

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

San Andres / Open hole
 Mescalero SWD No. 2
 30-025 - Pending
 4/10/2015

2015 JUL 23 P. 1:25
 RECEIVED OOD

[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.

Ben Stone		Agent for Mescalero Energy, LLC	7/21/15
Print or Type Name	Signature	Title	Date
		ben@sosconsulting.us	
		e-mail Address	

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ***Salt Water Disposal – Application Meets Qualifications for Administrative Approval.***
- II. OPERATOR: ***Mescalero Energy, LLC***
ADDRESS: ***510 Bering Dr. Ste.430, Houston, TX 77057***

CONTACT PARTY: ***Ricci Susong (713) 384-9317***
Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850
- III. WELL DATA: ***All well data and applicable wellbore diagrams are attached hereto.***
- IV. ***This is not an expansion of an existing project.***
- V. ***A map is ATTACHED*** 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. ***A tabulation is ATTACHED*** of data on all wells of public record within the area of review which penetrate the proposed injection zone. ***(10 AOR wells penetrate the subject interval – 2 P&A.)*** The data includes a description of each well's type, construction, date drilled, location, depth, and a ***schematic of any plugged wells*** illustrating all plugging detail.
- VII. ***The following data is ATTACHED*** 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. ***Appropriate geologic data on the injection zone is ATTACHED*** 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. ***No stimulation program is proposed at this time excepting a small acid job to clean and open the formation.***
- *X. ***This is a New Drill SWD. Standard combo log suite will be performed and submitted. Operator may step-rate test the well for potential pressure increase.***
- *XI. ***State Engineer's records indicate 2 water wells within one mile the proposed salt water disposal well. The wells were sampled and analyses will be forwarded as soon as they are received.***
- XII. ***An affirmative statement is ATTACHED that available geologic and engineering data has been examined and 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" section on the next page of this form has been completed. There are 2 offset lessees and/or operators within ½ mile - all have been noticed via U.S. Certified Mail.***
- 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: ***Ben Stone*** TITLE: ***SOS Consulting, LLC agent / consultant for Mescalero Energy, LLC***

SIGNATURE:  DATE: ***7/21/2015***

E-MAIL ADDRESS: ***ben@sosconsulting.us***

- * 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:

III. WELL DATA – *The following information and data is included:*

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is attached. Affidavit to follow.*

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Submitted 11/30/2015



WELL SCHEMATIC - PROPOSED
(Mescalero) SWD Well No. 2
McCaskard
API 30-025-00000 (TBD)
1723' FNL & 590' FEL, SEC. 10-T20S-R38E
LEA COUNTY, NEW MEXICO

Pool: 96121; SWD; San Andres
Spud Date: 7/15/2015

Annulus Monitored
or open to atmosphere

Injection Pressure Regulated
and Volumes Reported
920 psi Max Surface

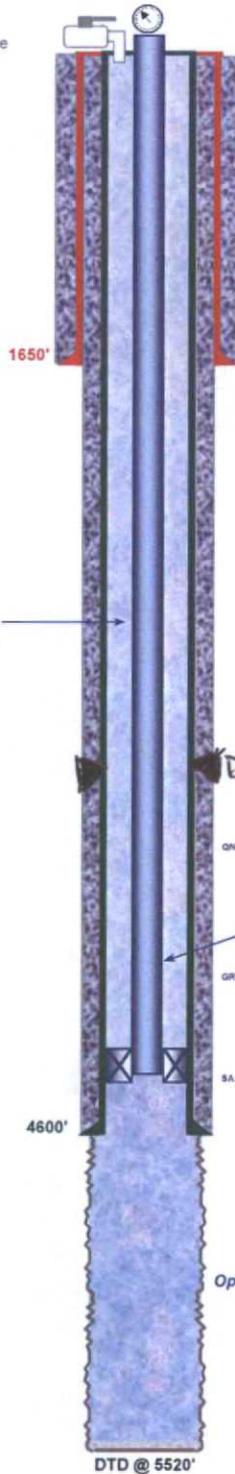
~~Mescalero Energy, LLC~~

Spud and Complete well as described in APD.
Run CNL or Equiv. Logs from TD to 4200'.
Run & Set 7.0" per Log Evaluation or APD Approval.
Cement 2 stages w/ ~500 - 275 sx - Circulate to Surface.
Run PC Tubing and PKR - Conduct MIT.
Commence Disposal Operations per SWD Order.

Surface Casing

9.625", 40.0# Csg. (12.25" Hole) @ 1650'
650 sx CIs 'C' + Additives - Circulate to Surface

Annulus Loaded
w/ Inert Packer Fluid



Long String Casing

7.0", 23.0/26.0# Csg. (8.75" hole) - Surface to 4600'
Est. 775 sx w/ excess - Circulate to Surface
2 stage w/ DV ~3000'

All Cement Volumes May Be Adjusted to Caliper.

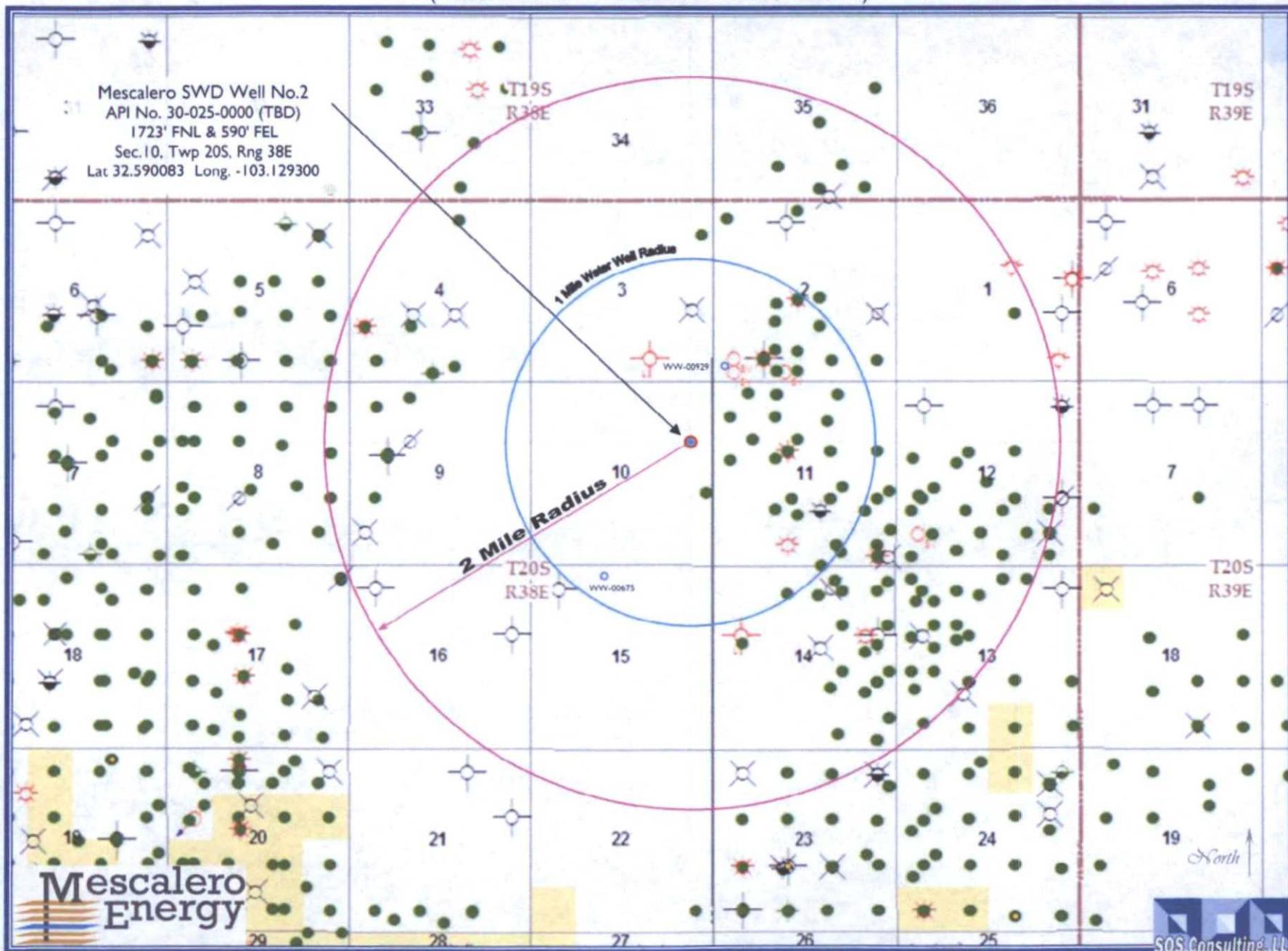


Drawn by Ben Stone, Rvd'd 10/18/2015

GLR - 0615

Mescalero SWD No.2 - Area of Review / 2 Miles

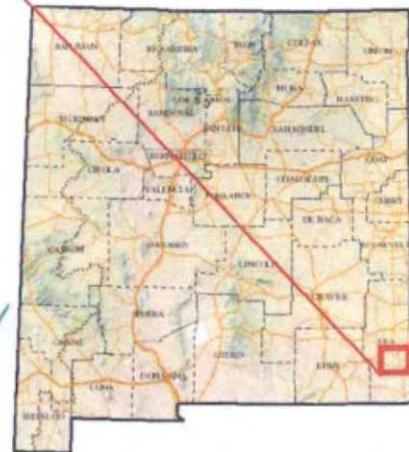
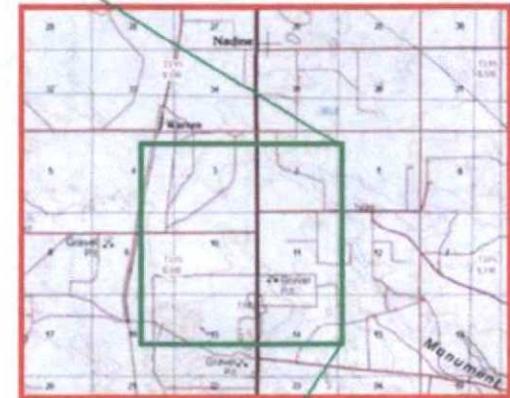
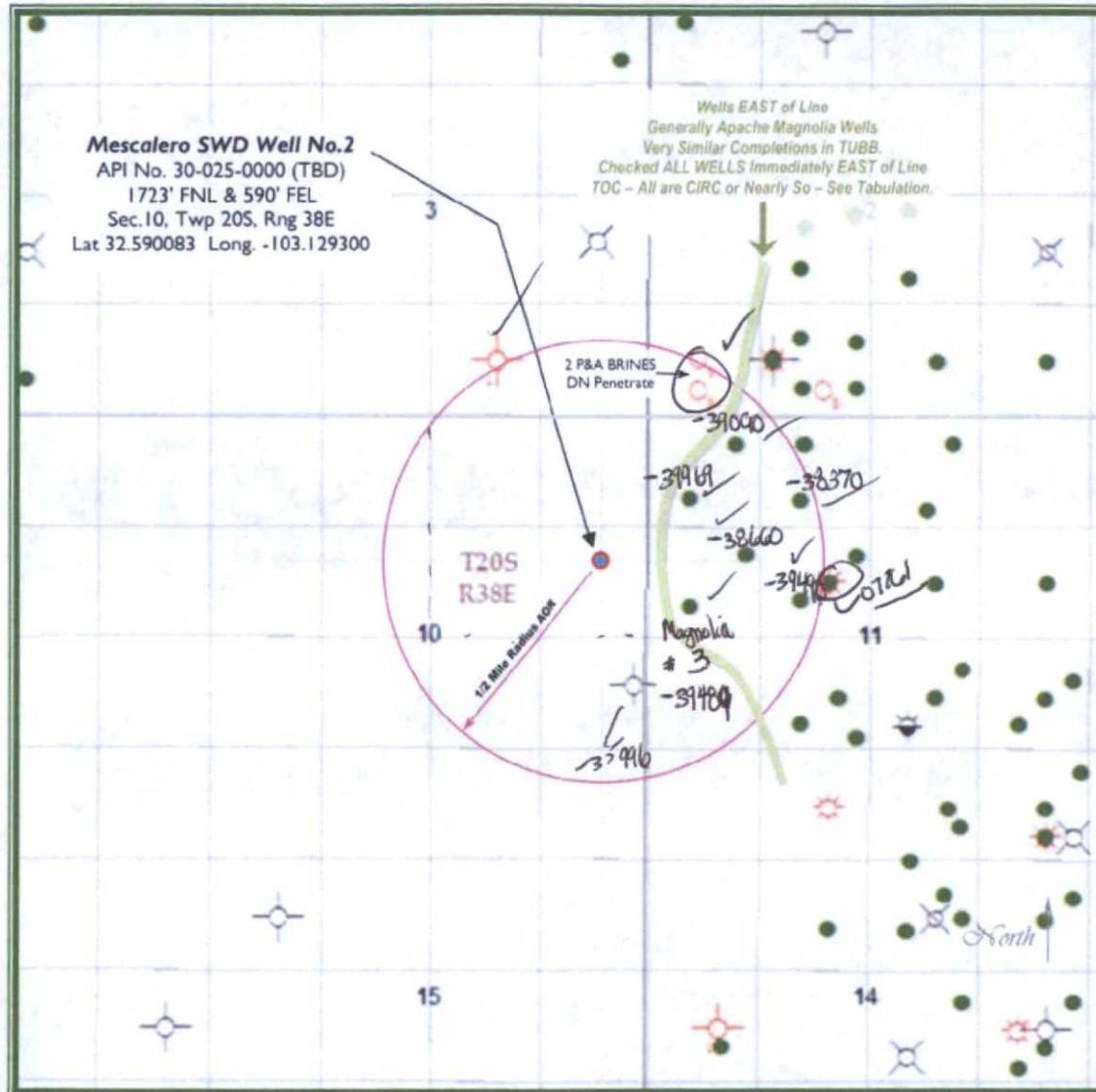
(Attachment to NMOCD Form C-108 - Item V)



Mescalero SWD Well No.2 - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)

2.2 miles South of Nadine, NM



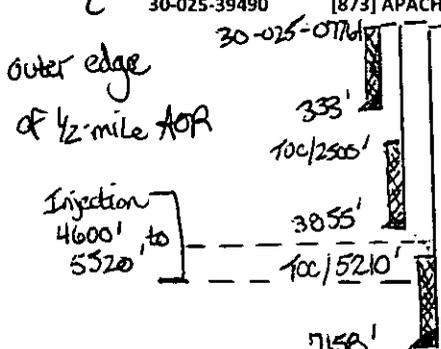
Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SAN ANDRES Interval 4600'

ALL Wells (except P&A WSWs) Penetrate.

API Number	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged Dt.
Section 2 Wells									
30-025-25836	[5073] CONOCO INC	WARREN MCKEE BRINE	#001	WSW	State	P&A	M-2-20S-38E	2400'	3/14/1995
							P&A'D Water Supply Well - DOES NOT PENETRATE.		
30-025-32745	[5073] CONOCO INC	WARREN MCKEE BRINE	#003	WSW	State	P&A	M-2-20S-38E	2800'	1/24/2000
							P&A'd Water Supply Well - DOES NOT PENETRATE.		
Section 3 Wells									
30-025-20402	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Private	P&A	M-3-20S-38E	9915'	1/1/1900
							SEE P&A SCHEMATIC.		
Section 10 Wells									
30-025-35996	[3659] CAPATAZ OPERATING INC	HAV A TAMPA	#001	Oil	Private	P&A	I-10-20S-38E	7800'	11/29/2005
							SEE P&A SCHEMATIC.		
Section 11 Wells									
30-025-38370	[873] APACHE CORP	MELOT	#001	Oil	Private	Active	C-11-20S-38E	7300'	
							DRNKD Perfs: 7013'-94'; 8.625" (12.25" hole) @ 1625' w/ 900 sx - circ.; 5.5 (7.875" hole) @ 7300' w/ 1450sx - Circ.		
30-025-38700	[873] APACHE CORP	MELOT	#002	Oil	Private	Active	C-11-20S-38E	7339'	
							TUBB Perfs: 6676'-80'; 8.625" (12.25" hole) @ 1594' w/ 750sx - circ.; 5.5 (7.875" hole) @ 7342' w/ 1540sx - Circ.		
30-025-39969	[873] APACHE CORP	MAGNOLIA	#004	Oil	Private	Active	D-11-20S-38E	7291'	5/3/2007
							DRNKD Perfs: 6960'-7114'; 8.625" (12.25" hole) @ 1223' w/ 750 sx - circ.; 5.5 (7.875" hole) @ 7291' w/ 1495sx - Circ. 150 sx to surf.		
30-025-39090	[873] APACHE CORP	MAGNOLIA	#002	Oil	Private	Active	D-11-20S-38E	7300'	
							DRNKD Perfs: 7011'-91'; 8.625" (12.25" hole) @ 1599' w/ 750sx - circ.; 5.5 (7.875" hole) @ 7300' w/ 1350sx - Circ.		
30-025-39489	[873] APACHE CORP	MAGNOLIA	#003	Oil	Private	Active	E-11-20S-38E	7362'	
							TUBB Perfs: 6960'-7114'; 8.625" (12.25" hole) @ 1600' w/ 750 sx - circ.; 5.5 (7.875" hole) @ 7362' w/ 1050sx - Circ. 150 sx to surf.		
30-025-38660	[873] APACHE CORP	MAGNOLIA	#001	Oil	Private	Active	E-11-20S-38E	7297'	
							TUBB Perfs: 6558'-6844'; 8.625" (12.25" hole) @ 1610' w/ 800sx - circ.; 5.5 (7.875" hole) @ 7293' w/ 1405 sx - Circ.		
30-025-07761	[873] APACHE CORP	ARNOLD A	#001	Gas	Private	Active	F-11-20S-38E	7120'	
							TUBB Perfs: 6630'-6844'; 13.357" (17.0" hole) @ 333' w/ 350 sx - circ.; 9.625" (12.25" hole) @ 3855' w/ 730 sx - TOC @ 2500' Temp.; 5.5 (7.875" hole) @ 7158' w/ 275 sx - TOC @ 5210' Temp.		
30-025-39490	[873] APACHE CORP	ARNOLD A	#002	Oil	Private	Active	F-11-20S-38E	7301'	
							TUBB Perfs: 6562'-6784'; 8.625" (12.25" hole) @ 1608' w/ 750sx - circ.; 5.5 (7.875" hole) @ 7301' w/ 1050 sx - Circ.		

SUMMARY: 10 wells penetrate proposed disposal interval. 2 P&A.



8 wells



C-108 - Item VI

Area of Review Well Data

PLUGGED WELL SCHEMATICS

There are 2 P&A'd wells within the AOR.

Schematics w/ Sundry Info follow.

PLUGGED WELL SCHEMATIC

Hav A Tampa Well No.1

API 30-025-35996

2410' FSL & 330' FEL, SEC. 10-T20S-R38E
LEA COUNTY, NEW MEXICO

Spud Date: 6/02/2003

P&A Date: 11/25/2005

Well Plugged by:

Capetas Operating, Inc.

<PLUGGING ITEMS LISTED LEFT>

P&A Marker

K.B. 3595'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Note: Surf Plug Leaked
D/O to 420' &
RIH to 1400'
Fill hole w/ 375 sx to Surf.

Spot 60 sxs
1685'-1535'
Tagged @ 1400'

Spot 50 sxs
3050'-2925'

Shot & Pulled 5-1/2" @ 3010'

Sqz Perfs @ 4490'
Sqz w/ 260 sx - TOC 3100'
Spot w/ 35' on CIBP Cap

Set P&A CIBP @ 5950'
Cap w/ 5 sx

Formation fluids

Perfs 6024'-6118'

7800'

DTD @ 7800'

Surface Casing

8.625", 24.0# Csg. (9.875" Hole) @ 1635'
6500 sxs - Circulated to Surface

<P&A SUBSEQUENT SUNDRY>

Submit 1 Copy To Appropriate District
Office
State of New Mexico
Energy, Minerals and Natural Resources
1425 N French Dr., Hobbs, NM 88240
District
1301 W. Grand Ave., Artesia, NM 88210
District
1000 Via Bravo Rd., Alamo, NM 87110
District
1229 S. St. Francis Dr., Santa Fe, NM
87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO. 30-025-35996		3. Indicate Type of Lease STATE <input type="checkbox"/> PER <input checked="" type="checkbox"/> EX	
4. Name of Operator Capetas Operating Inc		7. Lease Name or Unit Agreement Name Hav-A-Tampa	
5. Address of Operator PO Box 10549, Midland, TX 79702		8. Well Number 1	
6. Well Location Unit Letter I - 2140 feet from the South line and 330 feet from the East line Section 30 Township 20S Range 33E NMPM 100 County		9. OGRID Number	
11. Elevation (Show whether DE, RGR, RT, GR, etc.) 3575 KB		10. Pool name or Wildcat	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	EXX <input type="checkbox"/>
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

1. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 193. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

05/25/05 MIRU PU. TOOH & LD rods & Pump. TOOH w/ Tbg set CIBP @ 4265' & dump 35' cement on top of CIBP. Cut off 5-1/2" casing @ 3010' & LD casing. Spot 50 SX Class "C" @ 3050'. Spot 60 SX Class "C" @ 1685'. Tag cement @ 1400'. Spot 100' plug @ 400'. Spot 10 SX @ Surface. RMD. Surface plug leaked. MIRU 11/14/05. Drill out to 420'. RIH to 1400' and 1" casing w/ 375 SX "C". RMD 11/29/05.

Approved as to plugging of the Well Bore.
Liability under bond is retained until
surface restoration is completed.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or hole-grade work has been completed or closed according to NMOCD guidelines a general permit or so (checked) otherwise OGD-approved plan .

SIGNATURE: H Scott Davitt Agent DATE: 1/30/06

Type or print name: E-mail address: Telephone No.
For State Use Only: TITLE: DATE: FEB 06 2006

Production Casing

5.5", 17.0# J-55 Csg. (7.875" Hole) @ 7800'
775 sx - TOC @ 5100' - Shoot & Squeeze.



Drawn by: Ben Stone, 7/02/2015

Schlumberger

Company: Capataz Operating Inc.

Well: Hav-A-Tampa #1
Field: House(Drinkard)

County: Lea State: New Mexico

PLATFORM EXPRESS
Three Detector Litho Density
Compensated Neutron/NGT

2140 FSL & 330 FEL
Section 10, T20S, R32E
Elev.: K.B. 3615 ft
G.L. 3597 ft
D.F. 3614 ft

Permanent Datum: Unit I **GROUND LEVEL** Elev.: 3587 ft
Log Measured From: **KELLY BUSHING** 18.0 ft above Perm. Datum
Drilling Measured From: **KELLY BUSHING**

API Serial No. 20 025 35826 Section 10 Township 20S Range 32E

Lea County: House(Drinkard)
Field: 2140 FSL & 330 FEL
Location: Hav-A-Tampa #1
Well: Capataz Operating Inc.

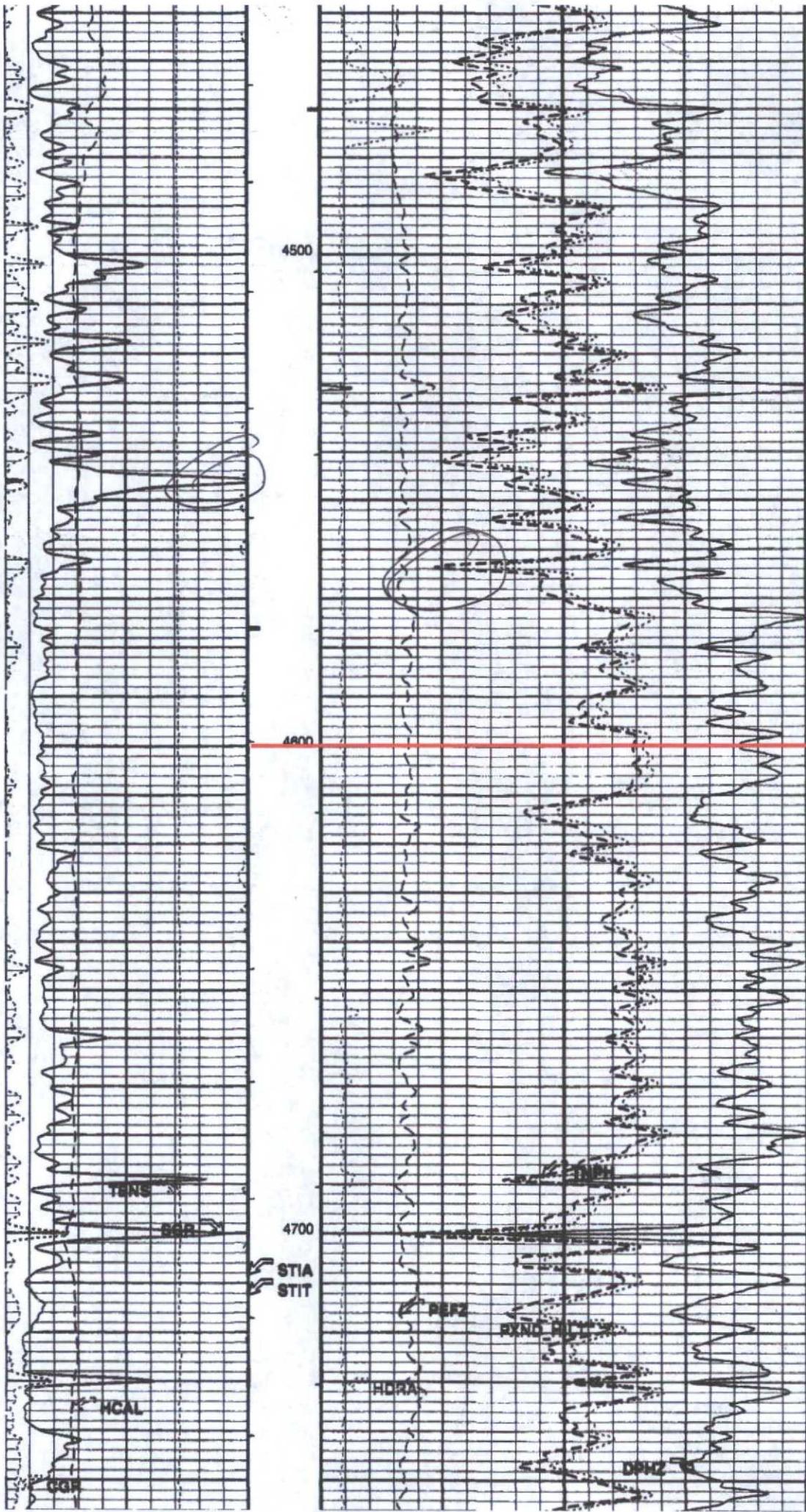
Logging Data		2-Oct-2002	
Run Number	1		
Depth Driller	7800 ft		
Schlumberger Depth	7787 ft		
Bottom Log Interval	7718 ft		
Top Log Interval	200 ft		
Casing Driller Size @ Depth	8.625 in @ 1635 ft		
Casing Schlumberger	1636 ft		
Bit Size	7.875 in		
Type Fluid In Hole	Starch		
Density	10 lbm/gal	30 s	
Viscosity			
Fluid Loss	9.5 cm3	PH	
Source Of Sample	Circulation Pt		
RMF @ Measured Temperature	0.041 ohm.m @ 86 degF		
RMF @ Measured Temperature	0.041 ohm.m @ 86 degF		
RMC @ Measured Temperature	@		
Source RMF	Calculated		
RMC			
RMF @ MRT	0.031 @ 117	0.031 @ 117	
RMC @ MRT			
Maximum Recorded Temperatures	117 degF		
Circulation Stopped	Time	2-Oct-2002	18:00
Logger On Bottom	Time	2-Oct-2002	23:00
Unit Number	3076	Location	Hobbs, New Mexico
Recorded By	JIMENEZ,D.		
Witnessed By	Mr. Scott Davis		

Logging Data		Run 1		Run 2		Run 3		Run 4	
Run Number									
Depth Driller									
Schlumberger Depth									
Bottom Log Interval									
Top Log Interval									
Casing Driller Size @ Depth									
Casing Schlumberger									
Bit Size									
Type Fluid In Hole									
Density									
Viscosity									
Fluid Loss									
PH									
Source Of Sample									
RMF @ Measured Temperature									
RMF @ Measured Temperature									
RMC @ Measured Temperature									
Source RMF									
RMC									
RMF @ MRT									
RMC @ MRT									
Maximum Recorded Temperatures									
Circulation Stopped	Time								
Logger On Bottom	Time								
Unit Number									
Location									
Recorded By									
Witnessed By									

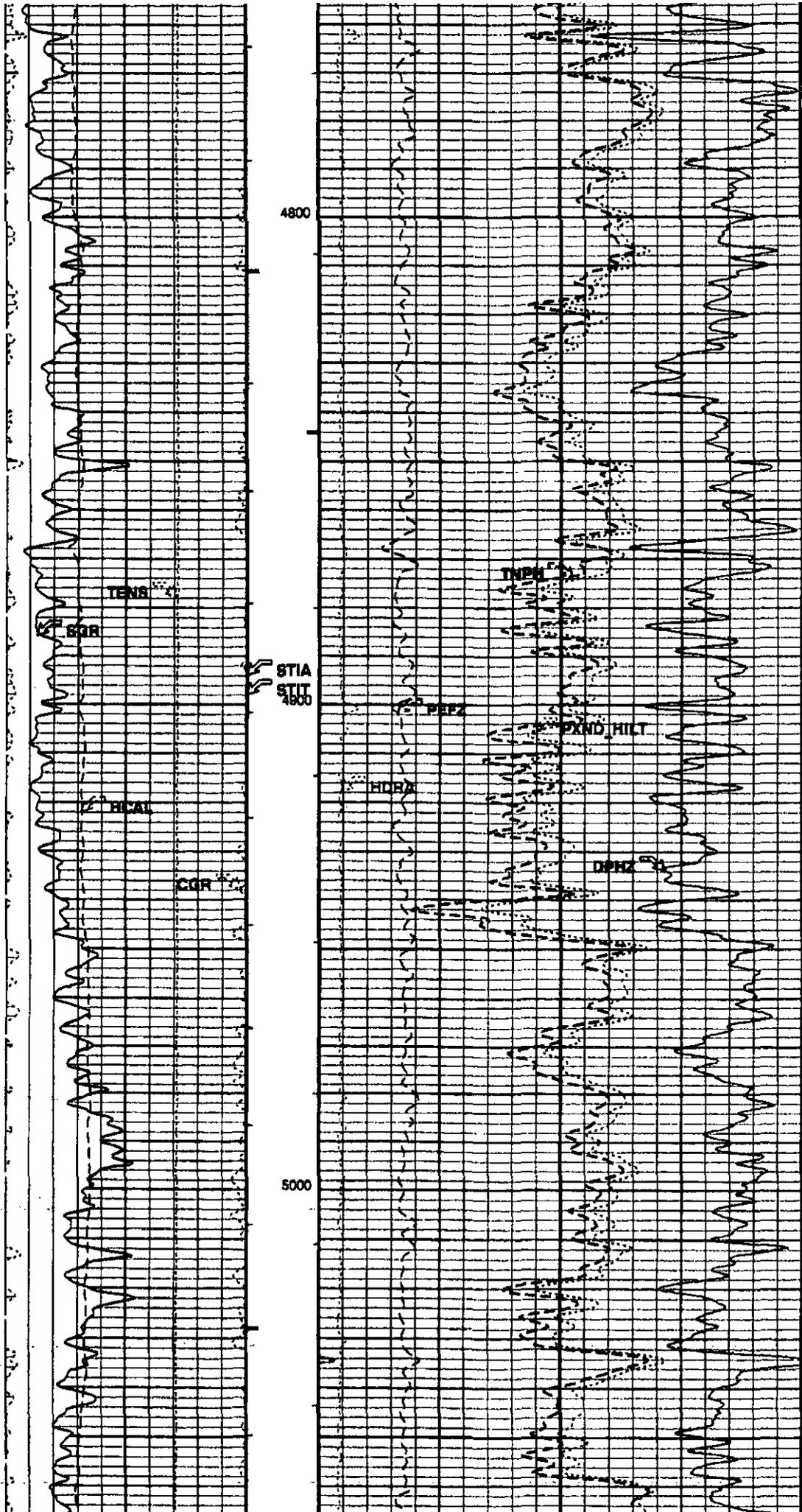
DISCLAIMER
THE USE OF AND RELIANCE UPON THIS RECORDED DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (A) RESTRICTION ON USE OF THE RECORDED DATA; (B) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED DATA; AND (C) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED DATA.

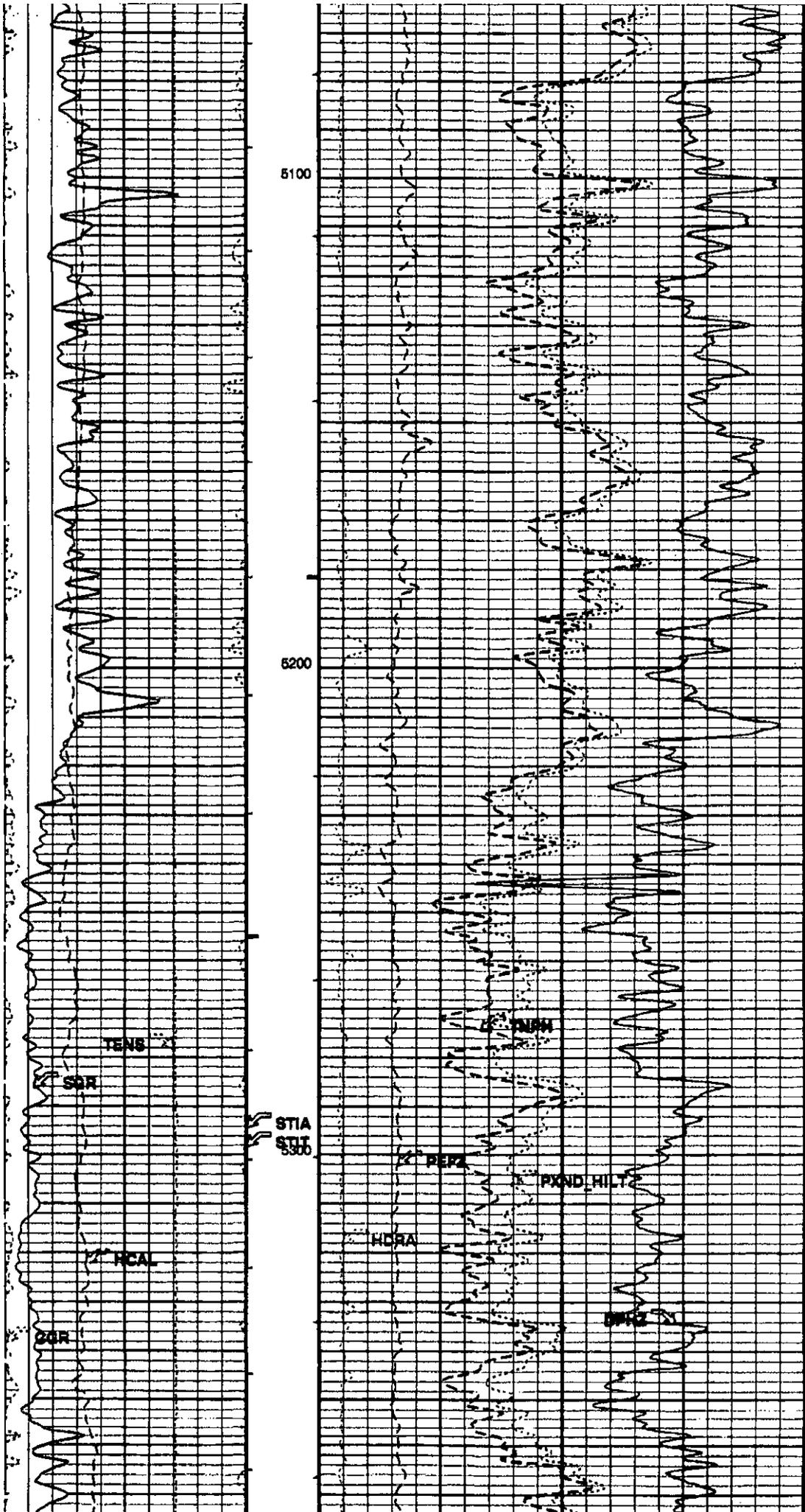
OTHER SERVICES: OTHER SERVICE#2
 OS1: BHC
 OS2: NGT
 OS3: FMI
 OS4:
 OS5:
 REMARKS: RUN NUMBER 1
 REMARKS: RUN NUMBER 2

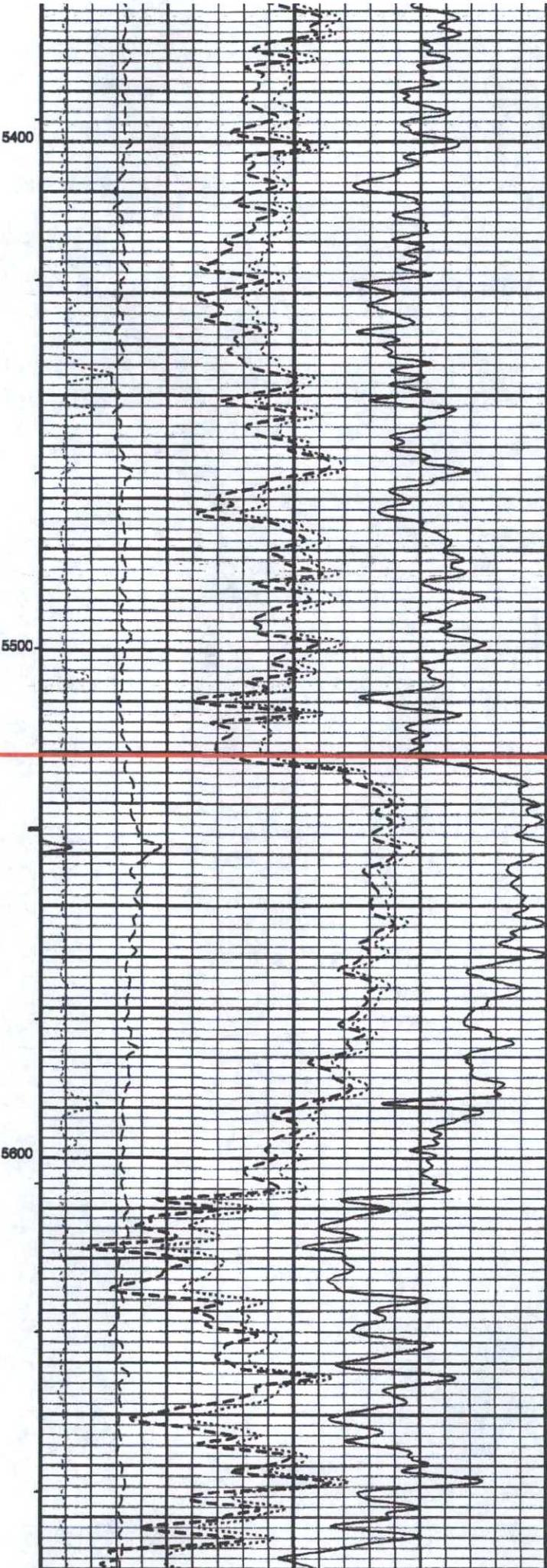
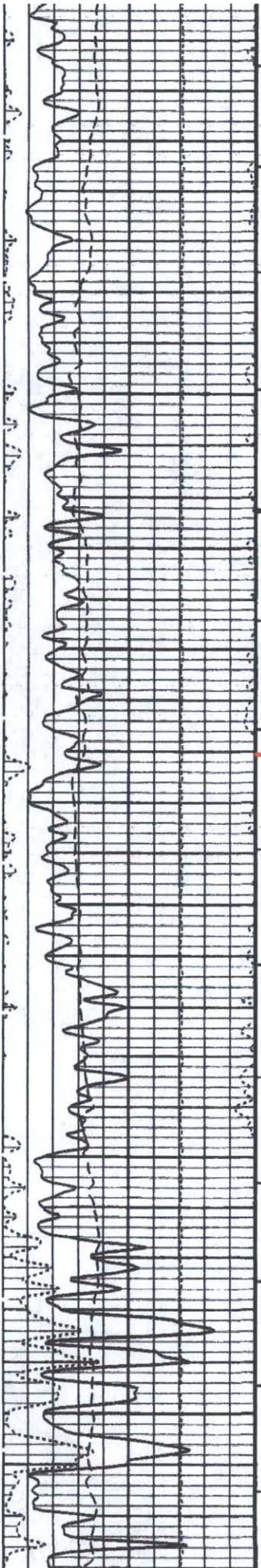
This is the primary depth reference for the well.
 Cement volume calculated using a future casing OD of 5.5 inches.
 Two 1.5 inch standoffs used on HRLA for better centralization.
 Two 1.5 inch standoffs used on DBLT for better centralization.



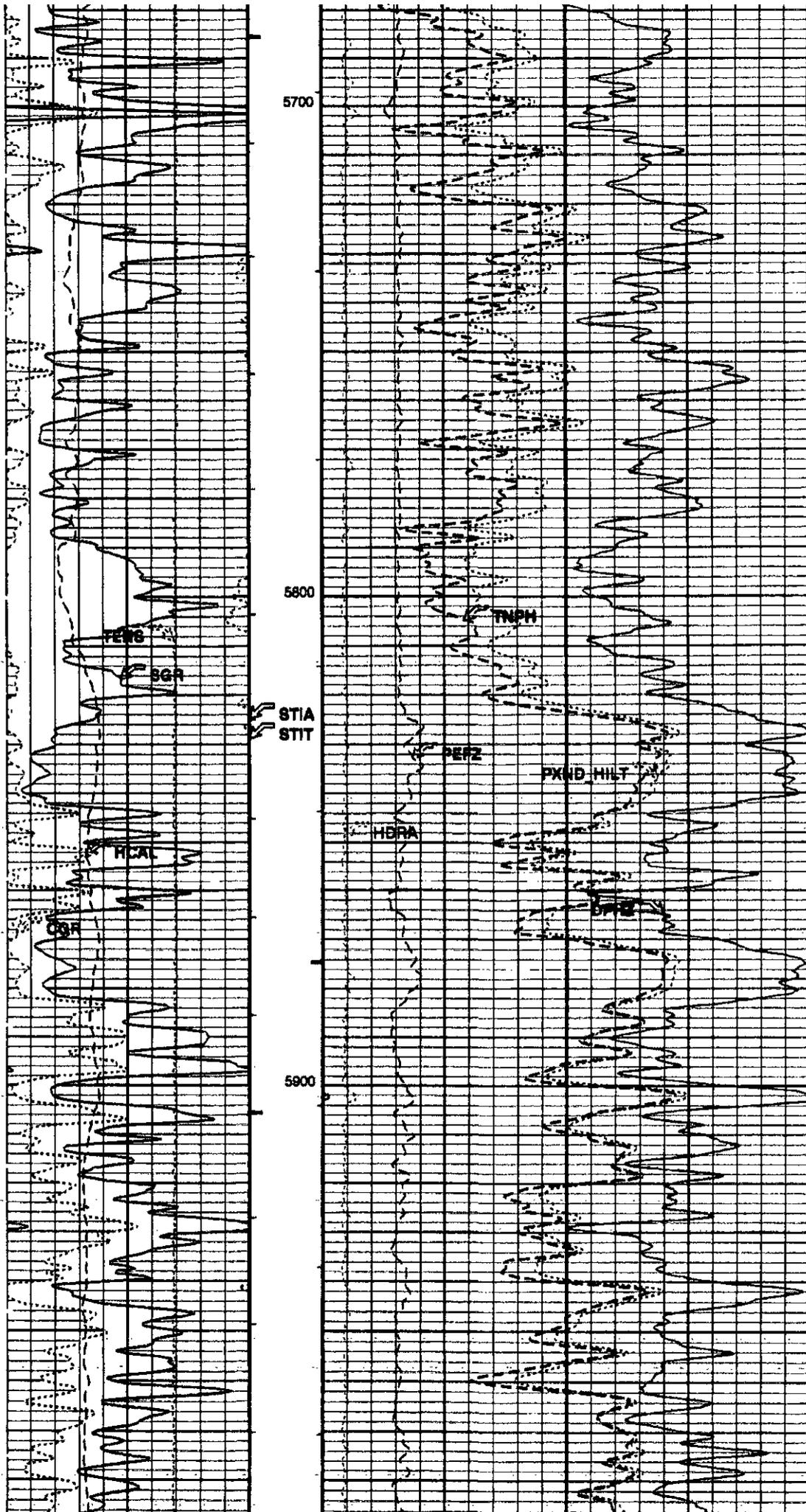
Proposed
Top of
Interval
4600'







Proposed
Bottom of
Interval
5520' ✓



C-108 ITEM VII – PROPOSED OPERATION

The Mescalero Well No.2 SWD will be operated as a commercial disposal service to area operators to facilitate in disposal of produced water from typical producing formations in the area. (Samples are included in this application from Grayburg and Bone Spring formation waters - chlorides and TDS are relative compatible with San Andres formation waters.)

The system will be closed utilizing a tank battery facility located on the well site.

Injection pressure will be 920 psi with rates limited only by that pressure. In the future, Mescalero Energy, LLC may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request to increase the injection pressure.

Routine maintenance will be ongoing and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will not be manned but will be available to Mescalero Energy's customers 24/7. The facility will be available for inspections at any time deemed necessary by OCD.

C-108 - Item VII.4

Water Analysis – Disposal Zone0 – SAN ANDRES



Company: Panac	Report No.: 3C032
Lease & Well: Gato 35	Service Point: Hobbs Laboratory
County, State:	Prepared by: E. Collins
Formation:	Prepared for: M. Merchison
BIT (F):	Date: 2/25/2003

Specific gravity: 1.110 @ 74 degrees F pH 8.00

Anions						Ionic Strength			
	Factor	ml	Sample	mg/l	Factor	me/l	(mg/l)	(me/l)	(ppm)
Chlorides	3545	17.40	0.5	123366	0.0282	3478.92	1.7271	1.7395	111141
Sulfates	20	100.0	10	200	0.0208	4.16	0.0042	0.0042	18
Carbonates	102	0.0	0.5	590	0.0333	19.68	0.0195	0.0197	532
Bicarbonates	1000	1.10	0.5	2200	0.0184	35.08	0.0176	0.0180	1982

Cations						Ionic Strength			
	Factor	ml	Sample	mg/l	Factor	me/l	(mg/l)	(me/l)	(ppm)
Calcium	401	5.5	0.5	4411	0.0499	220.11	0.2208	0.2201	3974
Magnesium	243	1.50	0.5	729	0.0823	60.00	0.0598	0.0600	657
Sodium	0	0	0	0	0.0358	0.00	0.0000	0.0000	0
Potassium	0	0	0	74913	0.0435	3258.72	1.6481	1.6294	67489

Total Dissolved Solids: 205409.4 | 7077.64
 Total Ionic Strength: 3.6966 | 3.6908

Calcium Carbonate Deposition

Stiff-Davis Equation: Stability Index (SI) = pH - pCa - pAlk - K

pH = 8.00
 pCa = 0.95
 pAlk = 1.54
 K = 1.31

Total Ion Equivalent NaCl Concentration = 185013.6 ppm

SI = 4.20

The Stiff-Davis equation predicts this water does have a tendency toward calcium carbonate deposition.

Calcium Sulfate Deposition

CaSO₄ Solubility: $S = 1000 (\text{SQRT}(X^2 + 4K) - X)$

Total Ionic Strength = 3.6966
 Solubility Constant, K = 0.00230
 X = 0.1082

C = 44.47 me/l

Laboratory analysis shows that this water contains 4.16 me/l, therefore the tendency towards calcium sulfate deposition does not exist.

C-108 - Item VII.4

Water Analysis – Source Water – GRAYBURG

South Permian Basin Region
 10520 West I-20 East
 Odessa, TX 79761
 (915) 498-9191
 Lab Team Leader - Sheila Hernandez
 (915) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	33102
Region:	PERMIAN BASIN	Account Manager:	MIKE EDWARDS (505) 370-9506
Area:	EUNICE, NM	Sample #:	26347
Lease/Platform:	ARGO	Analysis ID #:	20257
Entity (or well #):	7	Analysis Cost:	\$40.00
Formation:	Grayburg		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 26347 @ 75 °F					
Sampling Date:	7/24/01	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	7/26/01	Chloride:	3638.0	102.61	Sodium:	1860.1	80.91
Analyst:	MARILYN BRANNON	Bicarbonate:	712.0	11.67	Magnesium:	359.0	29.53
TDS (mg/l or g/m3):	9977.2	Carbonate:	0.0	0.0	Calcium:	955.0	47.65
Density (g/cm3, tonne/m3):	1.008	Sulfate:	2296.0	47.8	Strontium:	17.0	0.39
Anion/Cation Ratio:	0.9999999	Phosphate:			Barium:	0.1	0.0
Carbon Dioxide:		Borate:			Iron:	2.0	0.07
Oxygen:		Silicate:			Potassium:	138.0	3.53
Comments:		Hydrogen Sulfide:			Aluminum:		
		pH at time of sampling:		6.55	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.55	Lead:		
					Manganese:		
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	0.32	42.34	0.00	5.21	-0.07	0.00	-0.05	0.00	0.87	0.00	2.19
100	0	0.44	57.61	-0.01	0.00	-0.01	0.00	-0.04	0.00	0.71	0.00	2.84
120	0	0.57	73.22	-0.01	0.00	0.07	111.75	-0.02	0.00	0.59	0.00	3.55
140	0	0.70	88.49	0.00	4.16	0.17	253.34	0.01	0.35	0.49	0.00	4.29

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

C-108 - Item VII.4

Water Analysis - Source Water - BONE SPRING

ENVIRONMENTAL DIVISION
RECEIVED



704 199# 4 117 8 50
P.O. BOX 2187
BBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Lowell Deckert	Date sampled: 04/29/94
cc: Kenny Kearney	Date reported: 05/01/94
cc:	Lease or well # : Lea Bone Springs
cc:	County: Lea State: N.M.
Company: Subsurface Water Disp. Inc.	Formation:
Address: P.O. Box 1002	Depth:
Service Engineer: K. Kearney	Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	160000	4513
Iron (Fe) (total)	3.0	
Total hardness	87000	
Calcium (Ca)	23458	1171
Magnesium (Mg)	8925	556
Bicarbonates (HCO3)	36	1
Carbonates (CO3)	0	
Sulfates (SO4)	548	11
Hydrogen sulfide (H2S)	n/a	
Carbon dioxide (CO2)	n/a	
Sodium (Na)	64373	2799
Total dissolved solids	255342	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	

Specific Gravity 1.182
Density (#/gal.) 9.850
pH 5.750
IONIC STRENGTH 5.39

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = +0.41
104 F = +0.64
122 F = +0.90
140 F = +1.19
158 F = +1.51

This water is 90 mg/l (-10.38%) under ITS CALCULATED CaSO4 saturation value at 82 F.
SATURATION= 867 mg/L PRESENT= 777 mg/L

REPORTED BY ROBERT C. MIDDLETON *RCM*
TECHNICAL SERVICES REPRESENTATIVE

C-108 ITEM VIII – GEOLOGIC INFORMATION

Disposal will be into the San Andres formation.

The San Andres formation is overall a thick, porous dolomite exhibiting excellent porosity. Offset logs indicated porosities are generally in the 15-20% range. These porosity zones are very suitable to allow for the disposal of produced water. Sufficient barriers exist in the upper and lower portion of the San Andres formation to prevent vertical migration upwards or downwards into over or underlying producing formations.

The San Andres is overlain by the Grayburg and upwards to the Queen. It is underlain by the Blinney, Drinkard and Tubb formations.

Fresh water in the area is generally available from the Ogallala formation. State Engineer's records show water wells in the area to have an average depth of 61 feet and a minimum of 30 feet.

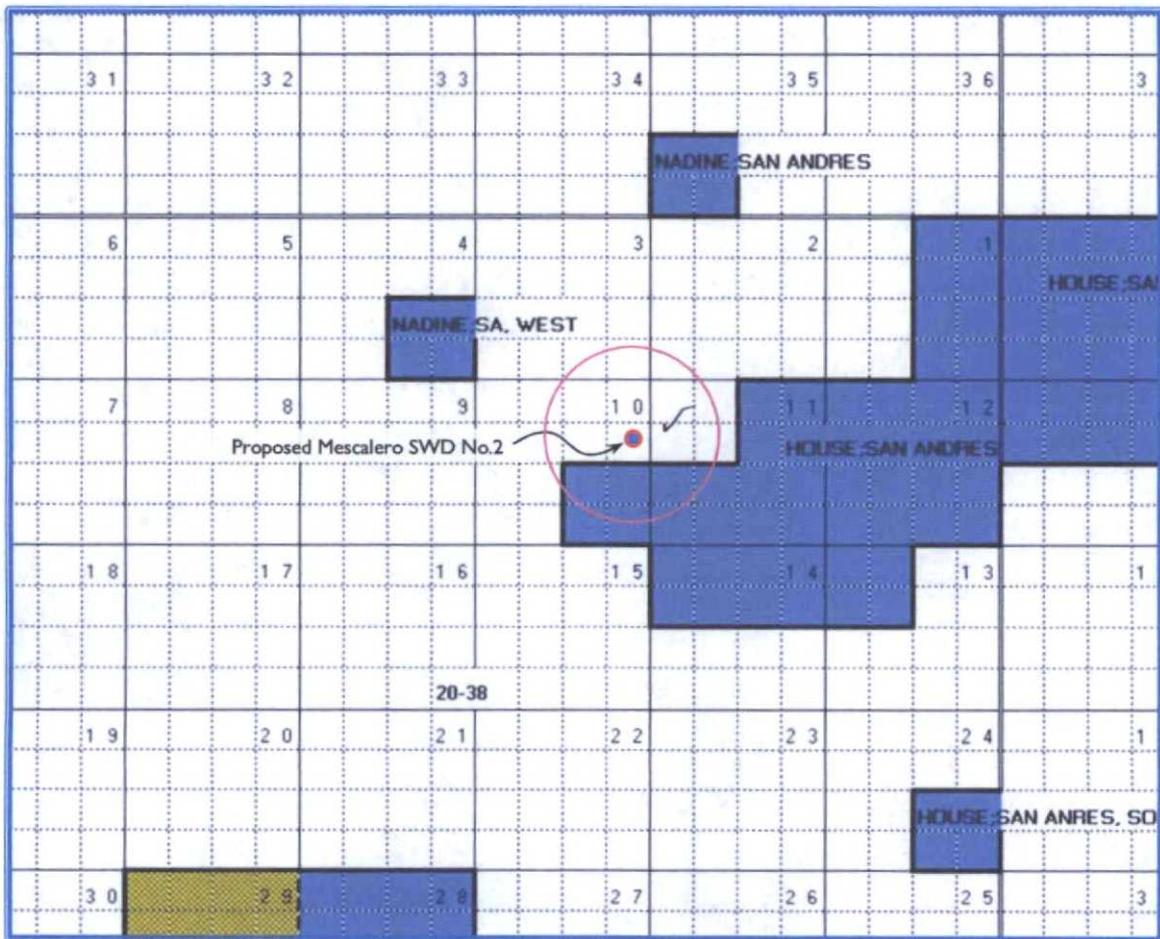
There are 2 water wells located within one mile of the proposed SWD. Average depth to water in these wells is 73 feet. Records indicate that there may have been 2 or 3 additional wells however; a vehicle and foot search only located 1 abandoned windmill.

Analyses of the 2 wells are forthcoming.

C-108 – Item VIII – Geologic Data
SUPPLEMENTAL INFORMATION – POOL DATA

There is signification San Andres pool development in the general area, most notably the Eunice Monument Grayburg/San Andres Pool located several miles to the west. However, in the immediate vicinity, there is much less San Andres production.

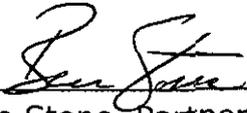
The other area Salt Water Disposal wells are also completed in the San Andres. The ½ mile and AOR is clear of SA production in the proposed interval. There are 2 SA wells within one mile however; they are completed approximately 300 feet above the top of the proposed interval in the lower San Andres.



Pool Maps courtesy of Paul Kautz

C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



Ben Stone, Partner
SOS Consulting, LLC

Project: Mescalero Energy, LLC
Mescalero SWD Well No.2
Reviewed 5/08/2015

Mescalero SWD No. 2

C-108 ITEM XI - WATER WELLS IN AOR

Mescalero SWD No.2 (McCasland Prospect; Section 10-T20S-R38E)

10 - see corrected search

A search of the State Engineer's database indicates 3 water wells within one mile of the proposed salt water disposal well.

The well locations are indicated on the AOR Map. Water samples are being collected and the analysis will be forwarded when received.

WR File Nbr	Subbasin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q64	q16	q4	Sec	Tw	Rng	X	Y
										quarters are 1=NW 2=NE 3=SW 4=SE (smallest to largest)							
		MO	0		LE	CP 01220	POD1		Shallow	1	2	02	22S	37E	675924	3589363	
		N			LE	CP 01220	POD2		Shallow	1	2	02	22S	37E	675951	3589363	
		EXP	0	STATE OF NM STATE ENGINEER	LE	CP 00929	EXPLORE			3	3	3	02	22S	37E	674787	3587906
		MO	0	SOUTHWEST GEOSCIENCE	LE	CP 01103	POD1					2	03	22S	37E	674447	3589016
		N			LE	CP 01103	POD10					2	03	22S	37E	674551	3588995
					LE	CP 01103	POD2					2	03	22S	37E	674439	3588991
					LE	CP 01103	POD3					2	03	22S	37E	674465	3588991
					LE	CP 01103	POD4					2	03	22S	37E	674468	3588968
					LE	CP 01103	POD5					2	03	22S	37E	674487	3588977
					LE	CP 01103	POD6					2	03	22S	37E	674501	3589002
					LE	CP 01103	POD7					2	03	22S	37E	674488	3589046
					LE	CP 01103	POD8					2	03	22S	37E	674520	3589016
					LE	CP 01103	POD9					2	03	22S	37E	674533	3588980
		POL	0	TARGA MIDSTREAM SERVICES LP	LE	CP 01159	POD1		Shallow		2	03	22S	37E	674217	3589009	
					LE	CP 01159	POD2		Shallow		2	03	22S	37E	674222	3588982	
					LE	CP 01159	POD4		Shallow		2	03	22S	37E	674279	3588986	
		IND	60	VERSADO GAS PROCESSORS, LLC	LE	CP 00255				1	4	1	04	22S	37E	671959	3588860 *
		IND	64	VERSADO GAS PROCESSORS, LLC	LE	CP 00254				2	4	1	04	22S	37E	672159	3588860 *
		PUB	0	SKELLY OIL COMPANY NATURAL GASOLINE PLANTS DIV.	LE	CP 00451			Shallow	3	1	3	04	22S	37E	671564	3588250 *
		PDL	3	L. W. FRISTOE	LE	CP 00468			Shallow	3	4	4	04	22S	37E	672777	3587870 *
		STK	3	PRISCILLA B MOODY	LE	CP 00422			Shallow	3	4	4	04	22S	37E	672777	3587870 *

Lea Declared Basin (NM OSE)

CP 01159
CP 00255
CP 00254
CP 00451
CP 00468
CP 00422

20S 38E

CP 00560	CPS 0	SKELLY OIL COMPANY	LE	CP 00560	Shallow 2	1	1	09	22S	37E	671778	3587646	*	
CP 00154	CO 34 M	HOMBLE OIL AND REFINING COMPANY	LE	CP 00154	Shallow 3	1	1	09	22S	37E	671578	3587446	*	
CP 00467	PDL 3	L. W. FRISTOE	LE	CP 00467	Shallow 1	2	2	09	22S	37E	672784	3587668	*	
CP 01353	DOL 3	CHARLIE BETTIS	LE	CP 01353 POD1		3	1	3	09	22S	37E	671513	3586640	
CP 00871	DO 3 M	BILL TRULL	LE	CP 00871	Shallow		3	09	22S	37E	671902	3586541	*	
CP 00756	DOL 3	CHARLIE BETTIS	LE	CP 00756	Shallow 2	2	4	09	22S	37E	672999	3586863	*	
CP 00555	SAN 0	NORTHERN NATURAL GAS CO.	LE	CP 00555		2	2	14	22S	37E	676130	3586017	*	
CP 00581	SAN 3	NORTHERN NATURAL GAS CO.	LE	CP 00581	Shallow 2	2	2	14	22S	37E	676229	3586116	*	
CP 00199	PDL 3	LEO SIMS	LE	CP 00199	Shallow 2	4	2	14	22S	37E	676237	3585714	*	
CP 00674	DO 3 M	VERNA HUGHES	LE	CP 00674	Shallow	1	1	15	22S	37E	673316	3585967	*	
CP 00684	MUL 3	VERNA HUGHES	LE	CP 00684	Shallow	1	1	15	22S	37E	673316	3585967	*	
CP 00699	DO 3 M	MARTIN CARRASCO	LE	CP 00699	Shallow 1	1	1	15	22S	37E	673215	3586066	*	
CP 00675	DO 3 M	FRED FERBRACHE	LE	CP 00675		2	2	1	15	22S	37E	673817	3586073	*
CP 00662	DOL 3	GEORGE L SCHELLER	LE	CP 00662	Shallow 3	3	1	15	22S	37E	673223	3585464	*	
CP 00673	DO 0 M	MARY HUGHES	LE	CP 00673		2	2	15	22S	37E	674522	3585989	*	
CP 00709	DO 3 M	JAMES D. SMITH	LE	CP 00709	Shallow	1	3	15	22S	37E	673331	3585163	*	
CP 00679	DO 3 M	FRED FERBRACHE	LE	CP 00679	Shallow	3	3	15	22S	37E	673338	3584760	*	
CP 01006	DOL 0	HOLLIS PHIFER	LE	CP 01006 POD1		3	3	3	15	22S	37E	673923	3543803	
CP 00313	PLS 0	WILLIE P. SIMS	LE	CP 00313		3	3	3	15	22S	37E	673237	3584659	*
CP 00708	DOL 3	ROBERT A. CUETO	LE	CP 00708	Shallow			15	22S	37E	673941	3585363	*	
CP 00245	IND 64	VERSADO GAS PROCESSORS LLC	LE	CP 00245	Shallow 3	4	3	16	22S	37E	672031	3584637	*	
CP 00246	IND 53	VERSADO GAS PROCESSORS LLC	LE	CP 00246	Shallow 2	3	4	16	22S	37E	672633	3584845	*	

20S 38E



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y	Distance		
L 09819	L	DOM			DAN HARDIN	LE	L 09819							1	11	20S	38E	676107	3607524*	515
L 10708	L	DOM			3 ADRIAN ZAMORA	LE	L 10708			Shallow				1	11	20S	38E	676107	3607524*	515
L 09381	L	DOM			V. R. GROGAN	LE	L 09381				4	4	1	11	20S	38E	676407	3607229*	825	
L 00438 B	L	SRO			CONOCO, INC	LE	L 00438 POD12				1	3	3	02	20S	38E	675790	3608229*	835	
						LE	L 00438 POD13				1	3	3	02	20S	38E	675790	3608229*	835	
L 08437	L	STK			3 ALTON HOWSE	LE	L 08437				2	3	11	20S	38E	676315	3606927*	863		
L 09701	L	SAN			JIMMIE GROGAN	LE	L 09701				3	3	11	20S	38E	675921	3606517*	952		
L 10318	L	DOM			3 JO GROGAN	LE	L 10318			Shallow	3	3	11	20S	38E	675921	3606517*	952		
L 00438 A	L	SRO			CONOCO INC	LE	L 00438 POD10			Shallow	3	1	3	02	20S	38E	675783	3608432*	1032	
L 00438 B	L	SRO			CONOCO, INC	LE	L 00438 POD11			Shallow	3	1	3	02	20S	38E	675783	3608432*	1032	
L 04629	L	DOL			ILA GRACE HUGHES	LE	L 04629				3	02	20S	38E	676092	3608331*	1038			
L 10106	L	STK			3 HARLEY DEAN FRALEY	LE	L 10106			Shallow	4	3	3	11	20S	38E	676020	3606416*	1082	
L 09503	L	STK			RON ELLISON	LE	L 09503			Shallow	4	3	4	10	20S	38E	675215	3606402*	1084	
L 09985	L	DOL			CARL C. GREENWOOD	LE	L 09985				1	2	11	20S	38E	676702	3607740*	1146		
L 00438 A	L	SRO			CONOCO INC	LE	L 00438 POD8			Shallow	1	1	3	02	20S	38E	675783	3608632*	1230	
						LE	L 00438 POD9			Shallow	1	1	3	02	20S	38E	675783	3608632*	1230	
L 07559	L	EXP			CITY OF HOBBS	LE	L 07559 POD6			Shallow	2	1	3	02	20S	38E	675983	3608632*	1274	
L 13401	L	DOM			OSWALDO JUAREZ	LE	L 13401 POD1				2	1	4	03	20S	38E	675221	3608637*	1280	

*UTM location was derived from PLSS - see Help

(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)

WR File Nbr	Sub		Owner	County	POD Number	Code Grant	q q q				X	Y	Distance		
	basin	Use					Diversion	Source	6416	4				Sec	Tws Rng
<u>L 11168</u>	L	DOM	0 PETE RODRIGUEZ	LE	<u>L 11168</u>		4	4	3	11	20S	38E	676422	3606422*	1287
<u>L 07559</u>	L	EXP	0 CITY OF HOBBS	LE	<u>L 07559 POD1</u>	Shallow	4	2	3	02	20S	38E	676385	3608438*	1287
				LE	<u>L 07559 POD2</u>	Shallow	4	2	3	02	20S	38E	676385	3608438*	1287
				LE	<u>L 07559 POD7</u>	Shallow	4	2	3	02	20S	38E	676385	3608438*	1287
				LE	<u>L 07559 POD8</u>	Shallow	4	2	3	02	20S	38E	676385	3608438*	1287
				LE	<u>L 07559 POD11</u>	Shallow	1	2	3	02	20S	38E	676185	3608638*	1354
				LE	<u>L 07559 POD5</u>	Shallow	1	2	3	02	20S	38E	676185	3608638*	1354
				LE	<u>L 07559 POD10</u>	Shallow	2	2	3	02	20S	38E	676385	3608638*	1451
				LE	<u>L 07559 POD3</u>	Shallow	2	2	3	02	20S	38E	676385	3608638*	1451
				LE	<u>L 07559 POD4</u>	Shallow	2	2	3	02	20S	38E	676385	3608638*	1451
				LE	<u>L 07559 POD9</u>	Shallow	2	2	3	02	20S	38E	676385	3608638*	1451
<u>L 10656</u>	L	DOM	3 BILL D. HAZELWOOD ✓	LE	<u>L 10656 POD1</u>	Shallow	1	2	2	11	20S	38E	677003	3607845*	1464
				LE	<u>L 10656 POD2</u>	Shallow	1	2	2	11	20S	38E	677003	3607845*	1464
<u>L 08514</u>	L	DOM	3 KERRY EVANS ✓	LE	<u>L 08514</u>		4	1	1	14	20S	38E	676027	3606013*	1464
<u>L 13464</u>	L	EXP	0 TORO OPERATING	LE	<u>L 13464 POD1</u>		4	1	1	14	20S	38E	676031	3606010	1468
<u>L 03107</u>	L	PRO	0 VELMA PETROLEUM CORP.	LE	<u>L 03107</u>	Shallow				03	20S	38E	674886	3608704*	1474
<u>L 14058</u>		MON	0 ENERGY TRANSFER COMPANY REGENCY FIELD SERVICES LLC	LE	<u>L 14058 POD1</u>		2	3	4	11	20S	38E	676888	3606671	1485
<u>L 02170</u>	L	STK	3 P M PAYTON ✓	LE	<u>L 02170</u>	Shallow	4	2	03	20S	38E	675474	3608928*	1518	
<u>L 13398</u>	L	EXP	0 TORRO OPERATING	LE	<u>L 13398 POD1</u>	Shallow	4	1	1	14	20S	38E	676082	3605956	1535
				LE	<u>L 13398 POD2</u>		4	1	1	14	20S	38E	676082	3605956	1535
<u>L 09721</u>	L	DOM	3 RAMON ROBLEDO ✓	LE	<u>L 09721</u>	Shallow	2	2	11	20S	38E	677104	3607746*	1537	
<u>L 13464</u>	L	EXP	0 TORO OPERATING	LE	<u>L 13464 POD2</u>		4	1	1	14	20S	38E	676126	3605941	1563

*UTM location was derived from PLSS - see Help

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	(acre ft per annum)			Owner	County	POD Number	Code	Grant	q q q				X	Y	Distance		
	Sub basin	Use	Diversion						Source	6416	4	Sec				Tws	Rng
L 07670	L	STK	3	A C SCHRADER	LE	L 07670			1	1	2	14	20S	38E	676631	3606226*	1571
L 02066	L	DOM	3	A.H. HUGHES	LE	L 02066			1	1	4	02	20S	38E	676587	3608645*	1575
L 10726	L	STK	3	JESSE BAUTISTA	LE	L 10726		Shallow	2	4	11		20S	38E	677119	3606940*	1588

Record Count: 43

POD Search:

POD Basin: Lea County

UTMNAD83 Radius Search (in meters):

Easting (X): 675603

Northing (Y): 3607415

Radius: 1609

Sorted by: Distance

10 active PODs - Ogallala wells located north & east (see 11)

City of Hobbs wells
 POD # L07559 }

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

STATE ENGINEER OFFICE
WELL RECORD

137852

Section 1. GENERAL INFORMATION

(A) Owner of well Adrian Zamora Owner's Well No. _____
Street or Post Office Address 8000 S. Eunice Hwy.
City and State Hobbs, N.M. 88240

Well was drilled under Permit No. L-10,708 and is located in the:
a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 11 Township 20S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor George Glasspoole License No. WD-571

Address 601 W. Cope Place, Hobbs, N.M. 88242

Drilling Began 9-13-97 Completed 9-15-97 Type tools Cable Size of hole 8 $\frac{1}{2}$ "

Elevation of land surface or _____ at well is _____ ft. Total depth of well 67'

Completed well is shallow artesian. Depth to water upon completion of well 39'

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
39'	67'	28'	Water Sand	10 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 1/2"			+18"	67'	68' 6"		27'	67'

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0"	67'	8 1/2"	1 1/2	None	

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 09/24/97

Quad _____ FWL _____ FSL _____

File No. L-10,708 Use Domestic Location No. 20.38.11.11131

507909

✓

WELL RECORD

L-02061
Tr. # 505049

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well A. H. Hughes
 Street and Number 5 CAR 17 A.
 City Hobbs State N.M.
 Well was drilled under Permit No. L-20615 and is located in the
SE 1/4 SE 1/4 NE 1/4 of Section 2 Twp. 205 Rge. 3 SE
 (B) Drilling Contractor W. L. Fullington License No. W0124
 Street and Number 317 W. Fowler
 City Hobbs State N.M.
 Drilling was commenced 4-10 1958
 Drilling was completed 4-14 1958

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 106 ft
 State whether well is shallow or artesian SHALLOW Depth to water upon completion 5 2 ft

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	52	70	18	1st water sand
2	84	100	16	2nd water sand
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
1 1/2	14	Wildcat	0	116	116	Dr. Shoe	52	116

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY

Date Received _____

APR 23 1958

OFFICE OF GROUND WATER SUPERVISOR
 ROSWELL, NEW MEXICO

File No. L-2061-5 Use JM Location No. 20 38 2 244

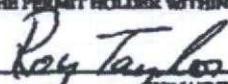
5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> SET <input checked="" type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY					
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)
FROM		TO				
	10	100	10	3/8 Fillmore	50	Hand

6. GEOLOGIC LOG OF WELL	DEPTH (FT)	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARD/NOT	
	FROM	TO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	6	3	3	Brown Dirt	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3	35	32	white caliche	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	35	50	15	light tan sand + sandstone	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	50	60	10	red sand + sandstone	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	60	68	8	hard white rock	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	68	98	30	Red sand + sandstone	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	98	100	2	Red clay/red bed.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> OTHER - SPECIFY:
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	
ADDITIONAL STATEMENTS OR EXPLANATIONS:		
Owner did well test.		

STATE ENGINEER
 2009 OCT 30 A
 54

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER	10-29-09 DATE

FOR ONE INTERNAL USE	WELL RECORD & LOG (Version 6/908)
FILE NUMBER 6-12455	POD NUMBER P001
LOCATION 20-38.02.212	TRN NUMBER 437450
	PAGE 1 OF 2

JOM/STK

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

Reclamation

(A) Owner of well City of Hobbs Owner's Well No. 6
Street or Post Office Address P.O. Box 1117
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7559 and is located in the:

a. $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ S₁ $\frac{1}{4}$ of Section 2 Township 20S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bors. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 5/76 Completed 6/76 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 80 ft.

Completed well is shallow artesian. Depth to water upon completion of well 43 $\frac{1}{2}$ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>43$\frac{1}{2}$</u>	<u>80</u>	<u>36$\frac{1}{2}$</u>	<u>Sand</u>	<u>37</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>6/5/8</u>	<u>15</u>	<u>Welded</u>	<u>0</u>	<u>80</u>	<u>80</u>	<u>15' stainless steel screen</u>	<u>65</u>	<u>80</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL 905 FSL 2620

File No. L-7559 Use Eval Location No. 20.38.2.31212

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	Soil
1	30	29	Caliche
30	40	10	Sand
40	52	12	Sand rock
52	76	24	Sand
76	80	4	Red clay
			L S Elev _____ 3580
			Depth to K _____ Trc 76
			Elev of K _____ Trc 3514
			Loc. No. 20. 38. 2. 31212
			Hydro. Survey _____ Field Check _____
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet <input checked="" type="checkbox"/> X
			Determined by Inct. Leveling _____
			Other _____

Section 7. REMARKS AND ADDITIONAL INFORMATION

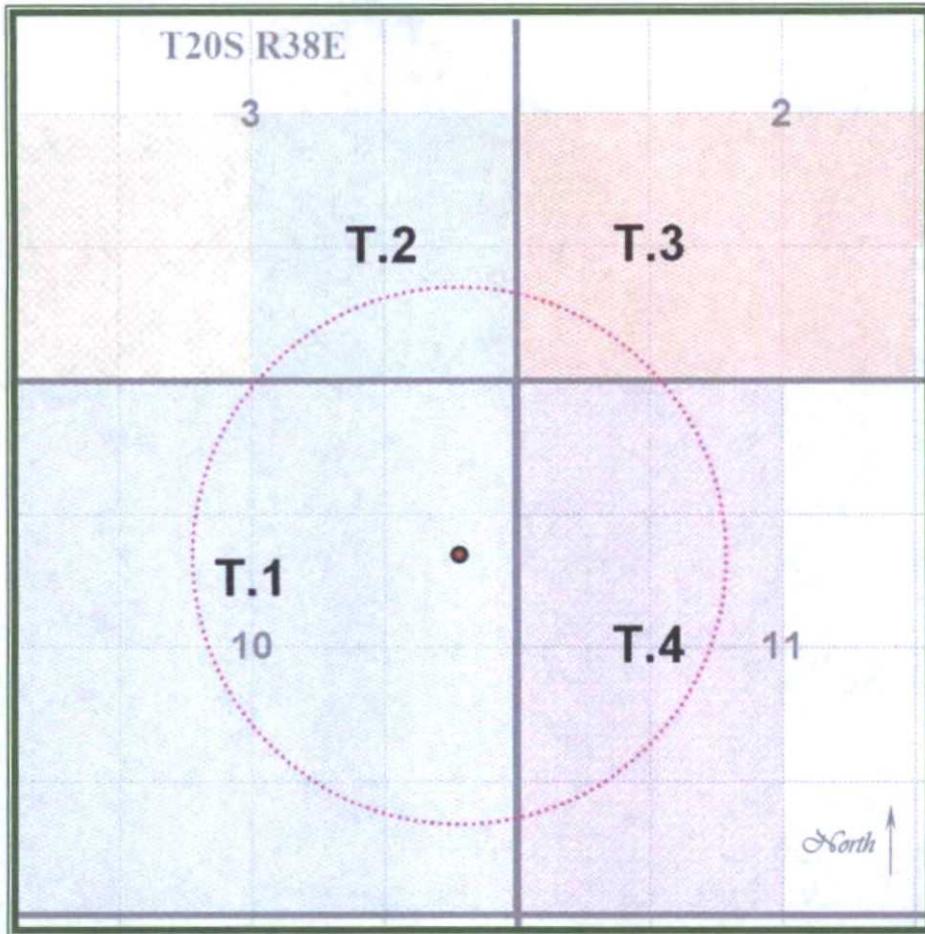
STATE ENGINEER OFFICE
 FOSTERVILLE, MISSOURI
 JUL 11 AM 10 44

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
 Driller N.B.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Mescalero SWD Well No.2 - Leasehold Plat
(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



LEGEND

- T.1 – Fee - McCasland Limited Partnership Lea I / Texas Southern Standard Oil Company, LLC
- T.2 – Fee – Apache Corporation
- T.3 – Fee – Apache Corporation, ConocoPhillips
- T.4 – Fee – Apache Corporation

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

- 1 McCASLAND LIMITED PARTNERSHIP I (USPS Certified Mail)
P.O. Box 205
Eunice, NM 88231

OFFSET MINERALS LESSEES, OPERATORS and SURFACE OWNERS (As applicable.)
(All Notified via USPS Certified Mail)

Fee Lease – McCasland Limited Partnership I (T.1 on attached plat.)

- Lessee*
- 2 Texas Southern Standard Oil Company, LLC
P.O. Box 2071
Midland, TX 79702

Fee Lease (T.2 on attached plat.)

- Lessee / Operator*
- 3 APACHE CORPORATION
303 Veterans Airpark Lane, Ste.3000
Midland, TX 79705

Fee Lease (T.3 on attached plat.)

- Lessees / Operators*
- APACHE CORPORATION
303 Veterans Airpark Lane, Ste.3000
Midland, TX 79705
- 4 CONOCO PHILLIPS
P.O. Box 7500
Bartlesville, OK 74005-7500

Fee Lease (T.4 on attached plat.)

- Lessee / Operator*
- APACHE CORPORATION
303 Veterans Airpark Lane, Ste.3000
Midland, TX 79705

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S. St. Francis Dr.
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
1625 S. French Drive
Hobbs, NM 88240



July 16, 2015

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail

To Whom It May Concern:

Mescalero Energy, LLC, Houston, Texas has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Mescalero SWD Well No.2. The proposed SWD will be for commercial operation available to area operators. As indicated in the notice below, the well is located in Section 10, Township 20 South, Range 38 East in Lea County, New Mexico.

The disposal interval will be through an openhole completion from 4600 feet to 5520 feet in the San Andres formation.

Following is the legal notice published in the Hobbs News-Sun, Hobbs, New Mexico on June 2, 2015.

LEGAL NOTICE

Mescalero Energy, LLC, 510 Bering Dr. Ste.430, Houston, TX 77057, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal its Mescalero SWD Well No.2. The undrilled well will be located 1723' FNL & 590' FEL in Section 10, Township 20 South, Range 38 East in Lea County, New Mexico. The commercial SWD well will be used to dispose of area produced water into the San Andres formation through an openhole interval from maximum top of 4600 feet to a maximum depth of 5520 feet. (This interval was selected to adequately protect offsetting interests.) Maximum injection pressure will be 920 psi with a maximum rate limited only by such pressure.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

Ben Stone, SOS Consulting, LLC
Agent for Mescalero Energy, LLC

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 0640 0007 9482 5158

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT <i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 345	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ 250	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ 49	
Total Postage and Fees \$ 674	
Sent To Street a MCCASLAND LTD PRTRNSHP I	
City, St P.O. Box 205	
Eunice, NM 88231	
PS Form	uctions

7015 0640 0007 9482 5165

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT <i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 345	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ 250	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ 49	
Total Postage and Fees \$ 674	
Sent To Street a TEXAS SOUTHERN STANDARD	
City, St OIL COMPANY, LLC	
P.O. Box 2071	
Midland, TX 79702	
PS Form	uctions

7015 0640 0007 9482 5141

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT <i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 345	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ 250	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ 49	
Total Postage and Fees \$ 674	
Sent To Street a APACHE CORPORATION	
City, St 303 Veterans Airpark Lane, Ste. 3000	
Midland, TX 79705	
PS Form	ctions

7015 0640 0007 9482 5301

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT <i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 345	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ 250	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ 49	
Total Postage and Fees \$ 674	
Sent To Street a CONOCO PHILLIPS	
City, St P.O. Box 7500	
Bartlesville, OK 74005-7500	
PS Form	uctions

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

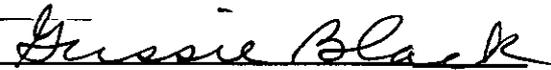
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 02, 2015
and ending with the issue dated
June 02, 2015.



Publisher

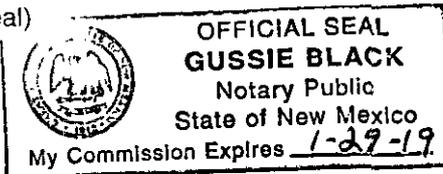
Sworn and subscribed to before me this
2nd day of June 2015.



Business Manager

My commission expires
January 29, 2019

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE June 2, 2015

Mescalero Energy, LLC, 510 Bering Dr. Ste. 430, Houston, TX 77057, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal its Mescalero SWD Well No. 2. The undrilled well will be located 1723' FNL & 590' FEL in Section 10, Township=20 South, Range 38 East in Lea County, New Mexico. The commercial SWD well will be used to dispose of area produced water into the San Andres formation through an openhole interval from maximum top of 4600 feet to a maximum depth of 5520 feet. (This interval was selected to adequately protect offsetting interests.) Maximum injection pressure will be 920 psi with a maximum rate limited only by such pressure.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us, #30073

67104420

00157417

BEN STONE
SOS CONSULTING, LLC.
P.O. BOX 300
COMO, TX 75431



July 21, 2015

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Mr. David Catanach, Director

Re: Application of Mescalero Energy, LLC to permit for salt water disposal the proposed well Mescalero SWD No.2 well located in Section 10 Township 20 South, Range 38 East, NMPM, Lea County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to covert for disposal, the Mescalero SWD Well No.2.

Mescalero Energy seeks to create additional solutions for disposal in various locations in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the June 2, 2015 edition of the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. The legal notice affidavit is also included and the application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on private land and minerals.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in black ink, appearing to read 'Ben Stone', is written over a white background.

Ben Stone, Partner
SOS Consulting, LLC
Agent for Mescalero Energy, LLC

Cc: Application attachment and file



C-108 Review Checklist: Received 07/29/15 Add. Request: No bond in place; surface casing redesign (1) Reply Date: _____ Suspended: _____ (Ver 16)

ORDER TYPE: WFX / PMX / SWD Number: 1606 Order Date: 12/29/15 Legacy Permits/Orders: NA

Well No. 2 Well Name(s): (Mescalero) SWD * [changed to: McCaslands SWD] (San Andres completion)

API: 30-0 25-Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 1723 FNL Lot — or Unit H Sec 10 Tsp 20S Rge 38E County Lea

General Location: 5 1/2 miles south of Hobbs Pool: SWD; San Andres Pool No.: 96121

BLM 100K Map: Hobbs Operator: Mescalero Energy, LLC OGRID: 370198 Contact: Ben Stone
SES Consulting

COMPLIANCE RULE 5.9: Total Wells: 0 Inactive: 0 Fincl Assur: Blanket Bond in place following notice Compl. Order? IS 5.9 OK? Yes Date: 12/29/15

WELL FILE REVIEWED Current Status: No APD or well file

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: NA

Planned Rehab Work to Well: New well

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Surface	<u>12 1/4 / 9 5/8</u>	<u>0 to 1250</u>	<u>050</u>	<u>Cir. to surf</u>
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Intern/Prod	<u>8 1/8 / 7</u>	<u>0 to 4600</u>	<u>775</u>	<u>Cir. to surface</u>
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Intern/Prod	—	—	—	—
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Prod/Liner	—	—	—	—
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Liner	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> OH/PERF	—	<u>4600 to 5520</u>	<u>920'</u>	—

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.	—	<u>Queen</u>	<u>~3700</u>	Drilled TD <u>5520'</u> PBSD <u>—</u>
Confining Unit: Litho. Struc. Por.	<u>~300'</u>	<u>Grayberg</u>	<u>~4000</u>	NEW TD <u>—</u> NEW PBSD <u>—</u>
Proposed Inj Interval TOP:	<u>4600</u>	<u>San Andres</u>	<u>~4300</u>	NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>5520</u>	—	—	Tubing Size <u>4 1/2</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.	<u>~90</u>	<u>Glorieta</u>	<u>~5600</u>	Proposed Packer Depth <u>2450'</u> ft
Adjacent Unit: Litho. Struc. Por.	—	<u>Blinberry</u>	—	Min. Packer Depth <u>4500</u> (100-ft limit)
AOR: Hydrologic and Geologic Information				Proposed Max. Surface Press. <u>920</u> psi
				Admin. Inj. Press. <u>920</u> (0.2 psi per ft)

POTASH: R-111-P NA Noticed? — BLM See Ord NA WIPP NA Noticed? — Salt/Salado T: — B: — NW: Cliff House fm NA

FRESH WATER: Aquifer Ogallala & Rustler Max Depth ~100' < 1200' HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Lea CAPITAN REEF: thru — adj. NA No. GW Wells in 1-Mile Radius? 10 FW Analysis? Yes

Disposal Fluid: Formation Source(s) Blue Spring / Tubb / Drinkwater / Blinberry Analysis? Yes On Lease Operator Only or Commercial

Disposal Interval: Inject Rate (Avg/Max BWPD): — Protectable Waters: low probability Area prod. System: Closed or Open

HC Potential: Producing Interval? Potential Formerly Producing? No Method: Logs/DST/P&A/Other New Drill 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 8 Horizontals? No

Penetrating Wells: No. Active Wells 7/6 Num Repairs? 0 on which well(s)? 30-025-01761 Diagrams? No

Penetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? 30-025-35916 30-025-20402 Diagrams? Yes

NOTICE: Newspaper Date 06/02/2015 Mineral Owner Private Surface Owner Private N. Date 7/20/15

RULE 26.7(A): Identified Tracts? Yes Affected Persons: Apache / ConocoPhillips / Texas Southern N. Date 7/20/15

Order Conditions: Issues: water quality; HC potential; surface casing not tied to Rustler

Add Order Cond: Applicant to re-design surface casing; mudlog & salinity calc/water sample

WELL LOGS

API number:	30-025-35996		
OGRID:		Operator:	CAPATAZ OPERATING INC
		Property:	HAV-A-TAMPA # 1

surface	ULSTR: I	10	T 20S	R 38E
		2140	FSL	330 FEL

BH Loc	ULSTR: I	10	T 20S	R 38E
		2140	FSL	330 FEL

Ground Level:	3597	DF:	3614	KB:	3615
Datum:	KB			TD:	

Land: FEE	Completion Date: (1) NA
	Date Logs Received: 7/2/2003
	Date Due in: (2)

Confidential:	NO		Date out:	
---------------	-----------	--	-----------	--

Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval	
TD LD CN/GR	200 7718	Three Detector Litho-Density
HRLA	4000 7731	High Resolution Laterolog

OCD TOPS

Rustler	1627	Strawn		
Tansill	2770	Atoka		
Yates	2888			
7 rvs	3146			
T. Bowers Sd	3460			
B. Bowers Sd	3549			
Queen	3714			
Qu: Penrose Sd				
Grayburg	3944			
San Andres	4304	(-707)		
Glorieta	5607	(-2010)		
Paddock				
Blinbry	6051			
Tubb	6600			
Drinkard	6880			
Abo	7197			

WELL LOGS

K z

API number:	30-025-39489		
OGRID:	Operator:	APACHE CORP	
	Property:	MAGNOLIA	# 3

surface.	ULSTR:	E	11	T	20S	R	38E
			2260	FNL		330	FWL

BH Loc	ULSTR:	E	11	T	20S	R	38E
			2260	FNL		330	FWL

Ground Level:	3524	DF:	3534	KB:	3535
Datum:	KB			TD:	7362

Land: FEE

Completion Date: (1) 11/25/2009
 Date Logs Received: 11/16/2009
 Date C105 Received: 12/10/2009
 Date Logs Due in: (2) 12/15/2009

Confidential:	NO	Date out:	
---------------	----	-----------	--

Confidential period: 90 Days for State & Fee, 1 Year for federal

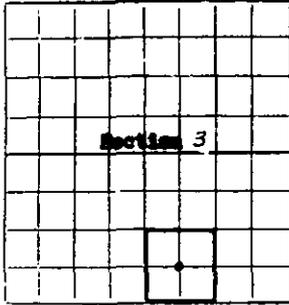
Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
MPD/MDN	100	7317	Compensated Neutron Photo Density GR
MLE/MMR	1598	7335	Dual Laterolog Micro Laterolog
MSS	1598	7361	Compensated Sonic Gamma Ray Log
	1598	7294	Spectral Gamma Ray
	1598	7317	Borehole Profile

K z

OCD TOPS

Rustler	1593	Strawn		
Tansill	2736	Atoka		
Yates	2870	Morrow		
7R	3127			
T. Bowers Sd	3445			
B. Bowers Sd	3521			
Queen	3692			
Penrose				
Grayburg	4043			
San Andres	4282	(-158)		
Glorieta	5586	(-2062)		
Tubb	6536			
Drinkard	6838			
Abo	7137			
Wolfcamp				



NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

OFFICE O. C. C.
APR 28 10 24 AM '64

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

AREA 40 ACRES
LOCATE WELL CORRECTLY
Standard Oil Company of Texas
A Division of California Oil Company
(Company or Operator)

Merile Payton
(Lessee)

Well No. 1 in SW 1/4 of SE 1/4 of Sec. 3 T. 20 South, R. 30 East, NMPM.
Undesignated - Wildcat Pool, Los County.
Well is 660 feet from South line and 1900 feet from East line of Section 3. If State Land the Oil and Gas Lease No. is --.
Drilling Commenced November 26, 1963 Drilling was Completed January 7, 1964.
Name of Drilling Contractor Hoble Drilling Corporation
Address P. O. Drawer 520, Midland, Texas
Elevation above sea level at Top of unconsolidated Surface Casings 3573'. The information given is to be kept confidential until Not Confidential, 19---.

OIL SANDS OR ZONES

No. 1, from None to --- No. 4, from --- to ---
No. 2, from --- to --- No. 5, from --- to ---
No. 3, from --- to --- No. 6, from --- to ---

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from --- to --- feet.
No. 2, from --- to --- feet.
No. 3, from --- to --- feet.
No. 4, from --- to --- feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13-3/8	484	New	360	Guide	None	None	Surface String
8-5/8	324	Revert	4500	Float	2500'	None	Intermediate String

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2"	13-3/8	360	400	Pump & Plug	--	--
11"	8-5/8	4500	800	Pump & Plug	--	--
7-7/8"	--	--	--	--	--	--

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gal. used, interval treated or shot.)

No commercial production indicated. 13-3/8", 484/ft., H-40, STNC new casing at 360', - left in hole. 8-5/8", 324/ft., J-55, STNC new casing left 2000' (2500-4500') in hole. Spotted 25 ex. cement plugs at 9915', 9304', 8099', 7295', 6609', 5617', 75 ex. cement plug at 4268'. Cut off 8-5/8" casing at 2704'. Spotted 25 ex. cement plug at 2704'. ~~XXXXXXXXXXXXXXXXXXXX~~ Could not pull casing. Cut casing at 2300'. Pulled 2300' 8-5/8" casing. Spotted 25 ex. cement plugs at 2518', 1646', 372', and 10 ex. cement plug (20'-Surface). Installed dry hole marker & cleared --- Depth Cleaned Out --- location. Well plugged & abandoned 4-21-64.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from Surface feet to T.D. (9915') feet, and from _____ feet to _____ feet.
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

PRODUCTION

Put to Producing Dry Hole, 19____

OIL WELL: The production during the first 24 hours was _____ barrels of liquid of which _____ % was
 was oil; _____ % was emulsion; _____ % water; and _____ % was sediment. A.P.I.
 Gravity _____

GAS WELL: The production during the first 24 hours was _____ M.C.F. plus _____ barrels of
 liquid Hydrocarbon. Shut in Pressure _____ lbs.

Length of Time Shut in _____

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy. 1686 (+1965)	T. Devonian 9894 (-5693)	T. Ojo Alamo _____	T. Kirtland-Fruitland _____
T. Salt 1710 (+1881)	T. Silurian _____	T. Farmington _____	T. Pictured Cliffs _____
B. Salt 2795 (+ 796)	T. Permian 9875 (-5884)	T. Menefee _____	T. Point Lookout _____
T. Yates 2937 (+ 654)	T. Simpson _____	T. Mancos _____	T. Dakota _____
T. 7 Rivers 3800 (+ 391)	T. McKee _____	T. Morrison _____	T. Penn _____
T. Queen 3775 (- 184)	T. Ellenburger _____	T. _____	T. _____
T. Grayburg _____	T. Gr. Wash _____	T. _____	T. _____
T. San Andres 4369 (- 778) ✓	T. Granite _____	T. _____	T. _____
T. Glorieta 5671 (-2080) ✓	T. _____	T. _____	T. _____
T. Drinkard _____	T. _____	T. _____	T. _____
T. Tubbs 6661 (-3070)	T. _____	T. _____	T. _____
T. Abo 7265 (-2674)	T. _____	T. _____	T. _____
T. Penn. Strawn 8137 (-4546)	T. _____	T. _____	T. _____
T. Miss _____	T. _____	T. _____	T. _____

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	1686	1686	Sand & redbeds				
1686	1708	82	Anhydrite				
1708	2793	1085	Salt, anhydrite & redbeds				
2793	2937	144	Dolomite, anhydrite & redbeds				
2937	3090	113	Sand, red shale & sandstone				
3090	4100	1090	Anhydrite, dolomite, shale occasional sand.				
4100	4369	269	Dolomite, trace shale				
4369	5671	1302	Dolomite				
5671	7265	1594	Dolomite, trace lime stone and sand				
7265	8100	835	Dolomite, limestone & shale				
8100	8137	37	Light green & variegated shale				
8137	8290	113	Limestone, scattered shale				
8290	8305	55	Gray & red shale, shaly limestone.				
8305	8632	327	Dolomite & limestone				
8632	8715	83	Variegated shale, shaly limestone				
8715	8928	213	Cherty limestone				
8928	9284	356	Dark gray to black shale				
9284	9380	96	Limestone				
9380	9890	510	Dolomite, scattered chert				
9890	9915	25	Chert and dolomite				
	T.D.						

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Standard Oil Company of Texas, A Division _____ April 27, 1964 _____ (Date)
 Company or Operator of California Oil Company Address Drawer "B", Mesquite, Texas
 Name J. S. Haring G. G. Haring Position or Title Lead Engineer

Goetze, Phillip, EMNRD

From: Ben Stone <ben@sosconsulting.us>
Sent: Tuesday, December 08, 2015 8:43 AM
To: Goetze, Phillip, EMNRD
Subject: Re: Just checking - Mescalero No.2...

Phillip,

Also, Robert McCasland, the landowner, decided he wants his name on the well after all. Since this well is proposed and this order would be the first official thing with the well name, can you issue the permit as the McCasland SWD No.2?

When I submit the C-101, it will be with this name and everything would be copacetic without having to submit changes after the fact.

Let me know and thanks,
Ben

Ben Stone

Tuesday, December 08, 2015 9:10 AM

Hello Phillip,

Just checking back as requested...

Thanks,
Ben

San Jose



Ph. 903.488.9850 Fax 866.400.7628

P.O. Box 300 - Como, TX 75431

Visit us on the web at sosconsulting.us

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Goetze, Phillip, EMNRD

From: Ben Stone <ben@sosconsulting.us>
Sent: Friday, November 13, 2015 7:40 AM
To: Goetze, Phillip, EMNRD
Subject: Mescalero SWD No.2 bonding...

Good morning Phillip,

I believe that the bond has been posted for the subject well.

I appreciate you checking the status to see when that permit might be issued.

Thanks and have a good weekend.

Ben



Ph. 903.488.9850 Fax 866.400.7628

P.O. Box 300 - Como, TX 75431

Visit us on the web at sosconsulting.us

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reply to the sender that you wrongly received the message; then please delete this email. Thank You.

Goetze, Phillip, EMNRD

From: Gallegos, Denise, EMNRD
Sent: Thursday, October 15, 2015 11:35 AM
To: Goetze, Phillip, EMNRD
Subject: RE: Mescalero Energy - Bond Info

Yes, the OGRID# is 370198. They have no bond on file and no wells.

*Thank you,
Denise A. Gallegos
Bond Administrator
Oil Conservation Division
Energy, Minerals & Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Office: 505.476.3453
Fax: 505.476.3462*

From: Goetze, Phillip, EMNRD
Sent: Thursday, October 15, 2015 11:25 AM
To: Gallegos, Denise, EMNRD
Subject: Mescalero Energy - Bond Info

As usual, I have a friend I can't find. What do you have (bond and OGRID) for these folks:

Mescalero Energy, LLC
510 Bering Dr., Suite 430
Houston TX 77057
Contact: Ricci Susong

When you can. PRG

Phillip R. Goetze, PG
Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



Ben Stone



Ph. 903.488.9850 Fax 866.400.7628

P.O. Box 200, Commerce, TX 75421

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Ben Stone

Thursday, October 15, 2015 1:23 PM

Hey Phillip,

I went back and looked at the well design. I had based that on

looking at several of the Apache Magnolia wells in the AOR. The Magnolia No.4 just to the NE of this proposed well has the surface casing at 1223' - and some of the others nearby are very similar. That's why I used 1250'.

Since we have not submitted the C-101 yet, do you have a recommendation for the depth?

Thanks,
Ben

Goetze, Phillip, EMNRD

Thursday, October 15, 2015 12:40 PM

Ben:

An additional item: your client (Mescalero Energy LLC; OGRID 370198) does not have a bond in place. They need to have the financial assurance in place prior to approval of any order. And one more additional item for the order - the surface casing for the well needs to be extended to the top of Rustler. PRG

Phillip R. Goetze, PG

Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



From: Ben Stone [<mailto:ben@sosconsulting.us>]
Sent: Thursday, October 15, 2015 7:59 AM
To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Mescalero SWD No.2....

Hello Phillip,

Goetze, Phillip, EMNRD

From: Ben Stone <ben@sosconsulting.us>
Sent: Thursday, October 15, 2015 2:00 PM
To: Goetze, Phillip, EMNRD
Cc: Jones, William V, EMNRD
Subject: Re: Mescalero SWD No.2....Round Two

Thanks Phillip,

I didn't mean to take up any of your time on this - I'll redo the wellbore proposed design with casing to 1650'.

Also, Mescalero is working on their bond, should have that into Denise next week.

Thanks,
Ben

Goetze, Phillip, EMNRD

Thursday, October 15, 2015 2:39 PM

Ben:

You are correct with the construction of the Magnolia #4. This occurrence is also found in another of Apache's Yeso wells, the Merlot No. 4. Both have surface casing settings that are approximately 300 plus feet shy of the Rustler.

	Well Name	API Number	Surface Casing Setting Depth (ft.)	Top of Rustler (ft.)
Wells Within AOR (1/2-mile radius)	Hav-A-Tampa No. 1	30-025-35996	1635	1627
	Magnolia No. 3	30-025-39489	1600	1593
	Magnolia No. 1	30-025-38660	1610	1571
	Magnolia No. 4	30-025-39969	1223	1594
	Merlot No. 2	30-025-38700	1594	1563
	Merlot No. 1	30-025-38370	1625	1561
	Arnold A No. 2	30-025-39490	1608	1558
	Arnold A No. 1	30-025-07761	Two casings set to Rustler top	
Wells Adjacent to	L & M No. 2	30-025-39450	1609	1572
	Merlot No. 4	30-025-39968	1232	1548

AOR (East towards Apache's Yeso play in Section 11)	Merit II No. 1	30-025-35448	1633	1540
	Dukes No. 2	30-025-40022	1684	1563
	Picayune No. 1	30-025-34734	1630	1536
	Merlot No. 3	30-025-39458	1567	1543
	Merlot No. 2	30-025-38700	1594	1563

However, 12 of the 14 wells surveyed in the area of the proposed SWD well (or 86%) have a tie of the surface casing with the Rustler. It will be my recommendation in the order that the configuration of the surface casing extending into Rustler should be continued, unless you have some information to support the shallower setting. PRG

Phillip R. Goetze, PG

Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



From: Ben Stone [<mailto:ben@sosconsulting.us>]
Sent: Thursday, October 15, 2015 12:23 PM
To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Re: Mescalero SWD No.2....Round Two

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Since we have not submitted the C-101 yet, do you have a recommendation for the depth?

Thanks,
Ben

Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Thursday, October 15, 2015 1:40 PM
To: 'Ben Stone'
Cc: Jones, William V, EMNRD
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	Merlot No. 1	30-025-38370	1625	1561
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	Arnold A No. 1	30-025-07761	Two casings set to Rustler top	
Wells Adjacent to AOR (East towards Apache's Yeso play in Section 11)	L & M No. 2	30-025-39450	1609	1572
	<i>Merlot No. 4</i>	<i>30-025-39968</i>	<i>1232</i>	<i>1548</i>
	Merit II No. 1	30-025-35448	1633	1540
	Dukes No. 2	30-025-40022	1684	1563
	Picayune No. 1	30-025-34734	1630	1536
	Merlot No. 3	30-025-39458	1567	1543
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Phillip R. Goetze, PG
Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



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Thanks,
Ben

Goetze, Phillip, EMNRD

Thursday, October 15, 2015 12:40 PM

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An additional item: your client (Mescalero Energy LLC; OGRID 370198) does not have a bond in place. They need to have the financial assurance in place prior to approval of any order. And one more additional item for the order - the surface casing for the well needs to be extended to the top of Rustler. PRG

Phillip R. Goetze, PG
Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



From: Ben Stone [<mailto:ben@sosconsulting.us>]
Sent: Thursday, October 15, 2015 7:59 AM
To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Mescalero SWD No.2....

Hello Phillip,

I wanted to check on the Mescalero No.2 again. This one was not protested and as a matter of fact, as Apache will be one of the primary clients, Apache is asking when we think this well might be going.

Any info is appreciated.

Thanks,
Ben

Ken Jones



Ph. 903.488.9850 Fax 866.400.7628

P.O. Box 300 - Compt. TX 75431

Visit us on the web at sosconsulting.us

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