

Initial Application Part I

Received: 08/20/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

| | | | |
|-----------------------------|-----------|------------------|-------------------------------|
| RECEIVED: 08/20/2019 | REVIEWER: | TYPE: SWD | APP NO: pMAM1923246062 |
|-----------------------------|-----------|------------------|-------------------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: Fulfer Oil & Cattle, LLC **OGRID Number:** 141402
Well Name: South Langlie Jal Unit No.18 **API:** 30-025-11642
Pool: Jalmat; Tan-Yates-7 Rvrs (Oil) **Pool Code:** 33820

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

SWD-2248

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

| FOR OCD ONLY | |
|--------------------------|------------------------------|
| <input type="checkbox"/> | Notice Complete |
| <input type="checkbox"/> | Application Content Complete |

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

3) **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

8/07/2019

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



August 7, 2019

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

Attn: Ms. Adrienne Sandoval, Director

Re: Application of Fulfer Oil & Cattle, LLC to reinstate and otherwise permit for salt water disposal its South Langlie Jal Unit Well No.18, located in Section 17, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

Dear Ms. Sandoval,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, South Langlie Jal Unit Well No.18. The well was previously authorized for waterflood injection by division order R-4066. Fulfer's intent is to utilize this well to service their on-lease operations only - it's a low-rate situation and no outside water will be accepted.

Fulfer Oil & Cattle seeks to optimize efficiency, both economically and operationally, of its operations 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 July 24, 2019 edition of the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application. This application also includes a wellbore schematic, area of review maps, affected party plat and other required information for a complete Form C-108. The well is located on private land and federal 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 blue ink, appearing to read 'Ben Stone', is written over a white background.

Ben Stone, Partner
SOS Consulting, LLC
Agent for Fulfer Oil & Cattle, LLC

Cc: Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ***Water Injection Well – Application Meets Qualifications for Administrative Approval.***
- II. OPERATOR: ***Fulfer Oil & Cattle, LLC***
ADDRESS: ***P.O. Box 1224, Jal, NM 87252***
- CONTACT PARTY: ***Gregg Fulfer (575) 631-0522***
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 to reauthorize a temporarily abandoned WIW of an existing waterflood 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. ***18 AOR wells penetrate the subject interval; 9 P&A'd***. 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. Openhole will likely be acidized w/ up to 10,000 gals.15% HCl.***
- *X. ***One well log is available on OCD Online. A Gamma Ray / Neutron Log Strip is ATTACHED.***
- *XI. ***State Engineer's records indicate numerous water wells within one mile the proposed injection well; at least 2 will be sampled and analyses will be forwarded upon receipt.***
- 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 Fulfer Oil & Cattle, LLC***

SIGNATURE: _____ DATE: ***8/07/2019***

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 is ATTACHED.***

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 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram - CURRENT
Wellbore Diagram – PROPOSED

The well is currently TA'd and will be reconfigured identically to previous injection authorization.

Item IV – Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile Radius of the subject well and which penetrate the proposed interval.
P&A Diagrams for 9 wells.

Item V – Area of Review Maps

1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
2. One-Half Mile AOR Map

All Above Exhibits follow this page.



WELL SCHEMATIC - CURRENT

South Langlie Jal Unit Well No.18 (WIW)

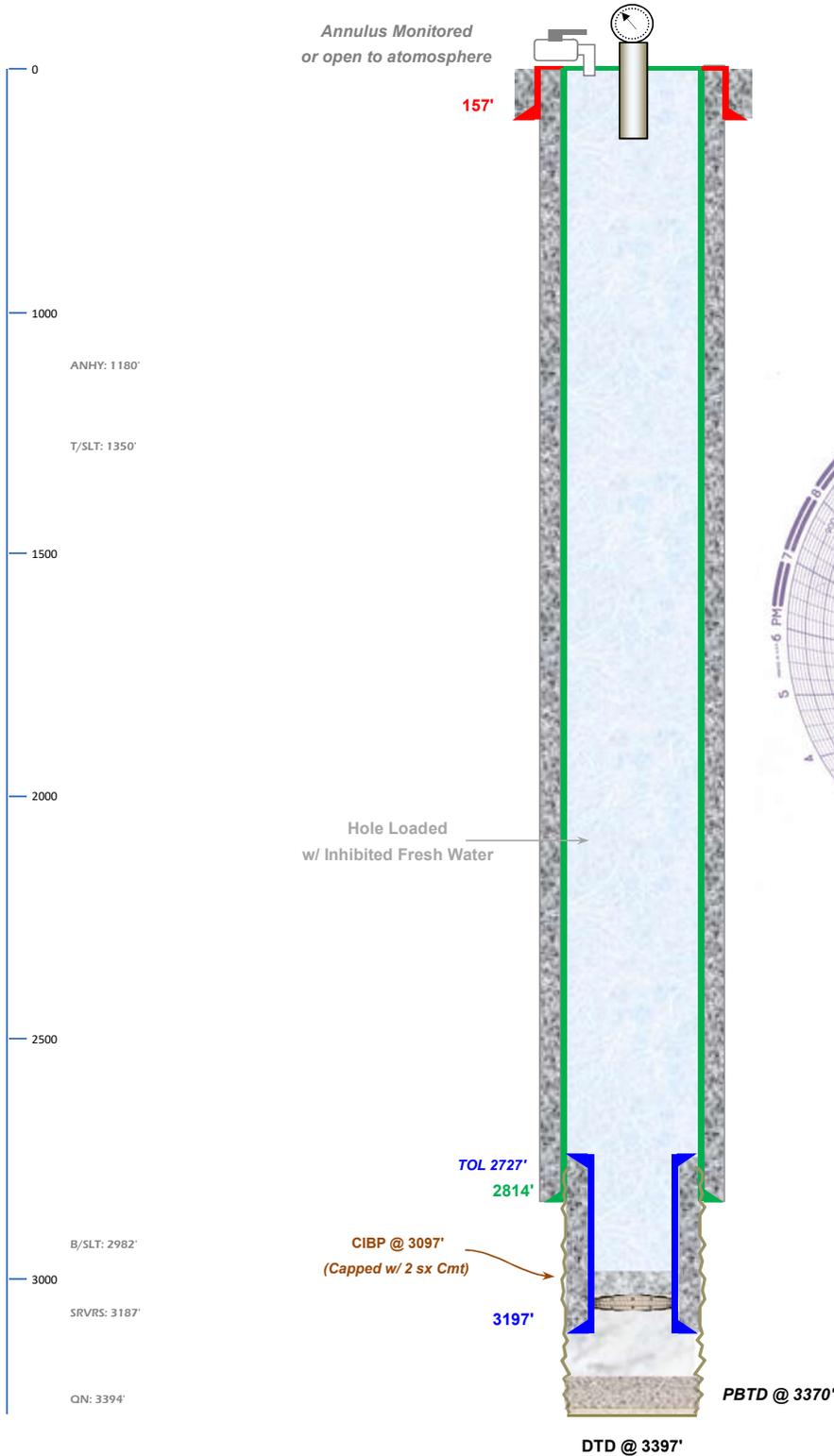
(Expired TA)

API 30-025-11642

1980' FNL & 990' FWL, SEC. 17-T25S-R37E
LEA COUNTY, NEW MEXICO

[33820] Jalmat; Tan-Yates-7 Rvrs (Oil)

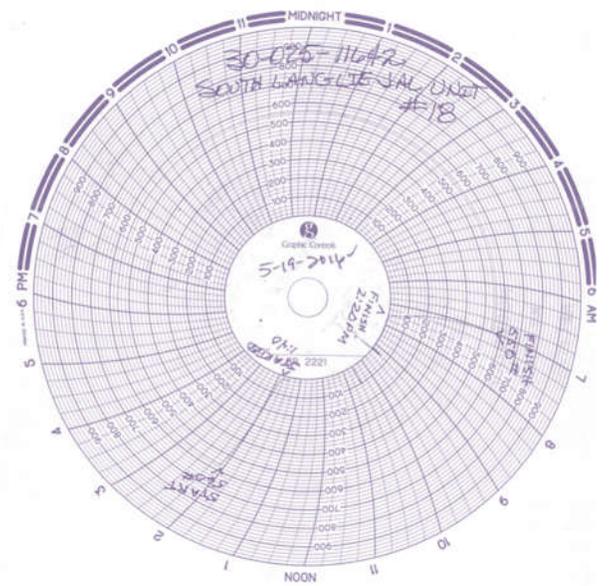
Spud Date: 3/19/1952
TA Date: 12/27/2001



Surface Casing

10.75", 32.0# Csg. (12.5" Hole) @ 157'
100 sx - Circ. to Surface

Last MIT 5/19/2016



Production Casing (Original)

7.0", 20.0# Csg. (8.5" Hole) @ 2814'
w/ 400 sx; Calc'd to Cird; Not Rpt'd

Production Liner

4.5", 9.6# K-55 Csg. (7.875" Hole) 2727'-3197'
w/ 75 sx to Top of Liner

Drawn by: Ben Stone, 7/22/2019





WELL SCHEMATIC - PROPOSED

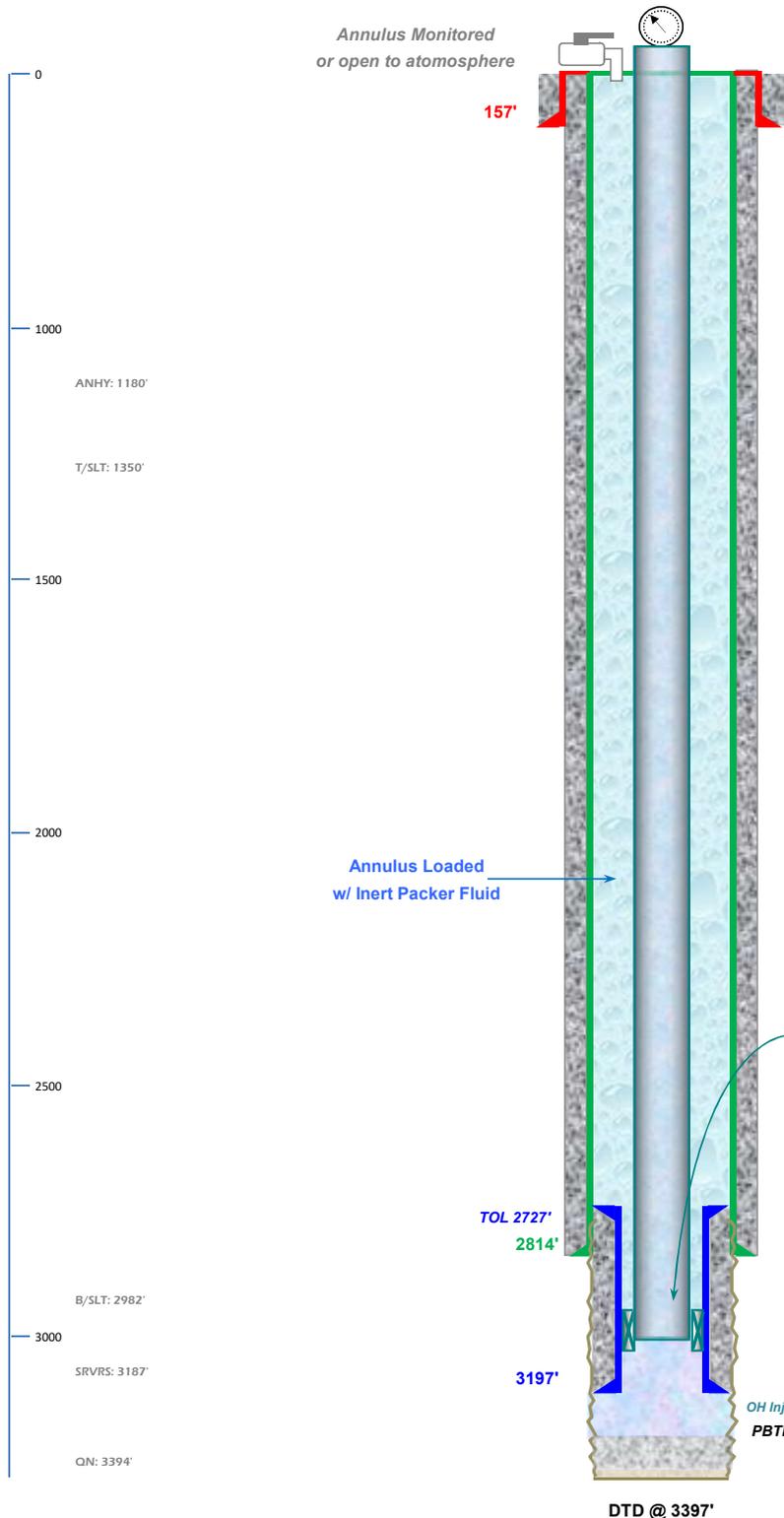
South Langlie Jal Unit Well No.18 (SWD)

[33820] Jalmat; Tan-Yates-7 Rvrs (Oil)

API 30-025-11642

1980' FNL & 990' FWL, SEC. 17-T25S-R37E
LEA COUNTY, NEW MEXICO

Spud Date: 3/19/1952
SWD Config Date: TBD/20



Annulus Monitored
or open to atmosphere

157'

Injection Pressure Regulated
and Volumes Reported
639 psi Max. Surface (0.2 psi/ft)

Surface Casing

10.75", 32.0# Csg. (12.5" Hole) @ 157'
100 sx - Circ. to Surface



Reconfigure to SWD:

RIH Drillout CIBP @ 3097'.
Spot CMT to establish PBD @ 3280'.
Acidize Openhole Interval w/ 1500 gals. 15% HCl.
Run PC 2.375" Tubing and set PKR @ ~3097'.
Conduct OCD Witnessed MIT.

Annulus Loaded
w/ Inert Packer Fluid

2.375" IC Tubing (or smaller)

PKR ~3097'+

Note: PRK Set 100' Above Uppermost (OH) Injection Interval.

Production Casing (Original)

7.0", 20.0# Csg. (8.5" Hole) @ 2814'
w/ 400 sx; Calc'd to Cird; Not Rpt'd

Production Liner

4.5", 9.6# K-55 Csg. (7.875" Hole) 2727'-3197'
w/ 75 sx to Top of Liner

TOL 2727'
2814'

3197'

OH Injection Interval: 3197'-3280'

PBD @ 3280'

DTD @ 3397'

Drawn by: Ben Stone, 7/22/2019



Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed 7 RVRs Interval 3197'

18 Wells Penetrate Proposed Interval

| API | Current Operator | Well Name | Well Number | Type | Status | ULSTR | Depth | Plugged On |
|---|--|------------------------|-------------|-----------|------------|--------------|-------|------------|
| <u>Subject Well</u> | | | | | | | | |
| 30-025-11642 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #018 | Injection | Expired TA | E-17-25S-37E | 3397' | |
| <i>See CURRENT and PROPOSED Diagrams</i> | | | | | | | | |
| <u>Section 8 Wells</u> | | | | | | | | |
| 30-025-11508 | [4115] CHAPARRAL ENERGY LLC | SOUTH LANGLIE JAL UNIT | #010 | Oil | P&A | M-8-25S-37E | 3380' | |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| <u>Section 17 Wells</u> | | | | | | | | |
| 30-025-11634 | [372000] POGO OIL & GAS OPERATING, INC | LANGLIE JAL UNIT | #087 | Oil | Active | B-17-25S-37E | 3650' | |
| <i>10.75" (N/A hole) @ 313' w/ 250 sx - circ.; 7" (N/A hole) @ 3248' w/ 200 sx; 4.5" (N/A hole) @ 3650' w/ 100 sx.</i> | | | | | | | | |
| 30-025-11647 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #015 | Injection | P&A | C-17-25S-37E | 3380' | 4/5/2012 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11646 | [22351] TEXACO E & P INC | SOUTH LANGLIE JAL UNIT | #014 | Oil | P&A | D-17-25S-37E | 3390' | 1/1/1900 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11639 | [22351] TEXACO E & P INC | WOOLWORTH B | #001 | Oil | P&A | D-17-25S-37E | 3080' | 34487 |
| <i>Does NOT Penetrate</i> | | | | | | | | |
| 30-025-11640 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #019 | Oil | Active | F-17-25S-37E | 3403' | |
| <i>10.75" (N/A hole) @ 160' w/ 100 sx - circ.; 7" (N/A hole) @ 2833' w/ 400 sx; 4.5" LNR (6.25" hole) @ 2780'-3409 w/ 260 sx.</i> | | | | | | | | |
| 30-025-11643 | [372000] POGO OIL & GAS OPERATING, INC | LANGLIE JAL UNIT | #090 | Oil | Active | G-17-25S-37E | 3565' | |
| <i>9.625" (N/A hole) @ 168' w/ 125 sx; 7" (N/A hole) @ 3038' w/ 400 sx; 4.5" (7" hole) @ 3413' w/ 75 sx</i> | | | | | | | | |
| 30-025-35626 | [372000] POGO OIL & GAS OPERATING, INC | LANGLIE JAL UNIT | #124 | Oil | Active | G-17-25S-37E | 3750' | |
| <i>8.625" (12.25" hole) @ 813' w/ 450 sx - Circ.; 5.5" (7.875" hole) @ 3750' w/ 815.5 sx - circ.</i> | | | | | | | | |
| 30-025-11631 | [264953] HERMAN L. LOEB LLC | LANGLIE A FEDERAL | #001 | Gas | Active | J-17-25S-37E | 2980' | |
| <i>Does NOT Penetrate</i> | | | | | | | | |
| 30-025-24891 | [372000] POGO OIL & GAS OPERATING, INC | LANGLIE JAL UNIT | #091 | Injection | Active | J-17-25S-37E | 3850' | |
| <i>13.375" (20" hole) @ 30' w/ 4 Yds; 8.625" (12.5" hole) @ 814' w/ 600 sx.; 4.5" (7.875" hole) @ 3850' w/ 1200 sx.</i> | | | | | | | | |
| 30-025-11638 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #023 | Injection | P&A | K-17-25S-37E | 3405' | 41008 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11637 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #022 | Oil | Active | L-17-25S-37E | 3375' | |
| <i>10.75" (13.75" hole) @ 157' w/ 125 sx.; 5.5" (8.75" hole) @ 3288' w/ 350 sx.</i> | | | | | | | | |

Form C-108 Item VI - Tabulation of AOR Wells (cont.)

| | | | | | | | | |
|--|---|-------------------------------|-------------|------------|---------------|---------------------|--------------|-----------|
| 30-025-11645 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #026 | Injection | P&A | M-17-25S-37E | 3365' | 4/3/2012 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11641 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #027 | Oil | Active | N-17-25S-37E | 3550' | |
| <i>8.625" (12" hole) @ 153' w/ 75 sx.; 5.5" (8" hole) @ 2834' w/ 400 sx.</i> | | | | | | | | |
| <i>Section 18 Wells</i> | | | | | | | | |
| 30-025-11619 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #013 | Injection | P&A | A-18-25S-37E | 3320' | 11/3/2006 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11617 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #017 | Oil | P&A | H-18-25S-37E | 3336' | 9/22/2010 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-26948 | [162683] CIMAREX ENERGY CO. OF COLORADO | E C WINTERS | #002 | Gas | P&A | H-18-25S-37E | 3030' | |
| <i>Does NOT Penetrate</i> | | | | | | | | |
| 30-025-26293 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #028 | Oil | P&A | I-18-25S-37E | 3612' | 10/7/2010 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11615 | [160825] BC OPERATING, INC. | SOUTH LANGLIE JAL UNIT | #021 | Injection | P&A | I-18-25S-37E | 3336' | 11/9/2006 |
| <i>See CURRENT (P&A) Diagram</i> | | | | | | | | |
| 30-025-11656 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #020 | Oil | Active | J-18-25S-37E | 3371' | |
| <i>8.625" (11.5" hole) @ 300' w/ 150 sx.; 5.5" (7.875" hole) @ 3200' w/ 400 sx</i> | | | | | | | | |
| 30-025-11616 | [141402] FULFER OIL & CATTLE LLC | SOUTH LANGLIE JAL UNIT | #025 | Oil | Active | P-18-25S-37E | 3377' | |
| <i>10.75" (12.25" hole) @ 142' w/ 100 sx.; 7" (8.75" hole) @ 3310' w/ 300 sx.</i> | | | | | | | | |

Summary: 18 Wells Penetrate, 9 P&A

KB:

DF:

GL: 3129'

CHAPARRAL ENERGY, INC.

Well: So. Langlie Jal Unit , 10 , 959000--
 Operator: Chaparral Energy, Inc.
 Location: Lea Co., NM
 Legal: Sec. 8-258-37E

Dir:

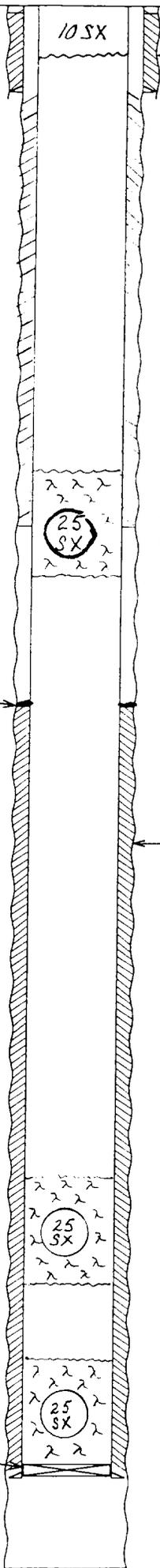
Spud Date:
 Drilling Finished:
 Completion Date:
 First Production:

HISTORY:

Formation Tops are:
 T. Anhy @ 1072', T. Salt @ 1172', B. Salt @ 2660',
 Yates @ 2800', T. Rivers @ 3024', T. Queen @ 3226'.

Proposed Cement Plugs:

1. 25 sx @ 3010' - 3250'.
2. 25 sx @ 2600' - 2840'.
3. 25 sx @ ~~2800' - 3240'~~ 1150' - 1050' PERF/TAG
4. 10 sx @ 96' - Surface.



Hole size: 12 1/4

8 5/8" , 24 #, csg, @: 184'
 w/125 sx

10 SX

25 SX

DV Collar @ 1100'
 CPTD WITH LOG SX

ROCE 1537'

Hole size: 7 7/8"

25 SX

25 SX

CIBP@: 3250'

5 1/2" , 14 #, H-40 csg, @: 3268'
 w/300 sx

TD: 3385'

Input by: Trish
 Approved by:
 Last Update: 03/29/01

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources
HOBBBS OCD
FEB 1 4 2012
RECEIVED
 CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised August 1, 2011

| |
|---|
| WELL API NO. 30-025-11647 |
| 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name South Langlie Jal Unit |
| 8. Well Number 15 |
| 9. OGRID Number 160825 |
| 10. Pool name or Wildcat Jalmat Tansil Yates Seven Rivers |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3118' DF |

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 TA'd Injector

2. Name of Operator
BC Operating, Inc.

3. Address of Operator
P.O. Box 50820 Midland, Texas 79710

4. Well Location
 Unit Letter C : 990 feet from the North line and 1980 feet from the West line
 Section 17 Township 25S Range 37E NMPM County Lea

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

| | | | |
|--|--|--|--|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input checked="" type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMPLETION/DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING JOBS <input type="checkbox"/> | |
| DOWNHOLE COMMINGLE <input type="checkbox"/> | | | |
| OTHER: <input type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions, include a wellbore diagram of proposed completion or recompletion.

Proposed Procedure: 3167'
 RIH & set CIBP @ 2710'. Circ plugging mud & spot 25 sx on top of CIBP.
 Spot 40 sx @ 1212' & tag. POOH to 2880'. SPOT 30sx. TAG at 2703' or better (liner top and base of salt)
 Spot 15 sx from 60' to surface. DV-tool # TOS
 Install PA marker & clean & level location per OCD regulations.

Will notify OCD 24 hours prior to commencing plug & abandon operations.
Perf at 206'. Attempt to 5gz. cnt to surface. Fill inside & outside 7" CSG.

Spud Date: 02/26/52 Rig Release Date: 03/16/52

The Oil Conservation Division Must be notified 24 hours prior to the beginning of plugging operations.

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

SIGNATURE Pam Stevens TITLE Regulatory Analyst DATE 02/09/2012

Type or print name Pam Stevens E-mail address: pstevens@bcoperating.com PHONE: 432-684-9696

For State Use Only
 APPROVED BY: Mark Whitman TITLE Compliance Officer DATE 2-21-2012
 Conditions of Approval (if any):

FEB 21 2012

Current

LOG ZERO = 8' Above G.L.

G.L. = 3110'

10 3/4", 32' to 156'

(Cont'd. w/ 150 sys. w/ surf. vels.)

HOLE SIZES

13" 0 - 156'

8 3/4" 156 - 2830'

6 1/4" 2830 - 3217'

4 1/4" 3217 - 3380'

7", 20' SET TO 2830'

(Cont'd. w/ 200 sys. out shoe
& 200 sys. out stage collar @ 1162')

5 1/2", 15.5' FLUSH JOINT LINE

from 2753 - 3217'

(Cont'd. w/ 50 sys. out below & SQED.)
top w/ 20 sys.

SOUTH LANGLE JAL UNIT, #15-WSW

(Formerly So. Cal. Pet. Corp., WOODWORTH B, #3)

JALMAT (OIL) POOL

LEA CO., NEW MEXICO

CRC 11/15/76

"QUEEN" OPEN-HOLE (163')

TD = 3380'

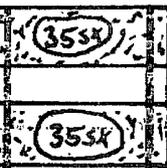
Proposed

LOG ZERO = 8' Above G.L.

G.L. = 3110'

60'

10 3/4" 32' to 156' 20'
(Cont'd. w/ 150 sys. w/ surf. vels.)



SOUTH LANSIE JAL UNIT, 15-W1W

(Formerly So. Cal. Pet. Corp., WOODWORTH B, #3)

JALMAT (OIL) POOL

LEA CO., NEW MEXICO

HOLE SIZES

13" 0 - 156'

8 3/4" 156 - 2830'

6 1/4" 2830 - 3217'

4 1/2" 3217 - 3380'

CRC 11/15/76

25 SX @ 1205'



25 SX @ 2700'

7" 20' SET TO 2830'
(Cont'd. w/ 200 sys. out shoe
w/ 200 sys. OUT STAGE Callup 1162')

5 1/2" 15.5' FLUSH JOINT LINE
from 2753 - 3217'

CI CR @ 3050'

(Cont'd. w/ 50 sys. out b/w. v. S&ED
top w/ 20 sys.)



"QUEEN" OPEN-HOLE (163')

TD = 3380'

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

| |
|---|
| WELL API NO. 30-025-11646 |
| 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No. |

| | |
|---|--|
| 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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER | 7. Lease Name or Unit Agreement Name South Langlie Jal Unit |
| 2. Name of Operator Texaco Producing Inc | 8. Well No. 14 |
| 3. Address of Operator P.O. Box 730 Hobbs, New Mexico 88240 | 9. Pool name or Wildcat Jalmat Tansill Yates 7 Rivers |
| 4. Well Location Unit Letter <u>D</u> : <u>990</u> Feet From The <u>North</u> Line and <u>466</u> Feet From The <u>West</u> Line Section <u>17</u> Township <u>25S</u> Range <u>37E</u> NMPM Lea County | 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3119' KB |

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

| | | | |
|--|---|---|--|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| 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"/> | | OTHER: _____ <input type="checkbox"/> | |

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.

03-20-91 Plug & Abandon Well
(See Reverse Side)

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

SIGNATURE L.W. Johnson TITLE Engr. Asst. DATE 05/20/91
 TYPE OR PRINT NAME L.W. Johnson TELEPHONE NO. (505) 397-0426

(This space for State Use)

APPROVED BY R. ... TITLE OIL & GAS INSPECTOR DATE JUN 10 1991
 CONDITIONS OF APPROVAL, IF ANY:

Daily Workover Report

Company: Texaco USA

Well Name: SLJU NO. 14

Date Description

Supervisor: L. White

03-18-91 MIRU Gene's WS Unit No. 312. ND WH. NU BOP. Held 15 min. Safety meeting to discuss P & A procedure. Rel. tension Pkr. POOH w/63 Jts. 2-3/8" Tbg., SN, & 103 jts. 2-3/8" Tbg. Tag up on CIBP @ 3270'. Laid dwn. 1 Jt. Tbg. CI BOP. MIRU Bliss P & A Equip. SDFN

03-19-91 Mixed & pumped 6 sx class "c" cmt. & displ. w/12.6 BMLF. First plug from 3270' to 3211'. POOH & laid dwn. 4 jts. 2-3/8" Tbg. Mixed & pumped 67 BMLF to load hole. POOH & laid dwn. 11 Jts. Tbg. Mixed & pumped 25 sx class "c" cmt. from 3280' to 2862'. Disp. w/10.9 BMLF. POOH & laid dwn. 54 Jts. Tbg. Mixed & pumped 25 sx class "c" cmt. from 1082' to 985'. Displ. w/4.1 BMLF. POOH & laid dwn. remaining 33 Jts. Tbg. RU WL Truck. RIH w/strip jet to 180' & perf 7/4" x 8" holes. CI BOP. Pumped 3 Bbl. brine to est. circ. Mixed & pumped 50 sx class "c" cmt. dwn. 5-1/2" Csg. & up 5-1/2" x 8-5/8" annulus to set surface plug. Clean & flushed BOP & lines.

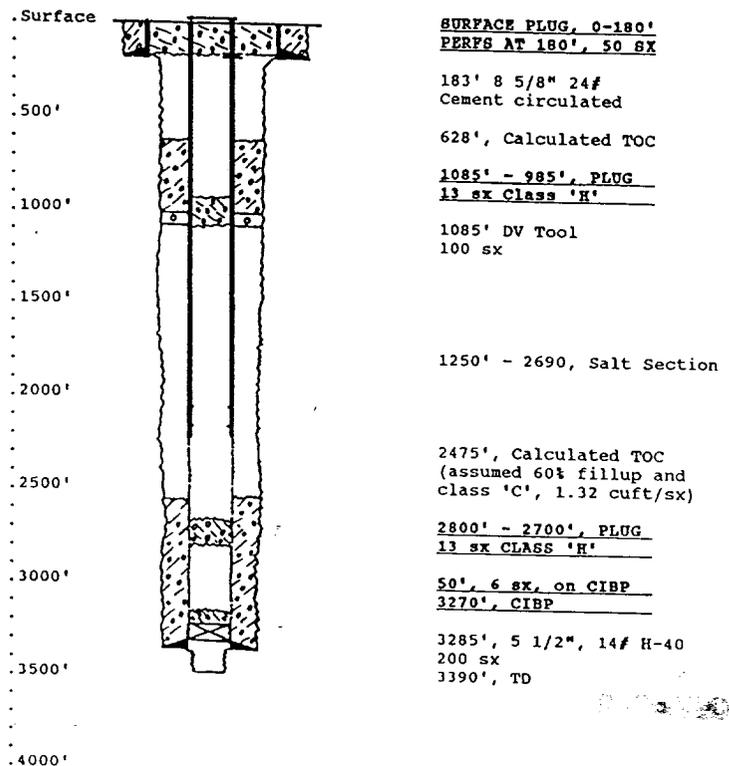
03-20-91 RD WS unit . RD P&A Equip.. Had welder cut off WH & "deadmen". Tapped out 5-1/2" csg. w/ cmt. Built dry hole marker & installed. on cut off csg.. Moved off equip.. Final report.

Final Report

SLJU #14
Jalmat Queen, 7-R, Yt
9-05-90

Sec 17, T25S, R37E
Unit D, 990FNL, 466FWL
3119' KB

PROPOSED PLUGGING OPERATOR



Hole Sizes: 11" , 0 - 185'
7 7/8", 185 - 3285'
4 3/4", 3285 - 3390'

MAR 20 1991

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87412
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
FEB 14 2012

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

WELL API NO. 30-025-11638
5. Indicate Type of Lease STATE [] FEE [x]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name South Langlie Jal Unit
8. Well Number 23
9. OGRID Number 160825
10. Pool name or Wildcat Jalmat Tansil Yates Seven Rivers
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3111' DF

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 [x] Other TA'd Injector []
2. Name of Operator BC Operating, Inc.
3. Address of Operator P.O. Box 50820 Midland, Texas 79710
4. Well Location Unit Letter K : 2310 feet from the South line and 2310 feet from the West line
Section 17 Township 25S Range 37E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3111' DF

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON [x]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
OTHER: []
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING []
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions, attach wellbore diagram of proposed completion or recompletion.

Proposed Procedure: 3138'
RIH & set CIBP @ 2865'. Circ plugging mud & spot 40 sx on top of CIBP.
Spot 40 sx @ 1450' & tag.
Spot 15 sx from 60' to surface. Perf at 262'. Attempt to circ cut to surface.
Install PA marker & clean & level location per OCD regulations.

Will notify OCD 24 hours prior to commencing plug & abandon operations.

The Oil Conservation Division Must be notified 24 hours prior to the beginning of plugging operations.
WOC 1
TOL @ BOS
TAG at 2650 or better

Spud Date: 09/26/51

Rig Release Date: 12/24/51

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

SIGNATURE Pam Stevens TITLE Regulatory Analyst DATE 02/09/2012

Type or print name Pam Stevens E-mail address: pstevens@bcoperating.com PHONE: 432-684-9696

For State Use Only

APPROVED BY: [Signature] TITLE Compliance Officer DATE 2-21-2012
Conditions of Approval (if any):

Current

LOG ZERO = 9' Above G.L.

Ground Level: 3102'

8 5/8", 24" to 212'

(Cmt'd. w/ 125 srs. WITH SURFACE PLUGS)

How Sizes

0 - 212', 12"

212 - 2792', 7 7/8"

2792 - 3405', 4 3/4"

5 1/2", 14" from 0 - 2792'

(Cmt'd. w/ 200 srs. OUT SHOW
w/ 200 srs. OUT DV tool at 1121')

4" 44000, 9.11" FJ Liner

from 2708 - 3405'

(Cmt'd. w/ 80 srs.)

PBTO = 3403'

TO = 3405'

SOUTH LANGHE JAL UNIT, Well #23-101W

(Formerly So. Cal. Pet. Corp. Well #23-101)

JALMAT (OIL) POOL

LEN Co., NEW MEXICO

DATE: 8/22/77

← 1121'
DV Tool

← INJECTION INTERVAL
3230 - 3370' (51 holes)

Proposed

LOG ZERO: 9' Above G.L.

Ground Level: 3102'

60'

SOUTH LANGUE TAL UNIT, Well #23-101W

(Formerly So. Cal. Pet. Co. Prop. WOODMEN C, #1)

TALMAT (OIL) POOL

LEA CO., NEW MEXICO

8 5/8" 24" to 212'
(Cmt'd. w/ 125 sp. WITH
SERRAS RUTT.)

262'



CR. 9/23/70

HOUS SIZES

0 - 212', 12"

212 - 2792', 7 7/8"

2792 - 3405', 4 3/4"

← 1121'
OV Tool

25SX @ 1160'

25SX @ 2650'

5 1/2" 14" from 0-2792'
(Cmt'd. w/ 200 sp. OUT SHOW
w/ 200 sp. OUT OV tool at 1121')

4" 11.1" FJ Liner
from 2708 - 3405'

(Cmt'd. w/ 80 sp.)

INJECTION INTERVAL
← 3238 - 3392' (51 holes)

PBTD = 3403'

TD = 3405'

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-103
 Revised August 1, 2011

FEB 14 2012

RECEIVED

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 TA'd Injector
 2. Name of Operator: BC Operating, Inc.
 3. Address of Operator: P.O. Box 50820 Midland, Texas 79710

WELL API NO. 30-025-11645
 5. Indicate Type of Lease: STATE FEE
 6. State Oil & Gas Lease No.
 7. Lease Name or Unit Agreement Name: South Langlie Jal Unit
 8. Well Number: 26
 9. OGRID Number: 160825
 10. Pool name or Wildcat: Jalmat Tansil Yates Seven Rivers

4. Well Location
 Unit Letter M : 330 feet from the South line and 330 feet from the West line
 Section 17 Township 25S Range 37E NMPM County Lea
 11. Elevation (Show whether DR, RKB, RT, GR, etc.): 3092' DF

12. 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
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE
 OTHER:

SUBSEQUENT REPORT OF:
 REMEDIAL WORK ALTERING CASING
 COMMENT DRILLING OPNS. P AND A
 CASING JOB
 OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completion, include wellbore diagram of proposed completion or recompletion.

Proposed Procedure:
 RIH & set CIBP @ 3140'. Circ plugging mud & spot ³⁵ 25 sx on top of CIBP. (BOS)
 Spot 40 sx @ 1450' & tag. (TOS & DV TOOL)
 Spot 15 sx from 60' to surface. Perf at 216'. Attempt to circ cnt to surface. (inside & outside)
 Install PA marker & clean & level location per OCD regulations.

Will notify OCD 24 hours prior to commencing plug & abandon operations.

Spud Date: 08/01/53

Rig Release Date: 08/26/53

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

SIGNATURE Pam Stevens TITLE Regulatory Analyst DATE 02/09/2012

Type or print name Pam Stevens E-mail address: pstevens@bcoperating.com PHONE: 432-684-9696

For State Use Only

APPROVED BY: Mark Whitaker TITLE Compliance Officer DATE 2-21-2012
 Conditions of Approval (if any):

FEB 21 2012

KB: 3093'

DF: 3092'

GL: 3084'

10 3/4", 32.75#, csg, @:166'
w/150 sx

DV COLLAR @ 1160'
CONTD WITH 150 SX

1500'

TOC@ 2000'

Hole size: 7 7/8"

3190' -3264' 7 Rivers

5 1/2", 15.5 #, J-55 csg, @:3285'
w/250 sx

TD: 3365'

CHAPARRAL ENERGY, INC.

Well: So. Langlie Jal Unit ; 26 , 959000--
Operator: Chaparral Energy, Inc.
Location: Lea Co., NM
Legal: Sec. 17-258-37E

Dir:

Spud Date:
Drilling Finished:
Completion Date:
First Production:

HISTORY:
FORMATION TOPS:
QUEEN @ 3210', 7 RIVERS @ 3070', YATES @ 2797',
B SALT @ 2705', T. SALT @ 1208', ARMY @ 1030'.

Input by: Trish
Approved by:
Last Update: 03/28/01

Current

KB: 3093'

DF: 3092'

GL: 3084'

CHAI RRAL ENERGY, INC.

Well: So. Langlie Jal Unit ,26 , 959000--
Operator: Chaparral Energy, Inc.
Location: Lea Co., NM
Legal: Sec. 17-25S-37E

Dir:

Spud Date:
Drilling Finished:
Completion Date:
First Production:

HISTORY:
FORMATION TOPS:
QUEEN @ 3210', 7 RIVERS @ 3070', YATES @ 2797',
B SALT @ 2705', T. SALT @ 3208', ANHY @ 3030'.

10 3/4", 32.75#, csg, @:166'
w/150 sx

35SX

35SX

35 SX @ 216'

DV COLLAR @ 3160'
CMTB WITH 150 SX

25SX

25SX @ 1208'

TOCG 2000'

Hole size: 7 7/8"

25SX

25SX @ 2705'

CRetainer @ 3020'

40SX

3190' -3264' 7 Rivers

5 1/2", 15.5 #, J-55 csg, @:3285"
w/250 sx

TD: 3365'

Input by: Trish
Approved by:
Last Update: 03/28/01

Proposed

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 Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised March 25, 1999

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

WELL API NO.
30-025-11619

5. Indicate Type of Lease
 STATE FEE

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name:
South Langlie JAL Unit

1. Type of Well:
 Oil Well Gas Well Other WIW

8. Well No. 13-WIW

2. Name of Operator
Smith & Marris Inc.

3. Address of Operator
Box 863 Kermit, TX. 79745

9. Pool name or Wildcat
Langlie Mattix

4. Well Location

Unit Letter A : 990 feet from the EAST line and 990 feet from the North line

Section 18 Township 25S Range 37E NMPM County Lea

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

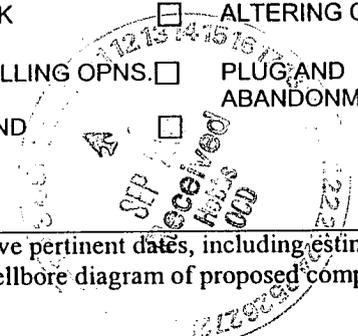
11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING 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 recompilation.

Set CIBP @ 3100
Spot 25sv6 @ 3100-2900
Spot 25sv5 @ 2630-2500
Spot 25sv5 @ 1630-1430
Perf @ 351'
Squeeze 40 sv5 @ 351-251' & tag
Spot 10 sv5 @ 50' to surface

THE OIL CONSERVATION DIVISION MUST BE NOTIFIED 24 HOURS PRIOR TO THE BEGINNING OF PLUGGING OPERATIONS.

INSTALL DRY Hole Marker - Cir 10" # MUD

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

SIGNATURE [Signature] TITLE Pres DATE 9-6-06

Type or print name Rickey Smith Telephone No. 432-586-3076
 (this space for State use)

APPROVED BY [Signature] TITLE FIELD REPRESENTATIVE II/STAFF MANAGER DATE SEP 14 2006
 Conditions of approval, if any:

LOG ZERO = 7' ABOVE G.L.

GL = 3106'

8 5/8", 24# to 301'
(Cmt'd. w/ 200 SYS. WITH SURFACE RETURNS)

HOLE SIZES

13 3/4", 0 - 301'

7 7/8", 301 - 3320'

5 1/2", 14# to 3230'
(Cmt'd. w/ 200 SYS. OUT SHOE + 200 SYS. OUT 2 STAGE TOOL AT 1580')

SOUTH LAGLIE JAL UNIT, #13-WIW

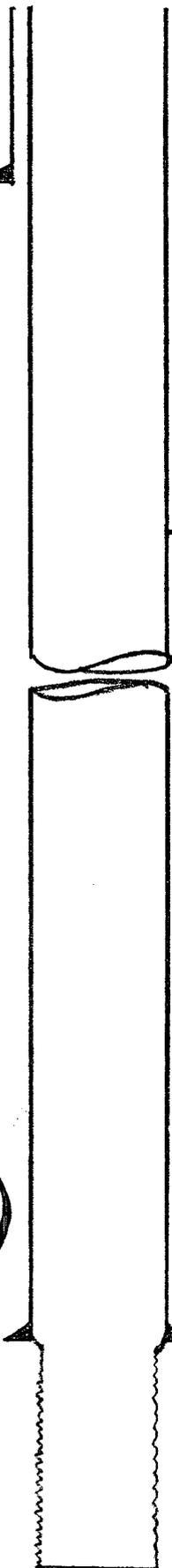
(Formerly DALPORT'S, WINTERS 'E', #2)

JALMAT (OIL) FIELD

LEA CO., NEW MEXICO

CRC 11/6/76

1580', 2 STAGE TOOL



TD - 3230'

District I 1625 N. French Dr., Hobbs, NM 88249
District II 1301 W. Grand Ave., Artesia, NM 88210
District III 1000 Rio Brazos Rd., Aztec, NM 87410
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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JUL 09 2010

HOBSOCD

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO. 30-025-11617
5. Indicate Type of Lease STATE [] FEE [X]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name South Langlie Jal Unit []
8. Well Number 17 []
9. OGRID Number 160285 160825 []
10. Pool name or Wildcat Langlie Mattix Seven Rivers-Queen-GB

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 [X] Gas Well [] Other []
2. Name of Operator B C Operating, Inc []
3. Address of Operator P O Box 50820 Midland, TX 79710
4. Well Location Unit Letter H : 2310' feet from the North line and 330' feet from the East line
Section 18 Township 25S Range 37E NMPM Lea County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3090' RT

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

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []

SUBSEQUENT REPORT OF:

- REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []

OTHER [] OTHER []

13. 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.

- 1. RIH w/ CIBP set @ 3321', circulate plugging mud, spot 40 45 sx on top, tag above 2978'.
2. Spot 25 sx @ 1453' -> Spot 25 sx cmt plug @ 2674'
3. Spot 25 sx @ 1227' 35 sx -> Perf & SQ 35 sx cmt @ 1250' - WOC/TAG
4. Perf & 25 sx @ 366', WOC - TAG
5. Perf & circulate 35 sx from 60' to surface.
6. Cut off wellhead and anchors, clean location.

Spud Date: 2/22/07

Rig Release Date: 3/21/07

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

SIGNATURE Tami Parker TITLE Regulatory Analyst DATE 7/6/10

Type or print name Tami Parker E-mail address: tparker@blackoakres.com PHONE: (432) 684-9696

For State Use Only

APPROVED BY [Signature] TITLE STAFF MGR DATE 7-13-10

Conditions of Approval (if any):

RM

SLJU #17

LEASE & WELL NO. South Langlie Jal Unit #17
 FIELD NAME Langlie Mattix Seven Rivers -Queen-GB
 LOCATION 2310' FNL & 330' FEL, UL H Sec 18 T25S-R37E

Also Known As Winters D #1
 COUNTY & STATE Lea Co., New Mexico
 API NO. 30-025-11617

K.B. ELEV. _____
 D.F. ELEV. _____
 GROUND LEVEL 3080'

SURFACE CASING
 SIZE 10-3/4" WEIGHT 32.75# DEPTH 316'
 GRADE _____ SX. CMT. 200 sx TOC @ Surf

INTERMEDIATE CASING
 SIZE _____ WEIGHT _____ DEPTH _____
 GRADE _____ SX. CMT. _____ TOC @ _____

WELL HISTORY

COMPLETION DATE: 3/10/53

CURRENT COMPLETION

| Formation Tops MD | |
|-------------------|-------|
| Anhydrite | 1149' |
| Top Salt | 1246' |
| Base Salt | 2674' |
| Yates | 2814' |
| 7 Rivers | 3025' |
| Queen | 3177' |

5-1/2" liner 3078-3596' cmt w/ 50 x

2" @ 3200'

TS @ 1246

TOC @ 1340' TS

BS @ 2674

Original Open Hole Completion - 1953
 3200-3336'
 Deepened to 3596'-2007
 Perf 3371-3485'

PRODUCTION CASING
 SIZE 7" WEIGHT 23# DEPTH 3200'
 GRADE J-55 SX. CMT. 400 sx TOC @ 1340'

PBTD@ _____
 TD@ 3596'

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

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AUG 13 2010
HOBSOCD

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

| |
|---|
| WELL API NO. 30-025-26293 |
| 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name South Langlie Jal Unit |
| 8. Well Number 28 |
| 9. OGRID Number 160825 |
| 10. Pool name or Wildcat Jalmat Tansill Yates Seven Rivers |

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
B C Operating, Inc.

3. Address of Operator
P.O. Box 50820 Midland, TX 79710

4. Well Location
Unit Letter I : 1923 feet from the South line and 1111 feet from the East line
Section 18 Township 25S Range 37E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3096' GR, 3104' KB

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

| | | | |
|--|--|--|--|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input checked="" 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 type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING/CEMENT JOB <input type="checkbox"/> | |
| DOWNHOLE COMMINGLE <input type="checkbox"/> | | | |
| OTHER: <input type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

1. Set CIBP @ 3194' - circulate w/plugging mud - spot 25 sks on top of CIBP
2. Spot 25 sks @ 2864'
3. Spot 25 sks @ 1296'
4. Spot 25 sks @ 685' - Tag
5. Circulate 15 sks from 60' to surface
6. Cut off well head on anchors - level location

The Oil Conservation Division **Must be notified 24 hours prior** to the beginning of plugging operations

Spud Date: 4/3/79

Rig Release Date: 4/17/79

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

SIGNATURE Star L. Harrell TITLE Regulatory Analyst DATE 8/12/10

Type or print name Star L. Harrell E-mail address: sharrell@blackoakres.com PHONE: 432-684-9696

APPROVED BY: [Signature] TITLE DISTRICT 1 SUPERVISOR DATE SEP 22 2010

Conditions of Approval (if any):

RM

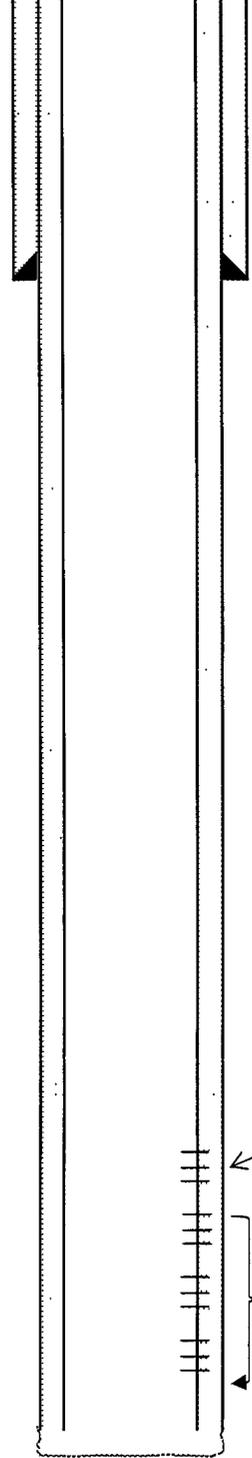
SLJU #28

LEASE & WELL NO. South Langlie Jal Unit #28
 FIELD NAME Langlie Mattix Seven Rivers -Queen-GB
 LOCATION 1923' FSL & 1111' FEL, UL I Sec 18 T25S-R37E

Also Known As _____
 COUNTY & STATE Lea Co., New Mexico
 API NO. 30-025-26293

K.B. ELEV. 3104'
 D.F. ELEV. _____
 GROUND LEVEL 3096'

CURRENT COMPLETION



| Formation Tops MD | |
|-------------------|-------|
| Anhydrite | 1149' |
| Top Salt | 1246' |
| Base Salt | 2674' |
| Yates | 2814' |
| 7 Rivers | 3025' |
| Queen | 3177' |

SURFACE CASING
 SIZE 8-5/8" WEIGHT 24# DEPTH 635'
 GRADE _____ SX. CMT. 400 sx TOC @ Surf

INTERMEDIATE CASING
 SIZE _____ WEIGHT _____ DEPTH _____
 GRADE _____ SX. CMT. _____ TOC @ _____

WELL HISTORY

COMPLETION DATE: 6/11/79

PRODUCTION CASING
 SIZE 5-1/2" WEIGHT 15.5# DEPTH 3612'
 GRADE J-55 SX. CMT. 800 sx TOC @ Surface

PBTD@ 3400'
 TD@ 3612'

Re-Perf 3244-3348'
 acidized w/ 1050 gals 15% HCl & :
 frac w/ 16,000 gals Versagel + 14,
 & 6000# 10/20 sand.

Perf'd 3244-3522' - squeezed w/ 550 sx (5/

SLJU #28

LEASE & WELL NO. South Langlie Jal Unit #28
FIELD NAME Langlie Mattix Seven Rivers -Queen-GB
LOCATION 1923' FSL & 1111' FEL, ULI Sec 18 T25S-R37E

Also Known As _____
COUNTY & STATE Lea Co., New Mexico
API NO. 30-025-26293

K.B. ELEV. 3104'
D.F. ELEV. _____
GROUND LEVEL 3096' Circ 15 sx cmt 60'-0'

SURFACE CASING
 SIZE 8-5/8" WEIGHT 24# DEPTH 635'
 GRADE _____ SX. CMT. 400 sx TOC @ Surf

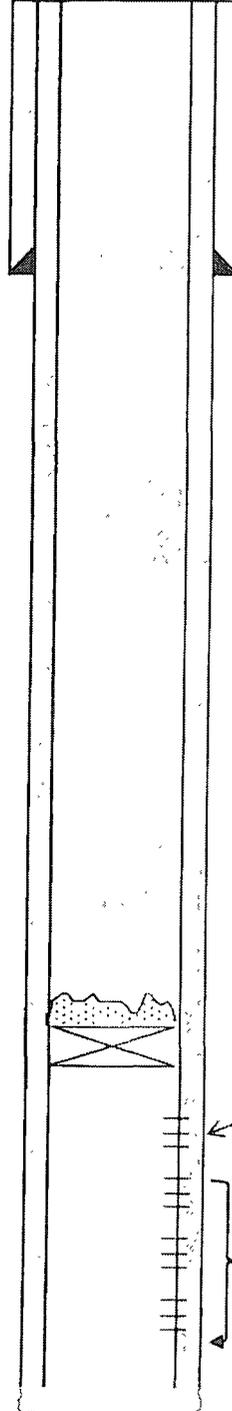
INTERMEDIATE CASING
 SIZE _____ WEIGHT _____ DEPTH _____
 GRADE _____ SX. CMT. _____ TOC @ _____

WELL HISTORY

COMPLETION DATE: 6/11/79

PRODUCTION CASING
 SIZE 5-1/2" WEIGHT 15.5# DEPTH 3612'
 GRADE J-55 SX. CMT. 800 sx TOC @ Surface
 PBTD@ 3400'
 TD@ 3612'

PROPOSED P&A



| Formation Tops MD | |
|-------------------|-------|
| Anhydrite | 1149' |
| Top Salt | 1246' |
| Base Salt | 2674' |
| Yates | 2814' |
| 7 Rivers | 3025' |
| Queen | 3177' |

Spot 25 sx cmt @ 685'

Spot 25 sx cmt @ 1296'

Spot 25 sx cmt @ 2864'

CIBP @ 3194' w/ 25 sx cmt on top

Re-Perf 3244-3348'
 acidized w/ 1050 gals 15% HCl & 1
 frac w/ 16,000 gals Versagel + 14,
 & 6000# 10/20 sand

Perf'd 3244-3522' - squeezed w/ 550 sx (5/8)

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 Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised March 25, 1999

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

WELL API NO. 30-025-11615
 5. Indicate Type of Lease
 STATE FEE
 6. State Oil & Gas Lease No.

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 WIW
 2. Name of Operator Smith & Marris Inc.
 3. Address of Operator Box 863 Kermit, TX. 79745
 4. Well Location
 Unit Letter I : 330 feet from the East line and 2310 feet from the South line
 Section 18 Township 25-S Range 37-E NMPM County Lea

7. Lease Name or Unit Agreement Name:
South Langlie FAL Unit
 8. Well No. 21-WIW
 9. Pool name or Wildcat
Langlie Mattie

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

| | | | |
|--|--|---|---|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input checked="" 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 type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPLETION <input type="checkbox"/> | CASING TEST AND CEMENT JOB <input type="checkbox"/> | |
| OTHER: <input type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

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 recompilation.

Set CIBP @ 3000' - Spot Dump 35' cement on top
Set CIBP @ 2700' - Spot 35 SVS on top - 2600' (SALT)
Spot 35 SVS @ 1210' - 1000' (SALT) & tag
Perf @ 210' - Squeeze 70 SVS @ 210' - SURFACE



THE OIL CONSERVATION DIVISION MUST BE NOTIFIED 24 HOURS PRIOR TO THE BEGINNING OF PLUGGING OPERATIONS.

Install DRY Hole Marker - Cir. 10TH MUD

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

SIGNATURE [Signature] TITLE Pres DATE 9-6-06

Type or print name Rickey Smith Telephone No. 432-586-3076

APPROVED BY [Signature] TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE SEP 14 2006

Conditions of approval, if any:

LOG ZERO: 9' above G.L.

G.L. = 3095'

10 3/4", 32.75# csg to 159'

(CMTD. w/ 115 xts. w/ surface)
RETURNS

HOLE SIZES

0 - 160', 12 1/4"

160 - 3168', 8 3/4"

3168 - 3336', 6 1/4"

SOUTH LAGLIE JAL UNIT, WELL # 21 - WIT

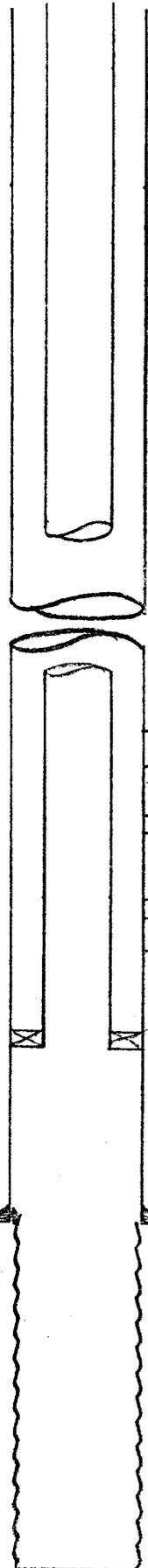
(DUAL w/ Vosburg #1 - YATES CWS T.A.2)

(Formerly So. Cal. Pet. Corp., VOSBURG, #1)

LANGLIE MATTIX FIELD

LEA CO., NEW MEXICO

CRC 8/19/77



"YATES"

2770' - 4 holes

2792 - 2828', 144 holes

2838 - 68', 144 holes

2878 - 2900', 88 holes

RRR at 3081'

7", 20123# to 3168'

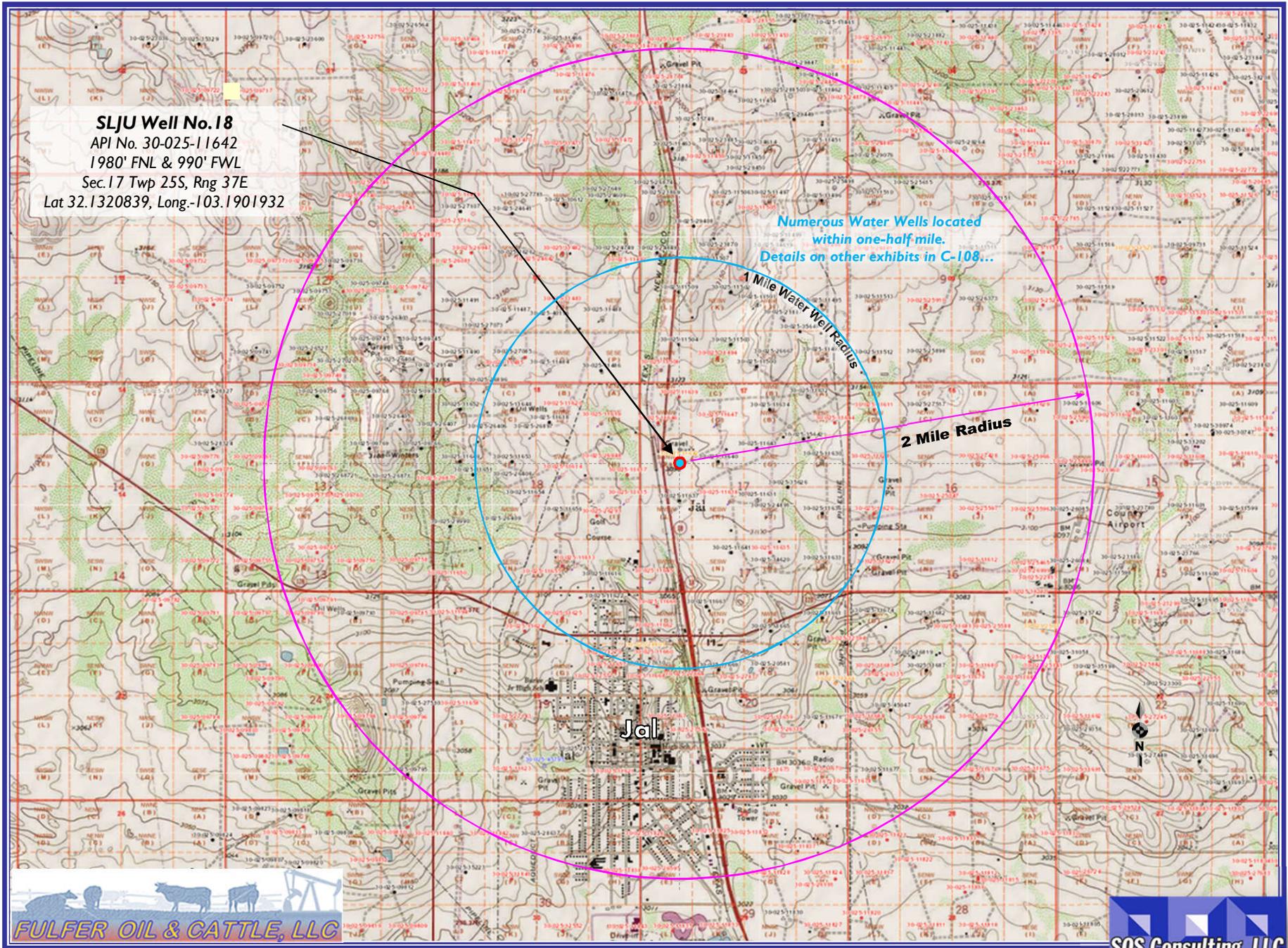
(CMTD. w/ 200 xts. OUT SHOW
+ 100 xts. OUT DV Tool at 1052')

7" RIVERS OPEN-HOLE

TD - 3336'

South Langlie Jal Unit No.18 - Area of Review / 2 Miles

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



SLJU Well No. 18
API No. 30-025-11642
1980' FNL & 990' FWL
Sec.17 Twp 25S, Rng 37E
Lat 32.1320839, Long.-103.1901932

Numerous Water Wells located within one-half mile. Details on other exhibits in C-108...

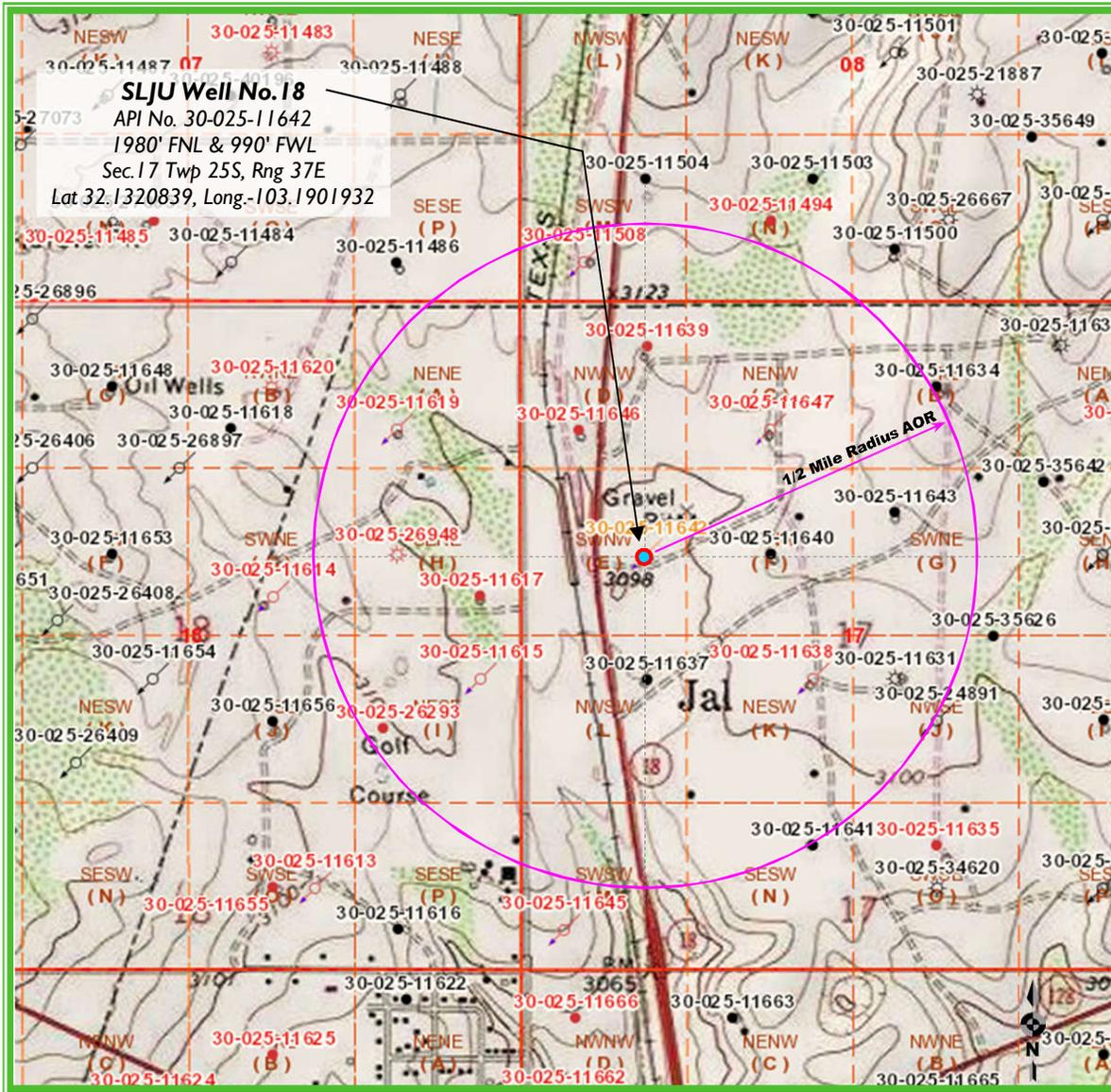
1 Mile Water Well Radius

2 Mile Radius

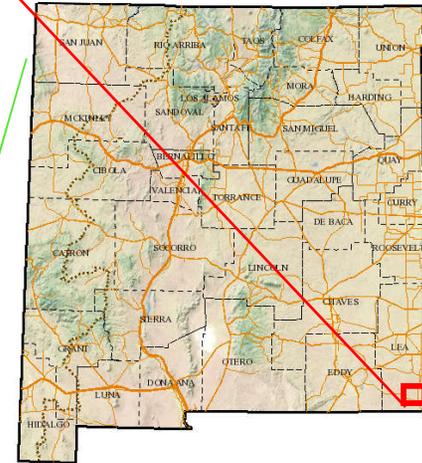
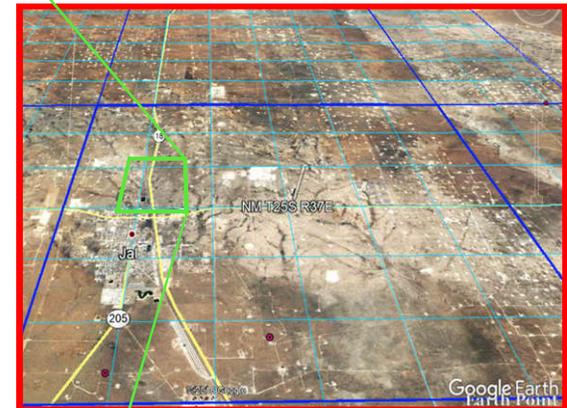


South Langlie Jal Unit No.18 - Area of Review / Overview Map

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



~1.0 miles North of Jal, NM



Lea County, New Mexico



C-108 ITEM X

LOGS and AVAILABLE TEST DATA

A log strip from the subject well is attached
With annotations.

LOG STRIP FOLLOWS

CHAPARRAL ENERGY INC

SOUTH LANGLEIE JAL UNIT # 18



30-025-11642

LANE RADIOACTIVITY LOG WELLS

COMPANY

FILE NO

| | | |
|---|---|--|
| Location of Well <i>Unit #18</i> 3097' O.L. 3101' D.P. | COMPANY: CULBERTSON & IRWIN, INC. WELL: WOODWORTH "B" NO. 4 FIELD: LANGLEIE MATTIX COUNTY: LEA STATE: N.M. LOCATION: 1980' FS OF NL 990' E OF WL SEC. 17 - 25 S - 37 E | COMPANY: CULBERTSON & IRWIN, INC. WELL: WOODWORTH B NO. 4 FIELD: LANGLEIE MATTIX COUNTY: LEA STATE: N.M. LOCATION: |
| | LOG MEAS. FROM ROTARY TABLE ELEV. 3105' DRLG. MEAS. FROM ROTARY TABLE ELEV. 3105' PERM DATUM 7" BRADEN HEAD ELEV. 3095' | |

| TYPE OF LOG | GAMMA RAY | NEUTRON |
|----------------------------------|-----------|---------|
| RUN NO | 1 N.W. | 1 N.W. |
| DATE | 4-6-52 | 4-7-52 |
| TOTAL DEPTH (DRILLER) | 3395' | 3395' |
| EFFECTIVE DEPTH (DRILLER) | 3395' | 3395' |
| TOP OF LOGGED INTERVAL | 2600' | 2600' |
| BOTTOM OF LOGGED INTERVAL | 3397' | 3397' |
| TYPE OF FLUID IN HOLE | OIL | OIL |
| FLUID LEVEL | FULL | FULL |
| MAXIMUM RECORDED TEMP. | | 600N |
| NEUTRON SOURCE STRENGTH & TYPE | | 8.25" |
| SOURCE SPACING - IN. | | 9" |
| LENGTH OF MEASURING DEVICE - IN. | 36" | 3 5/8" |
| O.D. OF INSTRUMENT - IN. | 3 5/8" | 3 5/8" |
| TIME CO: START - SECONDS | 6 | 3.2 |
| LOGGING SPEED FT. MIN | 60 | 35 |
| STATISTICAL VARIATION - IN. | | |
| SENSITIVITY REFERENCE | 274 | 275 |
| RECORDED BY | STEWART | STEWART |
| WITNESSED BY | MANNON | MANNON |

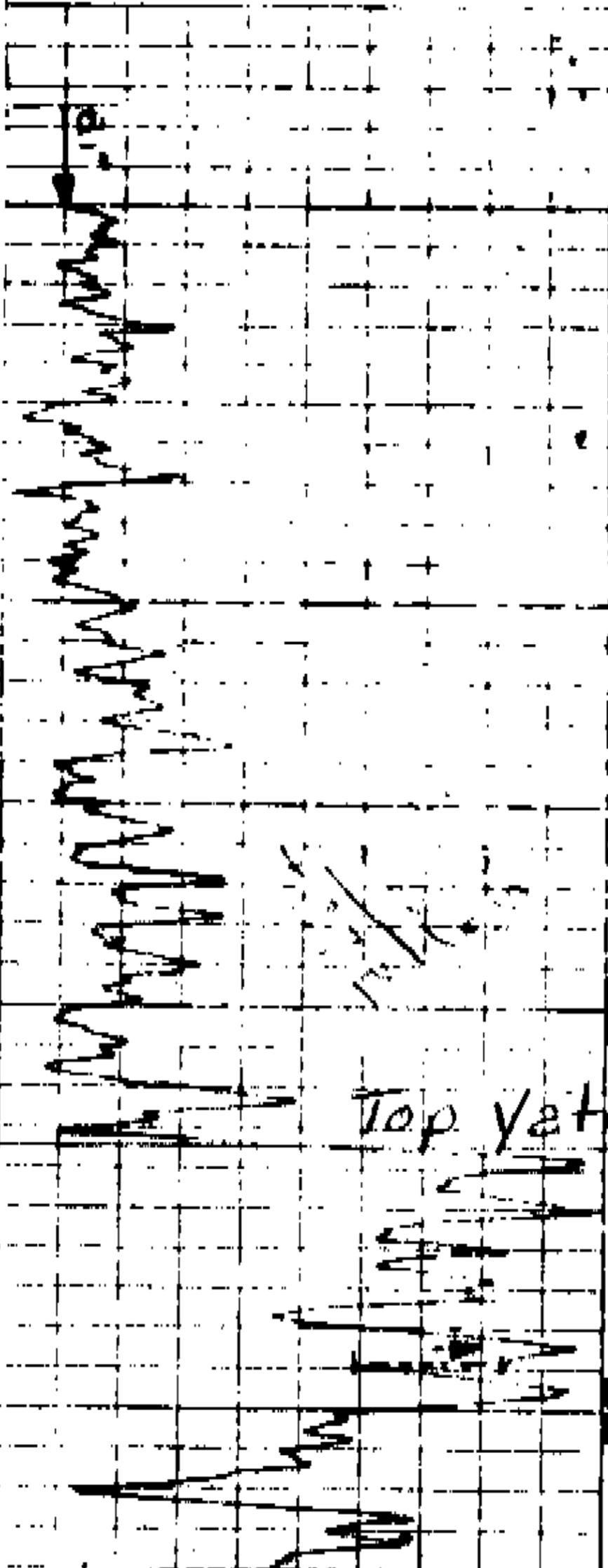
CASING RECORD

| RUN NO. | BIT SIZE | CASING | WT. LB. | FROM WELL RECORD | INTERVAL | FROM R A LOG |
|---------|----------|--------|---------|------------------|----------|--------------|
| 1 | | 7" | | 8170' TO 2816' | | TO |
| 1 | 6 1/4" | | | 2816' TO 3395' | | TO 3399' |
| | | | | TO | | TO |
| | | | | TO | | TO |
| | | | | TO | | TO |

GAMMA RAY



RADIATION INTENSITY INCREASES

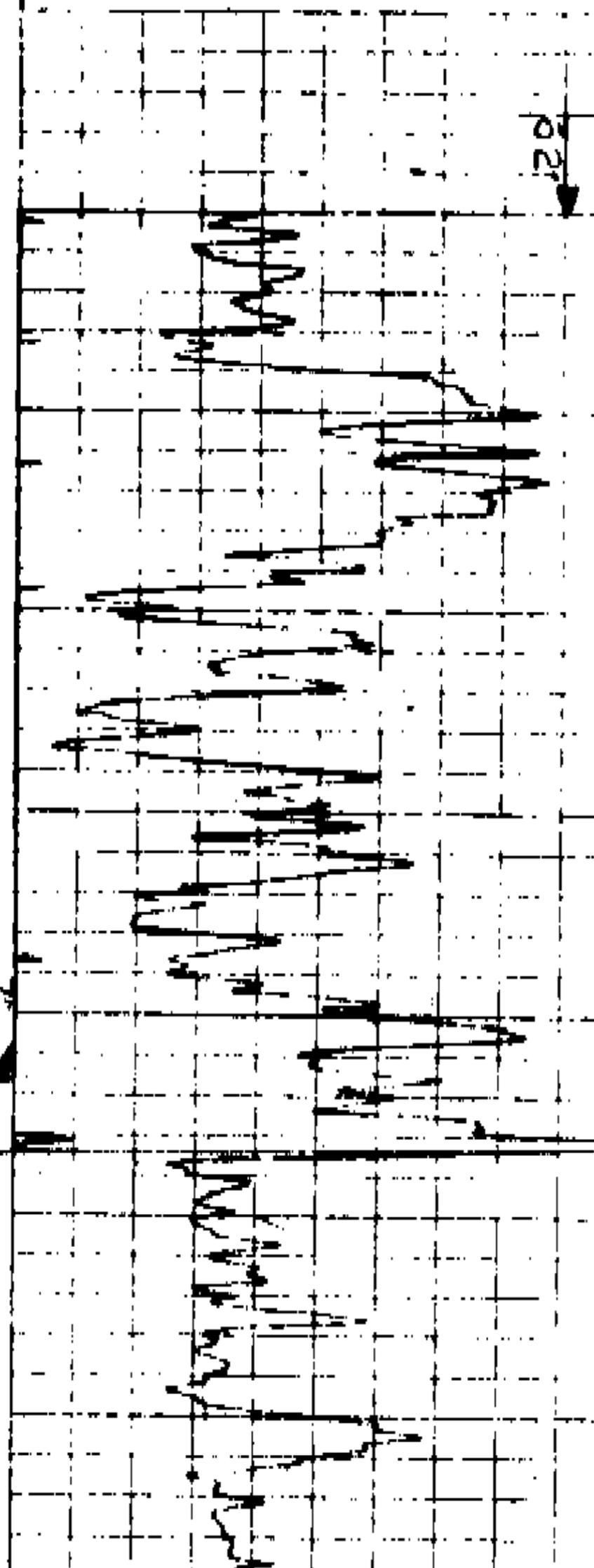


CASING &
CORRECTION LOG
DEPTH

NEUTRON



RADIATION INTENSITY INCREASES



Top Yates

5000

3100

3000

2000

Top Seven Bricks

307

Injection Interval
3197'-3280'

R. D. 3397'

T. D. 3399'

CULBERTSON & IRWIN, INC.
WOOLWORTH # NO 4
LANGUE-MATTIX FIELD

est @

C-108 ITEM VII – PROPOSED OPERATION

The South Langlie Jal Unit Well No.18 will be operated as a private disposal well to service on-lease Fulfer operations. Source and disposal zone is the same Seven Rivers and Queen formation waters.

(Note: This well was previously authorized as an injector by OCD Order R-4022.)

The system will be closed utilizing a tank battery facility located on the well site with flowlines from the serviced wells – currently just 5 wells.

Injection pressure will be 639 psi with rates limited only by that pressure but expected to be **less than 300 bwpd** for the foreseeable future.

Approval of this application will help to keep disposal transports off the roads and enhance public safety.

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.

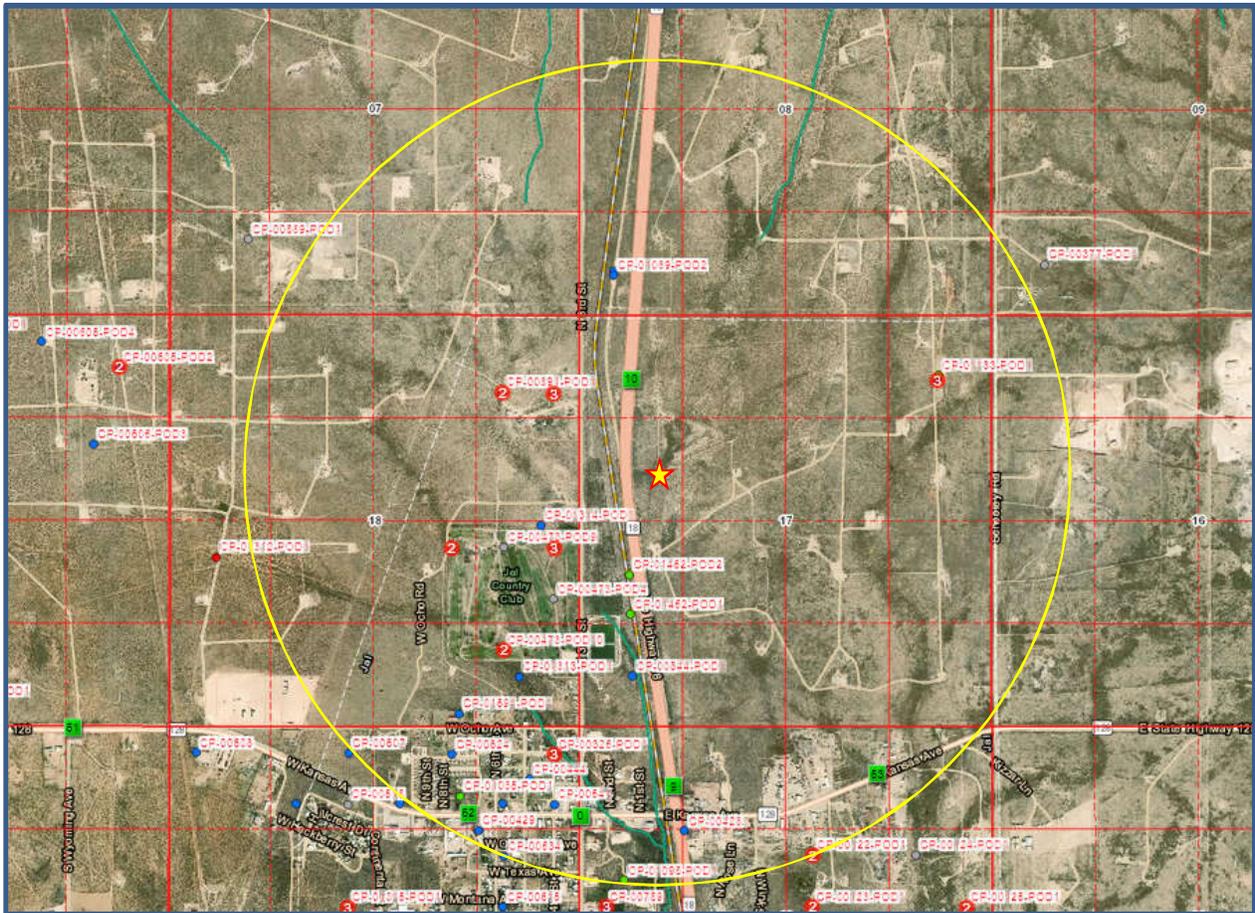
The facility will not be manned but will be available for inspections at any time deemed necessary by OCD.

C-108 Item XI

Water Wells Within One Mile

South Langlie Jal Unit No.18 - Water Well Locator Map

NM State Engineer's records indicate numerous water wells located within one mile of the proposed injection well. One or two will be sampled and analysis will be forwarded upon receipt.





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 | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Depth Well | Depth Water | Water Column |
|------------------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| CP 00120 POD1 | | CP | LE | 3 | 3 | 2 | 20 | 25S | 37E | 671343 | 3554816* | 460 | | |
| CP 00121 POD1 | | CP | LE | 1 | 3 | 2 | 20 | 25S | 37E | 671343 | 3555016* | 510 | | |
| CP 00124 POD1 | R | CP | LE | 1 | 4 | 2 | 20 | 25S | 37E | 671745 | 3555023* | 530 | | |
| CP 00124 POD2 | | CP | LE | 4 | 4 | 2 | 20 | 25S | 37E | 671945 | 3554823* | 530 | 360 | 170 |
| CP 00426 | | CP | LE | | | | 20 | 25S | 37E | 671257 | 3554701* | 235 | 70 | 165 |
| CP 00428 | | CP | LE | | 1 | 20 | 25S | 37E | 670841 | 3555104* | 90 | 60 | 30 | |
| CP 00429 | | CP | LE | | 2 | 19 | 25S | 37E | 670037 | 3555091* | 142 | 37 | 105 | |
| CP 00444 | | CP | LE | | 2 | 2 | 19 | 25S | 37E | 670231 | 3555298* | 101 | 50 | 51 |
| CP 00460 | | CP | LE | 3 | 1 | 2 | 19 | 25S | 37E | 669728 | 3555191* | 128 | 63 | 65 |
| CP 00473 POD1 | | CP | LE | 1 | 4 | 4 | 18 | 25S | 37E | 670122 | 3555800* | 100 | | |
| CP 00473 POD10 | | CP | LE | 1 | 4 | 4 | 18 | 25S | 37E | 670122 | 3555800* | 100 | 48 | 52 |
| CP 00473 POD2 | | CP | LE | 3 | 2 | 4 | 18 | 25S | 37E | 670115 | 3556002* | 100 | 62 | 38 |
| CP 00473 POD3 | | CP | LE | 2 | 2 | 4 | 18 | 25S | 37E | 670315 | 3556202* | 100 | | |
| CP 00473 POD4 | | CP | LE | 4 | 2 | 4 | 18 | 25S | 37E | 670315 | 3556002* | 100 | | |
| CP 00473 POD5 | | CP | LE | 2 | 2 | 4 | 18 | 25S | 37E | 670315 | 3556202* | 100 | | |
| CP 00473 POD6 | | CP | LE | 2 | 1 | 4 | 18 | 25S | 37E | 669913 | 3556196* | 100 | 55 | 45 |
| CP 00473 POD7 | | CP | LE | 2 | 2 | 4 | 18 | 25S | 37E | 670315 | 3556202* | 100 | | |
| CP 00473 POD8 | | CP | LE | 2 | 1 | 4 | 18 | 25S | 37E | 669913 | 3556196* | 100 | | |
| CP 00473 POD9 | | CP | LE | 1 | 2 | 4 | 18 | 25S | 37E | 670115 | 3556202* | 100 | 65 | 35 |
| CP 00515 | | CP | LE | 3 | 4 | 2 | 19 | 25S | 37E | 670137 | 3554795* | 72 | 42 | 30 |
| CP 00524 | | CP | LE | 2 | 1 | 2 | 19 | 25S | 37E | 669928 | 3555391* | 86 | 68 | 18 |
| CP 00524 CLW473863 | O | CP | LE | | 2 | 19 | 25S | 37E | 670037 | 3555091* | 80 | 69 | 11 | |
| CP 00533 | | CP | LE | 4 | 4 | 1 | 19 | 25S | 37E | 669533 | 3554782* | 78 | 40 | 38 |
| CP 00534 | | CP | LE | 1 | 4 | 2 | 19 | 25S | 37E | 670137 | 3554995* | 70 | 40 | 30 |
| CP 00541 | | CP | LE | 4 | 2 | 2 | 19 | 25S | 37E | 670330 | 3555197* | 100 | 38 | 62 |
| CP 00557 | | CP | LE | 3 | 3 | 3 | 20 | 25S | 37E | 670553 | 3553997* | 350 | 42 | 308 |

*UTM location was derived from PLSS - see Help

(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 | POD Sub-Code | basin | County | Q 6 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Depth Well | Depth Water | Water Column | |
|-------------------------------|--------------|-------|--------|-----|------|-----|-----|-----|-----|--------|----------|------------|-------------|--------------|-----|
| CP 00565 | CP | LE | | 3 | 2 | 1 | 19 | 25S | 37E | 669325 | 3555185* | 141 | | | |
| CP 00607 | CP | LE | | 2 | 2 | 1 | 19 | 25S | 37E | 669525 | 3555385* | 90 | 60 | 30 | |
| CP 00608 | CP | LE | | 1 | 1 | 1 | 19 | 25S | 37E | 668930 | 3555378* | 235 | | | |
| CP 00619 | CP | LE | | | 1 | 3 | 20 | 25S | 37E | 670647 | 3554501* | 48 | 25 | 23 | |
| CP 00620 | CP | LE | | 3 | 3 | 1 | 20 | 25S | 37E | 670539 | 3554802* | 59 | 25 | 34 | |
| CP 00661 | CP | LE | | 3 | 3 | 1 | 20 | 25S | 37E | 670539 | 3554802* | 38 | 23 | 15 | |
| CP 00710 | CP | LE | | 3 | 2 | 2 | 19 | 25S | 37E | 670130 | 3555197* | 90 | 40 | 50 | |
| CP 00777 | CP | LE | | | | 3 | 20 | 25S | 37E | 670855 | 3554299* | 100 | 28 | 72 | |
| CP 00789 | CP | LE | | 3 | 3 | 1 | 20 | 25S | 37E | 670539 | 3554802* | 360 | 255 | 105 | |
| CP 00841 | CP | LE | | 3 | 3 | 4 | 19 | 25S | 37E | 669750 | 3553984* | 275 | 235 | 40 | |
| CP 00844 POD1 | CP | LE | | | 3 | 3 | 17 | 25S | 37E | 670626 | 3555707* | | | | |
| CP 01275 POD1 | CP | LE | | | 2 | 2 | 17 | 25S | 37E | 671800 | 3556883 | 35 | | | |
| CP 01275 POD2 | CP | LE | | | 2 | 2 | 17 | 25S | 37E | 671800 | 3556883 | 40 | | | |
| CP 01275 POD3 | CP | LE | | | 2 | 2 | 17 | 25S | 37E | 671800 | 3556883 | 37 | | | |
| CP 01312 POD1 | CP | LE | | | | | 18 | 25S | 37E | 668996 | 3556141 | 500 | | | |
| CP 01313 POD1 | CP | LE | | | 4 | 4 | 18 | 25S | 37E | 670185 | 3555697 | 495 | 275 | 220 | |
| CP 01314 POD1 | CP | LE | | | 4 | 4 | 2 | 18 | 25S | 37E | 670261 | 3556290 | 494 | 300 | 194 |

Average Depth to Water: **91 feet**

Minimum Depth: **23 feet**

Maximum Depth: **360 feet**

Record Count: 43

PLSS Search:

Section(s): 17, 18, 19, 20 Township: 25S Range: 37E

*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.

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.

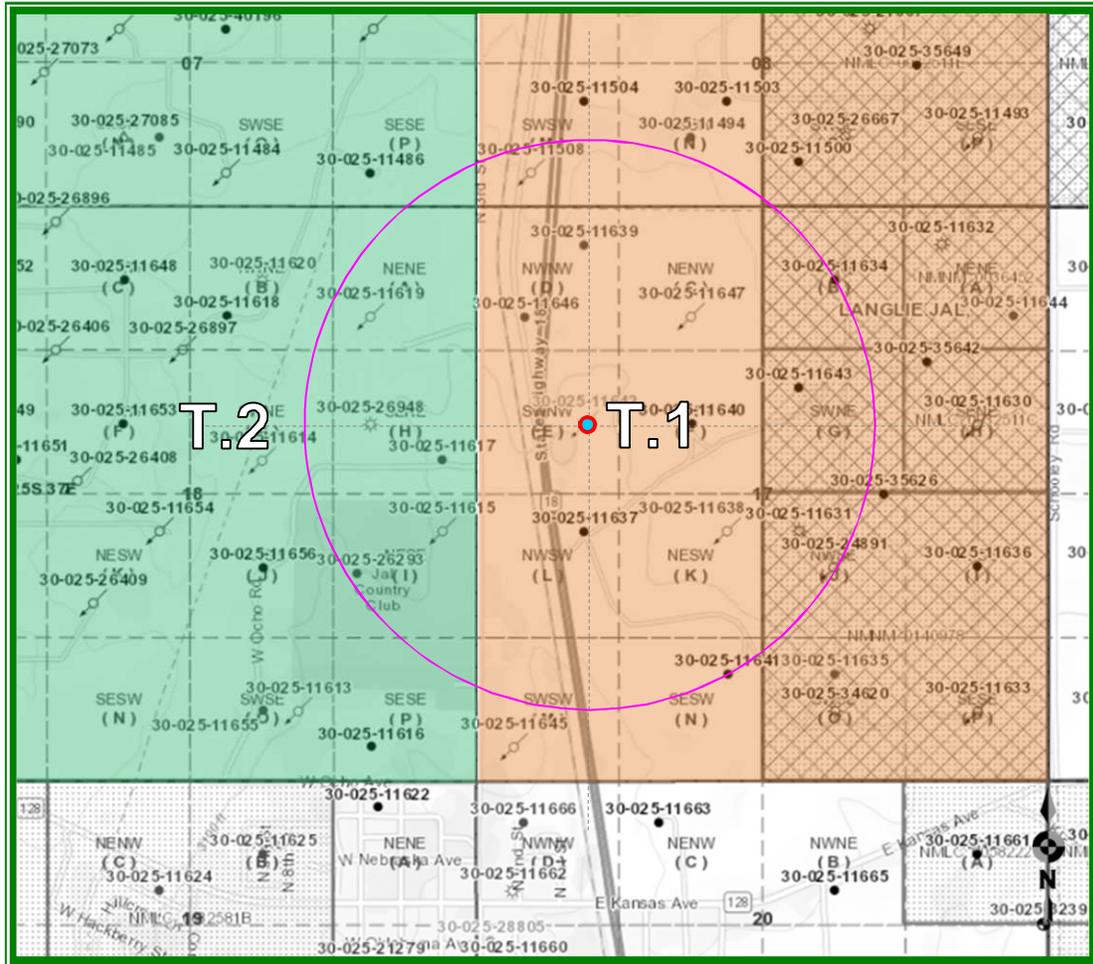


Ben Stone, Partner
SOS Consulting, LLC

Project: Fulfer Oil and Cattle, LLC
SLJU Well No.18
Reviewed 7/25/2019

South Langlie Jal Unit #18 SWD – Affected Parties Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



LEGEND

- T.1 – Split Estate - Jal Public Library / BLM – Fulfer, Pogo (Op)
- T.2 – Fee – Fulfer Investments - Fulfer (Op)

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Affected Parties Map

List of Interested Parties

Notification Letter to Interested Parties

Proof of Certified Mailing

Affidavit Published Legal Notice

C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

SOS Consulting is providing electronic delivery of C-108 applications.

**ALL APPLICABLE AFFECTED PARTIES ARE PROVIDED A LINK IN THE NOTICE LETTER
TO A SECURE SOS/ CITRIX SHAREFILE® SITE TO VIEW AND DOWNLOAD
A FULL COPY OF THE SUBJECT C-108 APPLICATION IN PDF FORMAT.**

"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B. 2.

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Split Estate – BLM Lease (T.1 Affected Parties Plat)

Operators

FULFER OIL & CATTLE (Applicant)
P.O. Box 1224
Jal, NM 87252

- 2 POGO OIL & GAS OPERATING, INC.
1515 Calle Sur, Ste.174
Hobbs, NM 88240
Certified: 7018 2290 0001 2038 6162

Private Lease (T.2 on Affected Parties Plat)

Operator

FULFER OIL & CATTLE (Applicant)
P.O. Box 1224
Jal, NM 87252

REGULATORY

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

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

August 7, 2019

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

To Whom It May Concern:

Fulfer Oil and Cattle Company, Jal, New Mexico, has made application to the New Mexico Oil Conservation Division to utilize a previously authorized injection well for salt water disposal its South Langlie Jal Unit Well No.18. The SWD operation will be for **private water disposal** from **on-lease operations**. As indicated in the notice below, the well is located in Section 17, Township 25 South, Range 37 East in Lea County, New Mexico.

The published notice states that the interval will be from 3,197 feet to 3,280 feet into the Seven Rivers and Queen formations.

Following is the notice published in the Hobbs Daily News-Sun, Hobbs, New Mexico on or about July 24, 2018.

LEGAL NOTICE

Fulfer Oil & Cattle, LLC, P.O. Box 1224, Jal, NM 87252 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to [re]permit for waterflood injection its South Langlie Jal Unit No.18. The previously authorized injection well is located 1980' FNL & 990' FWL in Section 17, Township 25 South, Range 37 East in Lea County, 5.3 miles north of Jal, New Mexico. Produced water from ON-LEASE will be reinjected into the Seven Rivers and Queen formations through an openhole interval from 3197 feet to maximum depth of 3280 feet. The maximum injection pressure will be 639 psi surface (0.2 psi/ft gradient) and 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 is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link: <https://sosconsulting.sharefile.com/d-s7dc769f94b14c50b>
(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.)*

The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (One copy may be downloaded and shared as needed among your company.)

If preferred, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use a subject like **"SLJU #18 August 2019 PDF Copy Request"**.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC
Agent for Fulfer Oil & Cattle Company

Cc: Application File

SOS Consulting is committed to providing superior quality work using technology to assist clients and affected parties in obtaining the documentation required. SOS will continue to utilize methods which are less energy and resource intensive including, the reduction of paper copies.

We hope you'll partner with us and appreciate these efforts.

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C-108 - Item XIV

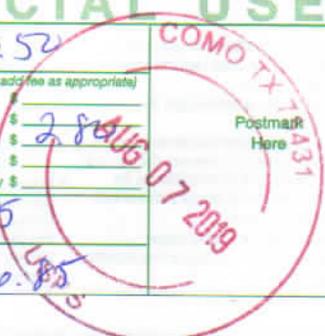
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| City, State | POGO OIL & GAS OPERATING, INC. | |
| PS Form | 1515 Calle Sur, Ste.174 | |
| | Hobbs. NM 88240 | |

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

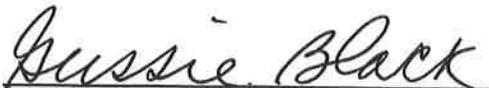
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
July 24, 2019
and ending with the issue dated
July 24, 2019.



Publisher

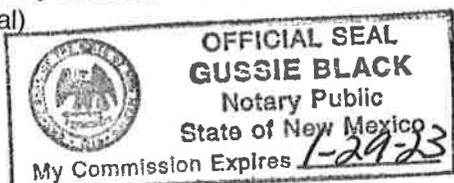
Sworn and subscribed to before me this
24th day of July 2019.



Business Manager

My commission expires
January 29, 2023

(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

LEGALS

LEGAL NOTICE JULY 24, 2019

Fulfer Oil & Cattle, LLC, P.O. Box 1224, Jal, NM 87252 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval salt water disposal in its South Langille Jal Unit No.18 SWD. The previously authorized injection well is located 1980' FNL & 990' FWL in Section 17, Township 25 South, Range 37 East in Lea County, 5.3 miles north of Jal, New Mexico. Private disposal will be for produced water from ON-LEASE and will be reinjected into the Seven Rivers formation through an openhole interval from 3197' to maximum depth of 3280 feet. The maximum injection pressure will be 639 psi surface (0.2 psi/ft gradient) and 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)478-3460 within 15 days of the date of this notice or the OCD receipt date, whichever is later. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us #34482

67104420

00231195

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

August 16, 2019

GREG FULFER

FULFER OIL & CATTLE

P. O. BOX 1321

JAL, NM 88252

RE: WATER SAMPLE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Analytical Results For:FULFER OIL & CATTLE
P. O. BOX 1321
JAL NM, 88252Project: WATER SAMPLE
Project Number: WATER SOURCE - JAL NM
Project Manager: GREG FULFER
Fax To: NONEReported:
16-Aug-19 12:35

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|-----------------|-----------------|
| N J CC | H902665-01 | Water | 02-Aug-19 16:00 | 02-Aug-19 16:50 |
| C WINDMILL | H902665-02 | Water | 02-Aug-19 16:00 | 02-Aug-19 16:50 |

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FULFER OIL & CATTLE
 P. O. BOX 1321
 JAL NM, 88252

 Project: WATER SAMPLE
 Project Number: WATER SOURCE - JAL NM
 Project Manager: GREG FULFER
 Fax To: NONE

 Reported:
 16-Aug-19 12:35

N J C C
H902665-01 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories
Inorganic Compounds

| | | | | | | | | | | |
|-------------------------|-------|--|-------|----------|------|---------|----|-----------|-----------|--|
| Alkalinity, Bicarbonate | 381 | | 5.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |
| Chloride* | 72.0 | | 4.00 | mg/L | 1 | 9080104 | AC | 05-Aug-19 | 4500-CI-B | |
| Conductivity* | 1180 | | 1.00 | uS/cm | 1 | 9080519 | AC | 05-Aug-19 | 120.1 | |
| pH* | 7.79 | | 0.100 | pH Units | 1 | 9080519 | AC | 05-Aug-19 | 150.1 | |
| Sulfate* | 263 | | 62.5 | mg/L | 6.25 | 9080612 | AC | 07-Aug-19 | 375.4 | |
| TDS* | 798 | | 5.00 | mg/L | 1 | 9080518 | AC | 06-Aug-19 | 160.1 | |
| Alkalinity, Total* | 312 | | 4.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

| | | | | | | | | | | |
|------------|------|--|-------|------|---|---------|-----|-----------|----------|--|
| Calcium* | 38.3 | | 0.500 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Magnesium* | 44.0 | | 0.500 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Potassium* | 5.58 | | 5.00 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Sodium* | 172 | | 5.00 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FULFER OIL & CATTLE
 P. O. BOX 1321
 JAL NM, 88252

 Project: WATER SAMPLE
 Project Number: WATER SOURCE - JAL NM
 Project Manager: GREG FULFER
 Fax To: NONE

 Reported:
 16-Aug-19 12:35

C WINDMILL
H902665-02 (Water)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories
Inorganic Compounds

| | | | | | | | | | | |
|-------------------------|-------|--|-------|----------|------|---------|----|-----------|-----------|--|
| Alkalinity, Bicarbonate | 200 | | 5.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |
| Alkalinity, Carbonate | <1.00 | | 1.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |
| Chloride* | 428 | | 4.00 | mg/L | 1 | 9080104 | AC | 05-Aug-19 | 4500-Cl-B | |
| Conductivity* | 1870 | | 1.00 | uS/cm | 1 | 9080519 | AC | 05-Aug-19 | 120.1 | |
| pH* | 7.27 | | 0.100 | pH Units | 1 | 9080519 | AC | 05-Aug-19 | 150.1 | |
| Sulfate* | 260 | | 62.5 | mg/L | 6.25 | 9080612 | AC | 07-Aug-19 | 375.4 | |
| TDS* | 1260 | | 5.00 | mg/L | 1 | 9080518 | AC | 06-Aug-19 | 160.1 | |
| Alkalinity, Total* | 164 | | 4.00 | mg/L | 1 | 9080208 | AC | 06-Aug-19 | 310.1 | |

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

| | | | | | | | | | | |
|------------|------|--|-------|------|---|---------|-----|-----------|----------|--|
| Calcium* | 201 | | 0.500 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Magnesium* | 61.6 | | 0.500 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Potassium* | 5.16 | | 5.00 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |
| Sodium* | 107 | | 5.00 | mg/L | 5 | B908110 | AES | 14-Aug-19 | EPA200.7 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FULFER OIL & CATTLE
 P. O. BOX 1321
 JAL NM, 88252

 Project: WATER SAMPLE
 Project Number: WATER SOURCE - JAL NM
 Project Manager: GREG FULFER
 Fax To: NONE

 Reported:
 16-Aug-19 12:35

Inorganic Compounds - Quality Control
Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 9080104 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (9080104-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 01-Aug-19 | | | | | | | | | | |
| Chloride | ND | 4.00 | mg/L | | | | | | | |
| LCS (9080104-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 01-Aug-19 | | | | | | | | | | |
| Chloride | 100 | 4.00 | mg/L | 100 | | 100 | 80-120 | | | |
| LCS Dup (9080104-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 01-Aug-19 | | | | | | | | | | |
| Chloride | 104 | 4.00 | mg/L | 100 | | 104 | 80-120 | 3.92 | 20 | |
| Batch 9080208 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (9080208-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02-Aug-19 | | | | | | | | | | |
| Alkalinity, Carbonate | ND | 1.00 | mg/L | | | | | | | |
| Alkalinity, Bicarbonate | 5.00 | 5.00 | mg/L | | | | | | | |
| Alkalinity, Total | 4.00 | 4.00 | mg/L | | | | | | | |
| LCS (9080208-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02-Aug-19 | | | | | | | | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | | |
| Alkalinity, Bicarbonate | 318 | 12.5 | mg/L | | | | 80-120 | | | |
| Alkalinity, Total | 260 | 10.0 | mg/L | 250 | | 104 | 80-120 | | | |
| LCS Dup (9080208-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02-Aug-19 | | | | | | | | | | |
| Alkalinity, Carbonate | ND | 2.50 | mg/L | | | | 80-120 | | 20 | |
| Alkalinity, Bicarbonate | 305 | 12.5 | mg/L | | | | 80-120 | 4.02 | 20 | |
| Alkalinity, Total | 250 | 10.0 | mg/L | 250 | | 100 | 80-120 | 3.92 | 20 | |
| Batch 9080518 - Filtration | | | | | | | | | | |
| Blank (9080518-BLK1) | | | | | | | | | | |
| Prepared: 05-Aug-19 Analyzed: 06-Aug-19 | | | | | | | | | | |
| TDS | ND | 5.00 | mg/L | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FULFER OIL & CATTLE
 P. O. BOX 1321
 JAL NM, 88252

 Project: WATER SAMPLE
 Project Number: WATER SOURCE - JAL NM
 Project Manager: GREG FULFER
 Fax To: NONE

 Reported:
 16-Aug-19 12:35

Inorganic Compounds - Quality Control
Cardinal Laboratories

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

Batch 9080518 - Filtration
LCS (9080518-BS1)

Prepared: 05-Aug-19 Analyzed: 06-Aug-19

| | | | | | | | | | | |
|-----|-----|--|------|-----|--|-----|--------|--|--|--|
| TDS | 531 | | mg/L | 527 | | 101 | 80-120 | | | |
|-----|-----|--|------|-----|--|-----|--------|--|--|--|

Duplicate (9080518-DUP1)

Source: H902613-05

Prepared: 05-Aug-19 Analyzed: 06-Aug-19

| | | | | | | | | | | |
|-----|------|------|------|--|------|--|--|-------|----|--|
| TDS | 8300 | 5.00 | mg/L | | 8370 | | | 0.840 | 20 | |
|-----|------|------|------|--|------|--|--|-------|----|--|

Batch 9080519 - General Prep - Wet Chem
LCS (9080519-BS1)

Prepared & Analyzed: 05-Aug-19

| | | | | | | | | | | |
|--------------|-------|--|-------|-------|--|------|--------|--|--|--|
| Conductivity | 45400 | | uS/cm | 50000 | | 90.8 | 80-120 | | | |
|--------------|-------|--|-------|-------|--|------|--------|--|--|--|

| | | | | | | | | | | |
|----|------|--|----------|------|--|-----|--------|--|--|--|
| pH | 7.03 | | pH Units | 7.00 | | 100 | 90-110 | | | |
|----|------|--|----------|------|--|-----|--------|--|--|--|

Duplicate (9080519-DUP1)

Source: H902665-01

Prepared & Analyzed: 05-Aug-19

| | | | | | | | | | | |
|--------------|------|------|-------|--|------|--|--|-------|----|--|
| Conductivity | 1180 | 1.00 | uS/cm | | 1180 | | | 0.169 | 20 | |
|--------------|------|------|-------|--|------|--|--|-------|----|--|

| | | | | | | | | | | |
|----|------|-------|----------|--|------|--|--|-------|----|--|
| pH | 7.77 | 0.100 | pH Units | | 7.79 | | | 0.257 | 20 | |
|----|------|-------|----------|--|------|--|--|-------|----|--|

Batch 9080612 - General Prep - Wet Chem
Blank (9080612-BLK1)

Prepared: 06-Aug-19 Analyzed: 07-Aug-19

| | | | | | | | | | | |
|---------|----|------|------|--|--|--|--|--|--|--|
| Sulfate | ND | 10.0 | mg/L | | | | | | | |
|---------|----|------|------|--|--|--|--|--|--|--|

LCS (9080612-BS1)

Prepared: 06-Aug-19 Analyzed: 07-Aug-19

| | | | | | | | | | | |
|---------|------|------|------|------|--|------|--------|--|--|--|
| Sulfate | 19.2 | 10.0 | mg/L | 20.0 | | 96.0 | 80-120 | | | |
|---------|------|------|------|------|--|------|--------|--|--|--|

LCS Dup (9080612-BSD1)

Prepared: 06-Aug-19 Analyzed: 07-Aug-19

| | | | | | | | | | | |
|---------|------|------|------|------|--|------|--------|------|----|--|
| Sulfate | 18.1 | 10.0 | mg/L | 20.0 | | 90.7 | 80-120 | 5.73 | 20 | |
|---------|------|------|------|------|--|------|--------|------|----|--|

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FULFER OIL & CATTLE
 P. O. BOX 1321
 JAL NM, 88252

 Project: WATER SAMPLE
 Project Number: WATER SOURCE - JAL NM
 Project Manager: GREG FULFER
 Fax To: NONE

 Reported:
 16-Aug-19 12:35

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

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

Batch B908110 - Total Rec. 200.7/200.8/200.2
Blank (B908110-BLK1)

Prepared: 13-Aug-19 Analyzed: 14-Aug-19

| | | | | | | | | | | |
|-----------|----|-------|------|--|--|--|--|--|--|--|
| Calcium | ND | 0.100 | mg/L | | | | | | | |
| Sodium | ND | 1.00 | mg/L | | | | | | | |
| Potassium | ND | 1.00 | mg/L | | | | | | | |
| Magnesium | ND | 0.100 | mg/L | | | | | | | |

LCS (B908110-BS1)

Prepared: 13-Aug-19 Analyzed: 14-Aug-19

| | | | | | | | | | | |
|-----------|------|-------|------|------|--|------|--------|--|--|--|
| Sodium | 3.14 | 1.00 | mg/L | 3.24 | | 96.8 | 85-115 | | | |
| Potassium | 7.84 | 1.00 | mg/L | 8.00 | | 98.0 | 85-115 | | | |
| Magnesium | 20.5 | 0.100 | mg/L | 20.0 | | 103 | 85-115 | | | |
| Calcium | 4.06 | 0.100 | mg/L | 4.00 | | 102 | 85-115 | | | |

LCS Dup (B908110-BSD1)

Prepared: 13-Aug-19 Analyzed: 14-Aug-19

| | | | | | | | | | | |
|-----------|------|-------|------|------|--|------|--------|-------|----|--|
| Potassium | 7.70 | 1.00 | mg/L | 8.00 | | 96.3 | 85-115 | 1.82 | 20 | |
| Sodium | 3.06 | 1.00 | mg/L | 3.24 | | 94.4 | 85-115 | 2.45 | 20 | |
| Calcium | 3.99 | 0.100 | mg/L | 4.00 | | 99.7 | 85-115 | 1.89 | 20 | |
| Magnesium | 20.5 | 0.100 | mg/L | 20.0 | | 102 | 85-115 | 0.203 | 20 | |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

McMillan, Michael, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Tuesday, August 20, 2019 12:46 PM
To: McMillan, Michael, EMNRD
Subject: FW: [EXT] Letter concerning use of of injection well

FYI, per our discussion. PRG

Phillip Goetze, PG
Engineering Bureau, Oil Conservation Division, NM EMNRD
1220 South St. Francis Drive, Santa Fe, NM 87505
Direct: 505.476.3466
E-mail: phillip.goetze@state.nm.us

From: Woolworth Trust <woolworthtrust@yahoo.com>
Sent: Monday, August 19, 2019 3:22 PM
To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Cc: Jody O'Briant <pastorjoe1977@gmail.com>; Snider, Brian <brian.snider@jalnm.org>; Brad Beckham <mbeckham29@aol.com>; Brad Beckham <bradbeckham1882@yahoo.com>; Dirk Jones <dirkjones1313@gmail.com>
Subject: [EXT] Letter concerning use of of injection well

Good afternoon, Mr. Goetze,

The Trustees of the Jal Public Library Fund recently received a letter concerning Fulfer Oil and Cattle Company, Jal, New Mexico, making an application to the New Mexico Oil Conservation Division to utilize a previously authorized injection well for salt water disposal at its South Langlie Jal Unit Well No. 18. The letter states the SWD will be from **private water disposal for on-lease operations**. The well is located in Section 17, Township25 South, Range 37 East in Lea County, New Mexico.

The Trustees have two points of concern:

- 1) they want to make sure the well is deep enough to not contaminate the ground water in the area (The well is from 3197 feet to maximum depth of 3280 feet)
- 2) they want to be assured the well will never become commercial.

Since the Trust is the surface owner, we would like to have a seat at the table so we can be kept abreast of any developments.

Please respond to this email when you receive it.

Sincerely,

Trustees of the Jal Public Library Fund

Karen Norwood
Business Manager
Jal Public Library Fund

100 East Utah Ave.
PO Box 178
Jal, New Mexico 88252
Phone 575-395-2464
Fax 575-395-2009

Email: woolworthtrust@yahoo.com

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