

9/8/09	9/24/09	WVS	9/8/09	1195	0925160	492
DATE	SUBPENSE	ENGINEER	LOGGED IN	TYPE	APPROV	

ABOVE THIS LINE FOR DIVISION USE ONLY

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



3 19

## 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

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 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: 4 Sept 09  
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: \_\_\_\_\_

C-108 Application for Authorization to Inject  
SRO 16 SWD #1  
1980' FNL, 1980' FEL  
G-16-T26S-R28E, Eddy County

Marbob Energy Corporation proposes re-enter the captioned well for salt water disposal service into the Devonian from 14525' to 15100'.

- V. Map is attached.
- VI. No wells within the ½ mile radius area of review penetrate the proposed injection zone.
- VII.
  - 1. Proposed average daily injection rate = 2500 BWPD  
Proposed maximum daily injection rate = 20,000 BWPD
  - 2. Closed system
  - 3. Proposed maximum injection pressure = 2905 psi  
(0.2 psi/ft. x 14525 ft.)
  - 4. Source of injected water will be Delaware Sand and Bone Spring Sand produced water. No compatibility problems are expected. Analyses of Delaware and Bone Spring waters from analogous source wells are attached.
- VIII. The injection zone is the Devonian, permeable dolomite from 14525' to 15100'. Any underground water sources will be shallower than 500'.
- IX. The Devonian injection interval might be acidized with approximately 30,000 gals of 20% HCl acid.
- X. Well logs are filed with the Division. A section of the neutron-density porosity log showing the top 75 feet of injection interval is attached. Well will be deepened to approximately 15,100' to open more Devonian dolomite.
- XI. There are no fresh water wells within a mile of the proposed SWD well..
- 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.

## INJECTION WELL DATA SHEET

OPERATOR: Marbob Energy CorpWELL NAME & NUMBER: SRO 16 SWD #1 (Formerly Hamon St LG-1175 #1)WELL LOCATION: 1980' FNL 1980' FELUNIT LETTER: GSECTION: 16TOWNSHIP: 26sRANGE: 28eWELLBORE SCHEMATIC

See attached before & after schematics.  
 Propose to reenter well, clean out to  
 9 5/8" stub at 5933', tie 9 5/8" back to  
 surface, cement 9 5/8" to surface, clean  
 out to original TD 14572', deepen to  
 15100'±, run 7" to 14525', cement 7"  
 to 5000' and convert well to a  
 SWD in Devonian open hole 14525-15100'±.

WELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8" e2434'Cemented with: 2650 sx. or - ft<sup>3</sup>Top of Cement: Surface Method Determined: Circ. to surface with 1"Intermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8" 5933-9441'Cemented with: 1300 sx. or - ft<sup>3</sup>Top of Cement: 6408' Method Determined: Temp. SurveyProduction CasingHole Size: 8 1/2" Casing Size: -Cemented with: - sx. or - ft<sup>3</sup>Top of Cement: - Method Determined: -Total Depth: 14572'Injection Interval14525' feet to 15100'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: IPC or Duoline 20  
 Type of Packer: 10K nickel plated retrievable double grip  
 Packer Setting Depth: ± 14475'  
 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: Devonian  
 3. Name of Field or Pool (if applicable): \_\_\_\_\_  
 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 wellbore schematic

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

Underlying: None

Overlying: Possible Delaware 2500'-6000', Possible Bone Spring 6250-8500',  
Possible Penn 10500' +, Possible Strawn 11,950' +, Possible Atoka 12,100' +  
Possible Morrow 12,500' +

No productive wells within 1 mile of this location.

30-015-21398

(Formerly St. LG-1175 #1)

1980' FNL, 1980' FEL

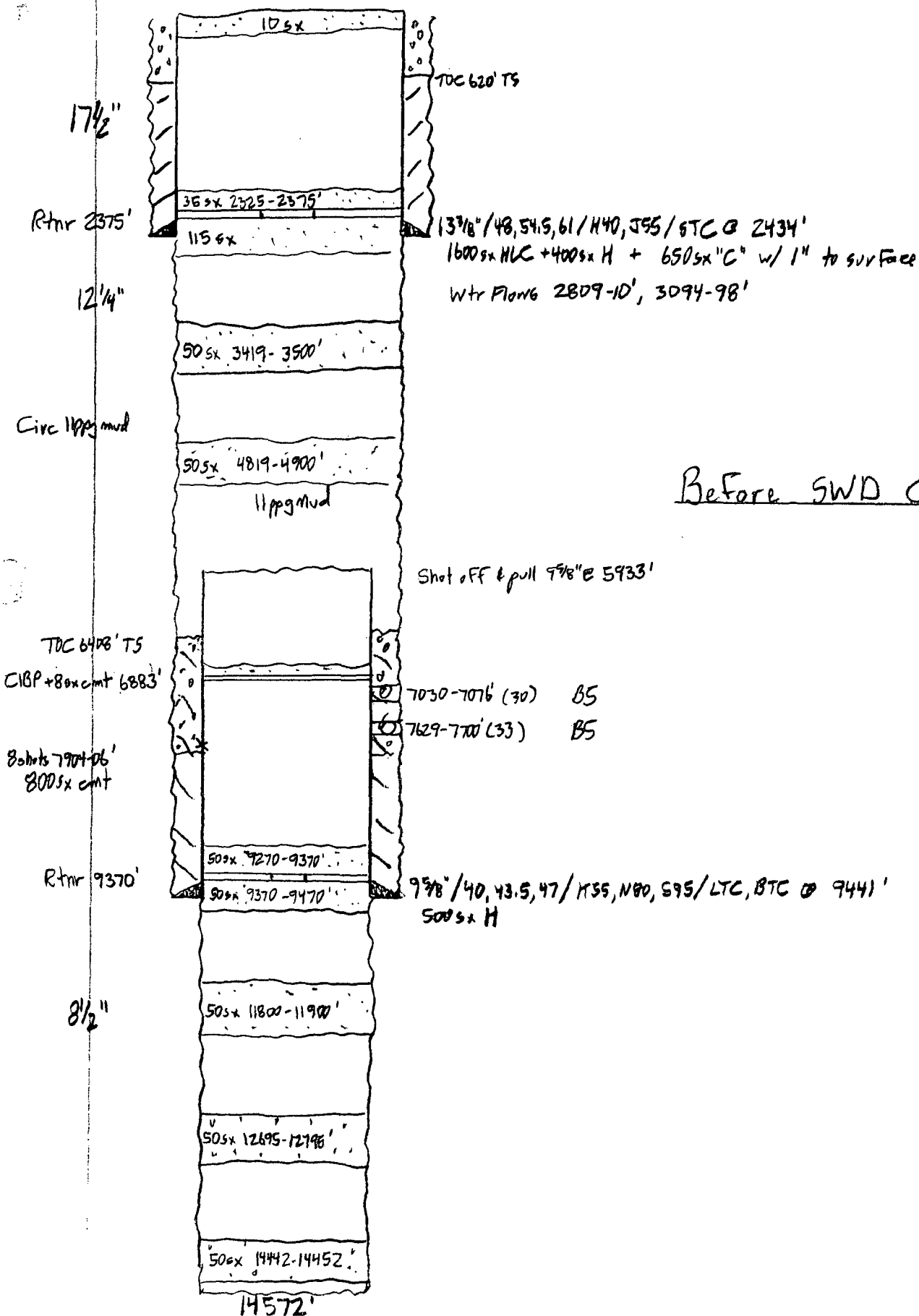
G-16-26s-28e

Eddy NM

Zero: 17' AGL

KB: 3041'

GL: 3024'



# SRO 16 SWD No. 1

30-015-21398

(Formerly St. LG-1175 #1)

1980' FNL, 1980' FEL

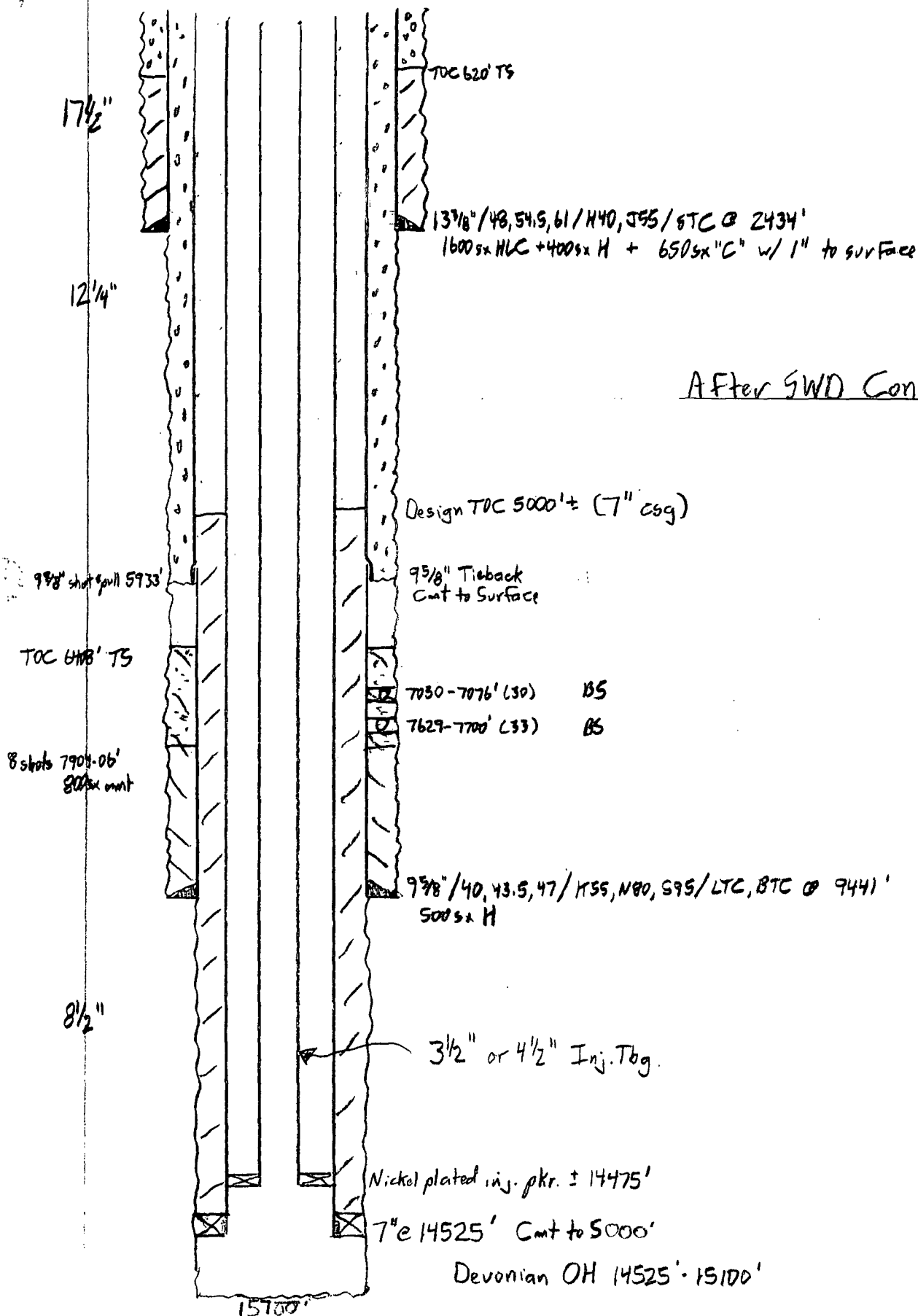
G-16-26s-28e

Eddy NM

Zero: 17' AGL

KB: 3041'

GL: 3024'



After SWD Conversion

**V.**

**MAP**





**VII.**

**WATER ANALYSIS**

# HALLIBURTON

## PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY Marbob REPORT DATE W09-055  
DISTRICT July 12, 2009  
Artesia

*Delaware Produced Water*

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

WELL COUNTY \_\_\_\_\_ DEPTH FIELD 17 FORMATION SOURCE \_\_\_\_\_

SAMPLE	Black River	Spanish Cedar 1	Wtr. Well C-00516	
Sample Temp.	70 °F	70 °F	70 °F	°F
RESISTIVITY	15.8	0.054	3.41	
SPECIFIC GR	1.000	1.154	1.002	
pH	7.85	5.43	7.33	
CALCIUM	750 mpl	30,000 mpl	1,000 mpl	mpl
MAGNESIUM	300 mpl	17,100 mpl	450 mpl	mpl
CHLORIDE	104 mpl	140,306 mpl	240 mpl	mpl
SULFATES	Light mpl	Light mpl	Heavy mpl	mpl
BICARBONATES	153 mpl	61 mpl	262 mpl	mpl
SOLUBLE IRON	0 mpl	25 mpl	0 mpl	mpl
<CL	N	N	N	
Sodium	mpl	mpl	mpl	mpl
TDS	mpl	mpl	mpl	mpl
OIL GRAVITY	@ °F	@ °F	@ °F	@ °F

REMARKS \_\_\_\_\_

MPL = Milligrams per liter  
Resistivity measured in Ohm·m<sup>2</sup>/in

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ANALYST \_\_\_\_\_

# MALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY  
WATER ANALYSIS REPORT  
HOBBS, NEW MEXICO

COMPANY Marbob

REPORT W08-156  
DATE November 25, 2008  
DISTRICT Hobbs

SUBMITTED BY

Bone Spring Sand  
Produced Water

WELL Save DA 21 Fed. #1 DEPTH                      FORMATION                       
COUNTY                      FIELD                      SOURCE                     

## SAMPLE

Sample Temp.	70 °F	°F	°F	°F
RESISTIVITY	0.068			
SPECIFIC GR	1.095			
pH	6.53			
CALCIUM	7500 mpl	mpl	mpl	mpl
MAGNESIUM	6000 mpl	mpl	mpl	mpl
CHLORIDE	83125 mpl	mpl	mpl	mpl
SULFATES	Light mpl	mpl	mpl	mpl
BICARBONATES	231 mpl	mpl	mpl	mpl
SOLUBLE IRON	0 mpl	mpl	mpl	mpl
KCL	Negative			
Sodium	mpl	0 mpl	0 mpl	0 mpl
TDS	mpl	0 mpl	0 mpl	0 mpl
OIL GRAVITY	@ °F	@ °F	@ °F	@ °F

## REMARKS

MPL - Milligrams per liter  
Resistivity measured in Ohm-cm

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ANALYST MA 08 JH

**X.**

**Neutron Density Log  
Across Proposed Top  
75 Feet of Devonian  
Injection Interval**

Schlumberger

FORMATION DENSITY

COUNTY EDDY  
 FIELD WILDCAT  
 LOCATION STATE LG-1175 #1  
 WELL  
 COMPANY JAKE L. HAMON

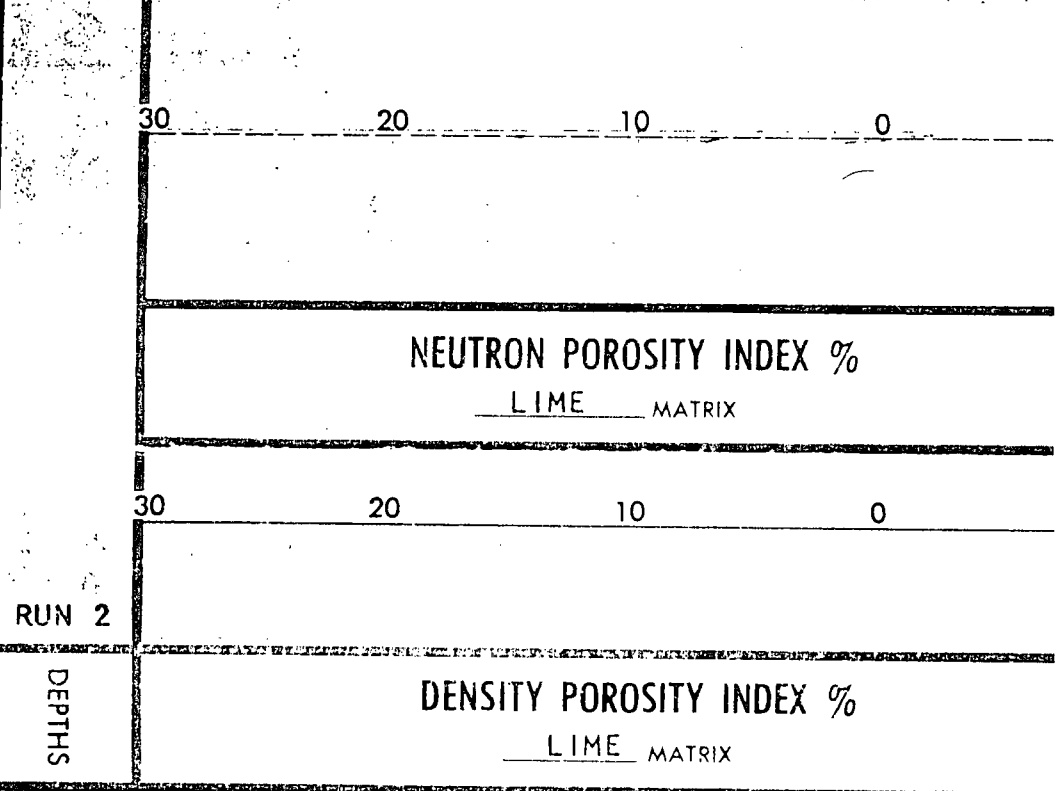
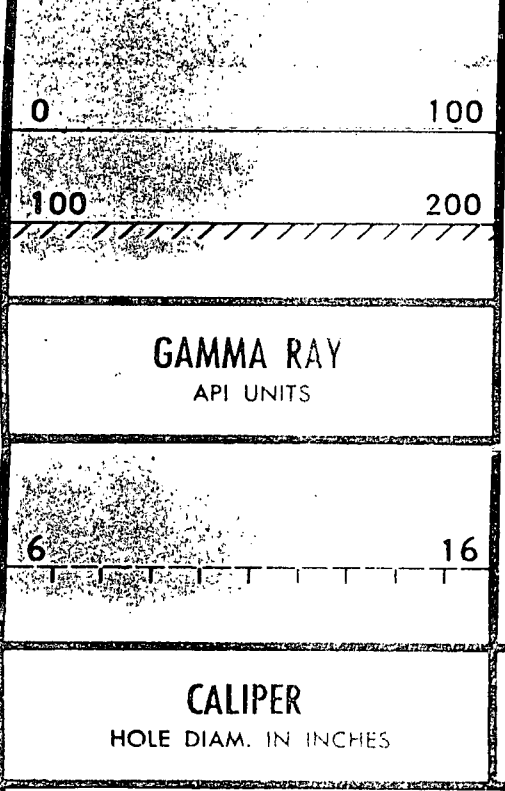
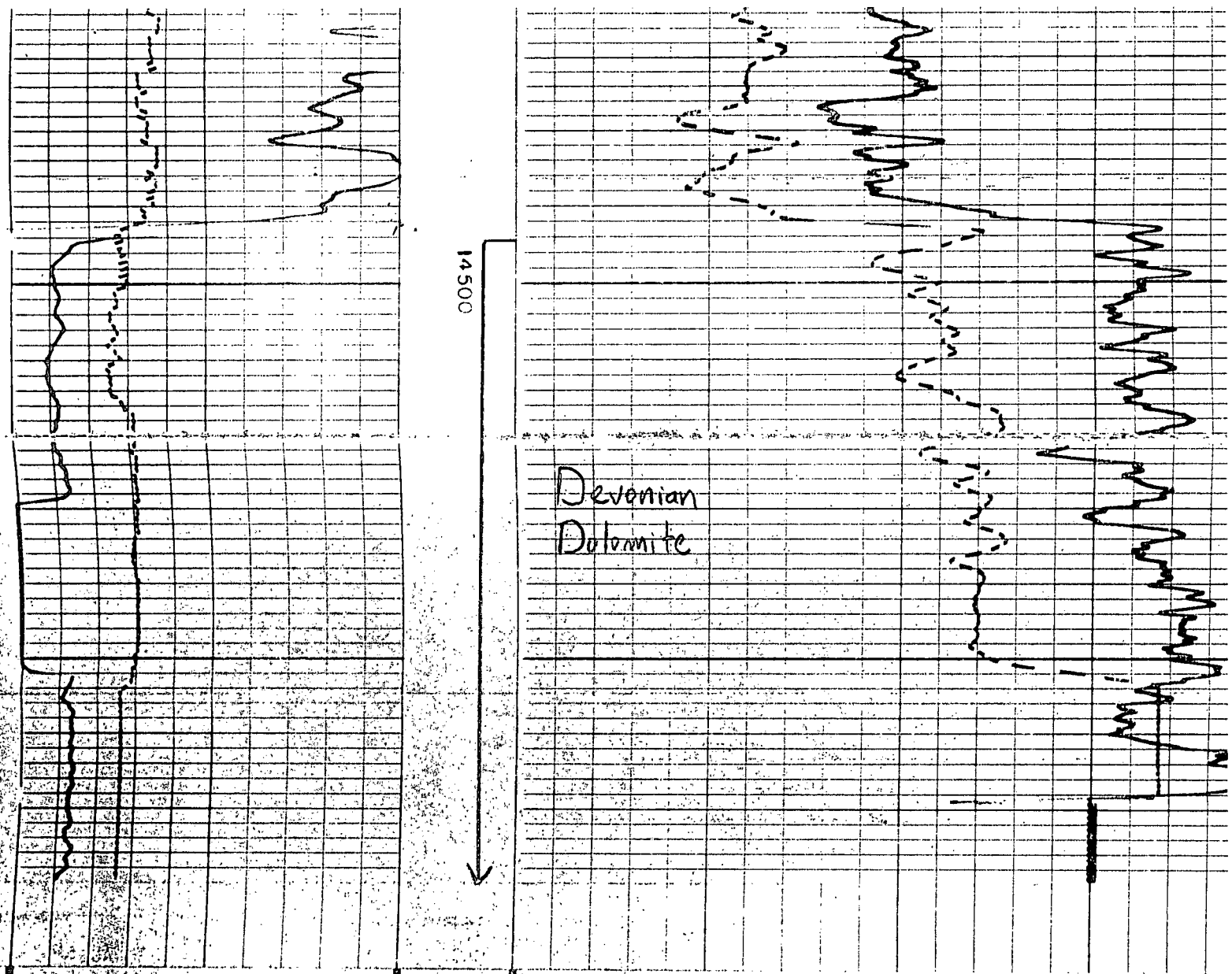
COMPANY JAKE L. HAMON  
 WELL STATE LG-1175 #1  
 FIELD WILDCAT  
 COUNTY EDDY STATE NEW MEXICO  
 LOCATION 1980' FNL, & 1980' FEL  
 API SERIAL NO 42233 SEC 16 TWP 26-S RANGE 28-E  
 D.L.L.

Permanent Datum: G.L.  
 Log Measured From K.B.  
 Drilling Measured From K.B.  
 Elev. 3024  
 Elev. K.B. 3024  
 D.F. 3024  
 G.L. 3024

Run No.	1-31-75	4-29-75	PROPERTY OF
Depth - Surface	9140	14512	ROSWELL, N.M. 30201
Depth - Logger	9450	14554	
Shm. Log Interval	9449	14553	
Top Log Interval	SURF	9437	
Coring Driller	1338 @ 2435	9 5/8 @ 9440	@
Coring Logger	2440	9437	
Bit Size	12 1/4	8 1/2	
Type of Mud	FRESH WATER	SATURATED	
Depth - Visc	0.6	27	1.62
Depth - Sp. Gr.	1.0	1.0	1.0
Depth - Mud Temp	1.54 @ 56 F	1.0 @ 56 F	@
Depth - Mud Temp	1.54 @ 56 F	1.0 @ 56 F	@
Depth - Mud Temp	1.54 @ 56 F	1.0 @ 56 F	@
Source: Rm/Rmc	M	-	-
Rm @ BHT	06 @ 140 F	015 @ 200 F	@
Circulation Stopped	0100	0800	
Logger on Bottom	0700	1300	
Max. Rec. Temp.	140	200	F
Equip. location	7645 HOBBS	7732 HOBBS	
Recorded By	JACKSON	MYERS	

OLD HERE The well name, location and borehole reference data were furnished by the customer.

UN NO.	ONE	TWO			SCALE CHANGES			
Service Order No.	1545	-			Type Log	Depth	Scale Up Hole	Scale
Fluid Level	FULL	-						
Fluidity, PPM CL.	36000	SATURATED						
Speed - F.P.M.	30	30						
EQUIPMENT DATA								
Trans. Panel	E H-652	380						
Trans. Cart.	A-154	426						
Trans. Skid.	D-1096	532						
Trans. Sonde	EC-489	488						
Trans. Source	B-2815	2510			REMARKS:			
Trans. Calibrator	630	695						
Trans. Panel	A-252	252						
Trans. Cart.	A-301	131						
Trans. Source	F-373	187						
Trans. Calibrator	AB-293	339						
Trans. Cart.	K-43	79						
Trans. Memorizer Panel	B-573	573						
Trans. Recorder (TTR)	-	-						
Trans. Depth Encoder (DRE)	-	-						
Trans. Pressure Wheel (CPW)	-	-						
Trans. Centralizers:	Type	DECENTRALIZING BOWSPRING (RUN 1 & 2)						
Trans. Water Spring,	No.	-	-					
Trans. Standoffs,	S. O. — Inches	-	-					
Trans. Line, or None	-	-	-					
CALIBRATION DATA								
BKG. CPS	70	60						
5 — CPS	51.2	50.0						



# **XI.**

## **Fresh Water Sample Analyses**



Record Count: 5

## POD Basin: Carlsbad

Section(s): 8, 9, 10, 15, 16, 17, 20, 21, 22 Township: 26S Range: 28E

Sorted by: File Number

None Within 1 Mile

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.



**marbob**  
energy corporation

*E-mailed 09/04/09*

August 11, 2009

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

Re: Legal Notice  
Water Disposal Well

Gentlemen:

Enclosed are 5 legal notices 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 SRO 16 SWD #1, is located 1980' FNL 1980' FEL, Sec. 16, Township 26 South, Range 28 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Devonian formation at a depth of 14525-15100' at a maximum surface pressure of 2905 psi and a maximum rate of 20,000 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  
\_\_\_\_\_, 2009.



August 11, 2009

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

Re: Application to Inject  
SRO 16 SWD #1  
Township 26 South, Range 28 East, NMPM  
Section 16: 1980 FNL 1980 FEL, Unit G  
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:** Ross Duncan [rduncan@marbob.com]  
**Sent:** Wednesday, September 16, 2009 3:03 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: SWD application from Marbob: SRO 10 SWD #1 30-015-25864

William:

As for the SRO #16, YPC, Allar, and Marbob are under JOA in the Devonian. The SRO #17 is covered by the SRO State Exploratory Unit JOA, along with lands in the NE/4 of Section 19 whereas Marbob is Lessee of Record.

Please let me know if you have further questions.

Thanks,  
Ross

---

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Wednesday, September 16, 2009 2:41 PM  
**To:** Ross Duncan  
**Subject:** RE: SWD application from Marbob: SRO 10 SWD #1 30-015-25864

Ross:

Did you guys check out the other two submittals also (SRO 16 and SRO 17)?

One is a Devonian injection interval – does Marbob have all the Devonian minerals within ½ mile of this well?

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

---

**From:** Ross Duncan [mailto:rduncan@marbob.com]  
**Sent:** Wednesday, September 16, 2009 1:53 PM  
**To:** Jones, William V., EMNRD  
**Cc:** 'Brian Collins'  
**Subject:** FW: SWD application from Marbob: SRO 10 SWD #1 30-015-25864

William:

Please see below for information regarding your questions to Brian Collins on the SRO 10 SWD #1 and SRO 5 SWD #1:

SRO 10 SWD #1 – We have YPC under a Joint Operating Agreement, Marbob as Operator, covering the lands and depths in question.

SRO 5 SWD #1 – We have YPC and Legend (Legend purchased OGX) under a Joint Operating Agreement, Marbob as Operator, covering the lands and depths in question.

Please let me know if you need anything else.

Thanks,  
Marbob Energy Corporation

Ross Duncan

---

**From:** Brian Collins [mailto:bcollins@marbob.com]  
**Sent:** Wednesday, September 16, 2009 9:57 AM  
**To:** Ross Duncan  
**Subject:** Fw: SWD application from Marbob: SRO 10 SWD #1 30-015-25864

----- Original Message -----

**From:** Jones, William V., EMNRD  
**To:** Brian Collins  
**Cc:** Ezeanyim, Richard, EMNRD ; Reeves, Jacqueta, EMNRD  
**Sent:** Wednesday, September 16, 2009 9:05 AM  
**Subject:** SWD application from Marbob: SRO 10 SWD #1 30-015-25864

Hello Brian:

You must have found the logs for this one – I see a resis log on the web site.

Only a notice question for this one:

The ½ mile Midland map shows Yates as lessee within ½ mile of this well. Please ask your Landman and let me know if Marbob is now the lessee (or controls the minerals) in the Delaware in this well and in the surrounding ½ mile including all the old Yates acreage?

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

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---

This inbound email has been scanned by the MessageLabs Email Security System.

---

**Jones, William V., EMNRD**

---

**From:** Debora Wilbourn [geology@marbob.com]  
**Sent:** Wednesday, September 16, 2009 2:37 PM  
**To:** Jones, William V., EMNRD  
**Subject:** SRO 16 SWD #1  
**Attachments:** Proof of Notice.pdf

Proof of Notice

Will,

Is this method of sending the proofs of notice and the affidavits of publication OK with you? Or do you want me to send hard copies through the mail?

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

---

This inbound email has been scanned by the MessageLabs Email Security System.

---

**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)

**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

PS Form 3811, February 2004 DW Domestic Return Receipt SRD 16

102595-02-M-1540



**Jones, William V., EMNRD**

---

**From:** Debora Wilbourn [geology@marbob.com]  
**Sent:** Friday, September 25, 2009 2:54 PM  
**To:** Jones, William V., EMNRD  
**Subject:** SRO 16 SWD #1  
**Attachments:** Proof of Notice YPC.pdf

Proof of Notice

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

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**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:

**YATES PETROLEUM CORPORATION  
104 S 4TH ST  
ARTESIA NM 88210**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x *Melissa Stewart* ☐ Agent

B. Received by (Printed Name)

*MELISSA STEWART* ☐ Data of Delivery

D. Is delivery address different from Item 1?

If YES, enter delivery address below:

☐ Yes

☐ No

**SEP 25 2009**

3. Service Type

☒ Certified Mail

☐ Express Mail

☐ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service label)

**7006 0810 0000 8979 7459**

PS Form 3811, February 2004

*DW*

Domestic Return Receipt

*SRO 16*

102595-0

*Not required - See J.O.A. Statement.*

**Jones, William V., EMNRD**

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**From:** Debora Wilbourn [geology@marbob.com]  
**Sent:** Wednesday, September 16, 2009 11:05 AM  
**To:** Jones, William V., EMNRD  
**Subject:** SRO 16 SWD #1  
**Attachments:** Affidavit of Publication.pdf

Affidavit of Publication

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

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# Affidavit of Publication

NO.

20837

STATE OF NEW MEXICO

County of Eddy:

**GARY D. SCOTT**

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 county and state, and that the here to 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 week/days on the same

day as follows:

First Publication September 9, 2009

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

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

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

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

Subscribed and sworn to before me this

9 Day

September

2009



OFFICIAL SEAL  
Jo Morgan  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 2/6/2012

*Jo Morgan*

Notary Public, Eddy County, New Mexico

## Copy of Publication:

**IE**  
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 SRO 16 SWD #1, is located 1980' FNL 1980' FEL, Sec. 16, Township 26 South, Range 28 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Devonian formation at a depth of 14525-15100' at a maximum surface pressure of 2905 psi and a maximum rate of 20,000 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, NM September 9, 2009. Legal No. 20837

RECEIVED

Jake L. Hamon  
State LG-1175 No. 1  
1980 FNL & 1980 FEL Sec. 16, T-26-S, R-28-E  
Eddy County, New Mexico

JUL 18 1975

O. C. C.  
ARTEZIA, OFFICE

DST No. 1

Tested Atoka from 12,090' to 12,249', 3/8" bottom x 1" top choke, 5000' W.C. 1 hr test. Had very weak blow for 1 hr test. Recovered 4,775' gas cut W.C. and 585' gas cut mud. 1 hr ISIP 5184#, IFP 2564#, FFP 2620#, 1 hr FSIP 3482# and BHT 195° F.

DST No. 2

Tested Devonian from 14,522' to 14,572', 3/4" bottom x 1" top choke, 6000' W.C., 2 hr test. Had good blow for 2 hr test. No gas to surface. Recovered 6000' W.C., 300' of water cut drilling mud and 3500' of formation (sulphur) water. 1 hr ISIP 6334#, IFP 3092#, FFP 4457#, 2 hr FSIP 6334#, and BHT 220° F.

Swab test Bone Springs perf from 7629' to 7700'. Swabbed tubing dry, well making a slight blow of gas, TSTM. Well making trace of light green oil. Did not recover all of acid water.

Swab test Bone Springs perf from 7030' to 7076'. Swabbed back acid water and swabbed tubing from bottom. Swabbed 30 bbls of water and approximately 1/4 bbl of oil in 3 hrs. Abandoned Bone Springs as non productive.

# Injection Permit Checklist (8/14/09)

Case \_\_\_\_\_ R- \_\_\_\_\_ SWD 1175 WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 9/29/09 UIC Qtr (JAS)  
 # Wells 1 Well Name: SKO 16 SWD #1 (was State LG 1175 #1)  
 API Num: (30-) 015-21398 Spud Date: 12/17/14 New/Old: 0 (UIC primacy March 7, 1982)  
 Footages 1980 FNL / 1980 FEL Unit 9 Sec 16 Tsp 26S Rge 28E County Eddy  
 Operator: Marbel Energy Corp. Contact Brian Collins  
 OGRID: \_\_\_\_\_ RULE 5.9 Compliance (Wells) OK (Finan Assur) OK

Operator Address: \_\_\_\_\_

Current Status of Well: PEA, Dry Hole

Planned Work to Well: Deepen To ~ 15,100 install 9 5/8 To Surf; Run 7 1/2" CMT.

Planned Tubing Size/Depth: 3 1/2" or 4 1/2" @ 14,475

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	<u>17 1/2 13 3/8</u>	<u>2434</u>	<u>2650</u>	<u>620 T.S.; 1" to surface</u>
Existing <input checked="" type="checkbox"/> Intermediate	<u>12 1/4 9 5/8</u>	<u>5933-9441</u>	<u>1300</u>	<u>6408 T.S.</u>
Existing <input checked="" type="checkbox"/> Long String	<u>8 1/2</u>			

DV Tool \_\_\_\_\_ Liner \_\_\_\_\_ Open Hole Planned 24" Total Depth Planned @ 15,100'

Well File Reviewed ☒

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

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)			
Injection..... Interval TOP:	<u>14525</u>	<u>Dev</u>	
Injection..... Interval BOTTOM:	<u>15,100</u>	<u>Dev</u>	
Below (Name and Top)			

2905 PSI Max. WHIP  
☒ Open Hole (Y/N)  
 \_\_\_\_\_ Deviated Hole?

**Sensitive Areas:** Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths \_\_\_\_\_

.... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

**Fresh Water:** Depths: 0-500' Wells None Analysis? \_\_\_\_\_ Affirmative Statement ☒

**Disposal Fluid Sources:** Del/BK Analysis? \_\_\_\_\_

**Disposal Interval** Production Potential/Testing/Analysis Analysis: \_\_\_\_\_

**Notice:** Newspaper(Y/N) ☒ Surface Owner SLO Mineral Owner(s) \_\_\_\_\_

RULE 26.7(A) Affected Parties: allan/yrc/marbel in J.O.A.

**Area of Review:** Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 0 Num Repairs \_\_\_\_\_ Producing in Injection Interval in AOR \_\_\_\_\_

..P&A Wells 0 Num Repairs \_\_\_\_\_ All Wellbore Diagrams Included? \_\_\_\_\_

**Questions to be Answered:**

**Required Work on This Well:** \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

**AOR Repairs Needed:** \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

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