

DATE 9/11/24	SUSPENSE	ENGINEER <i>RLG</i>	LOGGED IN 9/01/2017	TYPE WFX	APP NO. PM4M1724455072
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



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.

Ben Stone
 Print or Type Name

Signature

Agent for Sundown Energy, LP

Title
 ben@sosconsulting.us
 e-mail Address

8/31/17

Date

WFX
 - Sundown Energy, L.P.
 232611
 Well
 - Reeves Queen
 WK#6
 2011 SEP - 1 P 1:33
 RECEIVED OGD
 30-025-
 03/27
 Pool
 - Reeves Queen
 52070



August 31, 2017

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

Attn: Mr. David Catanach, Director

Re: Application of Sundown Energy, LP to convert to injection its Reeves Queen Waterflood Unit Well No.3, API No.30-025-03127 located in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico.

Dear Mr. Catanach,

Please find enclosed the form C-108; Application for Authority to Inject, supporting the above-referenced request to authorize injection authority for this well. The Reeves Queen Waterflood Unit authorization of two original injection wells was permitted by R-13785 on January 21, 2014.

Sundown Energy, LP seeks to optimize efficiency, both economically and operationally, of its assets. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights. Sundown anticipates that the conversion of the No.3 well will enhance production and improve efficiency of the unit.

Of particular note, the applicant is requesting a maximum surface injection pressure of 1200 psi based on step-rate tests conducted on the existing 2 injection wells. Those wells were approved for 1350 psi and 1200 psi by IPI-492 on August 15, 2015. (The 0.2 psi/ft standard gradient would have allowed 886 psi.) Details are included in this application.

Published legal notice will run in the September 1, 2017 edition of the Hobbs News-Sun. Sundown is the operator of record for the unit and 3 offset operators were noticed. Some updated maps and diagrams are included in this application for clarity, and this well's AOR brought in 4 additional wells in the area of review; those well construction details are tabulated.

The well is located on state land and minerals and a copy of this application has been submitted to the State Land Office, Oil & Gas Division.

I respectfully request that approval for this injection authority 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 Sundown Energy, LP

Cc: Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Waterflood Expansion** and the application *qualifies* for administrative approval.
- II. OPERATOR: **Sundown Energy, LP (Ogrid - 232611)**
ADDRESS: **16400 Dallas Parkway, St 100, Dallas, TX 75248**

CONTACT PARTY: **Ralph Butler (214) 368-6100**
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 an expansion of an existing project. (Previously permitted by R-13785.)**
- 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. **PREVIOUSLY SUBMITTED** - A tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. *The data includes* a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. **4 Additional Wells; 1 active, 3 P&A - Data ATTACHED.**
- VII. Attach data on the proposed operation, including: **Included on following C-103 Narrative.**
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. **PREVIOUSLY SUBMITTED**
- IX. Describe the proposed stimulation program, if any. **The well may be acidized when converted to injection.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **PREVIOUSLY SUBMITTED**
- *XI. **State Engineer's records indicate there are 3 water wells within one mile the proposed injection well. All data PREVIOUSLY SUBMITTED.**
- 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. **"Proof of Notice" section on the next page of this form has been completed and ATTACHED. Affected parties have not changed. Legal Notice was published 9/01/17 in the Hobbs News-Sun.**
- 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 Sundown Energy, LP.**

SIGNATURE: _____

DATE: **8/30/2017**

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 for the Bobbi State WF Unit No.6 are ATTACHED and includes:*

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 *Note: The APPLICANT is the operator of record for subject unit. Offset operators were noticed and Published Legal Notice was made. No other offset affected parties are due notice for application.*

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.

C-108 - APPLICATION FOR AUTHORIZATION TO INJECT

Sundown Energy, LP Reeves Queen Waterflood Unit Well No.3 30-025-03127

- I. This application is being submitted to expand the previously authorized waterflood unit and improve the efficiency of the waterflood project.

The Reeves Queen Waterflood Unit and the original two injection wells were authorized on January 21, 2014 by R-13785 (unitization R-13786), Case File No.15048 (waterflood) and No.15055 (unitization). The RQWFU Nos.1 and 2 are currently active injection wells and so designated. Injection authorization for the No.3 well is anticipated to enhance production and increase efficiency.

This application qualifies for administrative approval.

- II. ***ALL operator data is shown previously and throughout.***
- III. ***ALL well data has been submitted*** – no interval changes to the well are proposed. The ‘Current’ and ‘Proposed’ wellbore diagrams are included.
- IV. This request is an expansion of the original project as authorized by R-13785.
- V. An updated One-Half Mile Area of Review Map is attached. The current AOR includes ***4 additional wells***; 1 active and 4 plugged and abandoned.
- VI. A tabulation of well construction data for the ***4 additional wells*** is included herein.
- VII. ***Data on the proposed operation has been previously submitted***, but is shown here for clarity including:
1. The well is expected to inject between 100 and 200 bwpd;
 2. The system is closed;
 3. The default injection pressure of 0.2 psi/ft would allow for a surface injection pressure of 866 psi however; RQWFU well nos.1 and 2 had step-rate tests performed in June, 2015.
The results allowed for pressures of 1200 psi on well no.1 and 1350 psi on well no.2. Sundown therefore requests an allowable maximum injection pressure of 1200 psi;
 4. Produced water from the lease and some make up water (also from on-lease water well) as required; all applicable water data was previously submitted and approved; and,
 5. Injection will be into the Reeves; Queen Pool (52070) as authorized for secondary recovery.
- VIII. ***All Geologic Data has been previously submitted*** and approved.
- IX. A routine small acid job may be performed to clean the perforations and formation wall..

C-108 - APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

**Sundown Energy, LP
Reeves Queen Waterflood Unit Well No.3
30-025-03127**

- X.** Logs are on file with the Division and were presented for project initialization.
- XI.** Water analysis for 1 water well was submitted previously.
- XII.** Applicant stated during hearing testimony that seismic data indicated no evidence of open faults or any other hydrologic connection between the injection zone and any underground sources of drinking water.
- XIII.** **Legal notice** was published for this application in the Hobbs News-Sun on September 1, 2017. No offset notification was required for the unitized tracts operated by Sundown Energy, LP. A copy of this application was submitted to the NM State Land Office, Oil & Gas Division via Fed Ex. The original lease plat is included with this application. 3 current offset operators were noticed via U.S. Certified Mail.
- XIV.** The application has been signed and dated.



CURRENT WELL CONFIGURATION



Reeves Queen WF Unit Well No.3

API 30-025-03127

660' FSL & 660' FWL, SEC. 22-T18S-R35E
LEA COUNTY, NEW MEXICO

Spud Dt: 5/02/1958

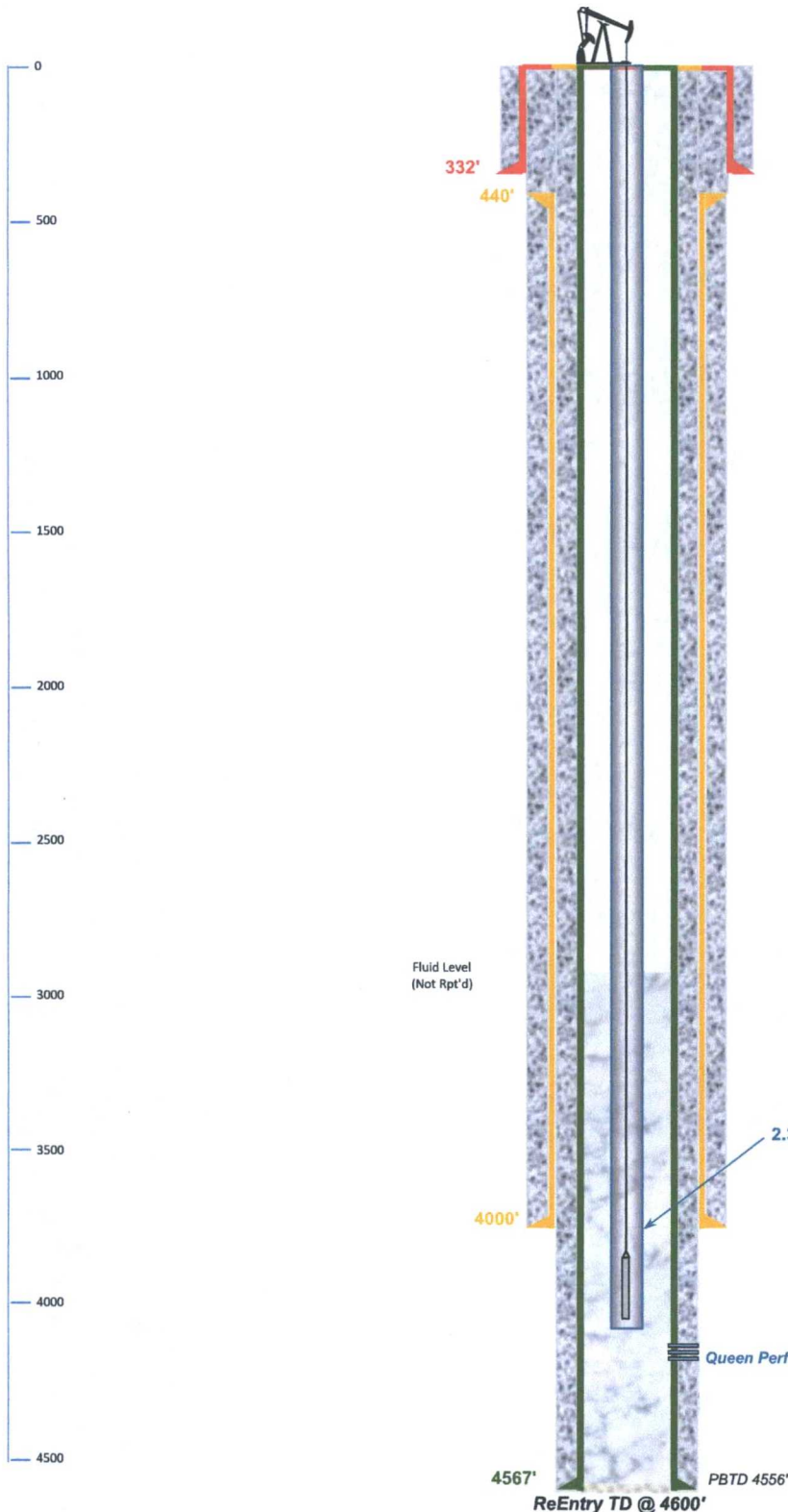
P&A Date: 8/07/1958

ReEntry Date: 1/17/1990

Oil Producer on Pump

Volumes Reported on C-115

AVG Production 2015-17 = < 1 bopd



Surface Casing

13.375" Csg. (17.0" Hole) @ 332'

400 sx Class 'C' - Circulated

Intermediate Casing

9.625" Csg. (12.25" Hole) @ 440' - 4000'

1650 sx Class 'C' - Circulated.

2.375" Tubing & Rods

Tubing @ 4406'

Production Liner

4.5" 10.5# Lnr. (7.875" Hole) @ 4567'

1280 sx 'C' - Circulated 150 sx

Queen Perfs: 4432'-4450'

ReEntry TD @ 4600'

PBT D 4556'

Drawn by: Ben Stone, 8/30/2017



C-108 - Item III - Well Data

CURRENT WELL CONFIGURATION



Reeves Queen WF Unit Well No.3

API 30-025-03127

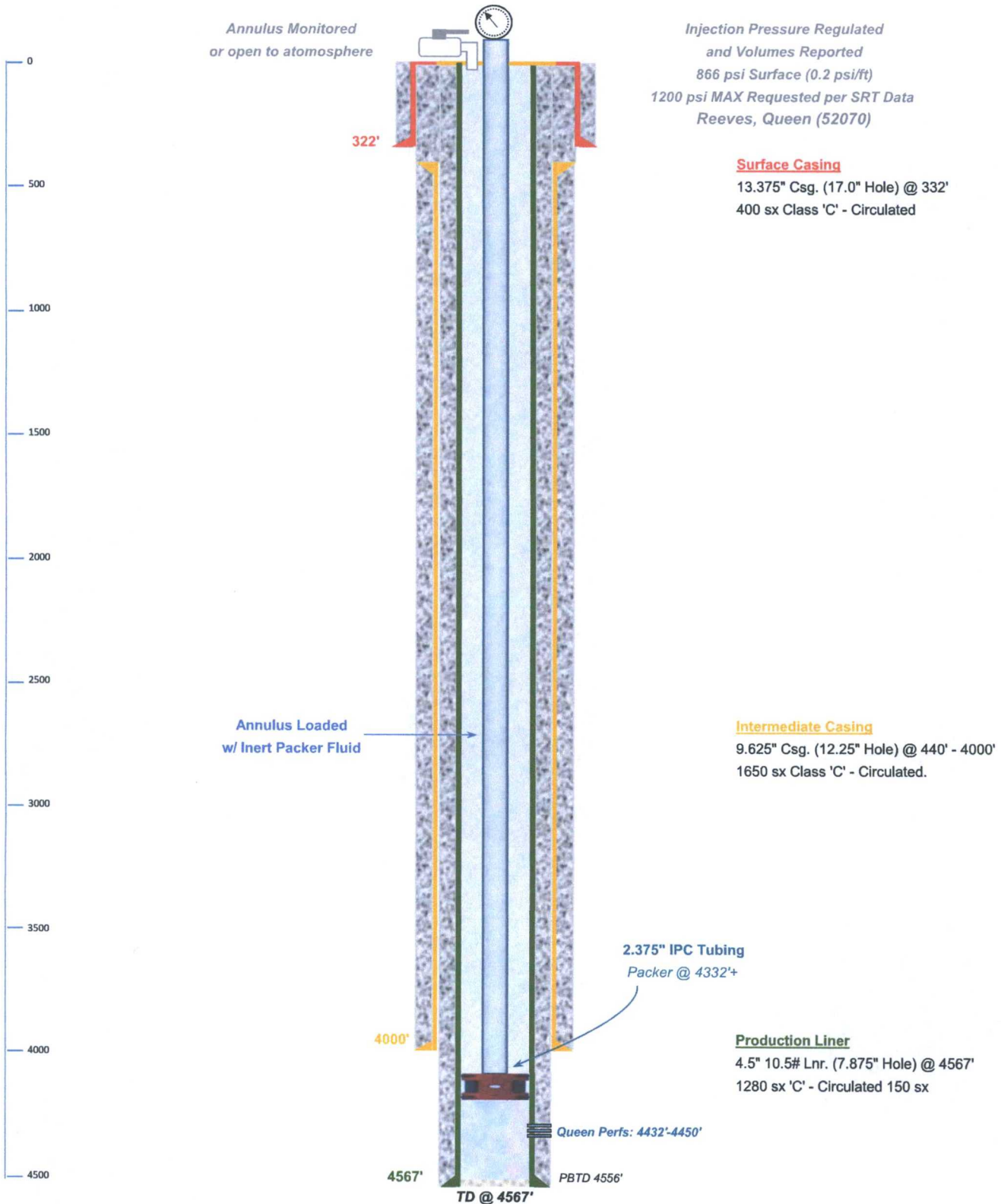
660' FSL & 660' FWL, SEC. 22-T18S-R35E
LEA COUNTY, NEW MEXICO

Spud Dt: 5/02/1958

P&A Date: 8/07/1958

ReEntry Date: 1/17/1990

Inj. Date: ~10/01/2017



Drawn by: Ben Stone, 8/30/2017.



SOS Consulting, LLC

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



Administrative Order IPI-492
August 10, 2015

Mr. Daniel Hunter
Sundown Energy, LP
16400 Dallas Parkway, Suite 100
Dallas, TX 75248

RE: Injection Pressure Increase
Injection Permit: Order No. R-13785
Reeves Queen Waterflood Project
Reeves; Queen Pool (Code 52070)
30-025-29340 and 30-025-29526

Dear Mr. Hunter:

Reference is made to your request on behalf of Sundown Energy, LP (OGRID 232611) received by the Division on June 24, 2015, to increase the maximum allowed surface tubing pressure on the referenced wells.

These wells were permitted by the Division for injection into the Queen formation within the Reeves Queen Waterflood Project by Division Order No. R-13785 approved January 21, 2014.

Based on step-rate tests for these wells through 2 $\frac{3}{8}$ -inch tubing, you are hereby authorized to inject at the following maximum surface tubing pressure:

API No.	Well No.	ULSTR	SRT Test Date	Maximum Injection Pressure	Pressure Gradient (in psi/ft)
30-025-29340	Reeves Queen Waterflood Unit Well No. 1	A-28-18S-35E	6/17/2015	1200 psi	0.27
30-025-29526	Reeves Queen Waterflood Unit Well No. 2	B-28-18S-35E	6/18/2015	1350 psi	0.30

This approval is based on the provision that the tubing size, packer setting depth and completion interval for these wells does not change. Any future requested pressure increase will require resubmission of additional data and a new step-rate test. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in these wells. This

approval is subject to your being in compliance with all other Division rules, including but not limited to Division Rule 19.15.5.9 NMAC.

The Division Director may rescind this permitted injection pressure increase if it becomes apparent that the injected fluid is not being confined to the permitted interval or is endangering any fresh water aquifer.

Sincerely,

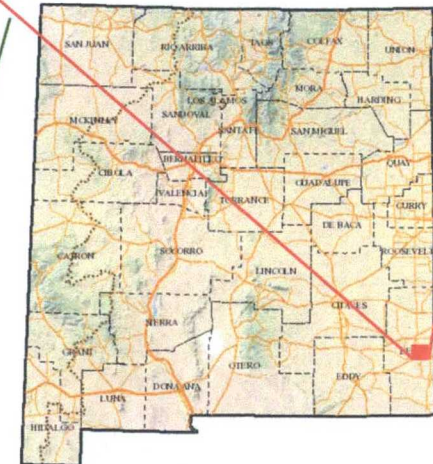
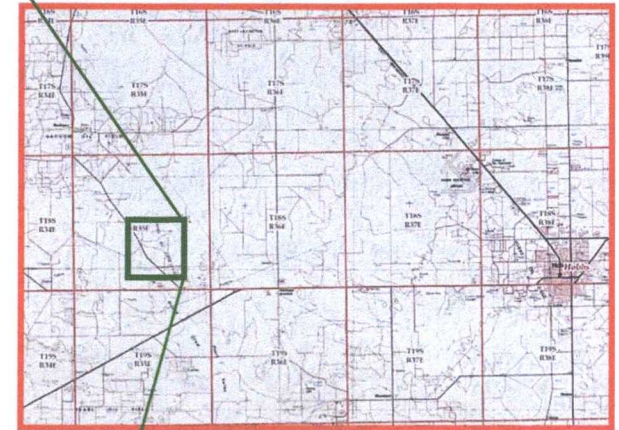


DAVID R. CATANACH
DIRECTOR

DRC/wvjj

cc: Oil Conservation Division – Hobbs District Office
Case No. 15048
Administrative Application Reference No. pMAM1518154470

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



Lea County, New Mexico

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed QUEEN Interval 4412'

4 ADDITIONAL Wells Penetrate Proposed Interval.

API <i>Subject Well</i>	Current Operator	Well Name	Well Number	Type	Lease	Status	ULSTR	Depth	Plugged On
30-025-03127	[232611] SUNDOWN ENERGY LP	REEVES QUEEN WF UNIT	#003	Oil	State	Active	22-18S-35E		
<i>Section 22 Wells</i>									
30-025-37429	[372000] POGO OIL & GAS OPERATING, INC	SOUTH VACUUM	#221	Oil	State	Active	22-18S-35E	14572'	
<i>MISS Perfs: 10794'-872'; 13.3755" (17.5" hole) @ 416' w 630 sx - Circ.; 9.625" (12.25" hole) @ 3943' w/ 1370 sx - Circ.; 7.0" (8.75" hole) @ 12745' w 1220 sx -TOC @ 9080'; 5.0" LNR 11955'-14592' w/ 250 sx - TOL.</i>									
30-025-34051	[13954] MANZANO OIL CORP	SV HONEY BEE STATE	#001	Oil	State	P&A-R	22-18S-35E	12000'	7/9/2002
								<i>See attached P&A diagram.</i>	
30-025-21642	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	State	P&A-R	22-18S-35E	11780'	1/1/1900
								<i>See attached P&A diagram.</i>	
30-025-03125	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	22-18S-35E	11750'	1/1/1900
								<i>See attached P&A diagram.</i>	

SUMMARY: 4 ADDITIONAL wells penetrate proposed injection interval. 3 P&A.

C-108 - Item VI

Area of Review Well Data

PLUGGED WELL SCHEMATICS

There Are 3 P&A'd Wells Within the AOR
Which Penetrate the Proposed Injection Zone.

Schematics follow this page...

PLUGGED WELL SCHEMATIC

SV Honey Bee State No.1

API 30-025-34051

2372' FNL & 994' FWL, SEC. 22-T18S-R35E
LEA COUNTY, NEW MEXICO

Spud Date: 7/15/1997

P&A Date: 7/09/2002

Well Plugged by
Manzanito Oil Corp.

<PLUGGING ITEMS LISTED LEFT>

P&A Marker

G.L. 3909'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Spot 15 sx

at Surface

Shoot SQZ holes @ 450'

SQZ w/ 100 sx

Spot 35 sx

1406'-1271'

Spot 45 sx

3901'-3732'

(Tagged)

Spot 30 sx

6007'-5891'

Spot 35 sx

7005'-6812'

(Tagged)

5098' Junk TBG in Hole @ 7005'

(Apprv'd by OCD)

D/O - Washout Fluid

Formation Fluids

DTD @ 12000'

Surface Casing

13.375" 54.5# Csg. (17.5" Hole) @ 400'

350 sx - Circulated to Surface

Intermediate Casing

8.625", 32.0# Csg. (11.0" Hole) @ 3850'

1000 sx - TOC 800' Calc.

<P&A SUBSEQUENT SUNDRY>

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Pecos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator: Manzanito Oil Corporations

3. Address of Operator: P.O. Box 2107, Roswell, NM 88202-2107

4. Well Location

Unit Letter: E, 2,372 feet from the North line and 994 feet from the West line

Section: 22 Township: 18-S Range: 35-E NMPM County: Lea

10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,923' KB

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

NOTICE OF INTENTION TO: ☐ PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ MULTIPLE COMPLETION ☐ OTHER

SUBSEQUENT REPORT OF: ☐ REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

06/20/02 MIRU Triple N rig #25. ND wellhead and NU BOP, start in hole w/ 2-3/8" working string tbg. SDFN.

06/21/02 Notified OCD, Gary Wink. Continued in hole w/ 2-3/8" & 2-7/8" working string tbg, tagged PBTD @ +/- 10,633' PUH to 6,800' and SD for weekend.

06/24/02 Notified OCD, Billy Pritchard. POOH w/ tubing, RIH w/ bit to 6,800'. Will drill/wash to 12,000'.

06/25/02 RU swivel and drilled/washed to 10,677' - 10,868'. RIH to 11,269', drilled/washed 11,269' - 11,473'. Twisted off tubing, losing 20 pts. POOH w/ 6,375' tubing, leaving 5,098' in hole. Called out fishing tools and RIH w/ overshot. Caught fish but kept losing bit. POOH w/ overshot and SDFN.

06/26/02 Notified OCD, Billy Pritchard. RIH w/ Kuttite shoe and 3-1/8" overshot w/ bumper sub. Latched onto fish several times, unable to move. POOH w/ overshot. RIH w/ tbg to 7,005'. RU cementer and pumped 35 sz C cmt 7,005' - 6,868'. POOH w/ tbg and SDFN.

06/27/02 Notified OCD, Billy Pritchard. Tagged cmt @ 6,812'. Pumped 30 sz C cmt 6,006' - 5,801'. Pumped 50 sz C cmt w/ 2% CaCl₂ @ 3,901'. WOC and tagged cmt @ 3,732'. Pumped 35 sz C cmt 1,406' - 1,271'. Perforated casing @ 450' and squeezed 100 sz C cmt 450' - 325'. WOC 2 hrs and tagged cmt @ 330'. Pumped 15 sz C cmt 60' to surface. RDMO.

07/09/02 Cut off wellhead and installed dry hole marker. Cut off anchors and backfilled collar.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: *James F. Newman* TITLE: Engineer DATE: 07/09/02

Type or print name: James F. Newman, P.E. Telephone No: 915-687-1994

(This space for State use)

Approved by: *W. W. W.* Condition of Approval: if any

FIELD REPRESENTATIVE II/STAFF MANAGER

Approved as to plugging of the Well Bore: *W. W. W.* Date: JAN 24 2003
The wellbore under consideration is not to be plugged until surface restoration is completed.

Production Casing

NONE SET

Drawn by: Ben Stone, 9/05/2014



PLUGGED WELL SCHEMATIC

Lea 403 State Well No.8

API 30-025-21642

1980' FSL & 1980' FWL, SEC. 22-T18S-R35E
LEA COUNTY, NEW MEXICO

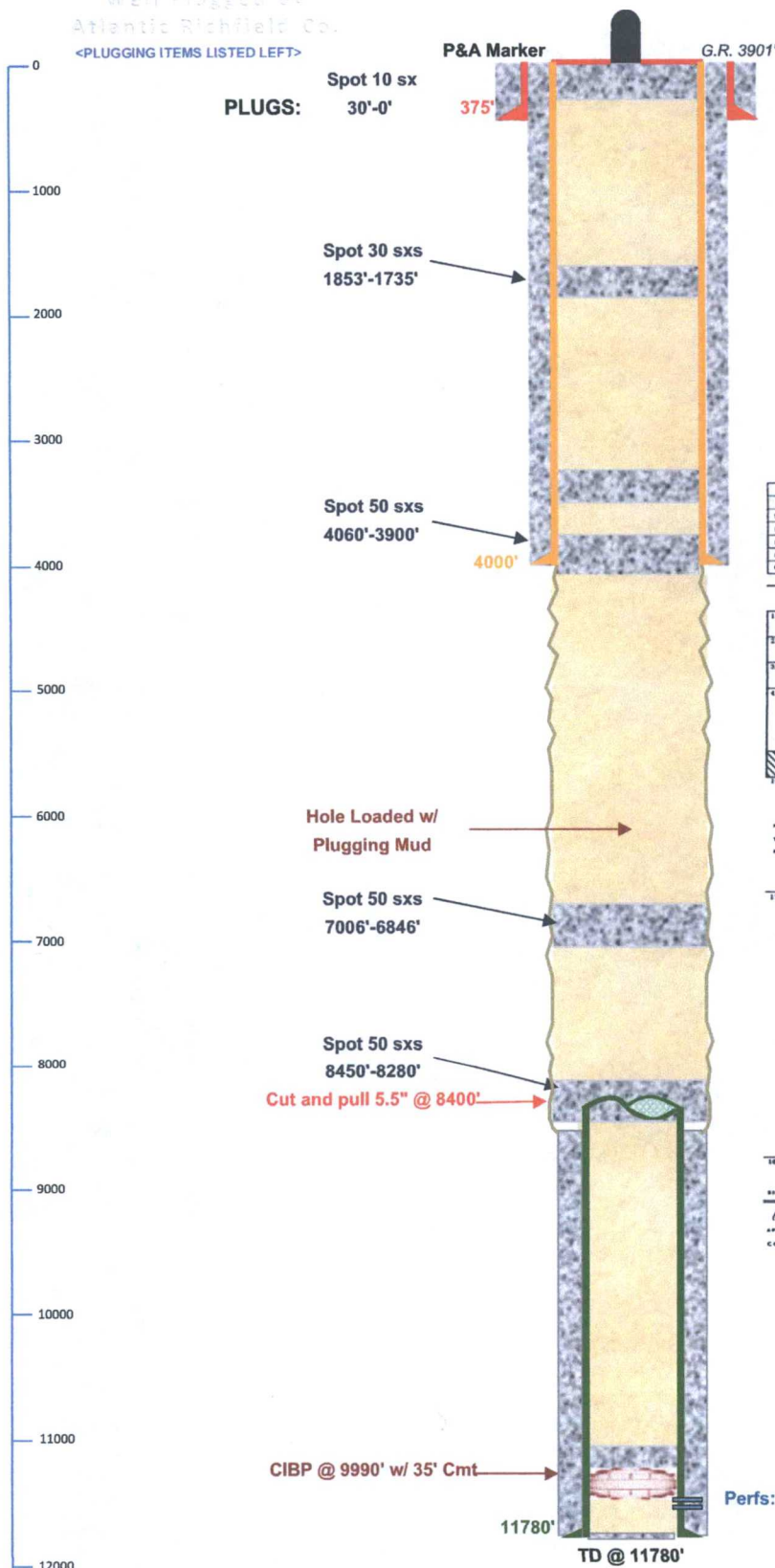
Spud Date: 11/13/1965

P&A Date: 8/01/1974

Well Plugged by
Atlantic Richfield Co.

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>



Surface Casing

13.375", 48.0# Csg. (17.5" Hole) @ 375'
475 sxs - Circulated to Surface

Intermediate Casing

8.625", 24.0/32.0# Csg. (11.0" Hole) @ 4000'
1075 sxs - Circulated to Surface

<P&A SUBSEQUENT SUNDRY>

NO. OF COPIES RECEIVED	
DISTRIBUTION	
S&T & P&E	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Supersedes Old
C-100 and C-102
Effective 1-1-65

5a. Indicate Type of Lease	Free
5b. State Oil & Gas Lease No.	E-1582

DO NOT USE THIS FORM FOR PLUGGING OPERATIONS. USE FORM C-101 FOR PLUGGING OPERATIONS.	
1. Name of Operator	Atlantic Richfield Company
2. Address of Operator	P. O. Box 1710, Hobbs, New Mexico 88240
3. Location of Well	UNIT LETTER E, 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE, SECTION 22, TOWNSHIP 18S, RANGE 35E, COUNTY LEA
4. Location of Well	3901' GR
5. Location of Well	3901' GR
6. Location of Well	3901' GR

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON
TEMPORARILY ABANDON	REMEDIAL WORK
PULL OR ALTER CASING	COMMENCE DRILLING OPER.
	CASING TEST AND CEMENT JOB
	OTHER

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1102.

Plugged & Abandoned well in the following manner: Ran & set 5 1/2" CIBP @ 11,650' & capped w/35' cmt 11,650-11,615'. Filled hole w/heavy mud. Shot 5 1/2" csg off @ 8400' & recovered 230 lbs 8400' of 5 1/2" 17# N-80 X-line & 8rd csg. Spotted 50 sk cmt plug across 5 1/2" csg stub 8450-8280'. Set 50 sk cmt plug @ top of Bone Springs 7006-6846'. Set 50 sk cmt plug across 8-5/8" csg shoe 4060-3900'. Set 35 sk cmt plug @ top of salt 1853-1735'. Set 10 sk cmt plug in top of 8-5/8" csg. Welded on plate & installed regulation dry hole marker. Levelled & cleaned location. P&A 8/1/74. Your office to be notified when location is ready for inspection.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNED	TITLE
<i>Nathan E. Kegg</i>	Dist. Drig. Supv.
DATE	8/6/74
CONDITIONS OF APPROVAL, IF ANY:	

Production (Int.) Casing

5.5", 15.0# csg. (7.875" Hole) @ 11780' w/ 400 sx
TOC 7500' Calculated

Perfs: 11679'-770'

Drawn by: Ben Stone, 8/31/2017



PLUGGED WELL SCHEMATIC

Reeves State No.1

API 30-025-03125

330' FSL & 2180.5' FEL, SEC. 22-T18S-R35E
LEA COUNTY, NEW MEXICO

Spud Date: 11/02/1959

P&A Date: 8/28/1969

Re-Entry Date: 12/30/1992

P&A Date: 4/08/1993

Well Plugged by
Capataz Operating Co.

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Spot 10 sxs
30'-0"

Spot 30 sxs
1750'-1650'

Spot 20 sxs
3642'-3496'

CIBP @ 9990' w/ 20' Cmt
3805'

Original Plugs Below

Spot 35 sxs
4440'-4342'
(D/O on ReEntry)

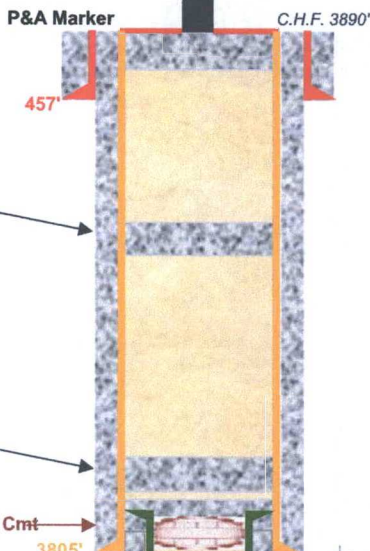
Hole Loaded w/
Plugging Mud

Spot 35 sxs
6950'-6842'

Cut and pull 5.5" @ 7190'

Spot 35 sxs
7226'-7118'

CIBP @ 9990' w/ 20' Cmt



Surface Casing

11.75" Csg. (17.5" Hole) @ 457'

475 sxs - Circulated to Surface

Intermediate Casing

8.625", 32.0# Csg. (11.0" Hole) @ 3805'

2088 sxs - Circulated to Surface

NEW Production Liner

5.5", 15.0# csg. (7.5" Hole) 3586'-4500' w/ 165 sx

TOC @ TOL

<P&A SUBSEQUENT SUNDRY>

Submit 3 Copies to Appropriate District Office DISTRICT I P.O. Box 1962, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Grande Rd., Alamo, NM 87410		State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088	Form C-103 Revised 1-1-89
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-03125	
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. Indicate Type of Lease: STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
2. Name of Operator: Capataz Operating, Inc. P. O. Box 2083, Midland, TX 79702		6. State Oil & Gas Lease No. L-4253-3	
3. Address of Operator: P. O. Box 2083, Midland, TX 79702		7. Lease Name or Unit Agreement Name: Reeves-State#	
4. Well Location: Unit Letter: 0, 330 Feet From The South Line and 2180.5 Feet From The East Line Section 22 Township 18S Range 35E NMPM Lea County 10 Elevation (Show whether DP, REE, RT, GR, etc.) 3867.5 GL		8. Well No. 1	
9. Pool name or Wildcat: Reeves-Queen		10. Indicate Nature of Notice, Report, or Other Data: NOTICE OF INTENTION TO: 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"/> PLUG AND ABANDONMENT <input checked="" type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER <input type="checkbox"/>	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WORK ☐ ALTERING CASING ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COMMENCE DRILLING OPNS ☐ PLUG AND ABANDONMENT ☒
 PULL OR ALTER CASING ☐ CASING TEST AND CEMENT JOB ☐
 OTHER ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4/7/93 Set CIBP @ 4023'. Displaced hole w/ mud.
 4/8/93 Set Cement Plugs as follows:
 25 SX on CIBP
 30 SX on 3496-3642'
 35 SX @ 1650-1750'
 10 SX @ Surf.
 Cut off wellhead. Installed dryhole marker. RMDM.

I hereby certify that the information herein is true and complete to the best of my knowledge and belief.

SIGNATURE: H. Scott Davis TITLE: Agent DATE: 4-13-93

TYPE OR PRINT NAME: H. Scott Davis TELEPHONE NO: 915-682-7664

(This space for State Use)

APPROVED BY: [Signature] TITLE: OIL & GAS INSPECTOR DATE: MAY 12 1993

Production (Int.) Casing

5.5", 11.6# csg. (15.5" Hole) @ 11769' w/ 230 sx

TOC 8000' Calculated

Perfs: 11532'-90'

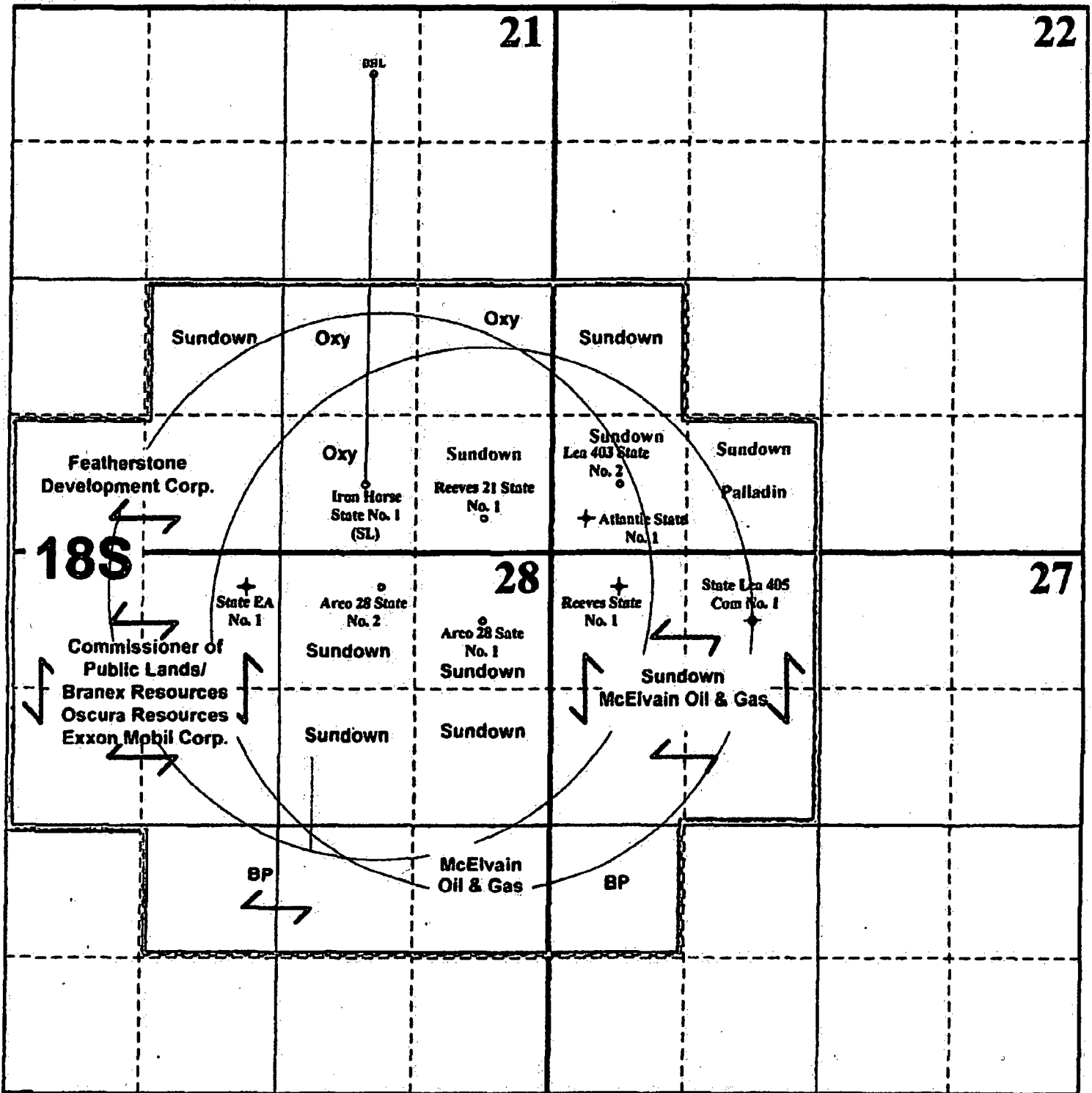
Drawn by: Ben Stone, 8/31/2017



35E

21

22



○ Proposed Injection Well

○ Producing Well

● PA'd Well

— C-108 Notice Area

Text Leasehold or Mineral Interest Owner
Text Operator

Sundown Energy, LP
Reeves Queen Unit Waterflood
Offset Operator/Leashold Owner
Identification

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

SURFACE OWNER

STATE OF NEW MEXICO (FedEx'ed copy)
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

OFFSET OPERATORS (All Notified via USPS Certified Mail)

Operator
1 OXY USA WTP LIMITED PARTNERSHIP
6001 Deauville Blvd.
Midland, TX 79706
Cert. Rcpt: 7015 3010 0001 3789 9538

Operator
2 T.H. McELVAIN OIL & GAS LLP
1050 17th Street, Suite 2500
Denver, CO 80265
Cert. Rcpt: 7015 3010 0001 3789 9545

Operator
3 POGO OIL & GAS OPERATING, INC
1515 Calle Sur, Ste.174
Hobbs, NM 88240
Cert. Rcpt: 7015 3010 0001 3789 9552

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)
811 S. First St.
Artesia, NM 88210

NEW MEXICO STATE LAND OFFICE (FedEx'ed copy)
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM

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

ADDITIONAL NOTICE

ALL of Section of 21-18S-35E

Lessee/ Operator:

Oxy USA, Inc.

ALL of Section 22-18S-35E

Lessee:

- 1 BLACK MOUNTAIN OPERATING, LLC
Attn: Luke Mildren
500 Main Street, Ste. 1200
Fort Worth, TX 76102
Cert. Rcpt: 7015 3010 0001 3789 9583

Operators:

Sundown Energy, LP
Pogo Oil & Gas

ALL of Section 27-18S-35E

Lessee:

- 2 MOBIL PRODUCING TEXAS & NM, INC.
P.O. Box 2305
Houston, TX 77252-2305
Cert. Rcpt: 7015 3010 0001 3789 9590

Operator:

Pogo Oil & Gas



August 30, 2017

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Sundown Energy, LP, Dallas, Texas, has made application to the New Mexico Oil Conservation Division to expand its Reeves Queen Waterflood Project by converting the Reeves Queen WFU Well No.3 to injection. The proposed conversion will enhance production and improve efficiency. As indicated in the notice below, the well is located in Section 22, Township 18 South, Range 35 East in Lea County, New Mexico.

The published notice states that the interval will be from 4432 feet to 4450 feet.

Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about September 1, 2017.

LEGAL NOTICE

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

Produced water from the lease and an on-lease water supply well will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 886 psi (.2 psi/ft uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously step-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

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 Sundown Energy, LP

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

7015 3010 0001 3789 9583

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$ 2.35
<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	\$ 6.59

Sent To
Street and /
City, State, ZIP+4®

BLACK MOUNTAIN OPERATING, LLC
Attn: Luke Mildren
500 Main Street, Ste. 1200
Fort Worth, TX 76102

PS Form 3800, April 2010

SEP 15 2017
Postmark Here
USPS
COMO

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<input type="checkbox"/> Return Receipt (electronic)	\$ 2.15
<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	\$ 6.59

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Street and /
City, State, ZIP+4®

MOBIL PROD TEXAS & NM, INC.
P.O. Box 2305
Houston, TX 77252-2305

PS Form 3800, April 2010

SEP 15 2017
Postmark Here
USPS
COMO

ORIGIN ID: TYRA (903) 488-9850
BENJAMIN STONE
SOS CONSULTING, LLC
1950 CR 2331
COMO, TX 75431
UNITED STATES US

SHIP DATE: 31AUG17
ACTWGT: 0.50 LB
CAD: 100120607/NET3920
BILL SENDER

TO TERRY WARNELL

NM STATE LAND OFFICE - OIL & GAS
310 OLD SANTA FE TRL

SANTA FE NM 87501

(505) 827-5791
NM,
PO.

REF: SUNDOWN RQWFWFX

DEPT:

549J1/FF19/104C



J17291762501.us

TRK# 7701 6145 8588
0201

TUE - 05 SEP 4:30P

** 2DAY **

SX SAFA

87501
NM-US ABQ

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$ 6.59

Sent To
Street and
City, State
PS Form

OXY USA WTP LTD PRTRNSP
6001 Deauville Blvd.
Midland, TX 79706

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AUG 31 2017
COMO

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☐ Return Receipt (electronic) \$
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☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$ 6.59

Sent To
Street and
City, State
PS Form

T.H. McELVAIN OIL & GAS LLP
1050 17th Street, Suite 2500
Denver, CO 80265

Postmark Here
AUG 31 2017
COMO

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☐ Return Receipt (electronic) \$
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☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$ 6.59

Sent To
Street and
City, State
PS Form

POGO OIL & GAS OPERATING, INC
1515 Calle Sur, Ste.174
Hobbs, NM 88240

Postmark Here
AUG 31 2017
COMO

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <p>BLACK MOUNTAIN OPERATING, LLC Attn: Luke Mildren 500 Main Street, Ste. 1200 Fort Worth, TX 76102 ROWFU</p> <p>9590 9402 1356 5285 2063 33</p> <p>2. Article Number (Transfer from service label)</p> <p>7015 3010 0001 3789 9583</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>9/18/17</u></p> <p>C. Date of Delivery <u>9/18/17</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

PS Form 3811, July 2015 PSN 7530-02-000-9063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <p>POGO OIL & GAS OPERATING, INC 1515 Calle Sur, Ste. 174 Hobbs, NM 88240 ROWFU</p> <p>9590 9402 1356 5285 2856 33</p> <p>2. Article Number (Transfer from service label)</p> <p>7015 3010 0001 3789 9552</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Amos Suckler</u></p> <p>C. Date of Delivery <u>9-5-17</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <p>T.H. McELVAIN OIL & GAS LLP 1050 17th Street, Suite 2500 Denver, CO 80265 ROWFU</p> <p>9590 9403 0195 5120 3854 39</p> <p>2. Article Number (Transfer from service label)</p> <p>7015 3010 0001 3789 9545</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Thero Nelson</u></p> <p>C. Date of Delivery <u>9-5-17</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

PS Form 3811, July 2015 PSN 7530-02-000-9063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <p>OXY USA WTP LTD PRTRNSP 6001 Deauville Blvd. Midland, TX 79706 ROWFU</p> <p>9590 9403 0196 5120 3855 29</p> <p>2. Article Number (Transfer from service label)</p> <p>7015 3010 0001 3789 9538</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Theresa Hugo</u></p> <p>C. Date of Delivery <u>9-5-17</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <p>MOBIL PROD TEXAS & NM, INC. P.O. Box 2305 Houston, TX 77252-2305 ROWFU</p> <p>9590 9402 1356 5285 2683 40</p> <p>2. Article Number</p> <p>7015 3010 0001 3789 9538</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Theresa Hugo</u></p> <p>C. Date of Delivery <u>9-5-17</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

PS Form 3811, April 2016 PSN 7530-02-000-9063 Domestic Return Receipt

C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

LEGAL NOTICE September 1, 2017

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

Produced water from the lease and an on-lease water supply well will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 886 psi (.2 psi/ft uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously step-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

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.
#32031

The above is the "Proof Copy" sent from the Hobbs News-Sun.
The affidavit of publication will be forwarded as soon as it is received.

Affidavit of Publication

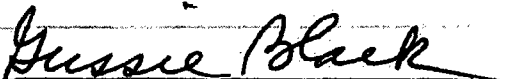
STATE OF NEW MEXICO
COUNTY OF LEA

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
September 01, 2017
and ending with the issue dated
September 01, 2017.



Publisher

Sworn and subscribed to before me this
1st day of September 2017.


Business Manager

My commission expires

January 29, 2019

(Seal)  **OFFICIAL SEAL**
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-19

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 September 1, 2017

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-102 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

Produced water from the lease and an on-lease water supply well will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 888 psi (2 psi/t uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously stop-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

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#32031

67104420

00198790

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

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

RECEIVED OGD
2017 SEP 12 P 2:49

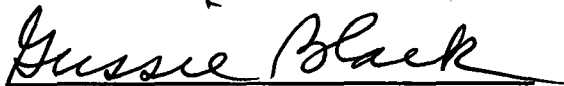
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
September 01, 2017
and ending with the issue dated
September 01, 2017.



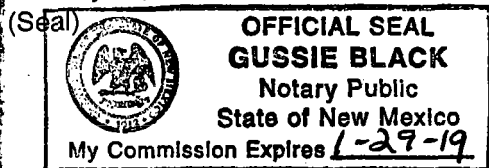
Publisher

Sworn and subscribed to before me this
1st day of September 2017.



Business Manager

My commission expires
January 29, 2019



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 September 1, 2017

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

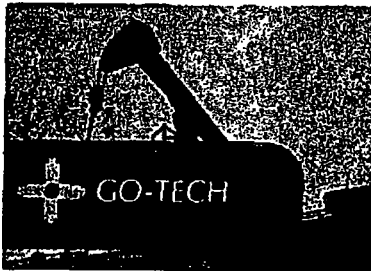
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Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505) 476-3460 within 15 days of the date of this notice. Additional information may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

67104420

00198790

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



- Home
- Production Data ▶
- Well Data ▶
- NM Pricsheet ▶
- Water Data ▶
- Projects ▶
- Software ▶
- Archive ▶
- Other Links ▶
- Help ▶

North American Oil and Gas News
 Enbridge selected to provide pipeline for deepwater Gulf of Mexico development
 Magnolia commence drilling of two Statoil operated wells
 Coastal Energy Responds to Media Reports of Potential Transaction
 Caza update on Caza Ridge Bone Spring well

Source: Oil Voice

NYMEX LS Crude 88.33
 Navajo WTXI 0
 Henry Hub 3.611
 Updated: 11/8/2012
 State Land Office Data Access
 OCD welllog image files
 PRRC NM-TECH NM-BGMR

~ Home>> Water Data>>Ground Water

■ NM WAIDS

⊖ Data

- Produced Water
- Ground Water
- Conversion Tools

⊖ Scale

- Scale details
- Stiff
- Oddo
- Probable Mineral Composition mix

⊖ Corrosion

- ⊖ Theory
 - Uniform
 - Galvanic
 - Crevice
 - Hydrogen Damage
 - EIC
 - Erosion
- ⊖ Equipment
 - Artificial
 - Casing and Tubing
 - Surface
 - Enhanced

⊖ Gases

- O2
- CO2
- H2S
- Microbes

- Prevention

- References

⊖ Maps

- ⊖ Trend Maps
 - GW
 - PW
 - Geology
 - PLSS
 - Help
- Online Map

Ground Water Samples Query

Water Sample Search

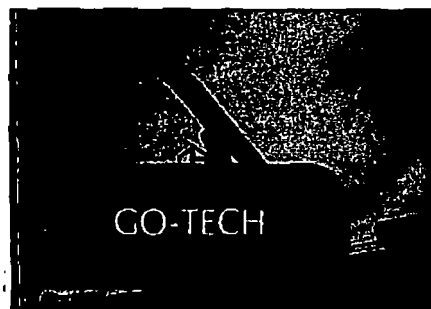
SECTION
 Township
 Range
 Formation
 DATE
 CHLORIDE (mg/L)

Water Samples for TOWNSHIP 18S RANGE 35E SECTION 34

Operation	# of samples	S	T	R	Location (qtr/qtr)
select	4	34	18S	35E	18S.35E.34.43143

Water Samples for Township 18SRANGE 35E Section 34 Location

Operation	SampleID	Township	Range	Section	Location	Date	Chlorides
select	5940	18S	35E	34	OGALLALA 18S.35E.34.43143	12/5/1979	16
select	5331	18S	35E	34	OGALLALA 18S.35E.34.43143	11/9/1984	27
select	5174	18S	35E	34	OGALLALA 18S.35E.34.43143	6/7/1990	60
select	3939	18S	35E	34	OGALLALA 18S.35E.34.43143	9/7/1995	31



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- ~ Well Data
- ~ NM Pricesheet
- ~ Water Data
- ~ Projects
- ~ Software
- ~ Archive
- ~ Other Links
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~ Home>> Water Data>>Ground Water

North American Oil and Gas News

Bonterra Energy and Spartan Oil complete business combination

JXX Oil & Gas announces offering of convertible bonds

The independent members of the SandRidge Energy Board of Directors respond to related party allegations

Halliburton announces fourth quarter income from continuing operations of \$0.63 per diluted share

Source: Oil Voice

NYMEX LS Crude	96.24
Navajo WTXI	0
Henry Hub	3.418
Updated: 1/24/2013	
State Land Office Data Access	
OCD welllog image files	
PRRC	NM-TECH
NM-BGMR	

⊖ NM WAIDS

⊖ Data

- ~ Produced Water
- ~ Ground Water
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⊖ Scale

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- ~ Probable Mineral Composition
- ~ mix

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~ Prevention

~ References

⊖ Maps

⊖ Trend Maps

- ~ GW
- ~ PW
- ~ Geology
- ~ PLSS
- ~ Help
- ~ Online Map

Ground Water Samples Query

Water Sample Search

SECTION

Township 18S

Range 35E

Formation

DATE

CHLORIDE (mg/L)

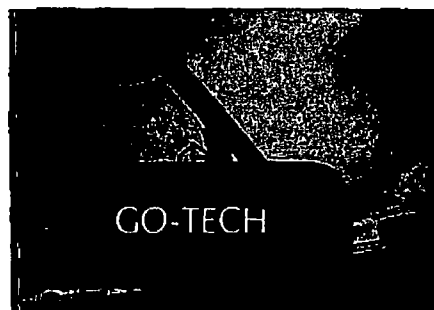
Water Samples for

Operation	# of samples	S	T	R	Location (qtr/qtr)
select	1	11	18S	35E	18S.35E.11.33322
select	1	11	18S	35E	18S.35E.11.34444
select	4	16	18S	35E	18S.35E.16.12223
select	1	18	18S	35E	18S.35E.18.11113
select	3	21	18S	35E	18S.35E.21.21000

1234

Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223

Operation	SampleID	Township	Range	Section	Formation	Location	Date	Chlorides
select	6383	18S	35E	16	OGALLALA	18S.35E.16.12223	12/6/1979	18
select	5788	18S	35E	16	OGALLALA	18S.35E.16.12223	11/9/1984	28
select	4903	18S	35E	16	OGALLALA	18S.35E.16.12223	6/7/1990	54
select	4246	18S	35E	16	OGALLALA	18S.35E.16.12223	8/18/1995	31



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- ~ Well Data ▶
- ~ NM Pricsheet ▶
- ~ Water Data ▶
- ~ Projects ▶
- ~ Software ▶
- ~ Archive ▶
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- ~ Help ▶

~ Home>>~ Water Data>>Ground Water

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 Bonterra Energy and Spartan Oil complete business combination
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Source: Oil Voice

NYMEX LS Crude	96.24
Navajo WTX	0
Henry Hub	3.418
Updated : 1/24/2013	
State Land Office Data Access	
OCD welllog image files	
PRRC	NM-TECH NM-BGMR

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~ References

⊖ Maps

⊖ Trend Maps

- ~ GW
- ~ PW
- ~ Geology
- ~ PLSS
- ~ Help
- ~ Online Map

Ground Water Samples Query

Water Sample Search

SECTION	
Township	18S
Range	35E
Formation	
DATE	
CHLORIDE (mg/L)	

Find Export Data

Water Samples for

Operation	# of samples	S	T	R	Location (qtr/qtr)
select	1	28	18S	35E	18S.35E.28.11330
select	5	28	18S	35E	18S.35E.28.32210
select	4	31	18S	35E	18S.35E.31.142113A
select	1	33	18S	35E	18S.35E.33.21444
select	4	34	18S	35E	18S.35E.34.43143

1234

Water Samples for Township 18SRANGE 35E Section 28 Location 18S.35E.28.32210

Operation	SampleID	Township	Range	Section	Formation	Location	Date	Chlorides
select	6828	18S	35E	28	OGALLALA	18S.35E.28.32210	10/25/1979	14
select	6222	18S	35E	28	OGALLALA	18S.35E.28.32210	12/6/1979	18
select	5530	18S	35E	28	OGALLALA	18S.35E.28.32210	11/9/1984	24
select	4734	18S	35E	28	OGALLALA	18S.35E.28.32210	8/7/1990	52
select	3685	18S	35E	28	OGALLALA	18S.35E.28.32210	9/29/1995	24



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

December 19, 2012

KYLE PAXTON

SUNDOWN ENERGY

P. O. BOX 277

WICKETT, TX 79788

RE: REEVES QUEEN WATERFLOOD UNIT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/12 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 161 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UN
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

Reported:
19-Dec-12 15:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOUTH VACUUM #5	H202825-01	Water	16-Nov-12 00:00	20-Nov-12 11:10
LEA 403 STATE #2	H202825-02	Water	20-Nov-12 00:00	20-Nov-12 11:10
COMP OF S VACUUM & LEA	H202825-03	Water	20-Nov-12 00:00	20-Nov-12 11:10

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UNI
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

Reported:
19-Dec-12 15:56

SOUTH VACUUM #5**H202825-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	34.2	5.00	mg/L	1	2110104	HM	26-Nov-12	310.1	
Calcium	3090	1.60	mg/L	1	2101718	HM	30-Nov-12	SM3500Ca-D	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2110104	HM	26-Nov-12	310.1	
Chloride*	13800	4.00	mg/L	1	2112104	HM	26-Nov-12	4500-Cl-B	
Conductivity*	40300	1.00	uS/cm	1	2112607	HM	26-Nov-12	120.1	
Magnesium	899	1.00	mg/L	1	2101718	HM	30-Nov-12	SM3500Mg-E	
pH*	6.11	0.100	pH Units	1	2112607	HM	26-Nov-12	150.1	
Potassium	185	1.00	mg/L	1	2101718	HM	30-Nov-12	HACH 8049	
Sodium	3730	1.00	mg/L	1	2101718	HM	30-Nov-12	Calculation	
Sulfate*	293	10.0	mg/L	1	2112703	AP	27-Nov-12	375.4	
TDS*	23300	5.00	mg/L	1	2112602	HM	21-Nov-12	160.1	
Alkalinity, Total*	28.0	4.00	mg/L	1	2110104	HM	26-Nov-12	310.1	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SUNDOWN ENERGY
 P. O. BOX 277
 WICKETT TX, 79788

 Project: REEVES QUEEN WATERFLOOD UNI
 Project Number: NOT GIVEN
 Project Manager: KYLE PAXTON
 Fax To: NOT GIVEN

 Reported:
 19-Dec-12 15:56

**LEA 403 STATE #2
 H202825-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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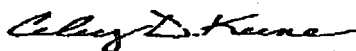
Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	503	5.00	mg/L	1	2110104	HM	26-Nov-12	310.1	
Calcium	2480	1.60	mg/L	1	2101718	HM	30-Nov-12	SM3500Ca-D	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2110104	HM	26-Nov-12	310.1	
Chloride*	19400	4.00	mg/L	1	2112104	HM	26-Nov-12	4500-Cl-B	
Conductivity*	58780	1.00	uS/cm	1	2112607	HM	26-Nov-12	120.1	
Magnesium	267	1.00	mg/L	1	2101718	HM	30-Nov-12	SM3500Mg-E	
pH*	7.56	0.100	pH Units	1	2112607	HM	26-Nov-12	150.1	
Potassium	575	1.00	mg/L	1	2101718	HM	30-Nov-12	HACH 8049	
Sodium	9190	1.00	mg/L	1	2101718	HM	30-Nov-12	Calculation	
Sulfate*	261	10.0	mg/L	1	2112703	AP	27-Nov-12	375.4	
TDS*	32300	5.00	mg/L	1	2112602	HM	21-Nov-12	160.1	
Alkalinity, Total*	412	4.00	mg/L	1	2110104	HM	26-Nov-12	310.1	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UNI
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

Reported:
19-Dec-12 15:56

COMP OF S VACUUM & LEA 403
H202825-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	317	5.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Chloride*	16700	4.00	mg/L	1	2121905	HM	19-Dec-12	4500-CL-B	
Conductivity*	50900	1.00	uS/cm	1	2121806	AP	18-Dec-12	120.1	
pH*	7.57	0.100	pH Units	1	2121910	HM	11-Dec-12	150.1	
Resistivity	0.196		Ohm-cm	1	2121908	HM	18-Dec-12	120.1	
Specific Gravity @ 60° F	1.016	0.000	[blank]	4	2121909	HM	19-Dec-12	SM 2710F	
Sulfate*	296	10.0	mg/L	1	2120501	AP	10-Dec-12	375.4	
TDS*	33300	5.00	mg/L	1	2120605	AP	13-Dec-12	160.1	
Alkalinity, Total*	260	4.00	mg/L	1	2110104	HM	13-Dec-12	310.1	

Dissolved Metals

Barium	ND	1.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Calcium	2200	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Iron	ND	5.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Magnesium	619	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Potassium	326	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Sodium	7650	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL

Cardinal Laboratories

* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788Project: REEVES QUEEN WATERFLOOD UNI
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVENReported:
19-Dec-12 15:56**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2101718 - * DEFAULT PREP *******Blank (2101718-BLK1)**

Prepared: 17-Oct-12 Analyzed: 09-Nov-12

Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Calcium	ND	1.60	mg/L

LCS (2101718-BS1)

Prepared & Analyzed: 17-Oct-12

Potassium	3.00		mg/L	3.00		100	80-120
Magnesium	54.4		mg/L	50.0		109	80-120
Calcium	20.8		mg/L	20.0		104	80-120

Duplicate (2101718-DUP1)

Source: H202593-01

Prepared: 17-Oct-12 Analyzed: 09-Nov-12

Magnesium	1820	1.00	mg/L	1880		3.24	20
Calcium	6710	1.60	mg/L	6410		4.57	20
Potassium	540	1.00	mg/L	540		0.00	20

Batch 2110104 - General Prep - Wet Chem**Blank (2110104-BLK1)**

Prepared & Analyzed: 31-Oct-12

Alkalinity, Carbonate	ND	0.00	mg/L
Alkalinity, Bicarbonate	ND	5.00	mg/L
Alkalinity, Total	ND	4.00	mg/L

LCS (2110104-BS1)

Prepared & Analyzed: 31-Oct-12

Alkalinity, Carbonate	ND	0.00	mg/L				80-120
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120
Alkalinity, Total	112	4.00	mg/L	100		112	80-120

LCS Dup (2110104-BSD1)

Prepared & Analyzed: 31-Oct-12

Alkalinity, Carbonate	ND	0.00	mg/L				80-120	20
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120	20
Alkalinity, Total	112	4.00	mg/L	100		112	80-120	0.00 20

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* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UN
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

Reported:
19-Dec-12 15:56

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2112104 - General Prep - Wet Chem										
Blank (2112104-BLK1)				Prepared & Analyzed: 26-Nov-12						
Chloride	ND	4.00	mg/L							
LCS (2112104-BS1)				Prepared & Analyzed: 26-Nov-12						
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2112104-BSD1)				Prepared & Analyzed: 26-Nov-12						
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 2112602 - Filtration										
Blank (2112602-BLK1)				Prepared: 21-Nov-12 Analyzed: 29-Nov-12						
TDS	ND	5.00	mg/L							
LCS (2112602-BS1)				Prepared: 21-Nov-12 Analyzed: 29-Nov-12						
TDS	239		mg/L	240		99.6	80-120			
Duplicate (2112602-DUP1)				Source: H202812-03 Prepared: 21-Nov-12 Analyzed: 29-Nov-12						
TDS	1560	5.00	mg/L		1660			6.21	20	
Batch 2112607 - General Prep - Wet Chem										
LCS (2112607-BS1)				Prepared & Analyzed: 26-Nov-12						
pH	7.05		pH Units	7.00		101	90-110			
Conductivity	1410		uS/cm	1410		100	80-120			
Duplicate (2112607-DUP1)				Source: H202825-01 Prepared & Analyzed: 26-Nov-12						
Conductivity	40300	1.00	uS/cm		40300			0.00	20	
pH	6.14	0.100	pH Units		6.11			0.490	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788Project: REEVES QUEEN WATERFLOOD UNI
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVENReported:
19-Dec-12 15:56**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2112703 - General Prep - Wet Chem										
Blank (2112703-BLK1)				Prepared & Analyzed: 27-Nov-12						
Sulfate	ND	10.0	mg/L							
LCS (2112703-BS1)				Prepared & Analyzed: 27-Nov-12						
Sulfate	16.9	10.0	mg/L	20.0		84.6	80-120			
LCS Dup (2112703-BSD1)				Prepared & Analyzed: 27-Nov-12						
Sulfate	19.4	10.0	mg/L	20.0		97.2	80-120	13.8	20	
Batch 2120501 - General Prep - Wet Chem										
Blank (2120501-BLK1)				Prepared & Analyzed: 10-Dec-12						
Sulfate	ND	10.0	mg/L							
LCS (2120501-BS1)				Prepared & Analyzed: 10-Dec-12						
Sulfate	16.7	10.0	mg/L	20.0		83.7	80-120			
LCS Dup (2120501-BSD1)				Prepared & Analyzed: 10-Dec-12						
Sulfate	18.1	10.0	mg/L	20.0		90.4	80-120	7.64	20	
Batch 2120605 - Filtration										
Blank (2120605-BLK1)				Prepared & Analyzed: 06-Dec-12						
TDS	ND	5.00	mg/L							
LCS (2120605-BS1)				Prepared & Analyzed: 06-Dec-12						
TDS	223		mg/L	240		92.9	80-120			

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Analytical Results For:SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788Project: REEVES QUEEN WATERFLOOD UNI
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVENReported:
19-Dec-12 15:56**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120605 - Filtration										
Duplicate (2120605-DUP1)		Source: H202905-01			Prepared & Analyzed: 06-Dec-12					
TDS	1200	5.00	mg/L		1140			5.13	20	
Batch 2121806 - General Prep - Wet Chem										
LCS (2121806-BS1)		Prepared & Analyzed: 18-Dec-12								
Conductivity	478		uS/cm	500		95.6	80-120			
Duplicate (2121806-DUP1)		Source: H203018-01			Prepared & Analyzed: 18-Dec-12					
Conductivity	1530	1.00	uS/cm		1530			0.00	20	
Batch 2121905 - General Prep - Wet Chem										
Blank (2121905-BLK1)		Prepared & Analyzed: 19-Dec-12								
Chloride	ND	4.00	mg/L							
LCS (2121905-BS1)		Prepared & Analyzed: 19-Dec-12								
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (2121905-BSD1)		Prepared & Analyzed: 19-Dec-12								
Chloride	108	4.00	mg/L	100		108	80-120	7.69	20	
Batch 2121909 - General Prep - Wet Chem										
Duplicate (2121909-DUP1)		Source: H202825-03			Prepared & Analyzed: 19-Dec-12					
Specific Gravity @ 60° F	1.014	0.000	[blank]		1.016			0.216	200	

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Analytical Results For:

SUNDOWN ENERGY
P. O. BOX 277
WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UN
Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

Reported:
19-Dec-12 15:56

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2121910 - General Prep - Wet Chem									
LCS (2121910-BS1)				Prepared & Analyzed: 11-Dec-12					
pH	7.00		pH Units	7.00	100	90-110			
Duplicate (2121910-DUP1)				Source: H202825-03 Prepared & Analyzed: 11-Dec-12					
pH	7.61	0.100	pH Units	7.57			0.527	20	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



C-108 Review Checklist: Received 9/01/2017 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: R-13785 FRI

Well No. 6 Well Name(s): Reeves & Green WF

API: 30-0 25-03127 Spud Date: 5/02/1988 New or Old: R (UIC Class II Primacy 03/07/1982)

Footages 660 FSL 660 FUL Lot _____ or Unit 4 Sec 22 Tsp 18S Rge 37E County Lea

General Location: 22 miles SW Hubbs Pool: Reeves & Green Pool No.: 52070

BLM 100K Map: HODDS Operator: Sundown Energy, L.P. OGRID: 232611 Contact: Ben Stone, Agent

COMPLIANCE RULE 5.9: Total Wells: 37 Inactive: 1 Fincl Assur: OK Compl. Order? MA IS 5.9 OK? Y Date: 10-3-2017

WELL FILE REVIEWED ☐ Current Status: Active

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

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in)	Setting		Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)	Stage Tool	Sx or Cf	
Planned ___ or Existing ___	Surface	<u>17 1/2 / 13 7/8</u>	<u>332</u>		<u>400</u>	<u>Surface / Vis 44</u>
Planned ___ or Existing ___	Interm/Prod	<u>12 1/4 / 9 7/8</u>	<u>4000</u>		<u>1650</u>	<u>Surface / Vis 44</u>
Planned ___ or Existing ___	Interm/Prod	<u>7 7/8 / 4 1/2</u>	<u>4567</u>		<u>1280</u>	<u>Surface</u>
Planned ___ or Existing ___	Prod/Liner					
Planned ___ or Existing ___	Liner					
Planned ___ or Existing ___	OH / PER	<u>4432-4450</u>		Inj Length		

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	<u>11976</u> PBTD <u>4400-4567</u>
NEW TD	NEW PBTD
NEW Open Hole	NEW Perfs <input checked="" type="radio"/> FRI 492
Tubing Size	<u>2 1/2</u> in. Inter Coated?
Proposed Packer Depth	<u>4332</u> ft
Min. Packer Depth	<u>4332</u> (100-ft limit) <input checked="" type="radio"/>
Proposed Max. Surface Press.	<u>1200</u> psi
Admin. Inj. Press.	<u>887</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? _____ BLM Sec Ord ☐ WIPP ☐ Noticed? _____ Salt/Salado T: 205 B: 3155 NW: Cliff House fm

FRESH WATER: Aquifer Quaternary Max Depth 5935 HYDRO AFFIRM STATEMENT By Qualified Person ☐

NMOSE Basin: Lea CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? _____ FW Analysis

Disposal Fluid: Formation Source(s) Produced H₂O Analysis? Y On Lease ☒ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): 100/200 Protectable Waters? _____ Source: _____ System: Closed or Open

HC Potential: Producing Interval? ☒ Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ☐

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

Penetrating Wells: No. Active Wells 1 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 3 Num Repairs? _____ on which well(s)? _____ Diagrams? X

NOTICE: Newspaper Date 9-01-2017 Mineral Owner NMSU Surface Owner NMSU N. Date 8-31-2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: BLA & Mountain, P&G, Mobil N. Date 9-8-2017

Order Conditions: Issues: _____

dd Order Cond:



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<u>L 02520</u>		L	LE	4	1	23	18S	35E		647088	3622989*	134	78	56
<u>L 02678</u>		L	LE	3	4	22	18S	35E		645890	3622166*	200	58	142
<u>L 02678</u>	R	L	LE	3	4	22	18S	35E		645890	3622166*	200	58	142
<u>L 02678 POD2</u>	R	L	LE	3	4	22	18S	35E		645890	3622166*	185	58	127
<u>L 02678 POD3</u>		L	LE	3	4	22	18S	35E		645890	3622166*	190	154	36
<u>L 02679</u>		L	LE	4	4	21	18S	35E		644680	3622151*	200	68	132
<u>L 02679</u>	R	L	LE	4	4	21	18S	35E		644680	3622151*	200	68	132
<u>L 02679 POD2</u>		L	LE	3	2	22	18S	35E		645876	3622973*	187	65	122
<u>L 02680</u>		L	LE	1	2	21	18S	35E		644257	3623357*	190	59	131
<u>L 03772</u>		L	LE	2	2	21	18S	35E		644659	3623361*	130	60	70
<u>L 03783</u>		L	LE			27	18S	35E		645710	3621138*	115	65	50
<u>L 03866</u>		L	LE	3	3	22	18S	35E		645082	3622155*	127	65	62
<u>L 03963</u>		L	LE	1	2	27	18S	35E		645896	3621762*	127	70	57
<u>L 04399</u>		L	LE	3	3	22	18S	35E		645082	3622155*	90	75	15
<u>L 05810</u>		L	LE	2	3	22	18S	35E		645479	3622564*	145	95	50
<u>L 06868</u>		L	LE	1	4	3	26	18S	35E	647026	3620666*	110	57	53
<u>L 06869</u>		L	LE	1	3	26	18S	35E		646717	3620966*	125	60	65
<u>L 09373</u>		L	LE	1	1	26	18S	35E		646704	3621773*	120	60	60

Average Depth to Water: 70 feet

Minimum Depth: 57 feet

Maximum Depth: 154 feet

Record Count: 18

PLSS Search:

Section(s): 21-23, 26-28 Township: 18S Range: 35E

*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.

9/13/17 3:38 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER