" Casing Size: 8 5/8" @ 4000'Cemented with: 1400 sx. or - ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 7 7/8" Casing Size: 5 1/2" @ 11290'Cemented with: 1800 sx. or - ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedTotal Depth: 11290'Injection Interval11015' feet to 11205'

(Perforated or Open Hole; indicate which)

See Attached  
Before & After  
Schematics

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Double 20 or IPC  
 Type of Packer: 10K nickel plated double grip retrievable  
 Packer Setting Depth: ± 10965'  
 Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

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

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" schematic

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

Underlying: Strawn (wells in area depleted), Morrow 12200-12500'

Overlying: Wolfcamp 10200-10425' (very limited reservoir volumes in area)

Bone Spring 7000-9000', Delaware 4500-6800'

3D-015-27056

Lusk 9209 JV-P No. 1

Zero: 14' AGL

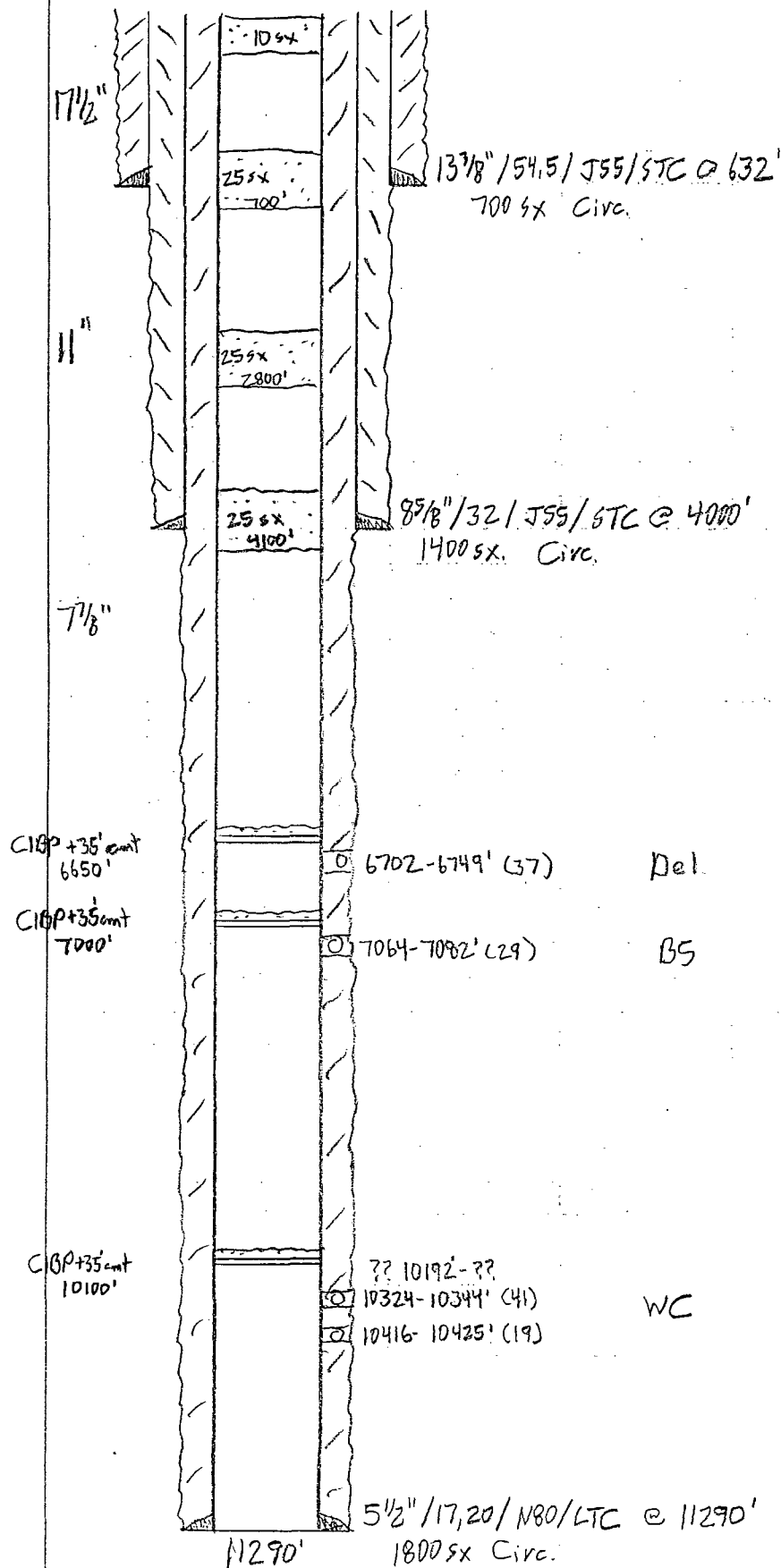
1780' FNL, 1820' FNL

KB: 3624'

F-12-176-B1c

GL: 3610'

E daly NM



Before SWD Conversion

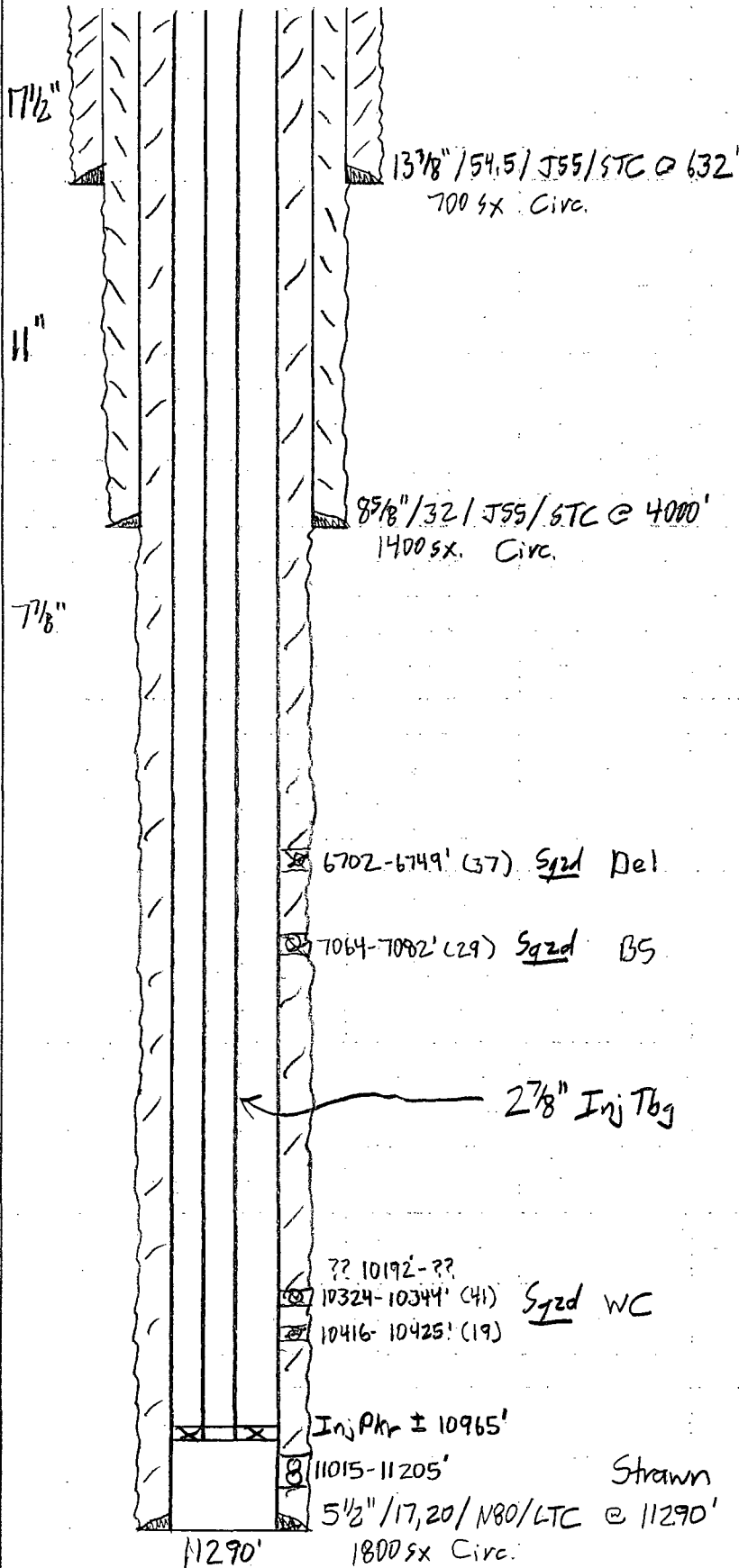
3D-015-27056

Lusk 12 SWD No. 1  
(Lusk 9209 JV-P No. 1)

1780' FNL, 1820' FWL

F-12-196-31c

Eddy NM

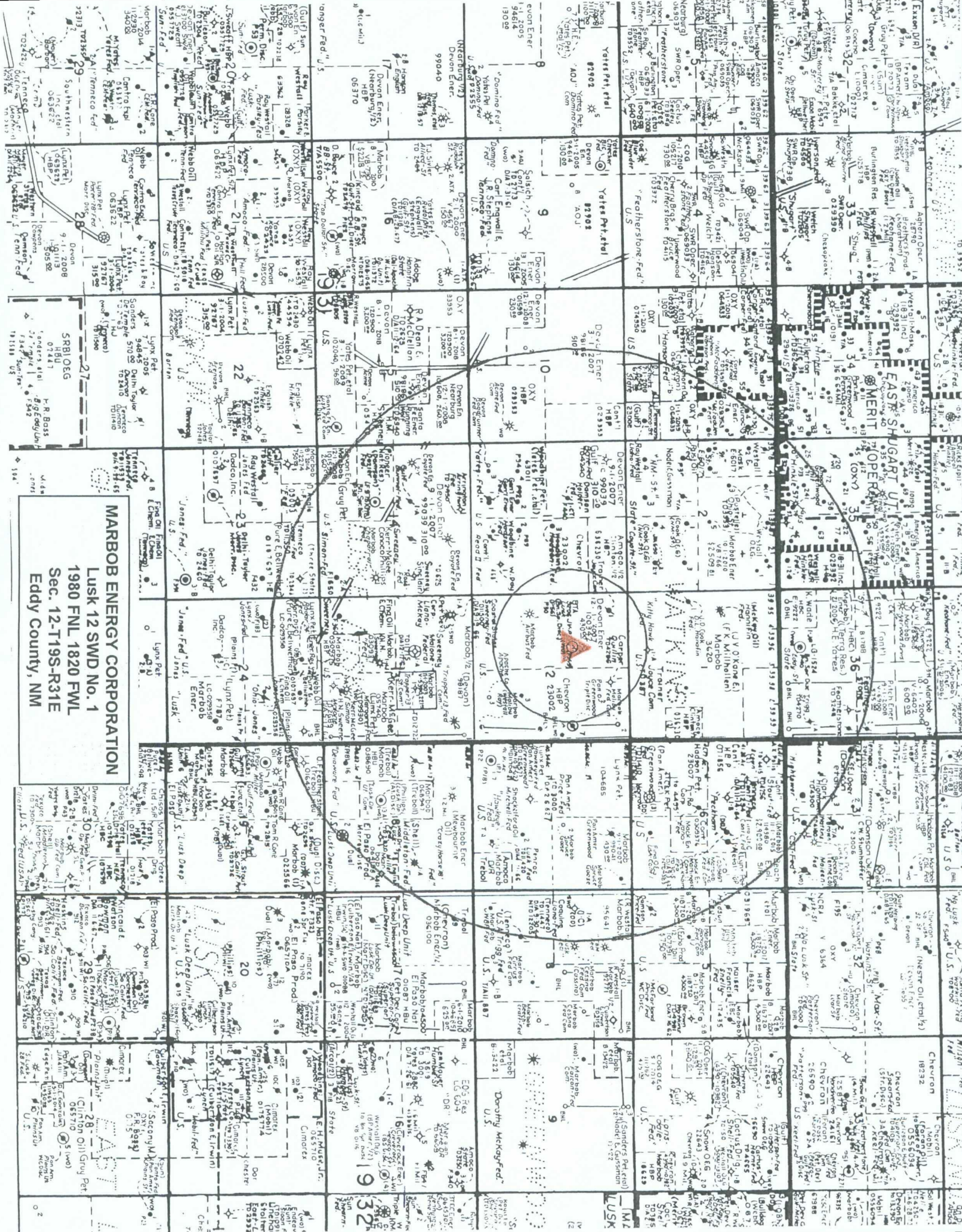


After SWD Conversion

**V.**

**MAP**

**Wells within 1/2  
Mile Radius**



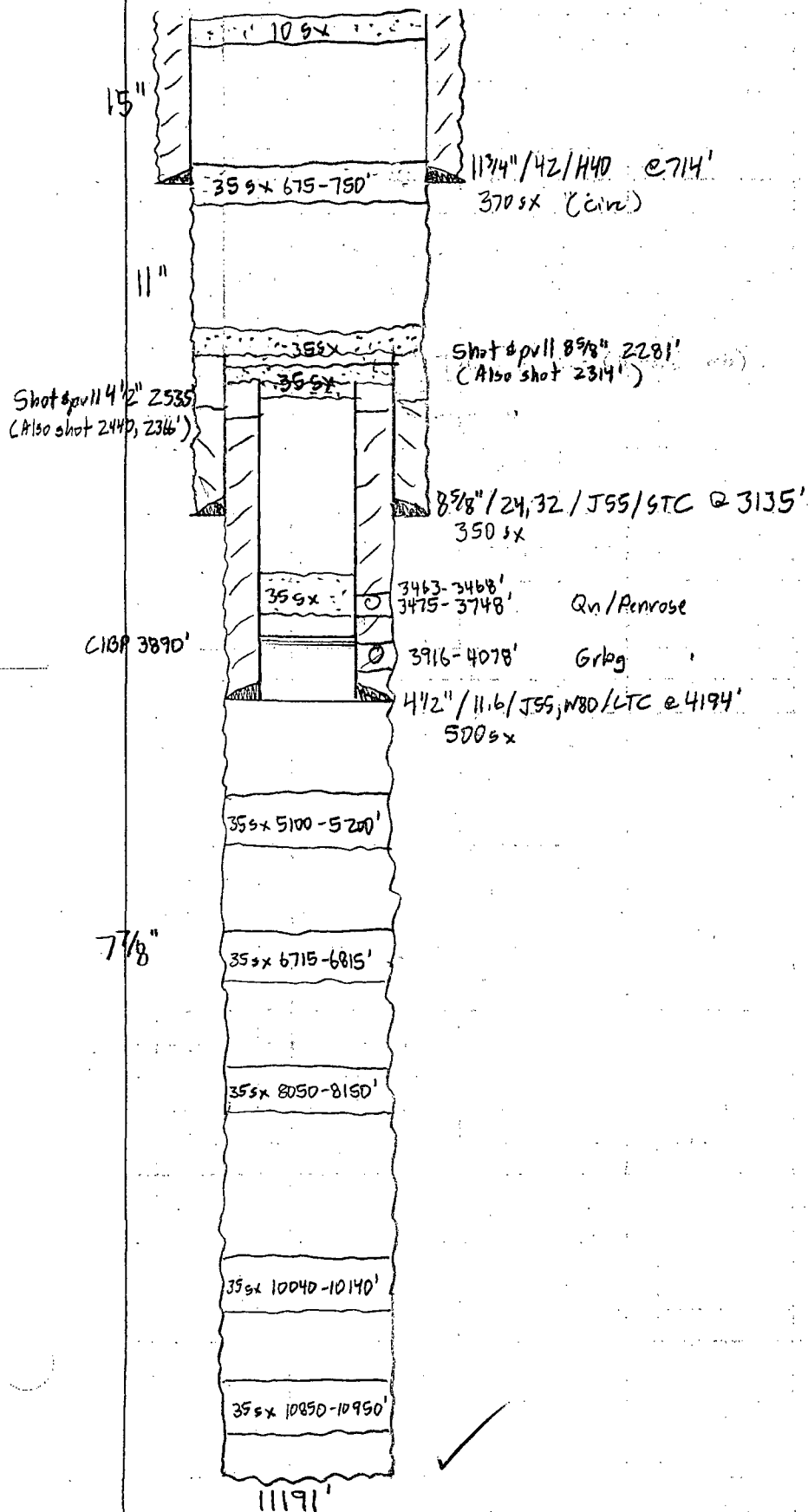
**MARBOL ENERGY CORPORATION**

**Lusk 12 SWD No. 1**  
**1980 FNL 1820 FWL**  
**Sec. 12-T19S-R31E**  
**Eddy County, NM**

# **VI.**

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

Joyce Conn. 1  
 660' FNL, 660' FWL  
 D-12-195-31e  
 Eddy NM



Within Area of Review

Well: Airbus Fed. 1

Zero: 17' AGL

Location: 1980' FSL, 660' FWL

KB: 3621'

GL: 3604'

L -12- 19s-3/e

Eddy NM

30-015-35887

Casing Program:

Size	Wt.	Grade	Conn.	Depth
13 7/8"	54.5	J55	STC	748'
9 5/8"	36.40	J55	BTC	3613'
5 1/2"	17	M95-110	LTC	12698'
2 3/8"	4.7	L80	EUE	

13 7/8" C 748'

450 HLC + 250" C" (Circ 1076x)

DV 2660'

TOC 2700' TS

1<sup>st</sup>: 150 HLC + 250" C" (Circ 1003x)

9 5/8" C 3613'

2<sup>nd</sup>: 750 HLC + 100" C" (Circ 304x)

DV 9990'

Comp. Frac Plug 12325'

CIBP 20' out 12470'

FC 12654'

12265-12310' (144)

V. Mirror 2

12344-12385' (69)

V. Mirror 1

12490-12503' (54)

L Mirror

5 1/2" C 12698'

1<sup>st</sup>: 550 Super H (Circ 689x)

2<sup>nd</sup>: 1200 HLC + 100" C"

12700'

- Sketch Not To Scale -

KBCollins /

Within Area of Review

30-015-05762

Greenwood Unit 7

1980' FNL, 660' FEL

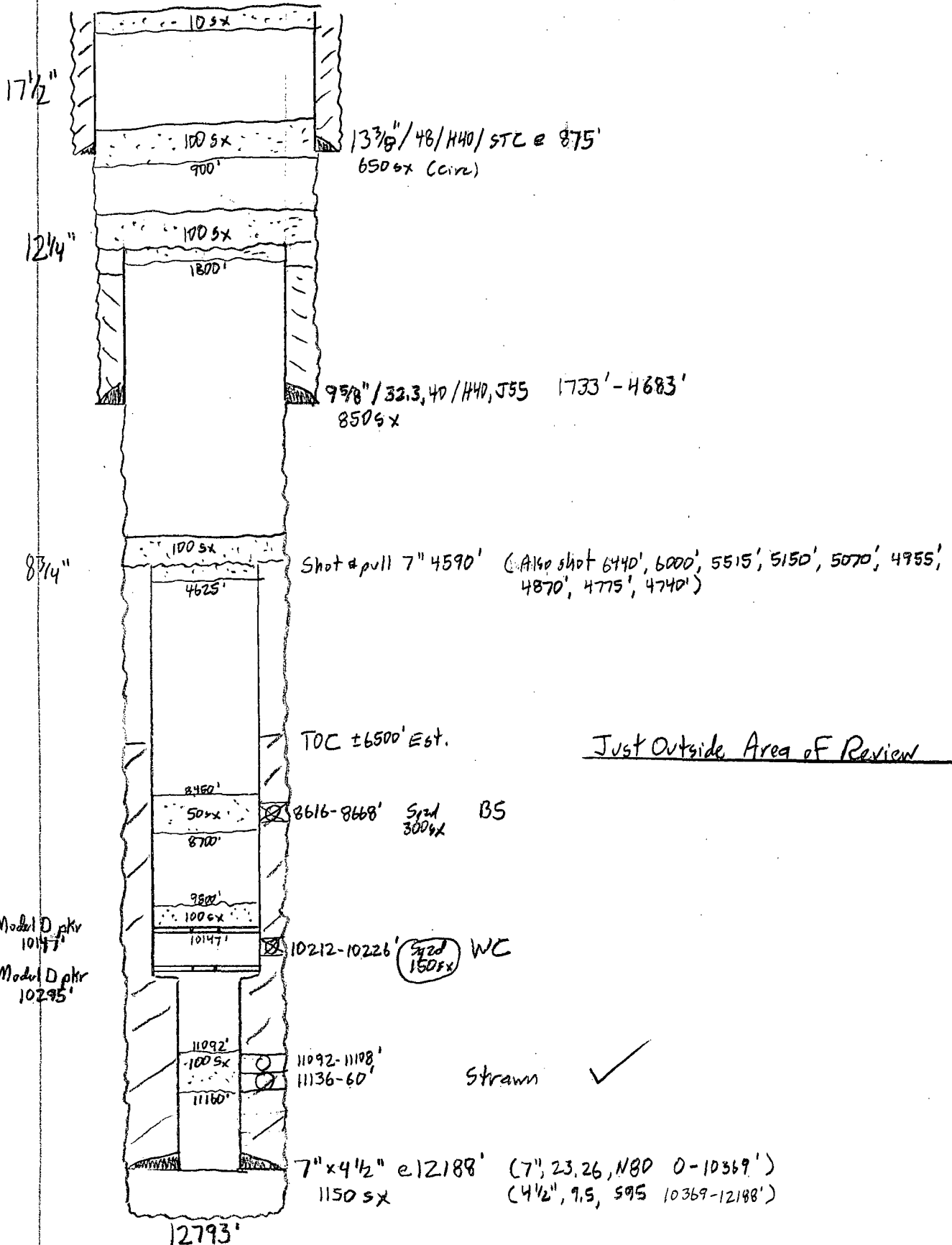
H-12-195-31c

Eddy NM

Zero:

HG:

GL:



**VII.**

**WATER ANALYSIS**

**Injection Water**



# HALLIBURTON

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

COMPANY Marbob

Produced Water

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

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

WELL                      DEPTH                      FORMATION                       
COUNTY                      FIELD                      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	0 mpl
TDS	mpl	mpl	mpl	0 mpl
OIL GRAVITY	@ °F	@ °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)

**PLSS Search:**

Section(s): 1, 2, 11, 12, 13, Township: 19S Range: 31E  
14

No PODs found.

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.

3/17/10 3:32 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): 6, 7, 18

Township: 19S

Range: 32E

No PODs found.

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.

3/17/10 3:33 PM

Page 1 of 1

POINT OF DIVERSION BY LOCATION

**X.**

## **LOG SECTION**

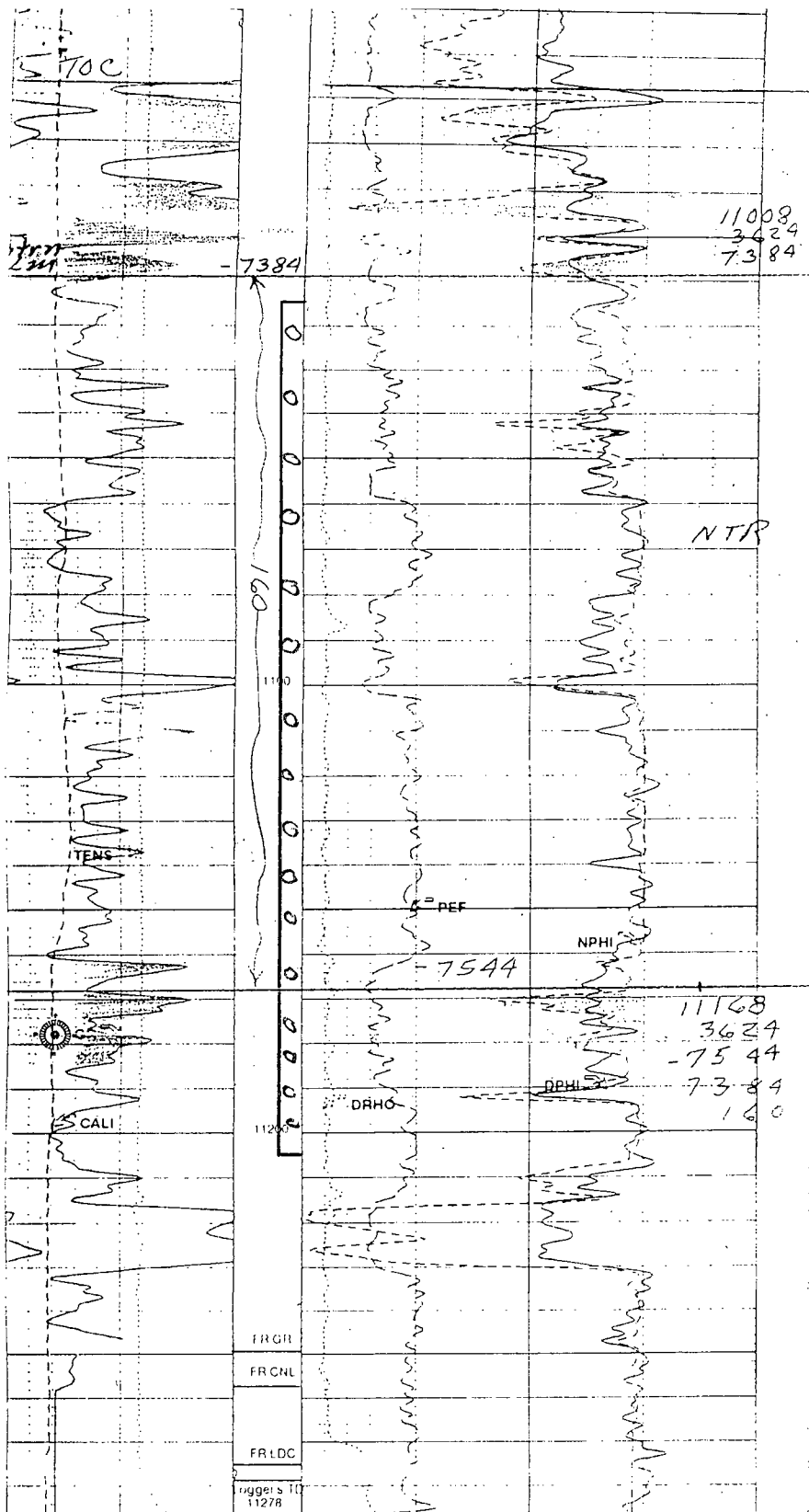
**Strawn Disposal Zone**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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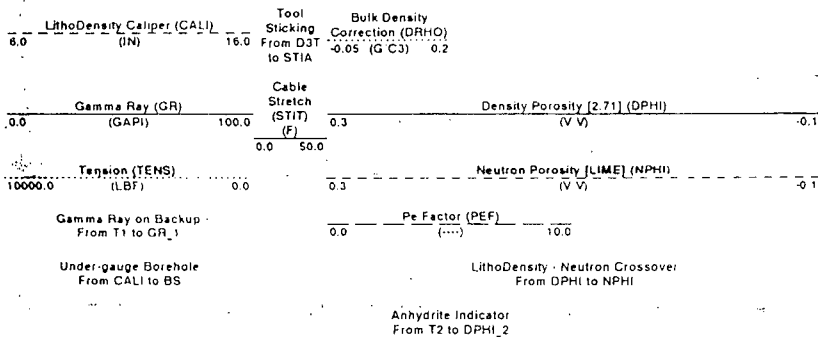
# 1-2-3-4-5-6-7-8-9-10-11-12

1993

[illegible]



Strawn Lime  
SWD Interval  
11015-11205'  
Gross



#### PIP SUMMARY

- Integrated Borehole Volume Every 10.0 F3
- Integrated Borehole Volume Every 100.0 F3
- Integrated Annulus Volume Every 10.0 F3



May 4, 2010

Artesia Daily Press  
P. O. Box 190  
Artesia, NM 88211-0190

Re: Legal Notice  
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,

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 12 SWD No. 1 is located 1980' FNL and 1820' FWL, Section 12, Township 19 South, Range 31 East, Eddy 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 11015' - 11205' at a maximum surface pressure of 2203 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 Artesia Daily Press, Artesia, New Mexico, on \_\_\_\_\_, 2010.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NMNM100342

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other SWD

2. Name of Operator

MARBOB ENERGY CORPORATION

3a. Address

P O BOX 227  
ARTESIA NM 88211-0227

3b. Phone No. (include area code)

575-748-3303

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
LUSK 12 SWD 1

9. API Well No.  
30-015-27056

10. Field and Pool or Exploratory Area  
LUSK STRAWN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SEC. 12-T19S-R31E, UNIT F  
1980 FNL 1820 FWL

11. Country or Parish, State  
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>CONVERT TO SWD</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

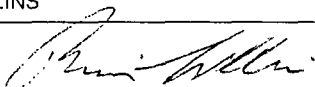
SUBMITTED FORM C-108 TO NMOC D - COPY ATTACHED

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

BRIAN COLLINS

Title PETROLEUM ENGINEER

Signature



Date

30 Jun 10

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



**marbob**  
energy corporation

June 29, 2010

ConocoPhillips Company  
P. O. Box 7500  
Bartlesville, OK 74005

Re: Application to Inject  
Lusk 12 SWD No. 1  
Township 19 South, Range 31 East, NMPM  
Section 12: 1980 FNL 1820 FWL  
Eddy County, New Mexico

Ladies and Gentlemen:

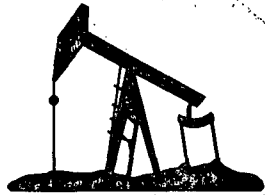
Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well to salt water disposal. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must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

June 29, 2010

Devon Energy Production Company  
20 N. Broadway, Ste. 1500  
Oklahoma City, OK 73102

Re: Application to Inject  
Lusk 12 SWD No. 1  
Township 19 South, Range 31 East, NMPM  
Section 12: 1980 FNL 1820 FWL  
Eddy County, New Mexico

Ladies and Gentlemen:

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

Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



June 29, 2010

Fidelity Exploration and Production Company  
1625 Broadway #1800  
Denver, CO 80202

Re: Application to Inject  
Lusk 12 SWD No. 1  
Township 19 South, Range 31 East, NMPM  
Section 12: 1980 FNL 1820 FWL  
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.

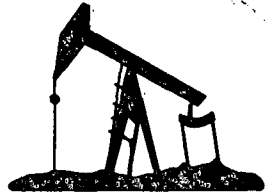
Please do not hesitate to contact us should you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Brian Collins', is written above the printed name.

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



**marbob**  
energy corporation

June 29, 2010

Lynx Petroleum Consultants Inc.  
P. O. Box 1708  
Hobbs, NM 88241

Re: Application to Inject  
Lusk 12 SWD No. 1  
Township 19 South, Range 31 East, NMPM  
Section 12: 1980 FNL 1820 FWL  
Eddy County, New Mexico

Ladies and Gentlemen:

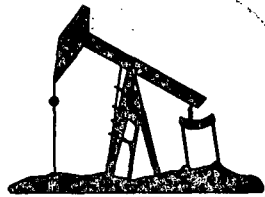
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Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure



**marbob**  
energy corporation

June 29, 2010

Shackelford Oil Company  
P. O. Box 10665  
Midland, TX 79702

Re: Application to Inject  
Lusk 12 SWD No. 1  
Township 19 South, Range 31 East, NMPM  
Section 12: 1980 FNL 1820 FWL  
Eddy County, New Mexico

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Sincerely,

Brian Collins  
Petroleum Engineer

BC/dlw  
enclosure

**Jones, William V., EMNRD**

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**From:** Debora Wilbourn [geology@marbob.com]  
**Sent:** Friday, August 06, 2010 11:13 AM  
**To:** Jones, William V., EMNRD  
**Subject:** Affidavit of Publication - Lusk 12 SWD #1  
**Attachments:** Affidavit of Publication.pdf

Debora L Wilbourn, GeoTech  
[geology@marbob.com](mailto:geology@marbob.com)  
Marbob Energy Corporation  
PH 575-748-3303

# Affidavit of Publication

NO.

21316

STATE OF NEW MEXICO

County of Eddy:

Walter L. Green

*Walter L. Green*

being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

## Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/days on the same day as follows:

First Publication August 3, 2010

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

Subscribed and sworn to before me this

3rd day of August 2010



OFFICIAL SEAL

Danny Scott

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 3/18/2014

*Danny Scott*

Danny Scott  
Notary Public, Eddy County, New Mexico

# Copy of Publication:

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 12 SWD No. 1 is located 1980' FNL and 1820' FWL, Section 12, Township 19 South, Range 31 East, Eddy 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 11015' - 11205' at a maximum surface pressure of 2203 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 Artesia Daily Press, Artesia, N.M., August 3, 2010. Legal No. 21316.

## Injection Permit Checklist (08/27/2010)

WFX PMX SWD 1240 Permit Date 8/31/10 UIC Qtr (A/K)

# Wells 1 Well Name(s): LUSK 12 SWD #1 (LUSK 9209 JV-P #1)

API Num: 30-015-27056 Spud Date: 92 New/Old: N (UIC primacy March 7, 1982)

Footages 1980 FNL/1820 FWL Unit F Sec 12 Tsp 19S Rge 31E County EDDY

General Location: NE of Corral

Operator: Marlow Energy Corp Contact BRIAN COLLINS

OGRID: 14049 RULE 5.9 Compliance (Wells) 6/1365 (Finan Assur OK IS 5.9 OK? OK)

Well File Reviewed Current Status: P&amp;A

Planned Work to Well: RE-ENTER

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: ☒

Well Details:		Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/>	Surface	17 1/2 13 3/8	632	—	700 SK	CIRC
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/>	Interm	11 8 5/8	4000'	—	1400 SK	CIRC
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/>	Long St	7 7/8 5 1/2	11,290 TD		1800 SK	CIRC
New <input type="checkbox"/> Existing <input type="checkbox"/>	Liner					
New <input type="checkbox"/> Existing <input type="checkbox"/>	Open Hole					

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	7000-9000	B.S.	
	10200-425	W.C.	
Injection TOP:	11015	STRMIN	Max. PSI 2203 Open Hole Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	11205		Tubing Size 2 7/8 Packer Depth 10965 ±
Formation(s) Below	12200-12500	MORROW	

Capitan Reef? ☒ (Potash? ☐ Noticed? ☐ WIPP? ☐ Noticed? ☐ Salado Top/Bot 758-1030 Cliff House?Fresh Water: Depths: 0-632' Formation 20 Wells? NONE Analysis? ☐ Affirmative Statement ☒Disposal Fluid Analysis? ☒ Sources: BOW-SPRINGDisposal Interval: Analysis? ☒ Production Potential/Testing: DEPLETED/NOT PRODUCTIVE

Notice: Newspaper Date 8/3/10 Surface Owner BLM Mineral Owner(s)

RULE 26.7(A) Affected Persons: CONOCO PH / DEVON / FIDELITY EXPL / LYNN / SHOCKLEY

AOR: Maps? ☒ Well List? Producing in Interval? NO Wellbore Diagrams? ☒

.....Active Wells 1 Repairs? 0 Which Wells? —

.....P&amp;A Wells 2 Repairs? 0 Which Wells? —

Questions: Request Sent Reply: