

ABOVE THIS LINE FOR DIVISION USE ONLY

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



**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.**

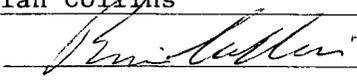
[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications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

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

Print or Type Name \_\_\_\_\_ Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ e-mail Address \_\_\_\_\_

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  \_\_\_\_\_ Disposal \_\_\_\_\_ Storage \_\_\_\_\_  
Application qualifies for administrative approval 2007 APR 2X AM 11:45  Yes  No
- II. OPERATOR: MARBOB ENERGY CORPORATION  
ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227  
CONTACT PARTY: Brian Collins PHONE: 505-748-3303
- 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  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: Engineer  
SIGNATURE:  DATE: 29 March 07  
E-MAIL ADDRESS: engineering@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  
SWD 4-22-27 No. 1  
(Compadres Fee No. 2)  
2310' FNL 1060' FEL  
H-4-22S-27E, Eddy County

Marbob Energy Corporation proposes to recomplete the captioned well and convert it to salt water disposal service into the Delaware Sand. Marbob proposes to isolate the existing Delaware zones 4164-5193' with a CIBP + 35' cement set at 4125'. The existing zones are uneconomic due to high water production (4 bopd/250 bwpd). We propose to perforate, acidize and frac selected high porosity sands within the gross Delaware Sand interval 2570-3170' for SWD service.

- V. Map is attached.
- VI. Wellbore schematics are attached for all the wells that penetrate the proposed injection zone within the 1/2 mile radius area of review.
- VII.
  - 1. Proposed average daily injection rate = 1000 BWPD  
Proposed maximum daily injection rate = 3000 BWPD
  - 2. Closed system
  - 3. Proposed maximum injection pressure = 514 psi  
(0.2 psi/ft. x 2570 ft.)
  - 4. Source of injected water will be Delaware Sand produced water. The Delaware produced water is the same as the Delaware water in the receiving formation. No compatibility problems are expected. An analysis of Delaware water from an analogous well is attached.
  - 5. Disposal zone formation water is essentially the same as the injection water.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 2570' to 3170'. Any underground water sources will be shallower than 420'.
- IX. The Delaware sand injection interval will be acidized with 7 1/2% HCl acid. If necessary, the Delaware injection interval may be fraced with up to 300,000 lbs. of 16/30 mesh sand.
- X. Well logs have been filed with the Division.
- XI. There are four fresh water wells within one mile of the proposed SWD well (from Office of the State Engineer website). A visit with the land owner indicated that

there is only one active fresh water well within one mile of the proposed SWD well. A water analysis is attached for the fresh water well located in the SE/4SE/4SE/4, Section 4, T22S-R27E.

- 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 Corp.

WELL NAME & NUMBER: SWD 4-22-27 No. 1 (Formerly Compadres Fee No. 2)

WELL LOCATION: 2310' FNL 1060' FEL      UNIT LETTER: H      SECTION: 4      TOWNSHIP: 22s      RANGE: 27e

FOOTAGE LOCATION

WELLBORE SCHEMATIC

See attached schematics

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4"      Casing Size: 8 5/8" @ 423'

Cemented with: 375      sx.      or      ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated

Intermediate Casing

Hole Size: \_\_\_\_\_      Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_      sx.      or      ft<sup>3</sup>

Top of Cement: \_\_\_\_\_      Method Determined: \_\_\_\_\_

Production Casing

Hole Size: 7 7/8"      Casing Size: 5 1/2" @ 5334'

Cemented with: 1150      sx.      or      ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated

Total Depth: \_\_\_\_\_

Injection Interval

2570'      feet to      3170'

(Perforated) or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" Lining Material: Plastic or Dupline ZO  
 Type of Packer: Nickel plated or stainless steel 10K retrievable double grip  
 Packer Setting Depth: ±2525'  
 Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

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

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

2. Name of the Injection Formation: Delaware Sand

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

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. 5/88-93', 4810-18', 4164-4214' (will set CIBP +35' cement ±4125' when convert to SWD)

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

Overlying: None  
Underlying: Delaware 3250'±, Marrow 1100'±

Well: Compadres Fee Z

Zero: 14' AGL

KB: 3114'

GL: 3100'

Location: 2310' FNL 1060' FEL

H-4-229-270

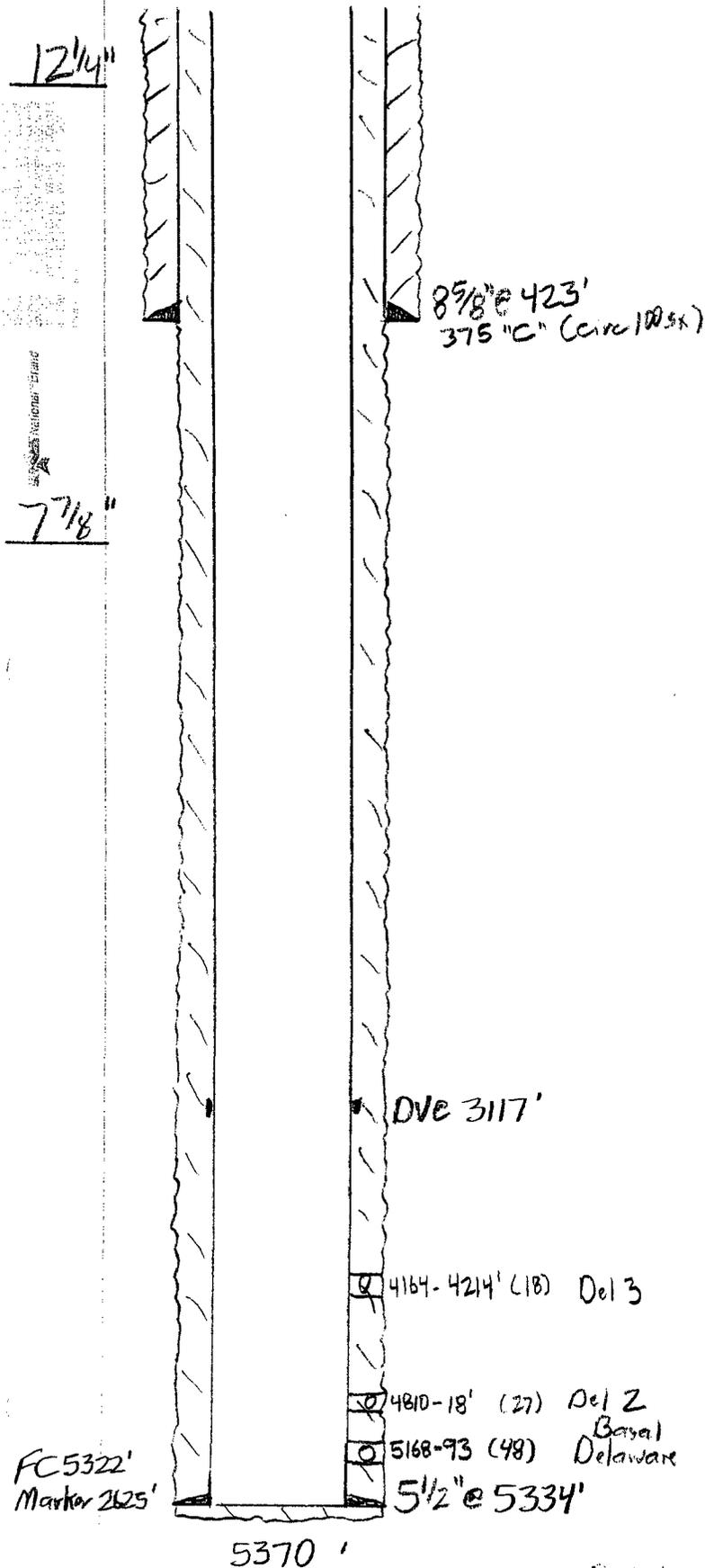
Eddy NM

30-015-34935

Casing Program:

Size	Wt.	Grade	Conn	Depth
8 5/8"	24	J55	STC	423'
5 1/2"	17	J55	LTC	5334'
2 7/8"	6.5	J55	EVE	

@ 1953' MD (1948' TVD) 2294' FNL, 943' FEL



Before Conversion

1st: 450 Super H (circ 204 sx)

2nd: 500 HLC + 200 "C" (circ 173 sx)

Well: SWD 4-22-27 No. 1

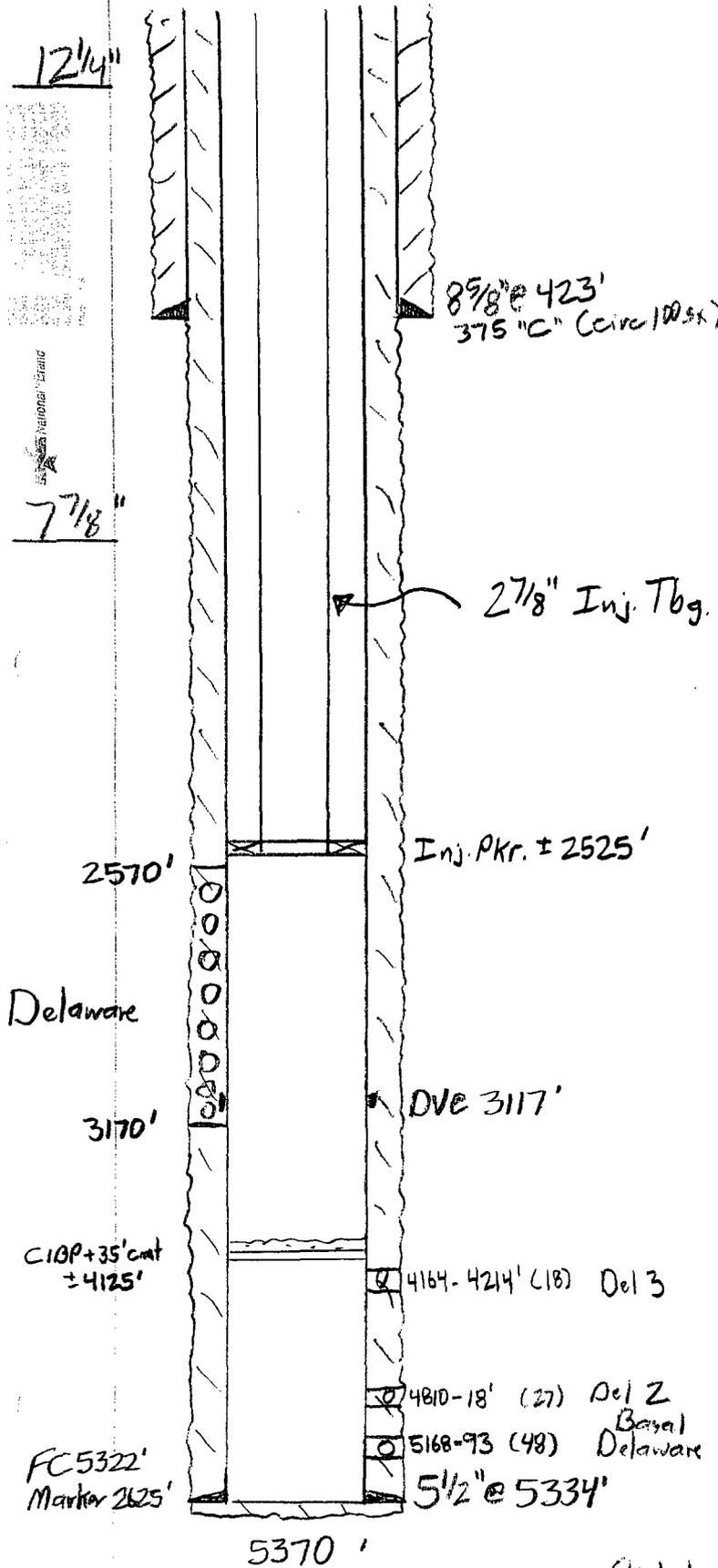
Location: 2310' FNL 1060' FEL  
H-4-229-27e  
Eddy NM  
30-015-34935

Zero: 14' AGL  
 KB: 3114'  
 GL: 3100'

Casing Program:

Size	Wt.	Grade	Conn	Depth
8 5/8"	24	JSS	SE	423'
5 1/2"	17	JSS	LTC	5334'
2 7/8"	6.5	JSS	EVE	

@ 1953' MD (1948' TVD) 2294' FNL, 943' FEL

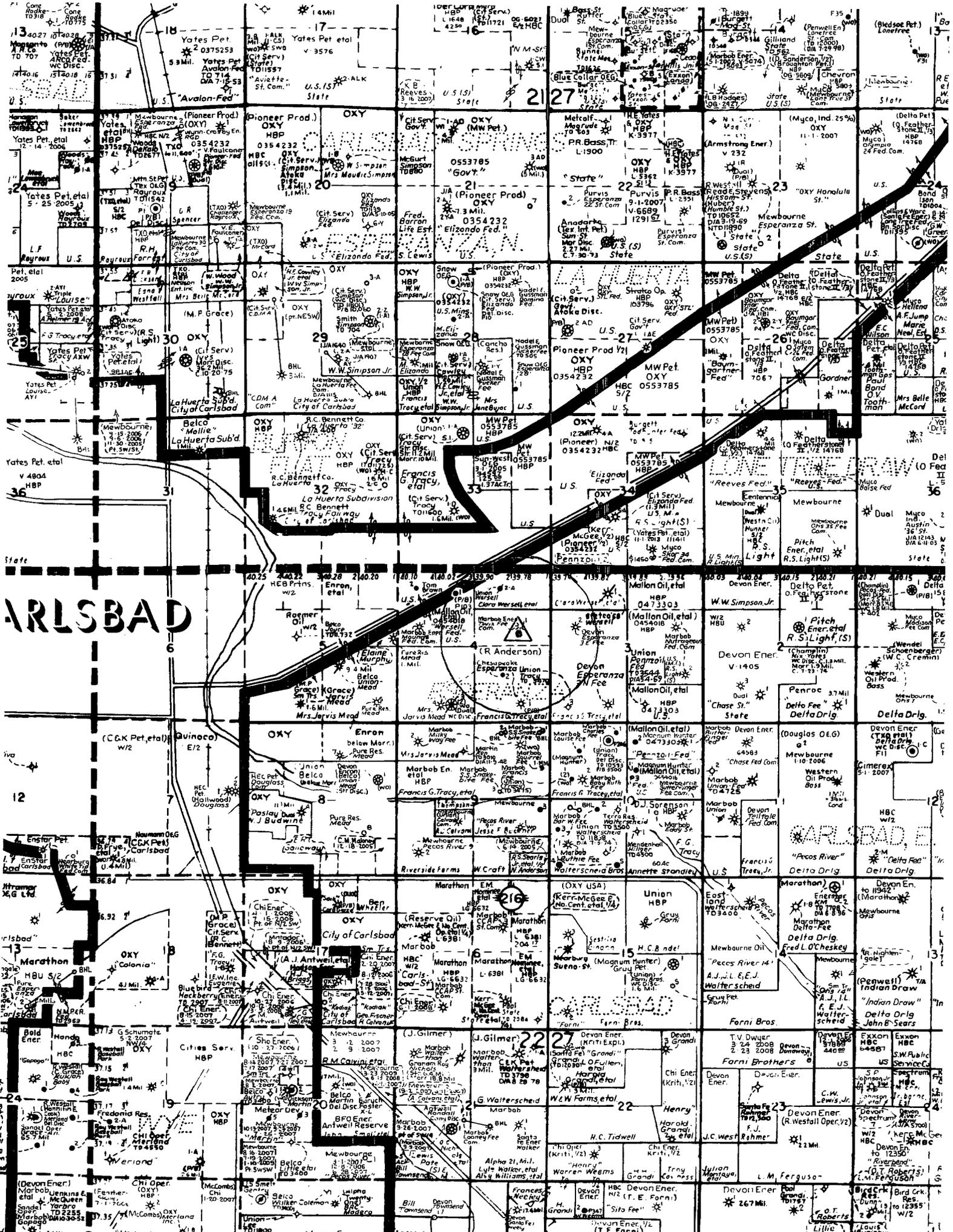


After Conversion

1st: 450 Super H (circ 284 sx)  
 2nd: 500 HLC + 200 'C' (circ 173 sx)

**V.**

**MAP**



# CARLSBAD

# CARLSBAD, E

Map showing oil and gas lease blocks, well locations, and ownership details. The map includes a grid with section numbers (e.g., 13, 17, 21, 25, 29, 33, 37) and township/range coordinates. Major roads like State Route 56 and Interstate 5 are visible. The map is densely packed with text labels for lease owners, well names, and acreage. A prominent diagonal road or boundary line runs from the upper right towards the center. The word 'CARLSBAD' is printed in large, bold letters across the middle of the map.

# **VI.**

**Wells Within 1/2  
Mile Area of  
Review That  
Penetrate  
Proposed  
Disposal Zone**

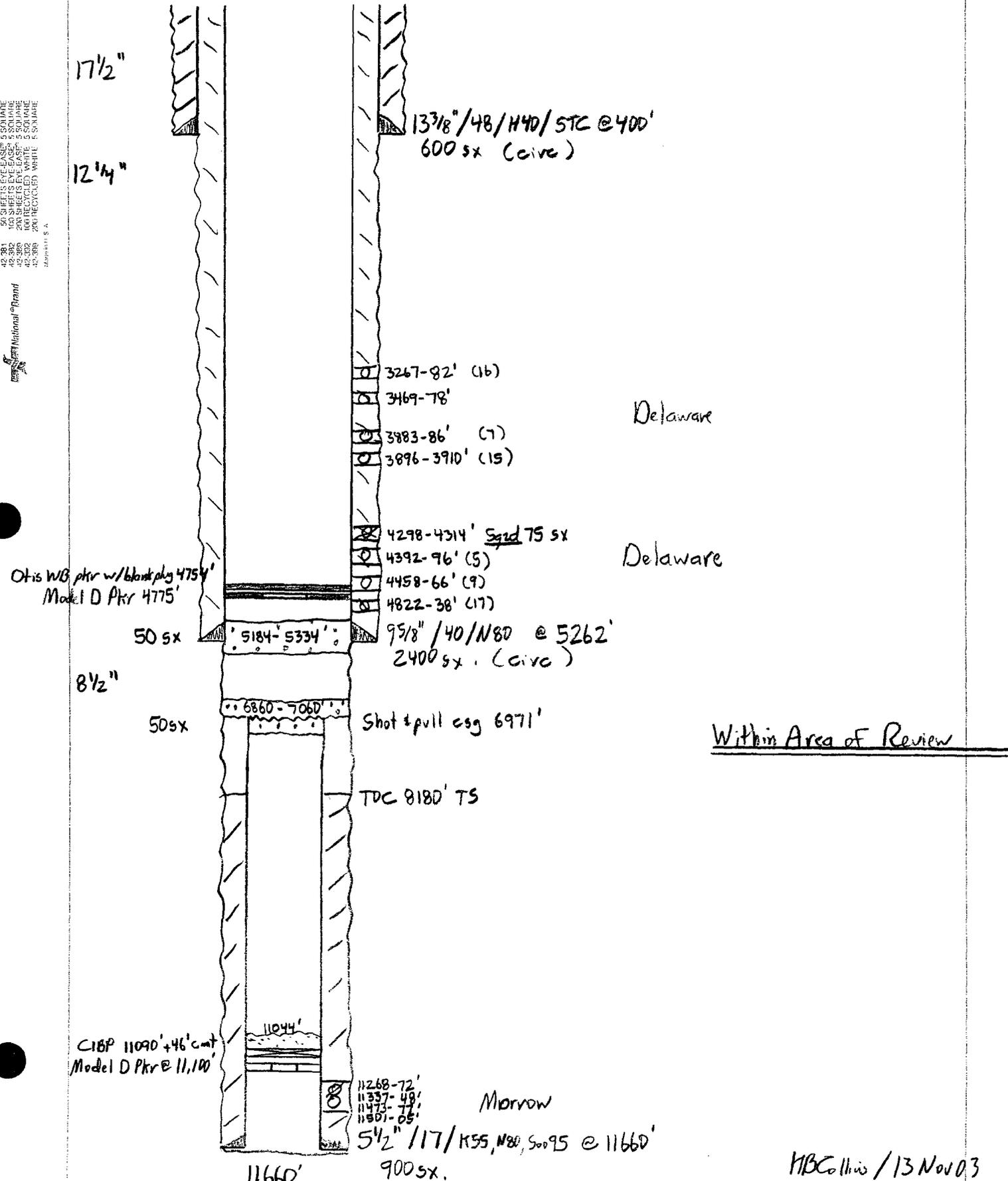


# Wersell Federal 1

810' FNL, 1980' FWL  
 C-4-225-27e  
 Eddy, NM

Zero: 17.4' AGL

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Within Area of Review

HBC Collins / 13 Nov 03







Well: Esperanza 2

Zero: \_\_\_\_\_

KB: \_\_\_\_\_

GL: 3097'

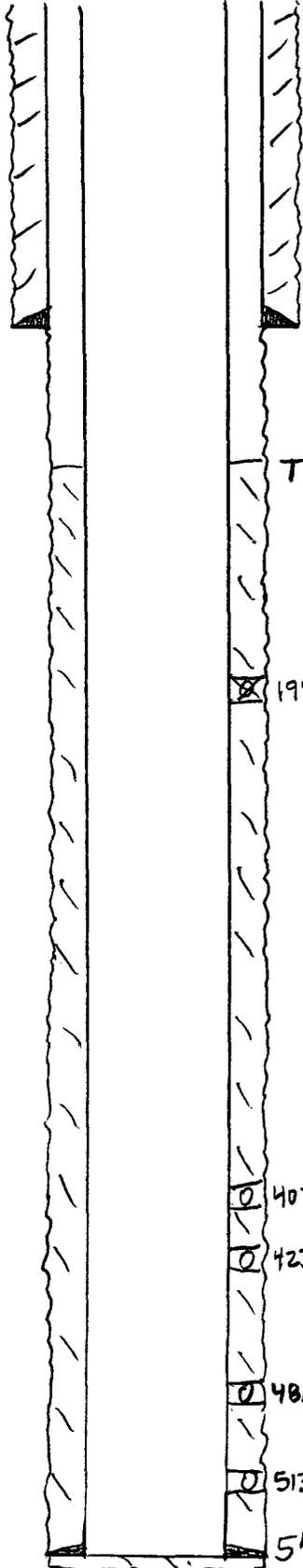
Location: 1650' FSL, 1650' FEL  
J-4-229-27e  
Eddy NM  
30-015-30742

Casing Program:

Size	Wt.	Grade	Conn.	Depth

12 1/4"

7 7/8"



8 5/8" / 24 / J55 / STC @ 400'  
150" C" (circ 589x)

TOC 1280' CBL

1998-2044' Sqrd 102 sx "C"

4036-67'

4231-40'

4818-54'

5130-53'

5 1/2" / 17 / J55 / LTC @ 5311' 755 sx "C"

5311'

Delaware

- Sketch Not To Scale -

KAR-11-21-1

15,710 140 SHEETS, FILER, 5 SQUARE  
 42,381 50 SHEETS, FIVE EASE, 5 SQUARE  
 42,382 170 SHEETS, FIVE EASE, 5 SQUARE  
 42,383 100 SHEETS, FIVE EASE, 5 SQUARE  
 42,384 100 RECYCLED WHITE, 5 SQUARE  
 42,385 100 RECYCLED WHITE, 5 SQUARE  
 MADE IN U.S.A.



Well: Esperanza 4-5

Zero: \_\_\_\_\_

Location: 553' FGL, 1650' FEL

KB: \_\_\_\_\_

0-4-226-276

GL: 3124'

Eddy NM

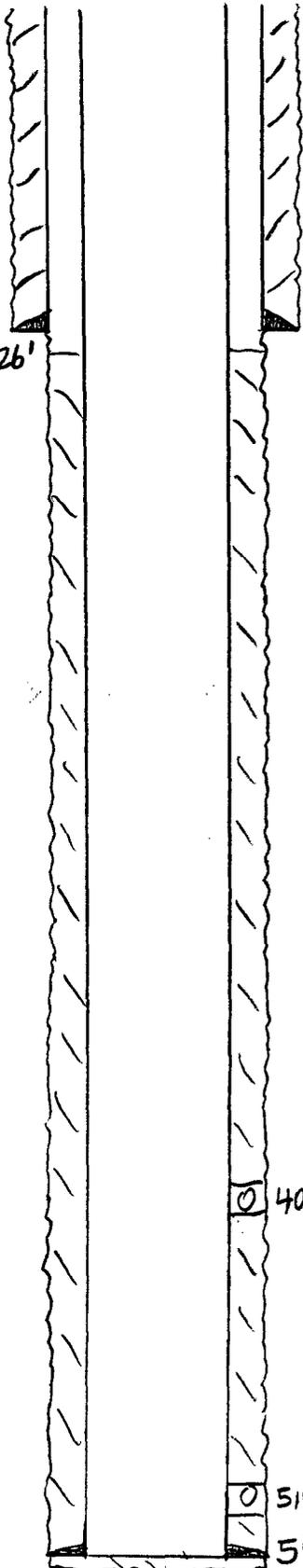
30-015-34938

Casing Program:

Size	Wt.	Grade	Conn.	Depth

13 782  
42 381  
44 382  
42 383  
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42 386  
42 387  
42 388  
42 389  
42 390  
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TOC 526'  
7 7/8"



8 5/8" / 24 @ 408'  
200 "C" (Circ)

4022-4162'

5159-5224'

5 1/2" / 15.5 @ 5325' 1125 by 50150 P02 C

5325'

Delaware

- Sketch Not To Scale -

KAR... /





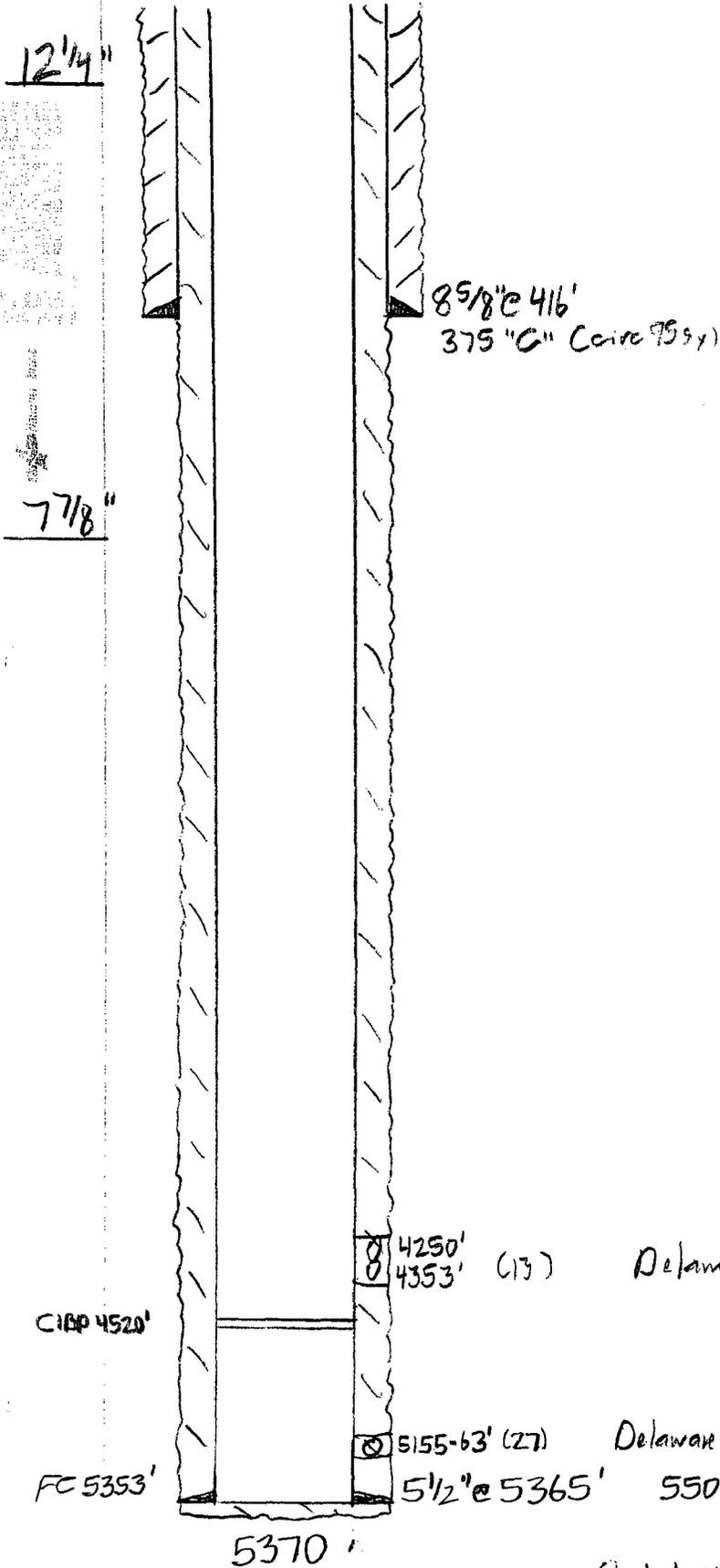
Well: Compadres Fee 1

Location: 2310' FNL 2310' FEL  
G-4-22g-27e  
Eddy NM  
30-DIS-34934

Zero: 14' AGL  
 KB: 3142'  
 GL: 3128'

Casing Program:

Size	Wt.	Grade	Conn	Depth
8 5/8"	24	J55	STC	416'
5 1/2"	17	J55	LTC	5365'
2 7/8"	6.5	J55	EVE	



# VII.

## **DELAWARE SAND WATER ANALYSIS**

# Water Analysis

Analytical  
Laboratory Report  
for:

Delaware Sand



Chemical Services

Marbob Energy

Produced/Inj Zone

UNICHEM Representative: Bill Polk

## Production Water Analysis

Listed below please find water analysis report from: Francis Fee, #1

Sec. 10-229-27e

Lab Test No: 2003148714      Sample Date: 11/25/2003  
Specific Gravity: 1.157  
TDS: 241213  
pH: 6.20

Cations:	mg/L	as:
Calcium	23807	(Ca <sup>++</sup> )
Magnesium	3769	(Mg <sup>++</sup> )
Sodium	70309	(Na <sup>+</sup> )
Iron	62.00	(Fe <sup>++</sup> )
Barium	0.79	(Ba <sup>++</sup> )
Strontium	588.00	(Sr <sup>++</sup> )
Manganese	5.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	122	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	650	(SO <sub>4</sub> <sup>=</sup> )
Chloride	141900	(Cl)
Gases:		
Carbon Dioxide	160	(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

**X.**

**LOG SECTION**

**Across Proposed  
Disposal Interval**

*Engnr Work*

# HALLIBURTON

**SPECIAL-DENSITY  
DUAL-SPACED-NEUTRON**

COMPANY MARBOB ENERGY CORPORATION  
 WELL COMPADRES FEE No. 2  
 FIELD ESPERANZA, DELAWARE  
 COUNTY EDDY STATE NM

COMPANY MARBOB ENERGY CORPORATION  
 WELL COMPADRES FEE No. 2  
 FIELD ESPERANZA, DELAWARE  
 COUNTY EDDY STATE NM  
 API No. 30-015-34935  
 Location 2310' FNL AND 1060' FEL  
 Sect 4 Twp 22S Rge 27E  
 Other Services DLLT/MGRD

Permanent Datum GROUND LEVEL Elev. 3100  
 Log measured from K.B. 14 above perm. datum  
 Drilling measured from KELLY BUSHING Elev. K.B. 3114  
 D.F. 3113  
 G.L. 3100

Date	2-AUG-2006		
Run No.	ONE		
Depth - Driller	5370		
Depth - Logger	5364		
Bottom - Logged Interval	5315		
Top - Logged Interval	200		
Casing - Driller	8.625" @ 420	@	@
Casing - Logger	419		
Bit Size	7.875"		
Type Fluid in Hole	BRINE		
Dens.   Visc.	10   29		
Ph   Fluid Loss	10   N/A		
Source of Sample	MUD PIT		
Rm @ Meas. Temp.	0.059 @ 78 F	@	@
Rmf @ Meas. Temp.	0.059 @ 78 F	@	@
Rmc @ Meas. Temp.	N/A @ N/A	@	@
Source Rmf   Rmc	MEAS.   N/A		
Rm @ BHT	0.044 @ 107 F	@	@
Time Since Circ.	12:00 8-2		
Time on Bottom	17:15 8-2		
Max. Rec. Temp.	107 F @ TD	@	@
Equip.   Location	582   HOBBS		
Recorded By	K. ANUSKEWICZ		
Witnessed By	MR. JOYCE		

Fold Here

Service Ticket No.: 4543938 API Serial No.: 30-015-34935 PGM Version: XL v5.8

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES				RESISTIVITY SCALE CHANGES			
Date   Sample No.				Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth - Driller							
Type Fluid							
in Hole							
Dens.   Visc.							
Ph   Fluid Loss							
Source of Sample							
				RESISTIVITY EQUIPMENT DATA			
Rm @ Meas. Temp.				Run No.	Tool Type & No.	Pad Type	Tool Pos.
Rmf @ Meas. Temp.	0.059 @ 78 F	@	@				
Rmc @ Meas. Temp.	0.059 @ 78 F	@	@				
Source Rmf   Rmc	N/A @ N/A	@	@				
Source Rmf   Rmc	CALC.   N/A						
Rm @ BHT	0.044 @ 107 F	@	@				
Rmf @ BHT	0.044 @ 107 F	@	@				
Rmc @ BHT	N/A @ N/A	@	@				

EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	108590YL	Serial No.		Serial No.	AD44YL	Serial No.	A041YL
Model No.	NGRT	Model No.		Model No.	SDL_DA	Model No.	DSN_II
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	T102-A	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT.			Source Type	Cs 137	Source Type	Am241Be
Length	4"	LSA [Y/N]		Serial No.	2549GW	Serial No.	DSN-90

Gross Delaware Sand Wtr. Disposal Inte

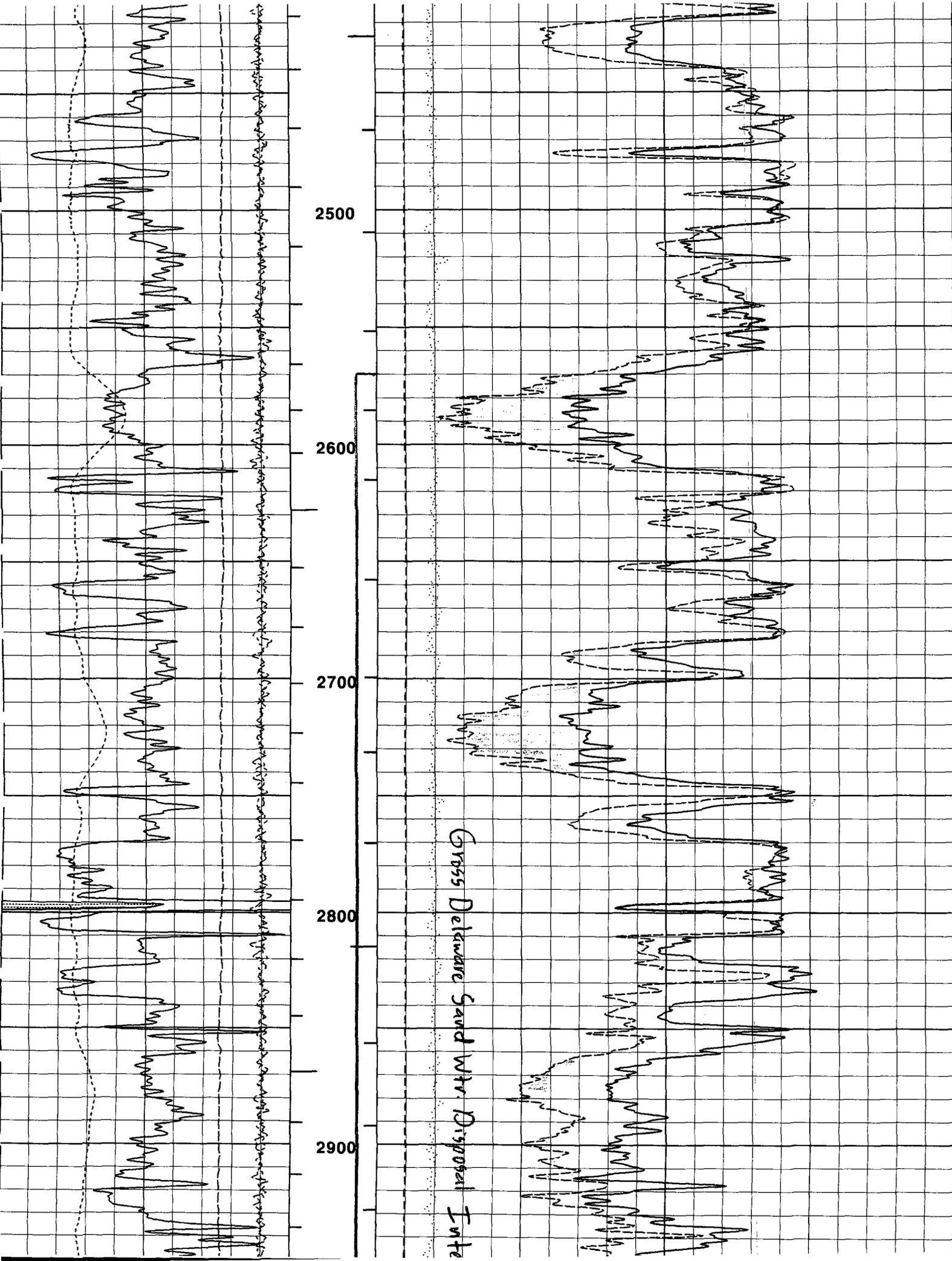
2500

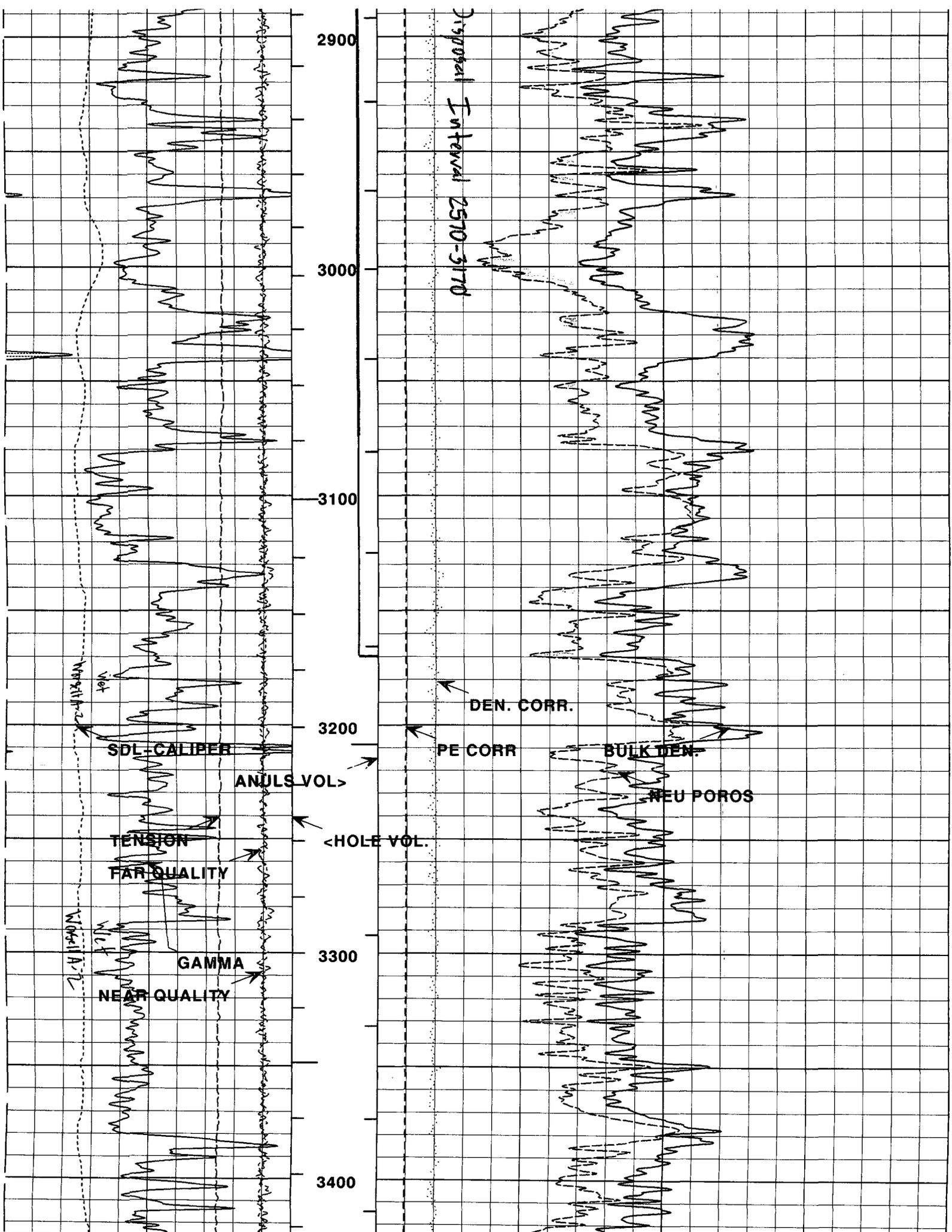
2600

2700

2800

2900





**XI.**

**FRESH WATER  
WELL ANALYSIS**

Fresh Water  
 Analysis From  
 Pond & Well ± 0.75 mi  
 South of Proposed SWD

# HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY  
 WATER ANALYSIS REPORT  
 HOBBS, NEW MEXICO

COMPANY Marbob  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REPORT W03-225  
 DATE November 17, 2003  
 DISTRICT Artesia

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

WELL @ Pond P-4-22-27 DEPTH \_\_\_\_\_ FORMATION \_\_\_\_\_  
 COUNTY P-4-225-27e FIELD \_\_\_\_\_ SOURCE \_\_\_\_\_

SAMPLE	<u>11/14/2003</u>	_____	_____	_____
Sample Temp.	<u>67.1</u> °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	<u>1.568</u>	_____	_____	_____
SPECIFIC GR.	<u>1.003</u>	_____	_____	_____
pH	<u>7.10</u>	_____	_____	_____
CALCIUM	<u>1,000</u> mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>600</u> mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	<u>1,526</u> mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<u>Heavy</u> mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	<u>153</u> mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	<u>0</u> mpl	_____ mpl	_____ mpl	_____ mpl
KCL	<u>Neg</u>	_____	_____	_____
Sodium	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
TDS	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
OIL GRAVITY	<u>@</u> °F	<u>@</u> °F	<u>@</u> °F	<u>@</u> °F

REMARKS  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

MPL = Milligrams per litter  
 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: J. Thornton



---

**marbob**  
energy corporation

---

March 23, 2007

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

Re: Legal Notice  
Water Injection Well

Gentlemen:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a water injection 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 SWD 4-22-27 No. 1 is located 2310' FNL and 1060' FEL, Section 4, Township 22 South, Range 27 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware formation. The disposal water will be injected into the Delaware formation at a depth of 2570' to 3170' at a maximum surface pressure of 514 psi and a maximum rate of 3000 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 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico  
\_\_\_\_\_, 2007.

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

SE MYCO INDUSTRIES INC  
 PO BOX 840  
 ARTESIA NM 86211-0840  
 DW SWD 4-22-27 #1  
 PS Form 3800, June 2002

7004 0550 0000 7457 9001  
7004 0550 0000 7457 9001

**CERTIFIED MAIL**  
PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

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

ABO PETROLEUM CORPORATION  
 105 S 4TH ST  
 ARTESIA NM 88210  
 DW SWD 4-22-27 #1  
 PS Form 3800, June 2002

7004 0550 0000 7457 8998  
7004 0550 0000 7457 8998

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7004 0550 0000 7457 9001

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

**BP AMERICA PRODUCTION COMPANY**  
**P O BOX 3092**  
**HOUSTON TX 77253-3092**  
 DW SWD 4-22-27 #1  
 PS Form 3800, June 2002

7004 0550 0000 7457 8998  
7004 0550 0000 7457 8998

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

**YATES DRILLING COMPANY**  
**105 S 4TH ST**  
**ARTESIA NM 88210**  
 DW SWD 4-22-27 #1  
 PS Form 3800, June 2002

7004 0550 0000 7457 8981  
7004 0550 0000 7457 8981

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

**RUBICON OIL & GAS LP**  
**400 W ILLINOIS STE 1130**  
**MIDLAND TX 79701**  
 DW SWD 4-22-27 #1

Here

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

0 0550 4002  
0 0550 4002

**RKC INC**  
7029 E BRIARWOOD CIR  
ENGLEWOOD CO 80112  
City, State, ZIP+4  
DW SWD 4-22-27\*1  
PS Form 3800, June 2002 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

**CERTIFIED MAIL**

Here

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

1 0550 4002  
1 0550 4002

**RUSSELL ROYALTY COMPANY**  
P O BOX 2018  
TYLER TX 75710  
City, State, ZIP+4  
DW SWD 4-22-27\*1  
PS Form 3800, June 2002 See Reverse for Instructions

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

Sent To  
Street, or PO Box  
City, State, ZIP+4  
DW SWD 4-22-27\*1

7004 0550 0000 7457 8950  
7004 0550 0000 7457 8950

PS Form 3800, June 2002 See Reverse for Instructions

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**OFFICIAL USE**

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

Sent To  
Street, or PO Box  
City, State, ZIP+4  
DW SWD 4-22-27\*1

7004 0550 0000 7457 8929  
7004 0550 0000 7457 8929

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**OFFICIAL USE**

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

Sent To  
Street, or PO Box  
City, State, ZIP+4  
DW SWD 4-22-27\*1

7004 0550 0000 7457 8943  
7004 0550 0000 7457 8943

PS Form 3800, June 2002 See Reverse for Instructions

Return Receipt Fee (Endorsement Required) 000 0550 4002  
 Restricted Delivery Fee (Endorsement Required) 000 0550 000  
 Total Postage & Fees \$ 2004 0550 000

OXY USA WTP LIMITED PARTNERS  
 P O BOX 4294  
 HOUSTON TX 77210-4294  
 City, State, Zip+4 DW SWD 4-22-27 #1

Return Receipt Fee (Endorsement Required) 000 0550 4002  
 Restricted Delivery Fee (Endorsement Required) 000 0550 000  
 Total Postage & Fees \$ 2004 0550 000

**CERTIFIED**  
 PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

Return Receipt Fee (Endorsement Required) 0 0550 4002  
 Restricted Delivery Fee (Endorsement Required) 0 0550 000  
 Total Postage & Fees \$ 2004 0550 4002

RAY WESTALL  
 P O BOX 4  
 LOCO HILLS NM 88255  
 DW SWD 4-22-27 #1  
 PS Form 3800, June 2002 See Reverse for Instruction

Return Receipt Fee (Endorsement Required) 0 0550 4002  
 Restricted Delivery Fee (Endorsement Required) 0 0550 000  
 Total Postage & Fees \$ 2004 0550 4002

**CERTIFIED**  
 PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
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 7004 0550 0000 7457 8899

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

DEVON ENERGY PRODUCTION COMPANY  
 20 N BROADWAY STE 1500  
 OKLAHOMA CITY OK 73102-8260  
 DW SWD 4-22-27 #1

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To  
 CHESAPEAKE OPERATING INC  
 P O BOX 18496  
 OKLAHOMA CITY OK 73154  
 DW SWD 4-22-27 #1

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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 For delivery information visit our website at www.usps.com

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

Sent To  
 NM OIL CONSERVATION DIVISION  
 1220 S ST FRANCIS DR  
 SANTA FE NM 87505  
 DW SWD 4-22-27 #1

7004 0550 0000 7457 8912  
 7004 0550 0000 7457 8912

**Injection Permit Checklist 2/8/07**

**SWD Order Number** \_\_\_\_\_ **Dates: Division Approved** \_\_\_\_\_ **District Approved** \_\_\_\_\_

Well Name/Num: COMPADRES F# NO. 2  
SWD 4-22-27 #1 Date Spudded: 7/25/06

API Num: (30-) 015-34935 County: EDDY

Footages 2310 FNL/1060 FEL Sec 4 Tsp 22S Rge 27E

Operator Name: MARBAB Energy CORP. Contact Brian Collins

Operator Address: P.O. BOX 227 ARTESIA, NM, 88211-0227

Current Status of Well: Del Producer Planned Work: Recomplete UPHOLE Inj. Tubing Size: 2 7/8

*on Surface*  
 66155  
 14049

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	12 1/4 8 5/8	423'	375'	CIRC
Intermediate			(450 + 700)	
Production	7 7/8 5 1/2	5334'	1150SX	CIRC Both Stages
Last DV Tool		3117'		
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion  After Conversion

Checks (Y/N): Well File Reviewed  ELogs in Imaging

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash	460' = TOP		
Capitan Reef	Just to SE. of Reef		
House, Etc.			
Formation Above	SALADO?		
Top Inj Interval	2570	Del SS	
Bottom Inj Interval	3170	Del SS	
Formation Below	3250' 5202'	Del B.S.	yes

*John FROM 430'*  
 1735' = ?  
 ↑  
 Top Release Sand or Lower LS

*Wassell Fed No. 1*

**Fresh Water:** Depths: 0-420' Wells(Y/N) Yes Analysis Included (Y/N): Yes Affirmative Statement

**Salt Water Analysis:** Injection Zone (Y/N/NA) Del Disp Waters (Y/N/NA) \_\_\_\_\_ Types: Del

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

Other Affected Parties: MYCO, ABOP, BP, Yates Drill, RUBICON, RKC, Russ Roy, Fur Fry, AV CAP

**AOR/Repairs:** NumActiveWells 9 Repairs? No Producing in Injection Interval in AOR No

AOR Num of P&A Wells 1 Repairs? No Diagrams Included? Yes RBDMS Updated (Y/N) \_\_\_\_\_

Well Table Adequate (Y/N)  AOR STRs: Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ UIC Form Completed (Y/N) \_\_\_\_\_

New AOR Table Filename \_\_\_\_\_ Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ This Form completed 4/11/07

**Conditions of Approval:** Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ Data Request Sent \_\_\_\_\_

- Set CIBP within 200' or above the
- COPY of Newspaper NOTICE
- who a surface owner
- TOPS of everyone down to Del.
- TOPS of Del members

**AOR Required Work:** Run off Profile

**Required Work to this Well:** Notice Contested WHY was the well DEVIATED?

*OK  
 Roy wanted  
 Devon  
 Hesperite*

**Jones, William V., EMNRD**

---

**From:** Brian Collins [engineering@marbob.com]  
**Sent:** Monday, April 23, 2007 4:59 PM  
**To:** Jones, William V., EMNRD  
**Subject:** Re: SWD Application: SWD 4-22-27 #1 API No. 30-015-34935 (was the Compadres Fee #2)

Will:

Here's the answers to your questions on the SWD 4-22-27 application. Let me know if you need anything else. Thanks.

1. Plug back with CIBP to 200' below bottom of injection interval.

Answer: We don't think an additional CIBP 200' below the bottom perf is necessary; however, we don't have a problem with this. Instead of setting an additional CIBP, could we set the CIBP + cement proposed for 4125' at 3350' instead?

2. Why was well deviated?

Answer: The desired surface location was too close to a high pressure gas line so we moved the location.

3. Send a copy of the notice published in the newspaper.

Answer: I'll get it in the mail to you ASAP.

4. Who is the surface owner?

Answer: Francis Tracy is the surface owner. He was notified by certified mail and has no objections.

5. Formation tops needed. What's between Salado and Lamar? Is injection into Cherry Canyon only?

Answers:

Formation Tops: Rustler 284', Salado 422', Base Salado/Top Castille 550', Lamar 1735', Bell Canyon 1963', Cherry Canyon 2683', Brushy Canyon 4010', Bone Spring 5202'

Between Salado and Lamar: Salt 422' to 550', Anhydrite 550' to 1735'

Injection Interval: Lower portion of Bell Canyon and upper portion of Cherry Canyon.

6. Reef protection and salinity.

Answer: The Reef is not present in the area near the well. If it were present, the Reef would be protected by casing cemented at least 1000' above the top of the proposed injection interval in all the wells within the area of review. I'm not familiar with the water salinity in the Reef in the Carlsbad area.

7. Is the sand zone producing 80' deeper than the proposed injection interval in one of the offset wells a rare sand that doesn't exist in the proposed well?

Answer: The sand in the Wersell 1 (C-4-22s-27e) 3267-82' appears to be present in the proposed well. The equivalent sand in the proposed SWD had no mudlog show, calculated wet and didn't merit testing in the proposed well. We believe there is adequate vertical separation between our lowest proposed injection perf and the sand in the Wersell 1 to prevent disposal into the Wersell 1 sand. It is also possible that the sand in the proposed well, although stratigraphically equivalent, may be a separate reservoir than the sand in the Wersell 1.

4/23/2007

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Wednesday, April 11, 2007 4:17 PM  
**To:** Brian Collins (engineering@marbob.com)  
**Cc:** Arrant, Bryan, EMNRD; Ezeanyim, Richard, EMNRD  
**Subject:** SWD Application: SWD 4-22-27 #1 API No. 30-015-34935 (was the Compadres Fee #2)

Hello Brian Collins:

We received your application on behalf of Marbob to inject into the Delaware in this relatively newly drilled well from 2570 to 3170 feet and have a couple questions and comments:

- 1) We'll require Marbob to plug back with a CIBP to approx 200 feet below the lowermost injection interval.
- 2) The well was deviated, but not very much. Why was it deviated?
- 3) Send a copy of the notice as actually posted in the Newspaper.
- 4) Who is the surface owner?
- 5) Please have your geologist send tops of all formations in this well including members of the Delaware. Looks like the Salado starts at 460 feet and the Lamar is at 1735 ?? What is in between? Is the injection interval in the Cherry Canyon only?
- 6) My maps show this well to be southeast but close to the edge of the Capitan Reef. Realize you would be injecting below the Reef or Southeast of the Reef - but would you talk a little about how the Reef is protected from water injection both vertically and laterally? What is your opinion of the salinity in the Reef in this area?
- 7) The Delaware producing interval in an offset well is only 80 or so feet below your intended injection interval. Was that a rare sand that does not exist in this well?

Overall the application looks fine. Please reply as soon as possible and I can release this - probably on April 18.

Thank You,

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

4/11/2007



---

**marbob**  
energy corporation

---

April 25, 2007

New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505-4000

Attn: Mr. Will Jones

Re: C-108 Application  
SWD 4-22-27  
Township 22 South, Range 27 East  
Sec. 4: 2310 FNL 1060 FEL  
Eddy County, NM

Dear Mr. Jones:

Per your request, enclosed is a copy of the Affidavit of Publication for the referenced C-108 application. The legal notice was published in the Artesia Daily Press on April 3, 2007.

Please let us know if you need anything further.

Sincerely,

Debora L. Wilbourn  
GeoTech

Enclosure

**RECEIVED**

APR 30 2007

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

# Affidavit of Publication

NO. 19667

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:

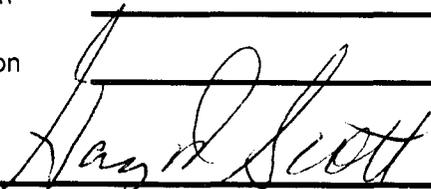
First Publication April 3 2007

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

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

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

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



Subscribed and sworn to before me this

17th Day April 2007



Notary Public, Eddy County, New Mexico

My Commission expires April 5, 2011

# Copy of Publication:

### LEGAL NOTICE

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 SWD 4-22-27 No. 1 is located 2310' and 1060' FEL, Section 4, Township 22 South, Range 27, East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware formation. The disposal water will be injected into the Delaware formation at a depth of 2570' to 3170' at a maximum surface pressure of 514 psi and a maximum rate of 3000 BWP.D. 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 505-748-3303. Published in the Artesia Daily Press, Artesia, N.M. April 3, 2007.

Legal 19667