

RECEIVED: 05/09/2022	REVIEWER:	TYPE: PMX	APP NO: pJZT2215936797
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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: Tarco Energy, LC	OGRID Number: 279579
Well Name: Magruder No. 19	API: 30-015-37744
Pool: Empire Yates-Seven Rivers Pool	Pool Code: 22230

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A] PMX-317
- 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.

David Catanach (Agent for Tarco Energy, LC)

Print or Type Name

David Catanach

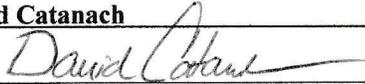
Signature

5/9/2022
Date

505-690-9453
Phone Number

catanach_david@comcast.net
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Tarco Energy, LC (279579)
ADDRESS: 3805 109th Street, Lubbock, Texas 79423
CONTACT PARTY: David Catanach (Agent) PHONE: (505) 690-9453
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project: R-13680 issued in Case No. 14931 on 2/14/2013
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: David Catanach TITLE: Agent for Tarco Energy, LC
SIGNATURE:  DATE: 05/9/2022
E-MAIL ADDRESS: catanach_david@comcast.net
- * 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: Case No. 14931 heard by OCD on 11/29/2012; PMX Application dated 2/14/2014. Order No. PMX-280 dated 2/18/2019; Order No. PMX-305 dated 11/4/2021.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

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

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.

May 9, 2022

**Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505**

**Attention: Ms. Adrienne Sandoval
Division Director**

**Re: Form C-108
Magruder No. 19
API No. (30-015-37744)
1610' FSL & 1645' FEL, Unit J
Section 35, T-17S, R-27E, NMPM,
Eddy County, New Mexico**

Dear Ms. Sandoval,

By Order No. R-13680 dated February 14, 2013 the Oil Conservation Division approved the Tarco Energy, LC ("Tarco") Russell C Lease Pressure Maintenance Project authorizing injection into the Yates-Seven Rivers formation (Empire; Yates-Seven Rivers Pool) within the Russell C Well No. 3 located in Unit O of Section 35, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico.

The Russell C Lease Pressure Maintenance Project currently comprises the following described acreage:

**Township 17 South, Range 27 East, NMPM
Section 35: SE/4, NE/4 SW/4, SW/4 SW/4, SE/4 SW/4**

**Township 18 South, Range 27 East, NMPM
Section 2: NW/4 NE/4, NE/4 NW/4**

By Administrative Orders No. PMX-280 dated February 18, 2019 and PMX-305 dated November 4, 2021, the Oil Conservation Division authorized Tarco to expand the Russell C Lease Pressure Maintenance Project by converting its Brad State Wells No. 1 and 6, both located in Lot 3/Unit C of Section 2, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, to injection into the Empire Yates-Seven Rivers Pool.

Tarco respectfully requests authority to further expand its Russell C Lease Pressure Maintenance Project by converting to injection the Magruder No. 19, as described above. This well is currently a producing well in the Empire; Yates Seven Rivers Pool.

Tarco Energy, LC
Form C-108, PMX Expansion
Magruder No. 19
May 9, 2022

Tarco is seeking administrative approval to expand the Russell C Lease Pressure Maintenance Project in order to complete an efficient injection/production well pattern in this project, thereby increasing the ultimate recovery of oil from the Empire; Yates Seven Rivers Pool.

Enclosed please find a copy of Oil Conservation Division Form C-108, (Application for Authorization to Inject) complete with all required attachments, for the Magruder No. 19.

I believe that all the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,



**David Catanach (Agent)
Tarco Energy, LC
3805 109th Street
Lubbock, Texas 79423**

INJECTION WELL DATA SHEET

OPERATOR: Tarco Energy, LC

WELL NAME & NUMBER: Magruder No. 19 (API No. 30-015-37744)

WELL LOCATION: 1610' FSL & 1645' FEL J 35 17 South 27 East
FOOTAGE LOCATION **UNIT LETTER** **SECTION** **TOWNSHIP** **RANGE**

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA

Surface/Production Casing

Hole Size: 12 1/4" **Casing Size:** 8 5/8" 24# J-55 @ 380'

Cemented with: 70 Sx. or _____ **ft³**

Top of Cement: Surface **Method Determined:** Circulated

Production Casing

Hole Size: 7 7/8" **Casing Size:** 4 1/2" 11.6# J-55 @ 540'

Cement with: 95 Sx. or _____ **ft³**

Top of Cement: Surface **Method Determined:** Circulated

Total Depth: 540' **PBTD:** _____

Injection Interval

Perforated Interval : 446' - 487' (Perforated)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Internally Plastic Coated

Type of Packer: Baker Tension Type

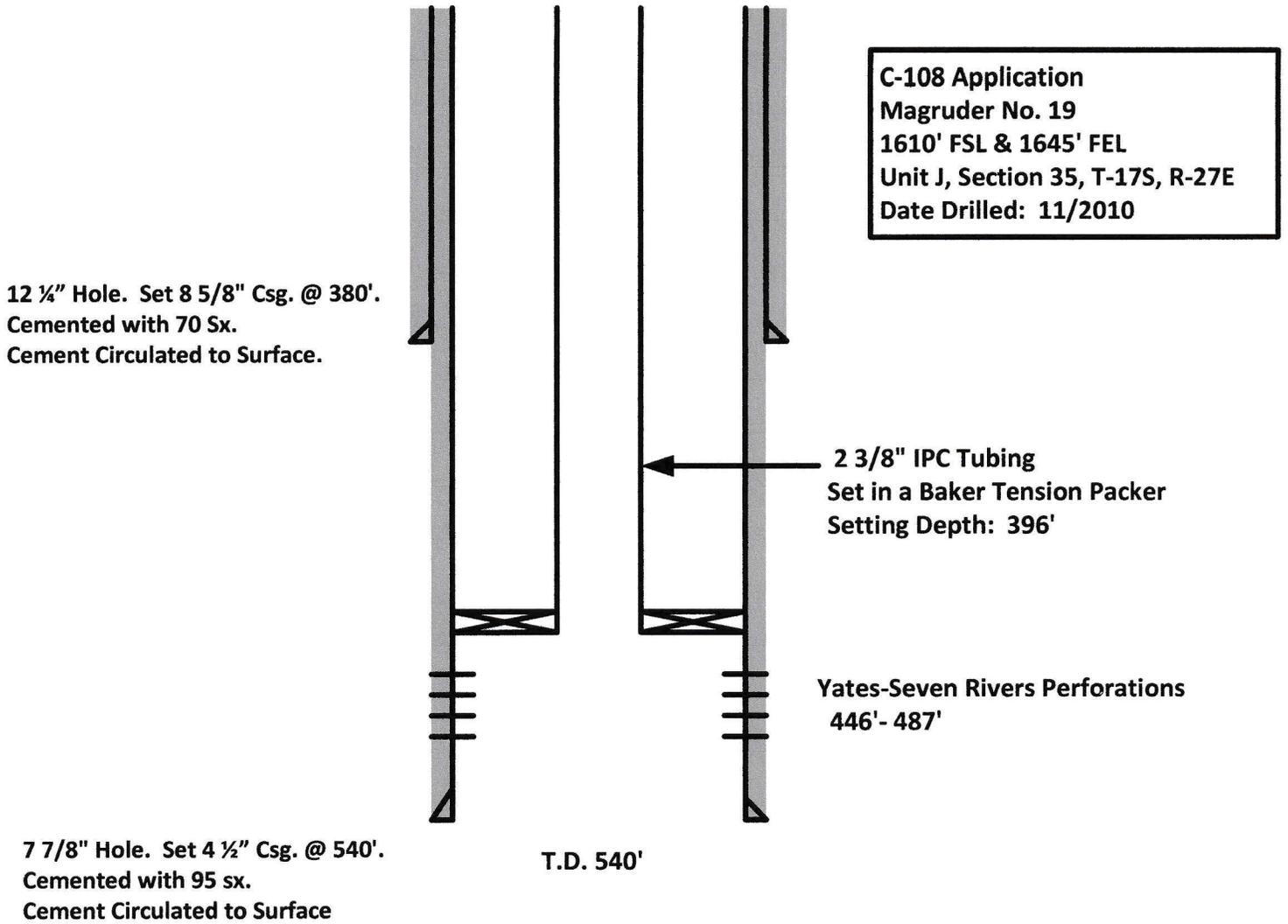
Packer Setting Depth: 396' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: Yes **X** No
If no, for what purpose was the well originally drilled: Producing well in the Empire; Yates-Seven Rivers Pool
2. Name of the Injection Formation: Yates-Seven Rivers
3. Name of Field or Pool (if applicable): Empire; Yates-Seven Rivers Pool (22230)
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
None
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Red Lake Queen-Grayburg-San Andres Pool (1,800'); Northeast Red Lake Glorieta-Yeso Pool (4,000'); Empire-Abo Pool (6,200'); Logan Draw-Wolfcamp Pool (6,700'); Scoggin Draw-Atoka Gas Pool (9,380'); Scoggin Draw-Morrow Gas Pool (9,494')

Magruder No. 19: Proposed Configuration



C-108 Application
Tarco Energy, LC
Magruder No. 19
1610' FSL & 1645' FEL (Unit J)
Section 35, T-17S, R-27E, NMPM
Eddy County, New Mexico

- I. The purpose of the application is to request approval to expand the Russell C Lease Pressure Maintenance Project by converting the Magruder No. 19 to an injection well in the Yates-Seven Rivers formation, (Empire; Yates-Seven Rivers Pool; 22230).
- II. Tarco Energy, LC ("Tarco")
3805 109th Street
Lubbock, Texas 79423
Contact Party: Joe L. Tarver (806) 787-5138 or David Catanach (Agent) (505) 690-9453
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration of the Magruder No. 19 is attached. The Magruder No. 19 is currently a producing well in the Empire; Yates Seven Rivers Pool.
- IV. This is an expansion of the Russell C Lease Pressure Maintenance Project. This project was approved by Order No. R-13680, issued in Case No. 14931 on February 14, 2013. That order authorized Tarco Energy, LC to utilize its Russel C Well No. 3 (API No. 30-015-37783) located in Unit O of Section 35, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico as an injection well, injection to occur into the Yates-Seven Rivers formation (Empire; Yates-Seven Rivers Pool; 22230) through the perforated interval from 418 feet to 460 feet. The project was further expanded by Orders No. PMX-280 dated February 18, 2019 and PMX-305 dated November 4, 2021. These orders authorized Tarco to convert to injection its Brad State No. 1 (API No. 30-015-40618) and its Brad State No. 6 (API No. 30-015-00719), both located in Lot 3/Unit C of Section 2, Township 18 South, Range 27 East, NMPM. The current boundary of the Russel C Lease Pressure Maintenance Project is described as follows:

Russel C Lease Pressure Maintenance Project Area

Township 17 South, Range 27 East, NMPM

Section 35: SE/4, E/2 SW/4 & SW/4 SW/4

Township 18 South, Range 27 East, NMPM

Section 2: NW/4 NE/4 & NE/4 NW/4

- V. Attached is a map that identifies all leases and wells within a 2-mile radius of the proposed injection well and a map that identifies all wells within the 1/2-mile "Area of Review" ("AOR"). Also attached is a map that shows the injection/production well pattern within the project area. Tarco will basically utilize line drive injection pattern to efficiently and effectively produce the remaining reserves in the Empire; Yates-Seven Rivers Pool underlying the project area.
- VI. **Area of Review Well Discussion:**

Attachment A is a color coded well list that identifies **all** wells within the ½ mile AOR for the Magruder No. 19. All wells whose construction and plugging detail were previously submitted to

the Division in the initial hearing application and subsequent PMX applications as cited above, are shown in **white**. (Please note that an inspection of Division records for these wells was conducted to make sure that the status of these wells has not changed since the previous presentation to the Division). Wells shown in **yellow** on this Attachment A are those AOR wells whose construction and/or plugging detail have **not** been previously provided to the Division. AOR data are being presented in this application in the following manner:

1. Schematic diagrams of all active and plugged and abandoned wells are attached;
2. Attachment B shows all wells that have been permitted but have not yet been drilled. Included in this table are well construction details provided in the operator's application to drill; and
3. Attachment C lists all wells that were never drilled, and whose application to drill were cancelled.

Please note that Orders No. R-13680, PMX-280 and PMX-305 did not require Tarco Energy, LC to perform any remedial work on any active or plugged and abandoned well within the aforesaid area of reviews for either the Russell C Well No. 3, Brad State No. 1 or Brad State No. 6.

An analysis of the AOR well data presented in this application indicates that all wells are adequately constructed and/or plugged and abandoned to prevent migration of fluid from the proposed injection well to any producing zones or underground sources of drinking water.

VII. Tarco's Proposed Operation

1. The average injection rate into the Magruder No. 19 is anticipated to be approximately 90 BWPD. Tarco has found that a low injection rate combined with low injection pressure provides better response in its producing wells. If this rate increases in the future, the Division will be notified.
2. This will be a closed system.
3. Tarco currently does not inject into any injection well within the project at a surface pressure greater than 0 psi. As previously mentioned, Tarco has found that injection at hydrostatic pressure at the formation face (approximately 178 psi) provides sufficient reservoir energy to maintain adequate producing rates in offset producing wells, and should provide Tarco the opportunity to recover additional oil and gas from the project area that may otherwise not be recovered, thereby preventing waste. Tarco does not anticipate injection to occur into the Magruder No. 19 at a surface pressure greater than 0 psi., however, if necessary, a pressure limit of 0.2 psi/ft. or 89 psi, which is in compliance with Division regulations, will be utilized.
4. Injected fluid will be re-injected water from the Empire; Yates-Seven Rivers Pool. No compatibility issues are anticipated.
5. N/A. Injection will be into the productive Empire; Yates-Seven Rivers Pool for the purpose of increasing the ultimate recovery of oil within the project area.

Discussion:

- A. Tarco previously conducted a fluid level analysis on the Brad State Wells No. 2 and 4, both located in Unit C of Section 2, Township 18 South, Range 27 East, NMPM. After a shut-in period of several days, both wells showed a fluid level of 363 feet, or 50 feet above the perforated intervals of 413 feet and 415 feet, respectively. This indicates a reservoir pressure within the Empire Yates-Seven Rivers Pool of approximately 22 psi;
- B. By maintaining pumped-off conditions within Tarco's twelve producing wells within the project area, a negligible reservoir pressure will be sustained during the period of injection into the Russell C Well No. 3, Brad State Wells No. 1 and 6 and the Magruder No. 19;
- C. Given the low injection rates and pressures, Tarco believes that the reservoir pressure in the Empire; Yates-Seven Rivers Pool will not be sufficient to cause any significant upward migration of fluid from the proposed injection interval. Consequently, area of review wells will not be affected by injection; and
- D. Injection into the Russell C No. 3 well has been ongoing since approximately April, 2013. There is currently no evidence to indicate that injection has caused migration of fluid from the injection interval, or has otherwise affected any deeper producing zones.

VIII. Geologic Formation: Yates-Seven Rivers
Estimated Top: 350'
Thickness: 180'
Lithology: Sand or Sandy Dolomite.
Description: The productive intervals in the Yates-Seven Rivers formation are approximately 3-7 feet thick and are separated by either dense dolomite or anhydrite zones. Porosity in the "B", "C", "D" and "E" intervals is approximately 15% or greater.

USDW's: According to data obtained from the New Mexico State Engineer ("OSE"), there are no fresh water wells located within one mile of the Magruder No. 19 (See attached OSE report). On a more regional basis, OSE data indicates that there are numerous fresh water wells in Townships 17 & 18 South, Range 28 East, NMPM. This data indicates that the average depth to fresh water ranges from 13 feet to 145 feet, with an average depth to water of 52 feet. Given the reservoir pressures in the Empire; Yates-Seven Rivers Pool, the parameters of operation as outlined above, and the depth of fresh water in this area, it is highly unlikely that the proposed injection will cause migration of injected fluid into any underground source of fresh water via any plugged or active area of review wells.

IX. No stimulation is currently planned.

- X. Form 3160-4 filed for the Magruder No. 19 shows that a Compensated Neutron, Gamma Ray and CCL Logs were run on the subject well.
- XI. There are no fresh water wells located within one mile of the Magruder No. 19.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed. Proof of Publication is attached.

Paul Slayton
Harbold Federal No. 13 (API No. 30-015-00617)
1650' FNL & 2310' FWL (Unit F)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 5/1952
Status: Plugged & Abandoned
10/1978
Empire Yates SR Pool

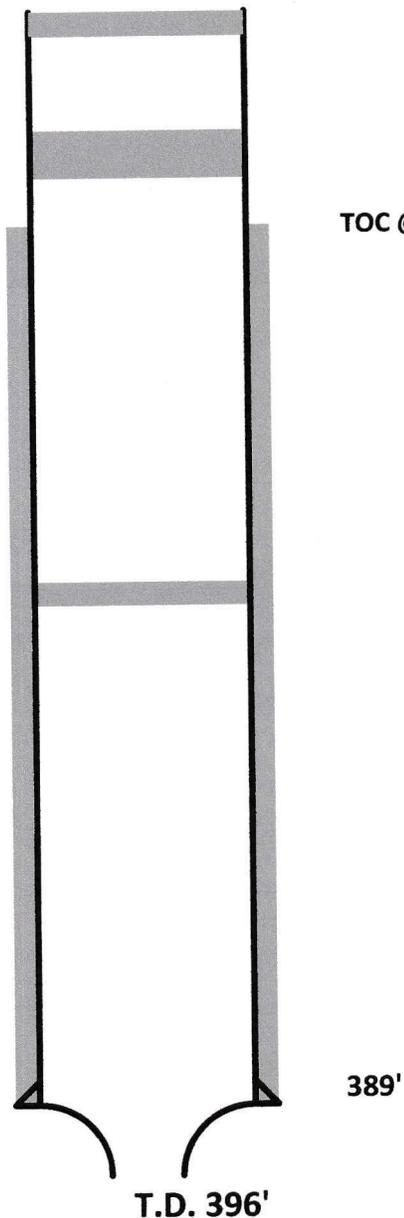
Set 10 Sx. Cement plug @ Surface

Set 20 Sx. Cement plug @ 68'

Cleaned well out to a depth of 178'
Could not drill any deeper.
Set 4 Sx. Cement plug @ 178'

8" Hole (Assumed).
Set 7" Csg. @ 389'.
Cemented with 25 Sx.
TOC @ 107' by Calculation

TOC @ 107' by Calculation



389'

McQuadrangle, LC
South Red Lake Grayburg Unit No. 6
(API No. 30-015-00618)
1700' FNL & 2310' FWL (Unit F)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 12/1954
Status: Plugged & Abandoned
4/14/2003
Red Lake Qn-Gb-SA Pool



Spot 10 Sx. Cement plug @ Surface

Spot 10 Sx. Cement Plug @ 467'

Spot 30 Sx. Cement Plug @ 715'
Tagged plug @ 467'

Set CIBP @ 1,528'
Spot 25 Sx. Cement above CIBP
Tagged Cement @ 1,351'

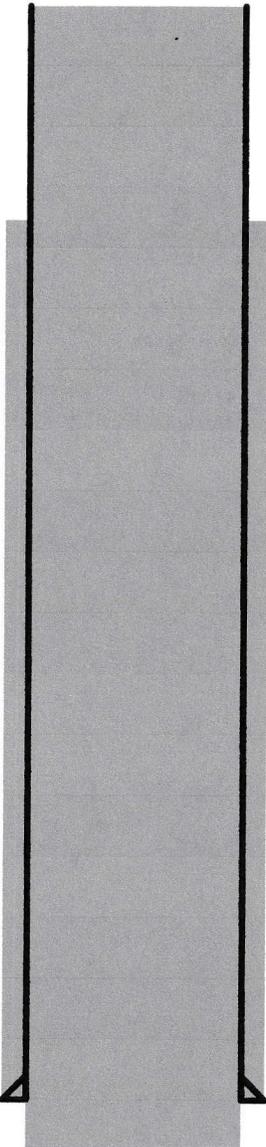
8" Hole (Assumed).
Set 5 1/2" Csg. @ 1,585'.
Cemented with 516 Sx.
Cement Circulated to Surface

T.D. 1,585'

Gas Well Services, Inc.
Magruder No. 1 (API No. 30-015-00657)
2310' FNL & 330' FWL (Unit E)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 11/1941
Status: Plugged & Abandoned
4/2000
Empire Yates SR Pool



TOC @ 150 'by Calculation

Filled Hole to Surface with
Redi-Mix 4/4/2000

8" Hole (Assumed).
Set 7" Csg. @ 432'.
Cemented with 25 Sx.
TOC @ 150' by Calculation

432'

T.D. 463'

Legacy Reserves Operating, LP
South Red Lake II Unit No. 50 (API No. 30-015-00675)
1650' FSL & 990' FWL (Unit L)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Set 10 Sx. Cement Plug
at Surface

11" Hole. Set 8 5/8" Csg. @
1,500'. Cemented with 750 Sx.
Cement Circulated to Surface

Set 25 Sx. Cement Plug
1,615'-1,409'

Set CIBP @ 1,650'
35' Cement on Top

Grayburg Perforations:
1,692'-1,733'

Well Drilled: 4/1962
Plugged & Abandoned
3/2014
Red Lake Qn-Gb-SA Pool

Well Recompleted from Abo to
Grayburg formation in 4/1990

Set 5 1/2" Casing @ 1,811'
Cemented w/400 Sx.
Cement Circulated to Surface

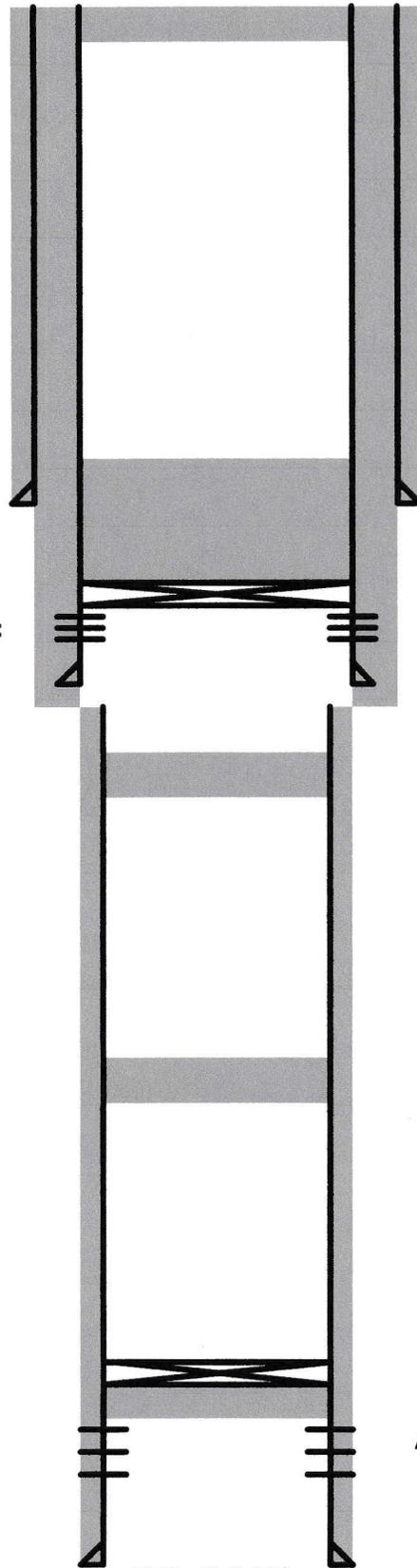
Cut & Pulled 4 1/2" Casing @ 1,850'
Set 40 Sx. Cement Plug @ 2,050'

Set 25 Sx. Cement Plug @ 3,150'

Set CIBP @ 5,400'
Set 30 Sx. Cement Plug @ 5,418'

Abo Perforations: 5,612'-5,815'

7 7/8" Hole. Set 4 1/2" Csg. @ 5,850'.
Cemented with 810 sx.
Cement Top @ 2,000'

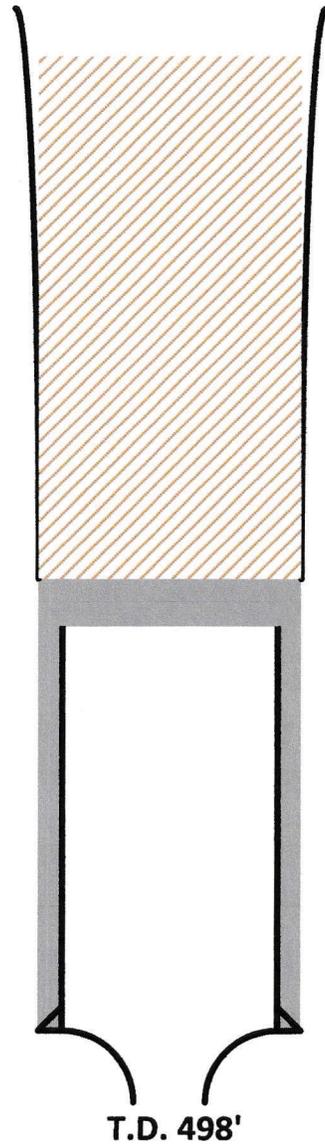


T.D. 5,849'

W. D. Cunningham
Annie Price No. 1 (API No. 30-015-00679)
1651' FSL & 991' FWL (Unit L)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 6/1942
Plugged & Abandoned
11/1943
Empire Yates SR Pool



Filled Hole with Mud.
Set Regulation Marker @ Surface

Knocked Off 7" Casing @ 340'
Set 5 Sx. Cement Plug

8" Hole (Assumed).
Set 7" Csg. @ 441'.
Cemented with 10 Sx.
TOC @ 340' Calculation

441'

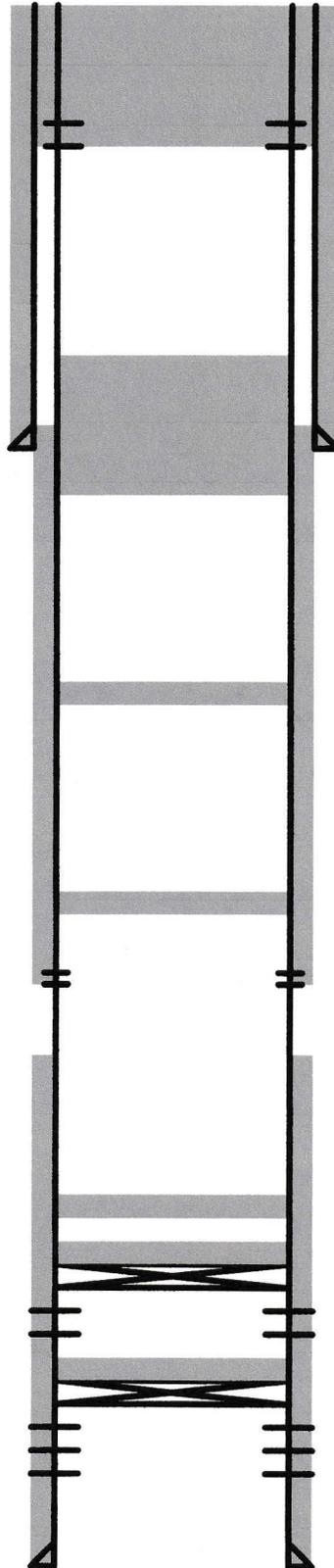
T.D. 498'

Apache Corporation
Empire Abo Unit No. 16B (API No. 30-015-00724)
990' FNL & 330' FEL (Unit A)
Section 2, T-18S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
976'. Cemented with 250 Sx.
Cement Circulated to Surface

Well Drilled: 8/1959
Status: Plugged and Abandoned
Empire-Abo Pool



Perforate 5 1/2" Casing @ 250' Circulate
250 Sx. Cement to Surface

Set 30 Sx. Cement Plug @ 1,076'
Tagged TOC @ 782'

Set 25 Sx. Cement Plug @ 1,765'
Tagged TOC @ 1,433'

Set 25 Sx. Cement Plug @ 3,250'
Tagged TOC @ 2,901'

Perforated @ 3,500' & Squeeze
Cemented w/600 Sx. TOC @ 960'

Original TOC @ 4,190'

Set 25 Sx. Cement Plug @ 5,150'
CIBP @ 5,250' w/35' of Cement
Tagged TOC @ 5,150'

Abo Perforations: 5,290'-5,580'

CIBP @ 5,580' w/35' of Cement

Abo Perforations: 5,580'-5,872'

7 7/8" Hole. Set 5 1/2" Csg. @ 5,920'.
Cemented w/300 Sx.
TOC by Well File @ 4,190'

T.D. 5,920'

Remnant Oil Operating, LLC
South Red Lake II Unit No. 46 (API No. 30-015-25157)
1656' FNL & 1656' FEL (Unit G)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Set 5 Sx. Cement Plug @ Surface

12 1/4" Hole. Set 8 5/8" Csg. @
454'. Cemented with 200 Sx.
Cement Circulated to Surface

Well Drilled: 1/1983
Status: Plugged and Abandoned
Red Lake Queen-Grayburg-San
Andres Pool

Set 65 Sx. Cement Plug @500'.
Filled 5 1/2" Casing from 500'-Surface



Tag CIBP @ 1,498'
Spot 25 Sx. Cement Plug @ 1,498'

Queen-Grayburg-San Andres
Perforations: 1,591'-1,639'

7 7/8" Hole. Set 5 1/2" Csg. @ 1,803'.
Cemented with 375 sx.
Cement Circulated to Surface

T.D. 1,803'

Tom R. Minihan
South Red Lake II Unit No. 46 (API No. 30-015-24405)
1655' FNL & 1656' FEL (Unit G)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

OCD Permitting Screen shows this well as being the South Red Lake Unit II Well No. 46. OCD shows operator to be Tom R. Minihan. There is no well file for this well. A continued search of OCD records show that the Remnant Oil Operating, LLC South Red Lake Unit II No. 46, located 1656 FNL & 1656' FEL (Unit G) of Section 35, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico, which is a plugged and abandoned well (See attached plugging diagram) is located 1 foot from the above-described well. It appears that the Tom R. Minihan well was never drilled, and that the Remnant Oil Operating, LLC well was drilled in place of that well.

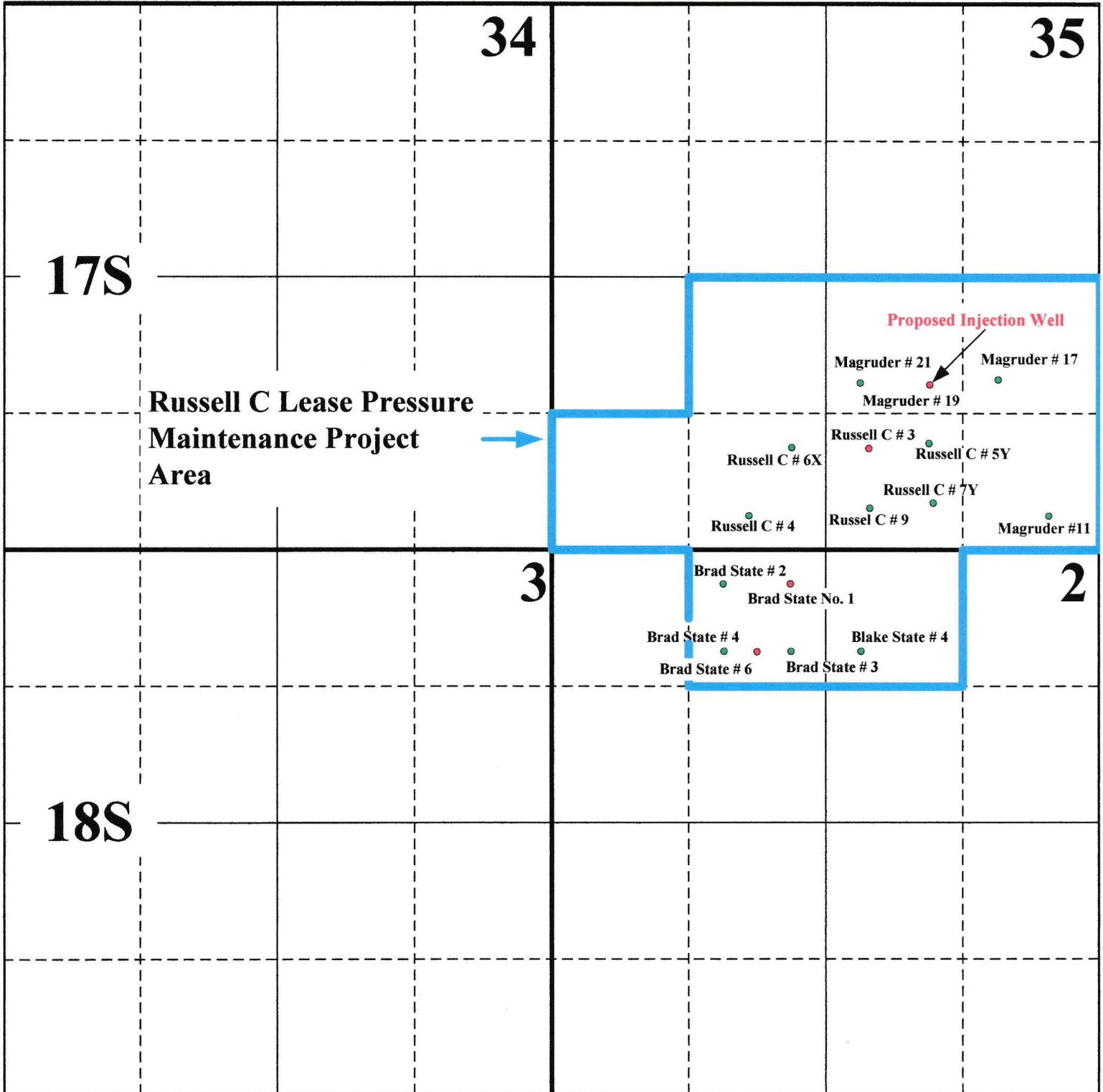
TARCO ENERGY, LC
C-108 APPLICATION: MAGRUDER NO. 19
SUPPLEMENTAL AREA OF REVIEW WELL LIST: NEW WELLS NOT YET DRILLED
ATTACHMENT B

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH MD	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-015-43815	Redwood Operating, LLC	Eagle 35 H Federal	35	Oil	New	2300'	N	430'	E	H	35	17S	27E	N/A	5,315'	12 1/4"	8 5/8"	350'	300	Surface	Circ.	7 7/8"	5 1/2"	5,315'	1010	Surface	Circ.	NE Red Lake Glorieta/Yeso	Well Not Drilled. Proposed Completion
30-015-49018	Spur Energy Partners, LLC	Waukee 36 State Com	11H	Oil	New BHL:	2240' 2135'	S	735' 50'	W W	L L	31 36	17S 17S	28E 27E	N/A	9277'	12 1/4" 8 3/4"	9 5/8" 5 1/2"	1,800' 9,277'	664 1297	Surface Surface	Circ. Circ.	8 3/4"	7" TVD:	3,850' 3,445'	1297	Surface	Circ.	NE Red Lake Glorieta/Yeso	Well File Indicates Well Spud 11/22/2021 No Further Information in Well File
30-015-49019	Spur Energy Partners, LLC	Waukee 36 State Com	51H	Oil	New BHL:	2220' 1830'	S	735' 50'	W W	L L	31 36	17S 17S	28E 27E	N/A	9,804'	12 1/4" 8 3/4"	9 5/8" 5 1/2"	1,800' 9,804'	664 1361	Surface Surface	Circ. Circ.	8 3/4"	7" TVD:	4,350' 3,950'	1361	Surface	Circ.	NE Red Lake Glorieta/Yeso	Well File Indicates Well Spud 11/19/2021 No Further Information in Well File
30-015-49020	Spur Energy Partners, LLC	Waukee 36 State Com	2H	Oil	New BHL:	775' 1260'	S	745' 50'	W W	M M	31 36	17S 17S	28E 27E	N/A	9,253'	12 1/4" 8 3/4"	9 5/8" 5 1/2"	1,800' 9,253'	664 1296	Surface Surface	Circ. Circ.	8 3/4"	7" TVD:	3,850' 3,325'	1296	Surface	Circ.	NE Red Lake Glorieta/Yeso	Well File Indicates Well Spud 11/15/2021 No Further Information in Well File
30-015-49026	Spur Energy Partners, LLC	Waukee 36 State Com	10H	Oil	New BHL:	755' 380'	S	745' 50'	W W	M M	31 36	17S 17S	28E 27E	N/A	9,526'	12 1/4" 8 3/4"	9 5/8" 5 1/2"	1,800' 9,526'	664 1330	Surface Surface	Circ. Circ.	8 3/4"	7" TVD:	4,050' 3,550'	1330	Surface	Circ.	NE Red Lake Glorieta/Yeso	Well File Indicates Well Spud 11/11/2021 No Further Information in Well File

TARCO ENERGY, LC
C-108 APPLICATION: MAGRUDER NO. 19
SUPPLEMENTAL AREA OF REVIEW WELL LIST: CANCELLED APD'S
ATTACHMENT C

API	Well Name	Well Number	Type	Mineral Owner	Status	Unit Letter/Lot	Section	Township	Range	Current Operator
30-015-30407	LOGAN 35 FEDERAL	#001C	Oil	Federal	Cancelled Apd	I	35	17S	27E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-30466	LOGAN 35 B FEDERAL	#010	Oil	Federal	Cancelled Apd	O	35	17S	27E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-31762	EAGLE 35 FEDERAL	#004	Oil	Federal	Cancelled Apd	L	35	17S	27E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-33351	MIDNIGHT MATADOR A FEDERAL	#001	Oil	Federal	Cancelled Apd	G	35	17S	27E	[185130] MCQUADRANGLE, LC
30-015-37736	MAGRUDER	#011	Oil	Federal	Cancelled Apd	P	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37737	MAGRUDER	#012	Oil	Federal	Cancelled Apd	P	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37738	MAGRUDER	#013	Oil	Federal	Cancelled Apd	I	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37739	MAGRUDER	#014	Oil	Federal	Cancelled Apd	I	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37740	MAGRUDER	#015	Oil	Federal	Cancelled Apd	P	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37741	MAGRUDER	#016	Oil	Federal	Cancelled Apd	P	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37743	MAGRUDER	#018	Oil	Federal	Cancelled Apd	I	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37745	MAGRUDER	#020	Oil	Federal	Cancelled Apd	J	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37747	MAGRUDER	#022	Oil	Federal	Cancelled Apd	J	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-37784	RUSSELL C	#004C	Oil	Federal	Cancelled Apd	N	35	17S	27E	[279579] TARCO ENERGY, LC
30-015-40677	BLAKE STATE	#001	Oil	State	Cancelled Apd	2	2	18S	27E	[279579] TARCO ENERGY, LC
30-015-40678	BLAKE STATE	#002	Oil	State	Cancelled Apd	2	2	18S	27E	[279579] TARCO ENERGY, LC
30-015-42573	LOGAN 35 K FEDERAL	#025	Oil	Federal	Cancelled Apd	K	35	17S	27E	[330211] Redwood Operating LLC

27E



Tarco Energy, LC
PMX Application: Magruder No. 19
Injection/Production Well Pattern

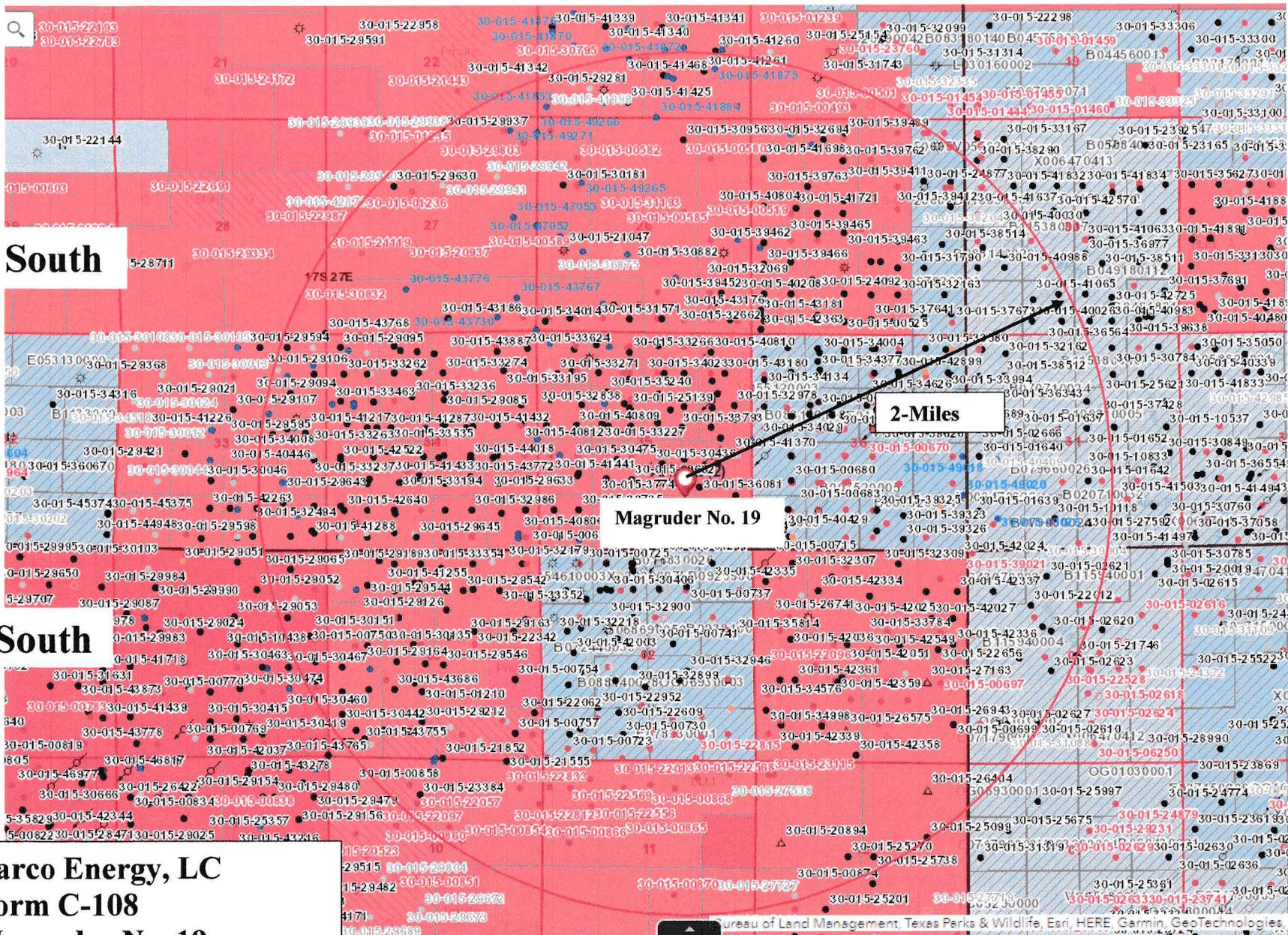
-  Existing or Proposed Injection Well
-  Existing Producing Well

27 East

17 South

18 South

Tarco Energy, LC
Form C-108
Magruder No. 19
2-Mile Radius Lease Map



Tarco Energy, LC
C-108 Application: Magruder No. 19
Area of Review Master Well List
(All Wells Shown in Yellow: Well Data Not Previously Submitted to the OCD)
Attachment A

API	Well Name	Well Number	Type	Mineral Owner	Status	Unit Letter/Lot	Section	Township	Range	Last Production	Spud Date	Plugged On	Current Operator
30-015-00615	HARBOLD FEDERAL	#003	Oil	Federal	Active	F	35	17S	27E	Jan-22	10/15/1941		[331066] DSJ OPERATIONS, LLC
30-015-00616	SOUTH RED LAKE GRAYBURG UNIT	#016	Oil	Federal	Plugged, Site Released	F	35	17S	27E	Dec-92		4/16/2002	[185130] MCQUADRANGLE, LC
30-015-00617	PRE-ONGARD WELL	#013	Oil	Federal	Plugged, Site Released	F	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00618	SOUTH RED LAKE GRAYBURG UNIT	#006	Oil	Federal	Plugged, Site Released	F	35	17S	27E	Aug-00	11/25/1955	4/15/2003	[185130] MCQUADRANGLE, LC
30-015-00619	SOUTH RED LAKE II UNIT	#015	Oil	Federal	Plugged, Site Released	G	35	17S	27E	Apr-06		1/10/2007	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-00620	SOUTH RED LAKE II UNIT	#007	Injection	Federal	Active	H	35	17S	27E	Jan-22	6/7/1947		[370922] REMNANT OIL OPERATING, LLC
30-015-00622	SOUTH RED LAKE II UNIT	#024	Oil	Federal	Plugged, Site Released	I	35	17S	27E	Feb-95		5/1/2006	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-00623	SOUTH RED LAKE II UNIT	#019	Injection	Federal	Active	I	35	17S	27E	Jan-22	4/18/1947		[370922] REMNANT OIL OPERATING, LLC
30-015-00624	PRE-ONGARD WELL	#002	Oil		Plugged, Site Released	I	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00625	MAGRUDER A	#001	Oil	Federal	Plugged, Site Released	J	35	17S	27E		9/26/1941	4/21/1986	[37594] JOE L TARVER
30-015-00626	PRE-ONGARD WELL	#006	Oil		Plugged, Site Released	J	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00627	SOUTH RED LAKE GRAYBURG UNIT	#018	Injection	Federal	Plugged, Site Released	J	35	17S	27E	Aug-00		5/25/2003	[185130] MCQUADRANGLE, LC
30-015-00628	PRE-ONGARD WELL	#015	Oil	Federal	Plugged, Site Released	K	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00629	MAGRUDER	#011	Oil	Federal	Active	P	35	17S	27E	Jul-21	3/29/2010		[279579] TARCO ENERGY, LC
30-015-00630	SOUTH RED LAKE II UNIT	#017	Injection	Federal	Plugged, Site Released	K	35	17S	27E	Mar-05		1/16/2007	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-00631	MAGRUDER A	#003	Oil	Federal	Plugged, Site Released	K	35	17S	27E		12/3/1941	2/11/1977	[37594] JOE L TARVER
30-015-00632	SOUTH RED LAKE II UNIT	#025	Oil	Federal	Active	K	35	17S	27E	Jan-22	9/14/1957		[370922] REMNANT OIL OPERATING, LLC
30-015-00634	SOUTH RED LAKE II UNIT	#029	Injection	Federal	Active	P	35	17S	27E	Jan-22	3/29/1948		[370922] REMNANT OIL OPERATING, LLC
30-015-00635	MAGRUDER A	#004	Oil	Federal	Plugged, Site Released	P	35	17S	27E		12/26/1941	2/11/1977	[37594] JOE L TARVER
30-015-00636	PRE-ONGARD WELL	#005	Oil		Plugged, Site Released	P	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00637	RUSSELL C	#004	Oil	Federal	Active	N	35	17S	27E	Feb-22	3/15/2010		[279579] TARCO ENERGY, LC
30-015-00638	RUSSELL C	#006	Oil	Federal	Plugged, Site Released	N	35	17S	27E			2/21/2009	[279579] TARCO ENERGY, LC
30-015-00639	RUSSELL C	#009	Oil	Federal	Active	O	35	17S	27E	Feb-22	3/22/2010		[279579] TARCO ENERGY, LC
30-015-00640	PRE-ONGARD WELL	#008	Oil		Plugged, Site Released	O	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00641	RUSSELL C	#007	Oil	Federal	Plugged, Site Released	O	35	17S	27E	Feb-10	11/15/2005	3/15/2011	[279579] TARCO ENERGY, LC
30-015-00642	RUSSELL C	#005	Oil	Federal	Plugged, Site Released	O	35	17S	27E		10/8/1941	2/15/1977	[37594] JOE L TARVER
30-015-00643	SOUTH RED LAKE II UNIT	#026	Oil	Federal	Plugged, Site Released	O	35	17S	27E	Aug-08	10/19/2007	9/17/2008	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-00644	SOUTH RED LAKE II UNIT	#031	Oil	Federal	Plugged, Site Released	N	35	17S	27E	Jun-06		1/19/2007	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-00645	SOUTH RED LAKE II UNIT	#032	Oil	Federal	Active	N	35	17S	27E	Jan-22	5/15/1926		[370922] REMNANT OIL OPERATING, LLC
30-015-00657	MAGRUDER STATE	#001	Oil	State	Plugged, Site Released	E	36	17S	27E	Dec-92		4/4/2000	[163645] JKM ENERGY, LLC
30-015-00662	PRE-ONGARD WELL	#002	Oil	State	Plugged, Site Released	M	36	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00675	SOUTH RED LAKE II UNIT	#050	Oil	State	Plugged, Site Released	L	36	17S	27E	Mar-07	4/18/1962	3/18/2014	[240974] LEGACY RESERVES OPERATING, LP
30-015-00678	SOUTH RED LAKE II UNIT	#020	Injection	State	Active	L	36	17S	27E	Jan-22	10/27/1947		[370922] REMNANT OIL OPERATING, LLC
30-015-00679	PRE-ONGARD WELL	#001	Oil	State	Plugged, Site Released	L	36	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00680	DELHI	#004	Oil	State	Active	L	36	17S	27E	Feb-21	7/11/1949		[279579] TARCO ENERGY, LC
30-015-00681	SOUTH RED LAKE II UNIT	#027	Oil	State	Plugged, Site Released	M	36	17S	27E	Mar-07		3/18/2014	[240974] LEGACY RESERVES OPERATING, LP
30-015-00718	PRE-ONGARD WELL	#002	Oil	State	Plugged, Site Released	B	2	18S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-00721	SOUTH RED LAKE II UNIT	#036	Oil	State	Active	1	2	18S	27E	Jan-22	10/21/1941		[370922] REMNANT OIL OPERATING, LLC
30-015-00724	EMPIRE ABO UNIT	#016B	Oil	State	Plugged, Not Released	1	2	18S	27E	Oct-15	8/1/1959		[873] APACHE CORPORATION
30-015-00725	SOUTH RED LAKE II UNIT	#034	Oil	State	Active	3	2	18S	27E	Jan-22	2/15/1927		[370922] REMNANT OIL OPERATING, LLC
30-015-00737	SOUTH RED LAKE II UNIT	#038	Oil	State	Active	2	2	18S	27E	Jan-22	2/1/1900		[370922] REMNANT OIL OPERATING, LLC
30-015-01211	SOUTH RED LAKE II UNIT	#035	Injection	State	Active	2	2	18S	27E	Jan-22	11/12/1926		[370922] REMNANT OIL OPERATING, LLC
30-015-01222	SOUTH RED LAKE II UNIT	#030	Oil	Federal	Plugged, Site Released	O	35	17S	27E	Nov-08		2/21/2009	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-01225	PRE-ONGARD WELL	#002	Oil		Plugged, Site Released	G	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-01228	PRE-ONGARD WELL	#004	Oil	Federal	Plugged, Site Released	H	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-05596	SOUTH RED LAKE II UNIT	#014	Oil	Federal	Plugged, Site Released	H	35	17S	27E	Jan-07		9/20/2007	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-20104	SOUTH RED LAKE II UNIT	#041	Injection	State	Plugged, Site Released	P	35	17S	27E	Feb-06		1/18/2007	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-20105	PRE-ONGARD WELL	#042	Oil		Plugged, Site Released	N	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-21358	RIVERWOLF UNIT	#011	Injection	Federal	Plugged, Site Released	N	35	17S	27E	Apr-88		5/3/2002	[778] BP AMERICA PRODUCTION COMPANY
30-015-21623	STATE	#007	Oil	State	Active	M	36	17S	27E	Feb-21	9/16/1975		[372279] LLJ VENTURES, LLC DBA MARKER OIL & GAS
30-015-24405	PRE-ONGARD WELL	#046	Oil	Federal	Plugged, Site Released	G	35	17S	27E		1/1/1900		[214263] PRE-ONGARD WELL OPERATOR
30-015-25139	HARBOLD FEDERAL	#014	Oil	Federal	Active	F	35	17S	27E	Jan-22	1/8/1985		[331066] DSJ OPERATIONS, LLC
30-015-25157	SOUTH RED LAKE II UNIT	#046	Oil	Federal	Plugged, Site Released	G	35	17S	27E	Oct-06		3/18/2008	[241598] FAIRWAY RESOURCES OPERATING, LLC
30-015-27224	CHALK BLUFF 35 FED	#001	Gas	Federal	Active	J	35	17S	27E	Jan-22	7/8/1993		[14744] MEWBOURNE OIL CO
30-015-30389	LOGAN 2 STATE	#001	Oil	State	Cancelled Apd	3	2	18S	27E				[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-30407	LOGAN 35 FEDERAL	#001C	Oil	Federal	Cancelled Apd	I	35	17S	27E				[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-30408	LOGAN 35 FEDERAL	#003	Oil	Federal	Active	J	35	17S	27E	Aug-20	10/3/2000		[330211] Redwood Operating LLC

Tarco Energy, LC
C-108 Application: Magruder No. 19
Area of Review Master Well List
(All Wells Shown in Yellow: Well Data Not Previously Submitted to the OCD)
Attachment A

API	Well Name	Well Number	Type	Mineral Owner	Status	Unit Letter/Lot	Section	Township	Range	Last Production	Spud Date	Plugged On	Current Operator
30-015-30409	LOGAN 35 B FEDERAL	#009	Oil	Federal	Active	O	35	17S	27E	Nov-20	11/7/1998		[330211] Redwood Operating LLC
30-015-30436	LOGAN 35 FEDERAL	#002	Oil	Federal	Active	I	35	17S	27E	Dec-21	3/7/2000		[330211] Redwood Operating LLC
30-015-30437	LOGAN 35 FEDERAL	#004	Oil	Federal	Active	J	35	17S	27E	Aug-20	8/24/1999		[330211] Redwood Operating LLC
30-015-30438	LOGAN 35 FEDERAL	#006	Oil	Federal	Active	K	35	17S	27E	Feb-22	12/4/1998		[330211] Redwood Operating LLC
30-015-30439	LOGAN 35 B FEDERAL	#007	Oil	Federal	Active	N	35	17S	27E	Feb-22	12/16/2000		[330211] Redwood Operating LLC
30-015-30440	LOGAN 35 B FEDERAL	#008	Oil	Federal	Active	N	35	17S	27E	Aug-20	9/21/1999		[330211] Redwood Operating LLC
30-015-30466	LOGAN 35 B FEDERAL	#010	Oil	Federal	Cancelled Apd	O	35	17S	27E				[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-30475	LOGAN 35 FEDERAL	#005	Oil	Federal	Active	K	35	17S	27E	Feb-22	12/27/2000		[330211] Redwood Operating LLC
30-015-30749	LOGAN 35 FEDERAL	#011	Oil	Federal	Active	P	35	17S	27E	Aug-20	12/8/2000		[330211] Redwood Operating LLC
30-015-30750	LOGAN 35 FEDERAL	#012	Oil	Federal	Active	P	35	17S	27E	Feb-22	11/30/2000		[330211] Redwood Operating LLC
30-015-30926	LOGAN 2 STATE	#003	Oil	State	Cancelled Apd	2	2	18S	27E				[330211] Redwood Operating LLC
30-015-31762	EAGLE 35 FEDERAL	#004	Oil	Federal	Cancelled Apd	L	35	17S	27E				[6137] DEVON ENERGY PRODUCTION COMPANY, LP
30-015-32837	EAGLE 35 F FEDERAL	#012	Oil	Federal	Active	F	35	17S	27E	Aug-20	8/5/2003		[330211] Redwood Operating LLC
30-015-32838	EAGLE 35 F FEDERAL	#013	Oil	Federal	Active	F	35	17S	27E	Dec-21	2/10/2004		[330211] Redwood Operating LLC
30-015-32861	MIDNIGHT MATADOR	#001	Oil	Federal	Active	H	35	17S	27E	Jan-22	8/18/2003		[330423] Extex Operating Company
30-015-32978	EAGLE 35 H FEDERAL	#015	Oil	Federal	Active	H	35	17S	27E	Feb-22	2/19/2004		[330211] Redwood Operating LLC
30-015-33010	EAGLE 35 H FEDERAL	#014	Oil	Federal	Active	H	35	17S	27E	Feb-22	9/22/2003		[330211] Redwood Operating LLC
30-015-33111	LOGAN 2C STATE	#003	Oil	State	Active	3	2	18S	27E	Feb-22	5/11/2004		[330211] Redwood Operating LLC
30-015-33227	HARBOLD FEDERAL	#017	Oil	Federal	Active	F	35	17S	27E	Jan-22	3/20/2004		[331066] DSI OPERATIONS, LLC
30-015-33351	MIDNIGHT MATADOR A FEDERAL	#001	Oil	Federal	Cancelled Apd	G	35	17S	27E				[185130] MCQUADRANGLE, LC
30-015-33427	EAGLE 35 A FEDERAL	#019	Oil	Federal	Active	A	35	17S	27E	Aug-20	8/3/2004		[330211] Redwood Operating LLC
30-015-33764	OPL EAGLE 3S FEDERAL	#002	Oil	Federal	Active	G	35	17S	27E	Jan-22	3/14/2005		[157984] OCCIDENTAL PERMIAN LTD
30-015-33765	OPL EAGLE 3S FEDERAL	#001	Oil	Federal	Active	G	35	17S	27E	Jan-22	3/4/2005		[157984] OCCIDENTAL PERMIAN LTD
30-015-33792	NO BLUFF STATE COM	#003	Oil	State	Active	E	36	17S	27E	Jan-22	1/11/2005		[330447] Contango Resources, Inc.
30-015-34385	MIDNIGHT MATADOR A FEDERAL	#001Q	Oil	Federal	Active	G	35	17S	27E	Jan-22	1/23/2006		[330423] Extex Operating Company
30-015-34511	MIDNIGHT MATADOR FED	#002	Oil	Federal	Active	F	35	17S	27E	Jan-22	1/30/2006		[330423] Extex Operating Company
30-015-34547	MIDNIGHT MATADOR	#003	Oil	Federal	Active	C	35	17S	27E	Jan-22	10/30/2006		[330423] Extex Operating Company
30-015-35264	MIDNIGHT MATADOR	#005	Oil	Federal	Active	H	35	17S	27E	Jan-22	12/13/2006		[330423] Extex Operating Company
30-015-35289	MIDNIGHT MATADOR	#007	Oil	Federal	Active	H	35	17S	27E	Jan-22	10/7/2007		[330423] Extex Operating Company
30-015-35619	MIDNIGHT MATADOR A	#002	Oil	Federal	Active	G	35	17S	27E	Jan-22	7/23/2007		[330423] Extex Operating Company
30-015-35697	MIDNIGHT MATADOR A	#003	Oil	Federal	Active	G	35	17S	27E	Jan-22	7/11/2007		[330423] Extex Operating Company
30-015-36073	RUSSELL C	#006X	Oil	Federal	Active	N	35	17S	27E	Feb-22	6/1/2008		[279579] TARCO ENERGY, LC
30-015-36081	LOGAN 35 FEDERAL	#001	Oil	Federal	Active	I	35	17S	27E	Aug-20	4/15/2008		[330211] Redwood Operating LLC
30-015-36213	RUSSELL C	#005Y	Oil	Federal	Active	O	35	17S	27E	Feb-22	1/6/2006		[279579] TARCO ENERGY, LC
30-015-37736	MAGRUDER	#011	Oil	Federal	Cancelled Apd	P	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37737	MAGRUDER	#012	Oil	Federal	Cancelled Apd	P	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37738	MAGRUDER	#013	Oil	Federal	Cancelled Apd	I	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37739	MAGRUDER	#014	Oil	Federal	Cancelled Apd	I	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37740	MAGRUDER	#015	Oil	Federal	Cancelled Apd	P	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37741	MAGRUDER	#016	Oil	Federal	Cancelled Apd	P	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37742	MAGRUDER	#017	Oil	Federal	Active	I	35	17S	27E	Jul-21	8/20/2011		[279579] TARCO ENERGY, LC
30-015-37743	MAGRUDER	#018	Oil	Federal	Cancelled Apd	I	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37744	MAGRUDER	#019	Oil	Federal	Active	I	35	17S	27E	Jul-21	11/14/2010		[279579] TARCO ENERGY, LC
30-015-37745	MAGRUDER	#020	Oil	Federal	Cancelled Apd	J	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37746	MAGRUDER	#021	Oil	Federal	Active	J	35	17S	27E	Jul-21	7/22/2011		[279579] TARCO ENERGY, LC
30-015-37747	MAGRUDER	#022	Oil	Federal	Cancelled Apd	J	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-37762	RUSSELL C	#007Y	Oil	Federal	Active	O	35	17S	27E	Feb-22	11/15/2005		[279579] TARCO ENERGY, LC
30-015-37783	RUSSELL C	#003	Injection	Federal	Active	O	35	17S	27E	Oct-21	3/23/2012		[279579] TARCO ENERGY, LC
30-015-37784	RUSSELL C	#004C	Oil	Federal	Cancelled Apd	N	35	17S	27E				[279579] TARCO ENERGY, LC
30-015-39321	BIG BOY STATE	#001	Oil	State	Active	M	36	17S	27E	Jun-21	11/5/2011		[328947] Spur Energy Partners LLC
30-015-39322	BIG BOY STATE	#003	Oil	State	Active	M	36	17S	27E	Jan-22	11/23/2011		[328947] Spur Energy Partners LLC
30-015-40428	BIG BOY STATE	#002	Oil	State	Active	M	36	17S	27E	Jan-22	4/27/2013		[328947] Spur Energy Partners LLC
30-015-40429	BIG BOY STATE	#004	Oil	State	Active	M	36	17S	27E	Jan-22	8/28/2014		[328947] Spur Energy Partners LLC
30-015-40618	BRAD STATE	#001	Oil	State	Active	3	2	18S	27E	Jun-21	8/27/2012		[279579] TARCO ENERGY, LC
30-015-40677	BLAKE STATE	#001	Oil	State	Cancelled Apd	2	2	18S	27E				[279579] TARCO ENERGY, LC

Tarco Energy, LC
C-108 Application: Magruder No. 19
Area of Review Master Well List
(All Wells Shown in Yellow: Well Data Not Previously Submitted to the OCD)
Attachment A

API	Well Name	Well Number	Type	Mineral Owner	Status	Unit Letter/Lot	Section	Township	Range	Last Production	Spud Date	Plugged On	Current Operator
30-015-40678	BLAKE STATE	#002	Oil	State	Cancelled Apd	2	2	18S	27E				[279579] TARCO ENERGY, LC
30-015-40807	LOGAN B 35 N FEDERAL	#018	Oil	Federal	Active	N	35	17S	27E	Nov-20	1/17/2013		[330211] Redwood Operating LLC
30-015-40808	LOGAN 35 P FEDERAL	#019	Oil	Federal	Active	P	35	17S	27E	Feb-22	11/26/2012		[330211] Redwood Operating LLC
30-015-41119	LOGAN 2C STATE	#005	Oil	State	Active	3	2	18S	27E	Feb-22	3/28/2013		[330211] Redwood Operating LLC
30-015-41370	LOGAN 35 I FEDERAL	#017	Oil	Federal	Active	I	35	17S	27E	Feb-22	4/6/2014		[330211] Redwood Operating LLC
30-015-41434	LOGAN 35 K FEDERAL	#015	Oil	Federal	Active	K	35	17S	27E	Feb-22	7/22/2013		[330211] Redwood Operating LLC
30-015-41435	LOGAN 35 O FEDERAL	#010	Oil	Federal	Active	O	35	17S	27E	Feb-22	4/12/2014		[330211] Redwood Operating LLC
30-015-41697	EAGLE 35 H FEDERAL	#025	Oil	Federal	Active	H	35	17S	27E	Feb-22	11/9/2013		[330211] Redwood Operating LLC
30-015-41751	EAGLE 35 F FEDERAL	#024	Oil	Federal	Active	F	35	17S	27E	Aug-20	11/17/2013		[330211] Redwood Operating LLC
30-015-42247	LOGAN 35 J FEDERAL	#020	Oil	Federal	Active	J	35	17S	27E	Feb-22	10/1/2014		[330211] Redwood Operating LLC
30-015-42573	LOGAN 35 K FEDERAL	#025	Oil	Federal	Cancelled Apd	K	35	17S	27E				[330211] Redwood Operating LLC
30-015-43066	LOGAN B 35 N FEDERAL	#024	Oil	Federal	New	N	35	17S	27E				[330211] Redwood Operating LLC
30-015-43252	LOGAN 35 O FEDERAL	#022	Oil	Federal	New	O	35	17S	27E				[330211] Redwood Operating LLC
30-015-43815	EAGLE 35 H FEDERAL	#035	Oil	Federal	New	H	35	17S	27E				[330211] Redwood Operating LLC
30-015-44784	LOGAN 35 P FEDERAL	#023	Oil	Federal	New	P	35	17S	27E				[330211] Redwood Operating LLC
30-015-49018	WAUKEE 36 STATE COM	#011H	Oil	State	New	3	31	17S	28E		11/22/2021		[328947] Spur Energy Partners LLC
30-015-49019	WAUKEE 36 STATE COM	#051H	Oil	State	New	3	31	17S	28E		11/19/2021		[328947] Spur Energy Partners LLC
30-015-49020	WAUKEE 36 STATE COM	#002H	Oil	State	New	4	31	17S	28E		11/15/2021		[328947] Spur Energy Partners LLC
30-015-49026	WAUKEE 36 STATE COM	#010H	Oil	State	New	4	31	17S	28E		11/11/2021		[328947] Spur Energy Partners LLC

Remnant Oil Operating, LLC
South Red Lake II Unit No. 7 (API No. 30-015-00620)
1650' FNL & 990' FEL (Unit H)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

TOC @ 188'

Well Drilled: 4/1947
Status: Active Injector
Red Lake Qn-Gb-SA Pool

8" Hole. Set 7" Csg. @ 1,317'.
Cemented with 100 Sx.
TOC @ 188' by Calculation

TOC @ 1216'

1317'

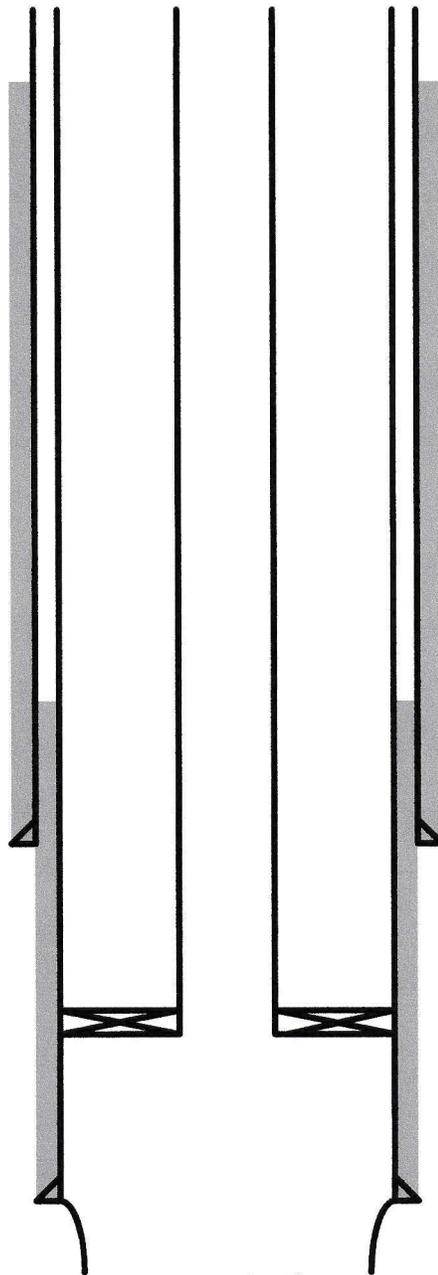
2 3/8" IPC Tubing
w/Packer @ 1,519'

Open Hole Injection: 1,592'-1,650'

Set 4 1/2" Csg. @ 1,592'.
Cemented with 50 sx. TOC @ 1,216'
by calculation.

1,592'

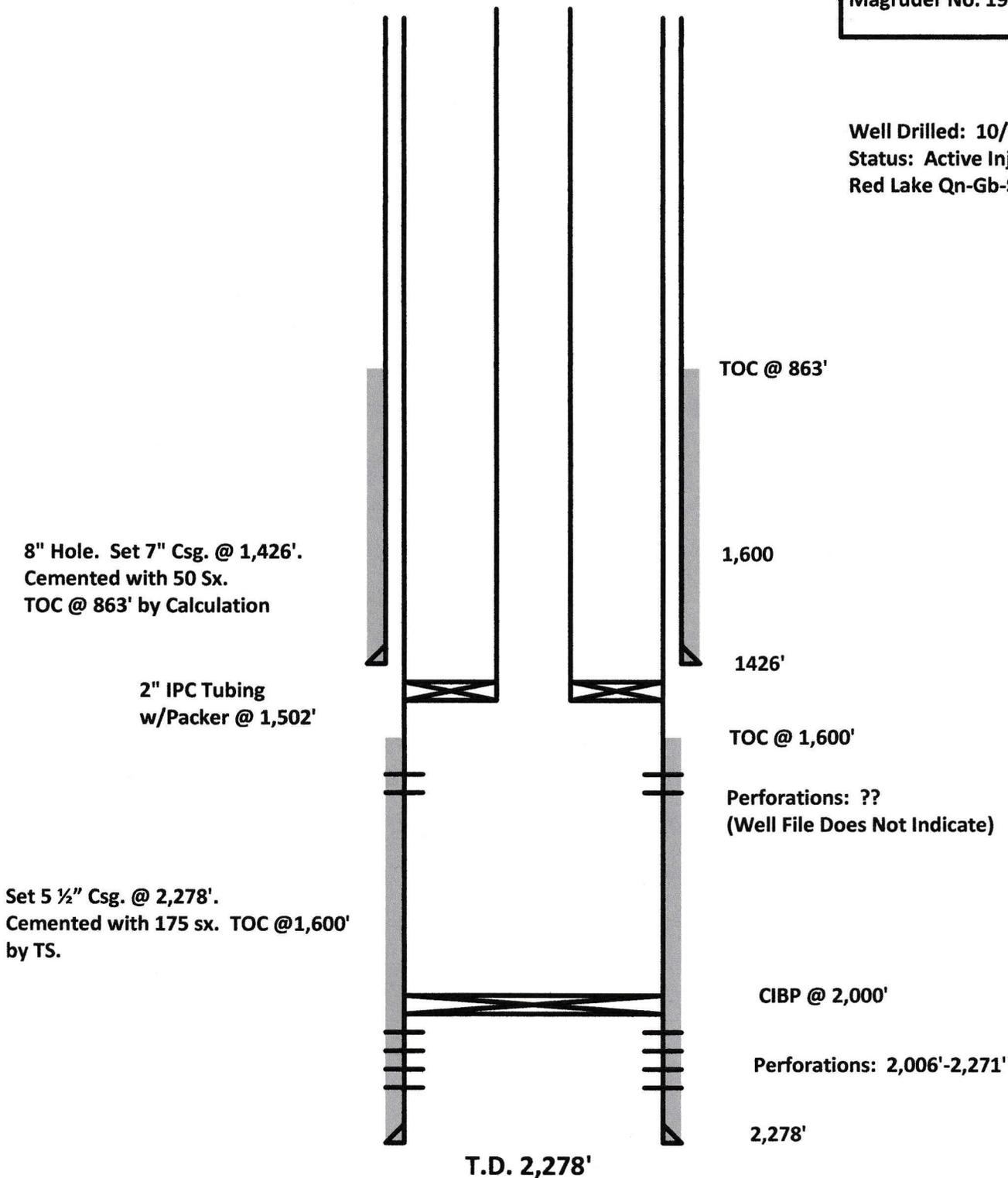
T.D. 1,650'



Remnant Oil Operating, LLC
South Red Lake II Unit No. 20 (API No. 30-015-00678)
2310' FSL & 330' FWL (Unit L)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 10/1947
Status: Active Injector
Red Lake Qn-Gb-SA Pool



Tarco Energy, LC
Delhi No. 4 (API No. 30-015-00680)
1700' FSL & 990' FWL (Unit L)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

Well Drilled: 7/1949
Status: Active Producer
Empire Yates SR Pool

TOC @ 118' by Calculation

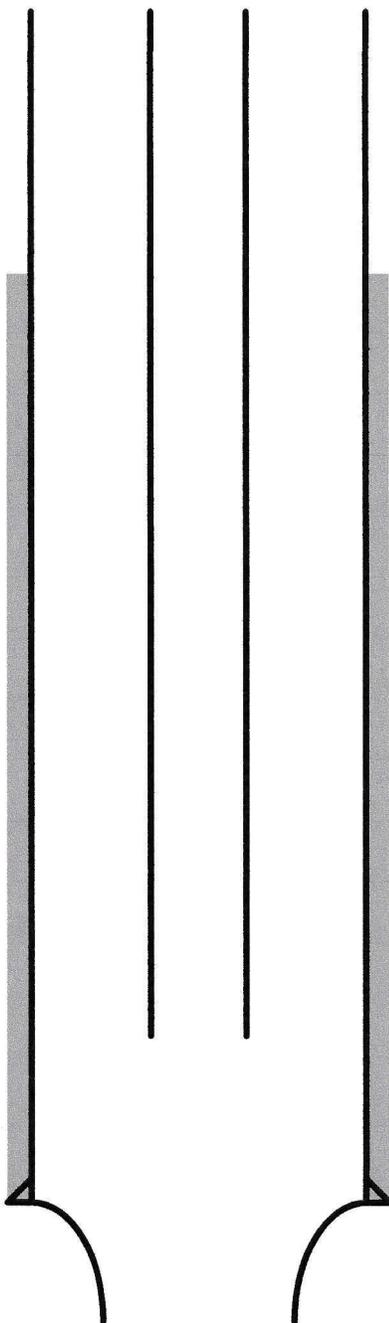
Well File Does Not Indicate
Size of Tubing or Packer in
Wellbore

8" Hole. Set 7" Csg. @ 456'.
Cemented with 30 Sx.
TOC @ 188' by Calculation

456'

Open Hole Production: 456'-492'

T.D. 492'

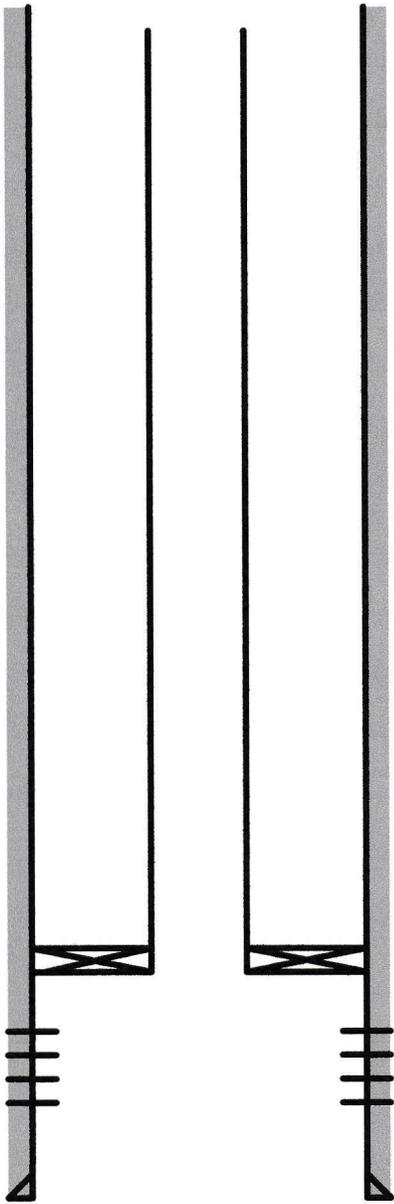


LLJ Ventures, LLC, DBA Marker Oil & Gas
State No. 7 (API No. 30-015-21623)
360' FSL & 455' FWL (Unit M)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

TOC @ Surface (Circulated)

Well Drilled: 9/1975
Status: Active Producer
Red Lake Qn-GB-SA Pool



2 3/8" Tubing set in a
Packer @ 1,270'

Perforations: 1,223'-1,324'

7 7/8" Hole. Set 5 1/2" Csg. @ 1,355'.
Cemented with 450 Sx.
Cement Circulated to Surface

1,355'

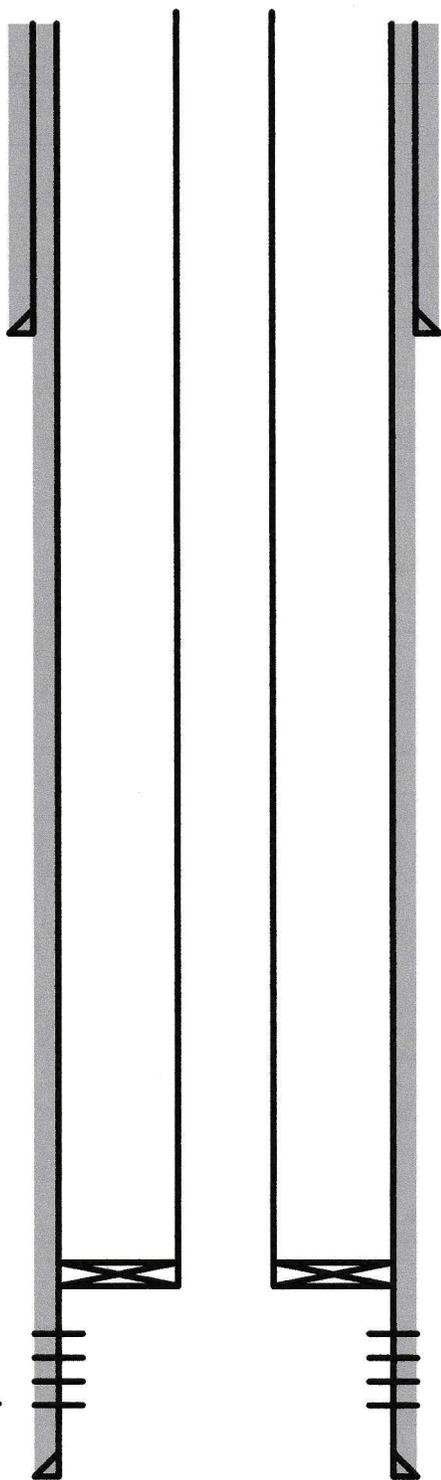
T.D. 1,366'

Redwood Operating, LLC
Eagle 35 F Federal No. 13 (API No. 30-015-32838)
1750' FNL & 2160' FWL (Unit F)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
312'. Cemented with 200 Sx.
Cement Circulated to Surface

Well Drilled: 2/2004
Status: Active Producer
Red Lake Glorita-Yeso Pool



2 7/8" Tubing

Perforations: 2,984'-3,323'

3,520'

7 7/8" Hole. Set 5 1/2" Csg. @ 3,520'.
Cemented with 800 sx.
Cement Circulated to Surface

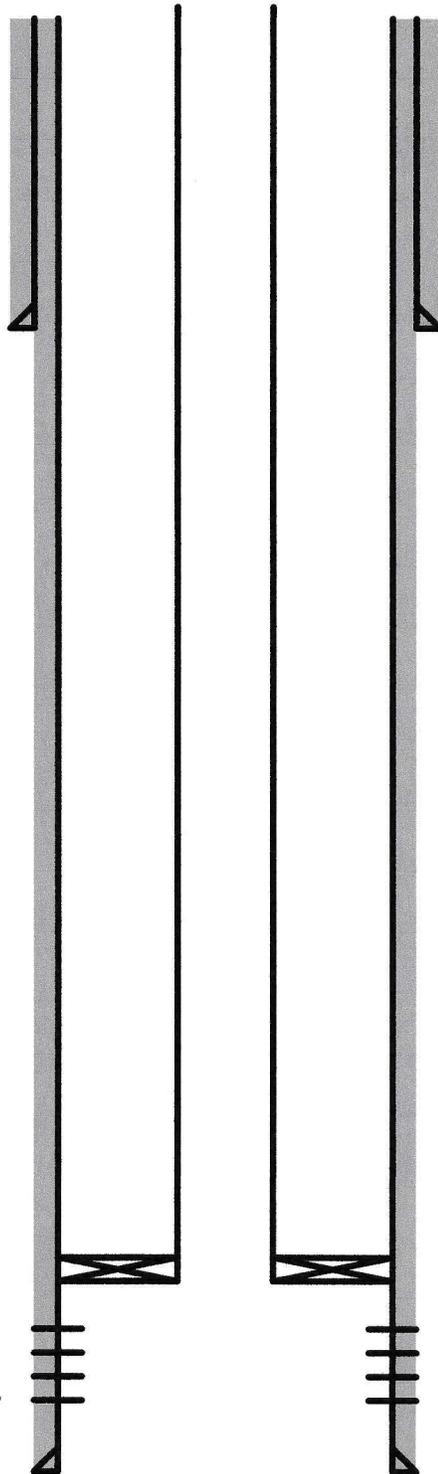
T.D. 3,520'

Redwood Operating, LLC
Eagle 35 H Federal No. 15 (API No. 30-015-32978)
1750' FNL & 430' FEL (Unit H)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
313'. Cemented with 200 Sx.
Cement Circulated to Surface

Well Drilled: 2/2004
Status: Active Producer
Red Lake Glorita-Yeso Pool



2 7/8" Tubing @ 2,998'

Perforations: 3,006'-3,445'

3,505'

7 7/8" Hole. Set 5 1/2" Csg. @ 3,503'.
Cemented with 725 sx.
Cement Circulated to Surface

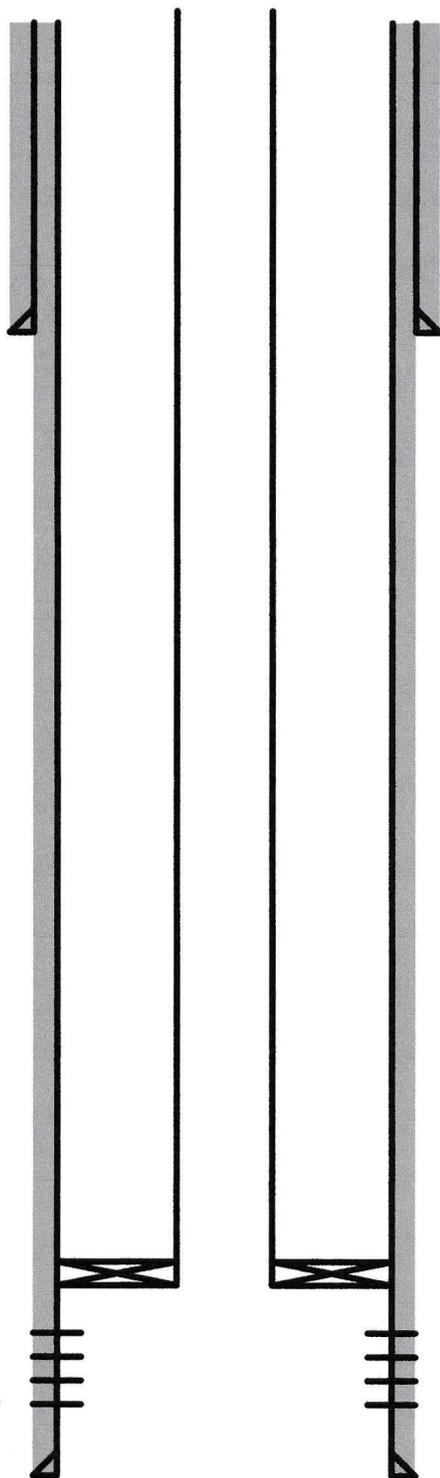
T.D. 3,505'

Redwood Operating, LLC
Eagle 35 A Federal No. 19 (API No. 30-015-33427)
1150' FNL & 960' FEL (Unit A)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
317'. Cemented with 203 Sx.
Cement Circulated to Surface

Well Drilled: 2/2004
Status: Active Producer
Red Lake Glorita-Yeso Pool
(NOI to Plug and Abandon
Well Filed with OCD on 3/9/22)



2 7/8" Tubing

Perforations: 3,012'-3,446'

3,550'

7 7/8" Hole. Set 5 1/2" Csg. @ 3,550'.
Cemented with 895 sx.
Cement Circulated to Surface

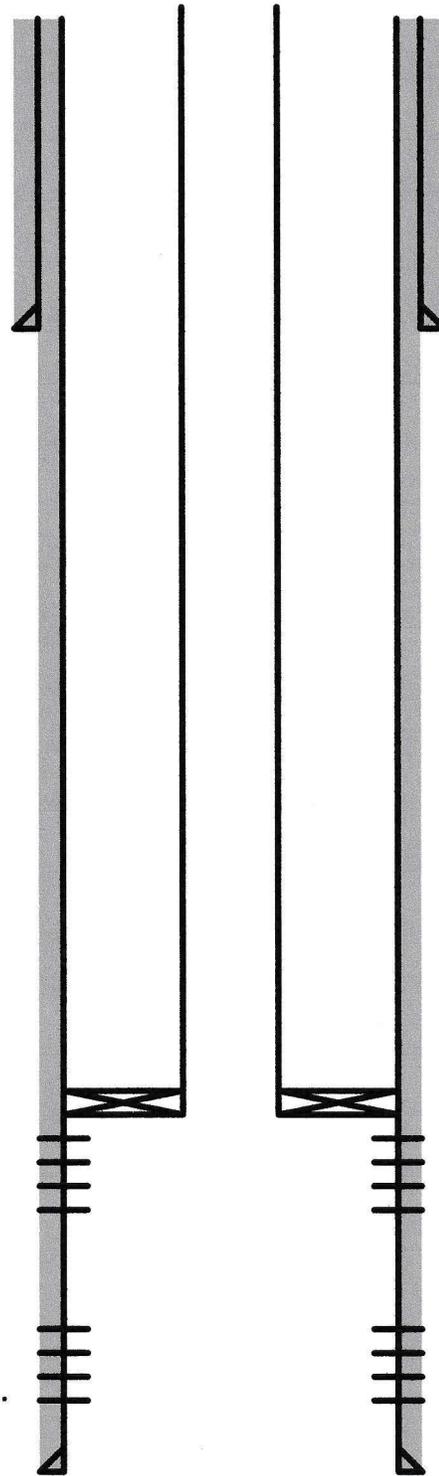
T.D. 3,550'

Contango Resources, Inc.
NO Bluff State Com No. 3 (API No. 30-015-33792)
2264' FNL & 366' FWL (Unit E)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
475'. Cemented with 305 Sx.
Cement Circulated to Surface

Well Drilled: 1/2005
Status: Active Producer
Downhole Commingled Completion
NE Red Lake Glorita-Yeso & Red Lake
Queen-Grayburg-San Andres Pools



2 7/8" Tubing

Queen-Grayburg-San Andres
Perforations: 2007'-2,807'

Glorieta-Yeso
Perforations: 3,031'-3,309'

3,905'

7 7/8" Hole. Set 5 1/2" Csg. @ 3,905'.
Cemented with 850 sx.
Cement Circulated to Surface

T.D. 3,905'

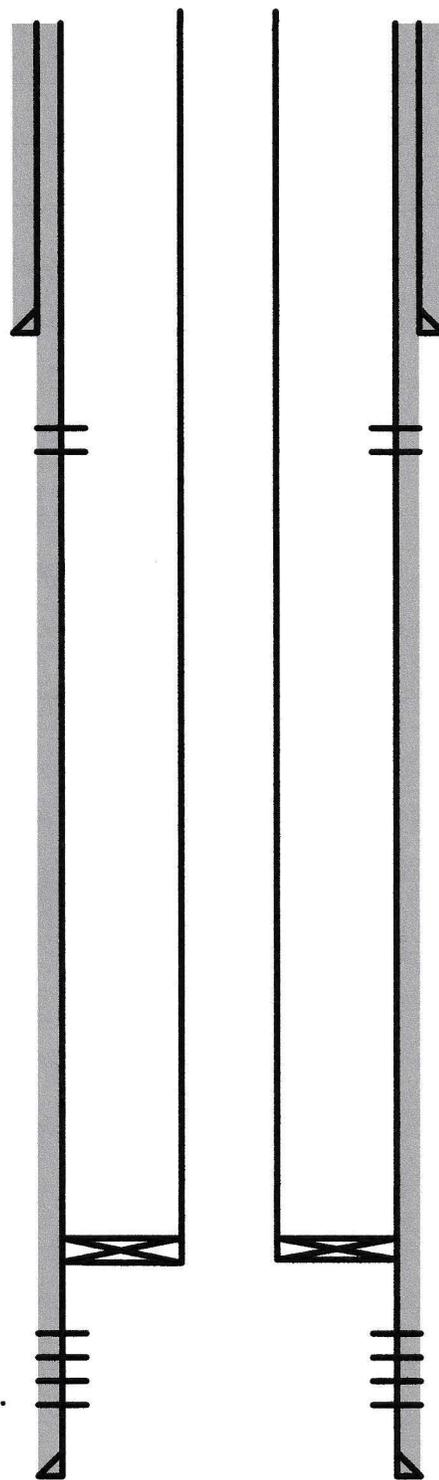
Entex Operating Company
Midnight Matador No. 3 (API No. 30-015-34547)
1150' FNL & 2310' FWL (Unit C)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
360'. Cemented with 325 Sx.
Cement Circulated to Surface

Well Drilled: 10/2006
Status: Active Producer
Red Lake Queen-Grayburg-San
Andres Pool

Original TOC @ 662' by CBL.
Perforated 5 1/2" casing @ 590' and
squeeze cemented casing with 220
sx. cement. Cement circulated to
surface.



7 7/8" Hole. Set 5 1/2" Csg. @ 2,506'.
Cemented with 300 sx.
TOC @ 662' by CBL

2 7/8" Tubing

Queen-Grayburg-San Andres
Perforations: 2008'-2,387'

2,506'

T.D. 2,506'

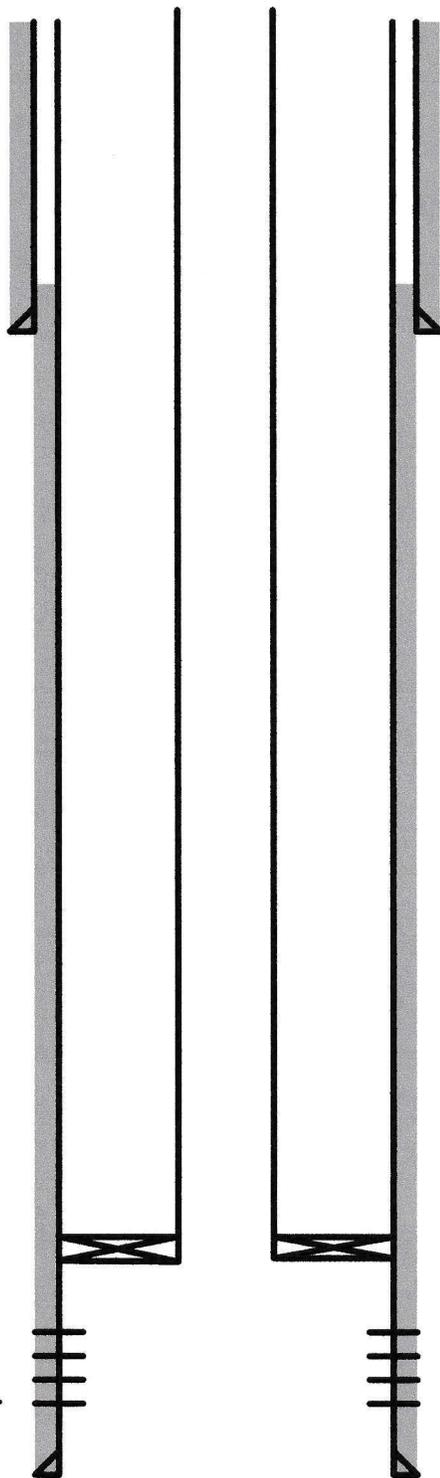
Entex Operating Company
Midnight Matador No. 5 (API No. 30-015-35264)
2100' FNL & 385' FEL (Unit H)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
360'. Cemented with 225 Sx.
Cement Circulated to Surface

Well Drilled: 12/2006
Status: Active Producer
Red Lake Queen-Grayburg-San
Andres Pool

TOC @ 662' by Well File.



7 7/8" Hole. Set 5 1/2" Csg. @ 2,515'.
Cemented with 300 sx.
TOC @ 320' by Well File

2 7/8" Tubing

Queen-Grayburg-San Andres
Perforations: 2035'-2,413'

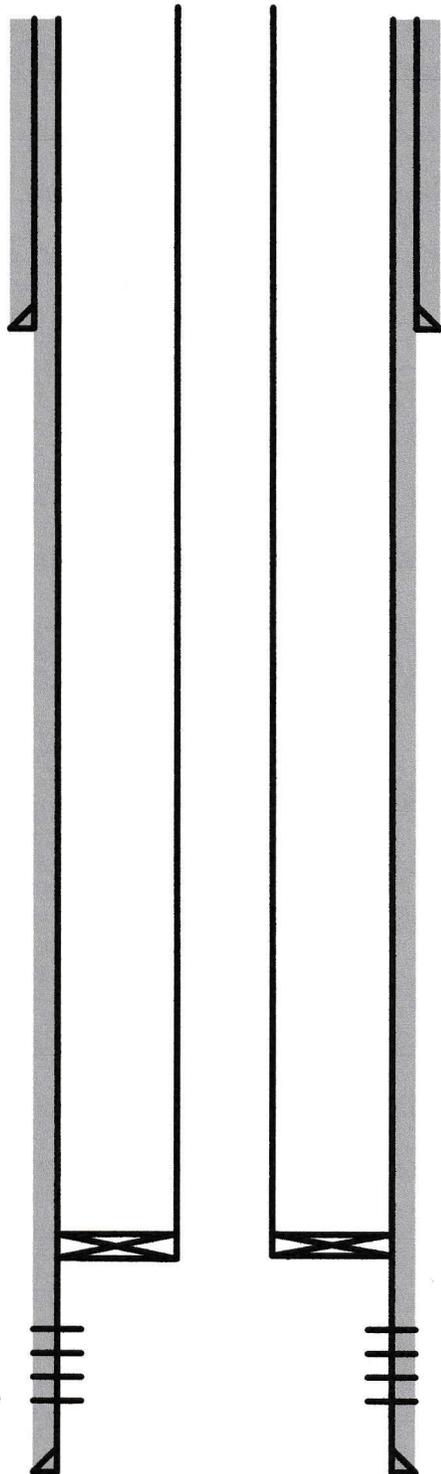
2,515'

T.D. 2,515'

Entex Operating Company
Midnight Matador No. 7 (API No. 30-015-35289)
1470' FNL & 850' FEL (Unit H)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
360'. Cemented with 250 Sx.
Cement Circulated to Surface



Well Drilled: 6/2007
Status: Active Producer
Red Lake Queen-Grayburg-San
Andres Pool

2 7/8" Tubing

Queen-Grayburg-San Andres
Perforations: 2015'-2,400'

2,520'

7 7/8" Hole. Set 5 1/2" Csg. @ 2,520'.
Cemented with 400 sx.
Cement Circulated to Surface

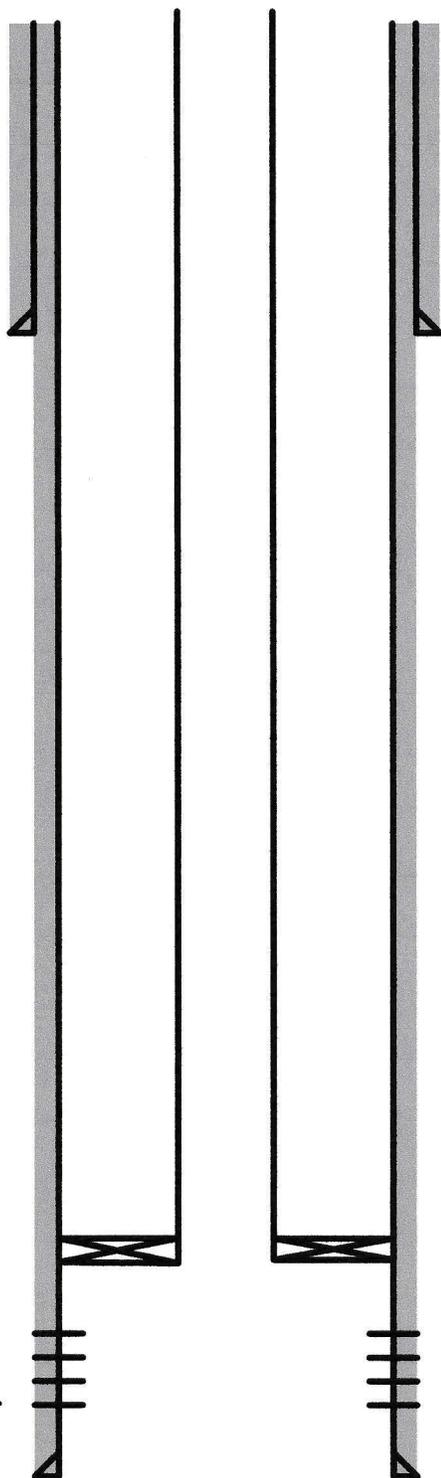
T.D. 2,520'

Entex Operating Company
Midnight Matador A No. 3 (API No. 30-015-35697)
1500' FNL & 2290' FEL (Unit G)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
356'. Cemented with 250 Sx.
Cement Circulated to Surface

Well Drilled: 7/2007
Status: Active Producer
Red Lake Queen-Grayburg-San
Andres Pool



7 7/8" Hole. Set 5 1/2" Csg. @ 2,530'.
Cemented with 450 sx.
Cement Circulated to Surface

2 7/8" Tubing

Queen-Grayburg-San Andres
Perforations: 1977'-2,382'

2,500'

T.D. 2,500'

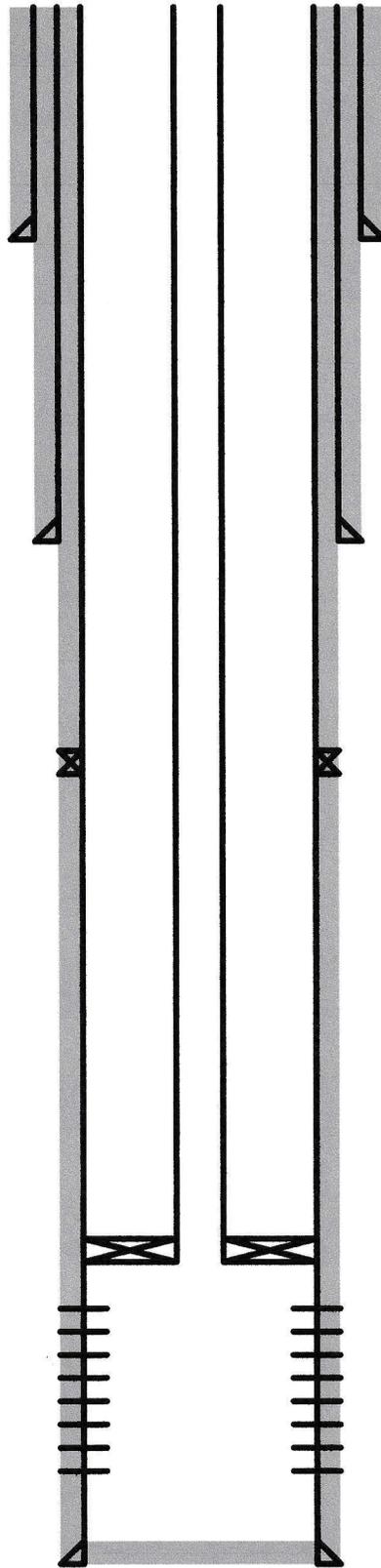
Spur Energy Partners, LLC
Big Boy State No. 1 (API No. 30-015-39321)
990' FSL & 890' FWL (Unit M)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

17 1/2" Hole. Set 13 3/8" Csg.
@ 274'. Cemented with 300 Sx.
Cement Circulated to Surface

11" Hole. Set 8 5/8" Csg. @
864'. Cemented with 400 Sx.
Cement Circulated to Surface

Well Drilled: 11/2011
Status: Active Producer
NE Red Lake Glorita-Yeso Pool



DV Tool @ 1,800'

2 7/8" Tubing

Perforations: 3,235'-4,600'

PBTD: 4,976'

7 7/8" Hole. Set 5 1/2" Csg. @ 5,021'.
Cemented 2-Stage with 650 sx. &
400 sx. DV Tool @ 1,800'
Cement Circulated to Surface

T.D. 5,030'

Spur Energy Partners, LLC
Big Boy State No. 2 (API No. 30-015-40428)
200' FSL & 485' FWL (Unit M)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

17 1/2" Hole. Set 13 3/8" Csg.
@ 269'. Cemented with 400 Sx.
Cement Circulated to Surface

Well Drilled: 4/2013
Status: Active Producer
NE Red Lake Glorita-Yeso Pool

11" Hole. Set 8 5/8" Csg. @
874'. Cemented with 400 Sx.
Cement Circulated to Surface

DV Tool @ 1,809'

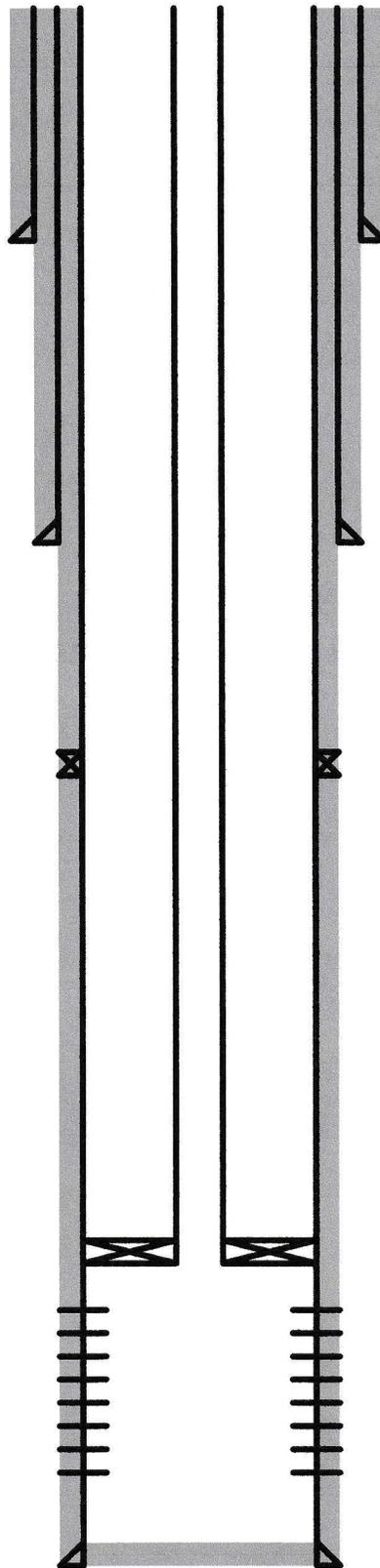
2 7/8" Tubing

7 7/8" Hole. Set 5 1/2" Csg. @ 4,978'.
Cemented 2-Stage with 600 sx. &
700 sx. DV Tool @ 1,809'
Cement Circulated to Surface

Perforations: 3,300'-4,650'

PBTD: 4,930'

T.D. 4,990'



Spur Energy Partners, LLC
Big Boy State No. 3 (API No. 30-015-39322)
840' FSL & 425' FWL (Unit M)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

17 1/2" Hole. Set 13 3/8" Csg.
@ 275'. Cemented with 950 Sx.
TOC by TS @ 80'. Ran 1" &
cemented to surface w/80 sx.

Well Drilled: 11/2011
Status: Active Producer
NE Red Lake Glorita-Yeso Pool

11" Hole. Set 8 5/8" Csg. @
858'. Cemented with 400 Sx.
Cement Circulated to Surface

DV Tool @ 1,802'

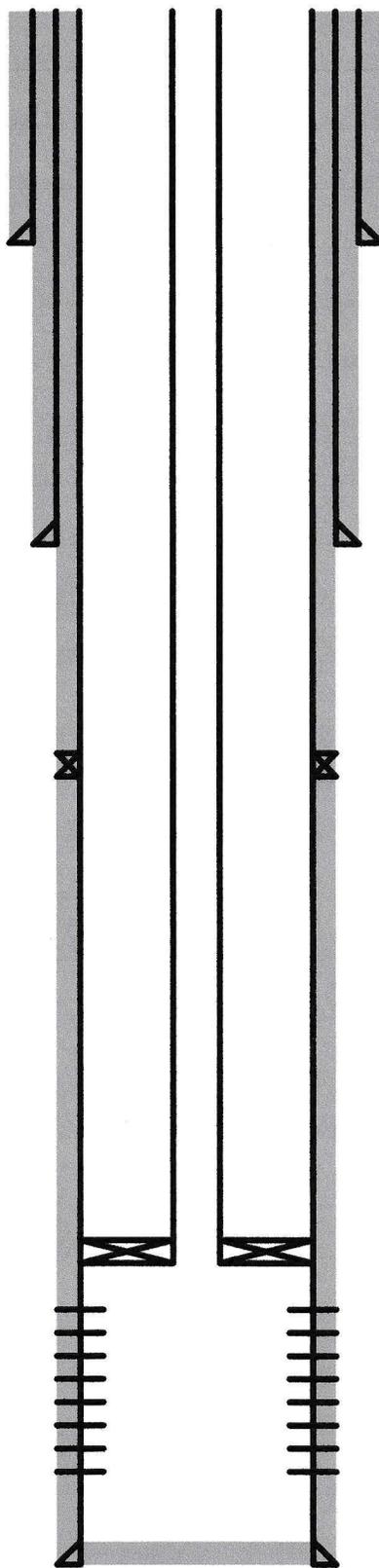
2 7/8" Tubing

7 7/8" Hole. Set 5 1/2" Csg. @ 5,005'.
Cemented 2-Stage with 600 sx. &
800 sx. DV Tool @ 1,802'
Cement Circulated to Surface

Perforations: 3,740'-4,610'

PBTD: 4,958'

T.D. 5,015'



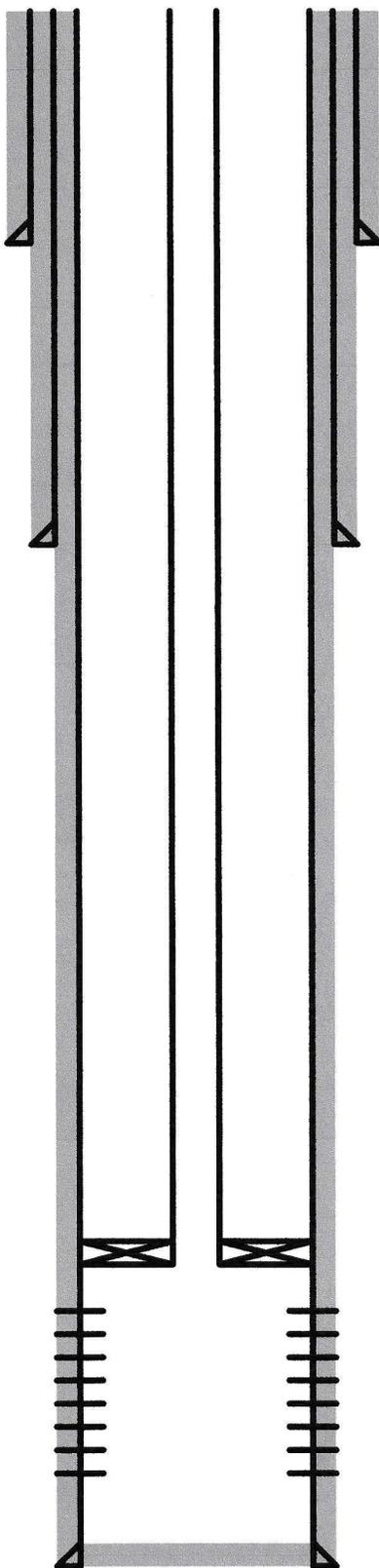
Spur Energy Partners, LLC
Big Boy State No. 4 (API No. 30-015-40429)
492' FSL & 806' FWL (Unit M)
Section 36, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

17 1/2" Hole. Set 13 3/8" Csg.
@ 255'. Cemented with 850 Sx.
Cement Circulated to Surface

Well Drilled: 8/2014
Status: Active Producer
NE Red Lake Glorita-Yeso Pool

11" Hole. Set 8 5/8" Csg. @
867'. Cemented with 400 Sx.
Cement Circulated to Surface



2 7/8" Tubing

Perforations: 3,360'-4,625'

7 7/8" Hole. Set 5 1/2" Csg. @ 5,015'.
Cemented w/900 Sx.
Cement Circulated to Surface

PBTD: 4,970'

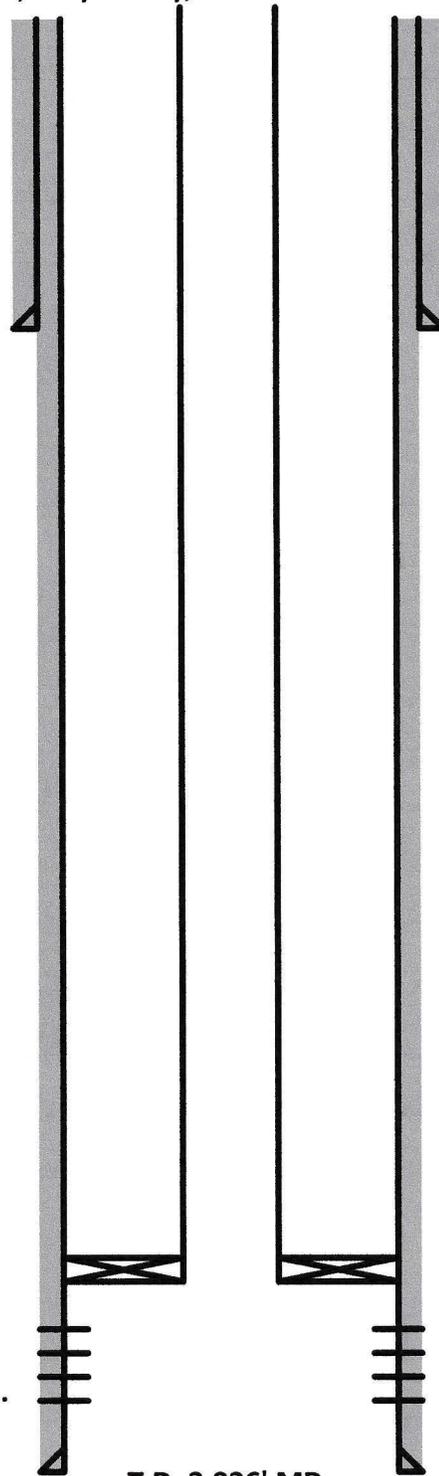
T.D. 5,015'

Redwood Operating, LLC
Logan 35 I Federal No. 17 (API No. 30-015-41370)
SL: 2,355' FSL & 475' FEL (Unit I)
BHL: 2,278' FSL & 349' FEL (Unit I)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
396'. Cemented with 280 Sx.
Cement Circulated to Surface

Well Drilled: 4/2014
Status: Active Producer
NE Red Lake Glorita-Yeso Pool



7 7/8" Hole. Set 5 1/2" Csg. @ 3,923'.
Cemented with 730 sx.
Cement Circulated to Surface

2 7/8" Tubing

Perforations: 3,187'-3,830'

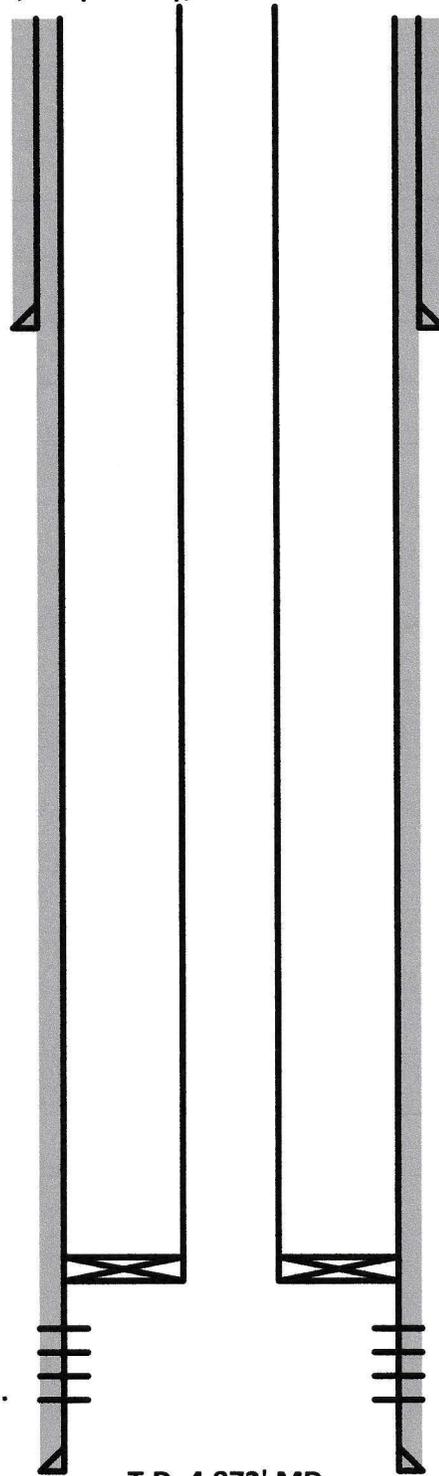
T.D. 3,936' MD
3,921' TVD

Redwood Operating, LLC
Eagle 35 F Federal No. 24 (API No. 30-015-41751)
SL: 2,475' FNL & 2,260' FWL (Unit F)
BHL: 2,287' FNL & 2,281' FWL (Unit F)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
350'. Cemented with 350 Sx.
Cement Circulated to Surface

Well Drilled: 11/2013
Status: Active Producer
NE Red Lake Glorita-Yeso Pool



7 7/8" Hole. Set 5 1/2" Csg. @ 4,853'.
Cemented with 900 sx.
Cement Circulated to Surface

2 7/8" Tubing

Perforations: 3,004'-4,430'

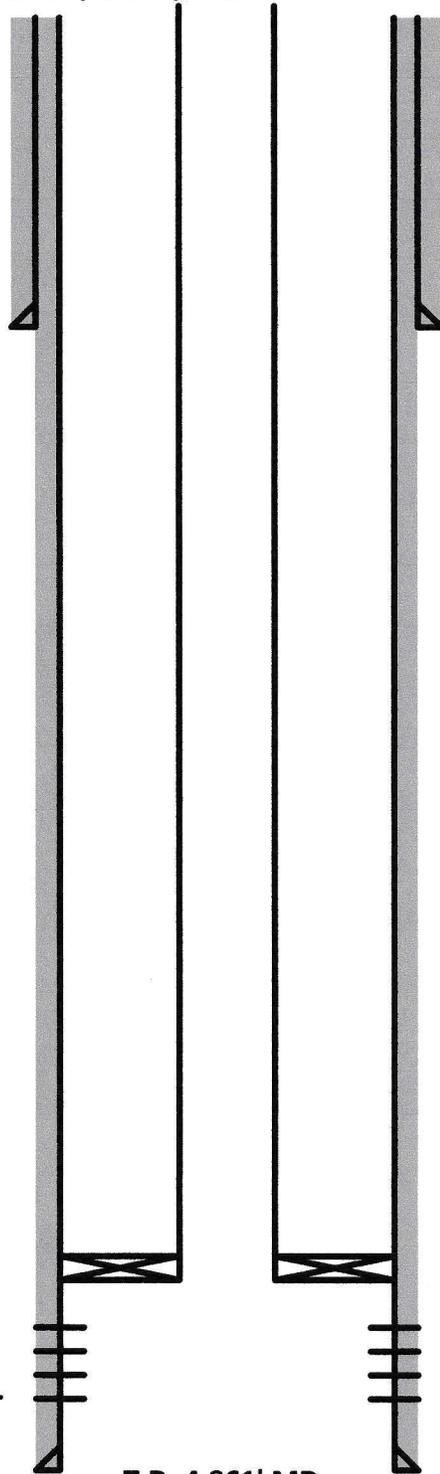
T.D. 4,872' MD

Redwood Operating, LLC
Eagle 35 H Federal No. 25 (API No. 30-015-41697)
SL: 1,820' FNL & 970' FEL (Unit H)
BHL: 1,681' FNL & 915' FEL (Unit H)
Section 35, T-17S, R-27E, NMPM, Eddy County, NM

Form C-108 Application
Tarco Energy, LC
Magruder No. 19

12 1/4" Hole. Set 8 5/8" Csg. @
345'. Cemented with 335 Sx.
Cement Circulated to Surface

Well Drilled: 11/2013
Status: Active Producer
NE Red Lake Glorita-Yeso Pool



7 7/8" Hole. Set 5 1/2" Csg. @ 4,852'.
Cemented with 910 sx.
Cement Circulated to Surface

2 7/8" Tubing

Perforations: 3,080'-4,403'

T.D. 4,861' MD



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 34-36 **Township:** 17S **Range:** 27E

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.

4/25/22 7:37 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 1-3

Township: 18S

Range: 27E

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.

4/25/22 7:44 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
L 13346 POD1	L	LE	LE	4	2	3	25	17S	27E	667985	3630799	165	78	87
RA 01493	RA	ED	ED	2	1	27	17S	27E	568468	3630529*	876			
RA 04561	RA	ED	ED	4	2	26	17S	27E	570871	3630142*	250			

Average Depth to Water: **78 feet**

Minimum Depth: **78 feet**

Maximum Depth: **78 feet**

Record Count: 3

PLSS Search:

Section(s): 25-27

Township: 17S

Range: 27E

*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.

4/25/22 7:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Form C-108
Affirmative Statement
Tarco Energy, LC
Magruder No. 19
Section 35, T-17 South, R-27 East, NMPM,
Eddy County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

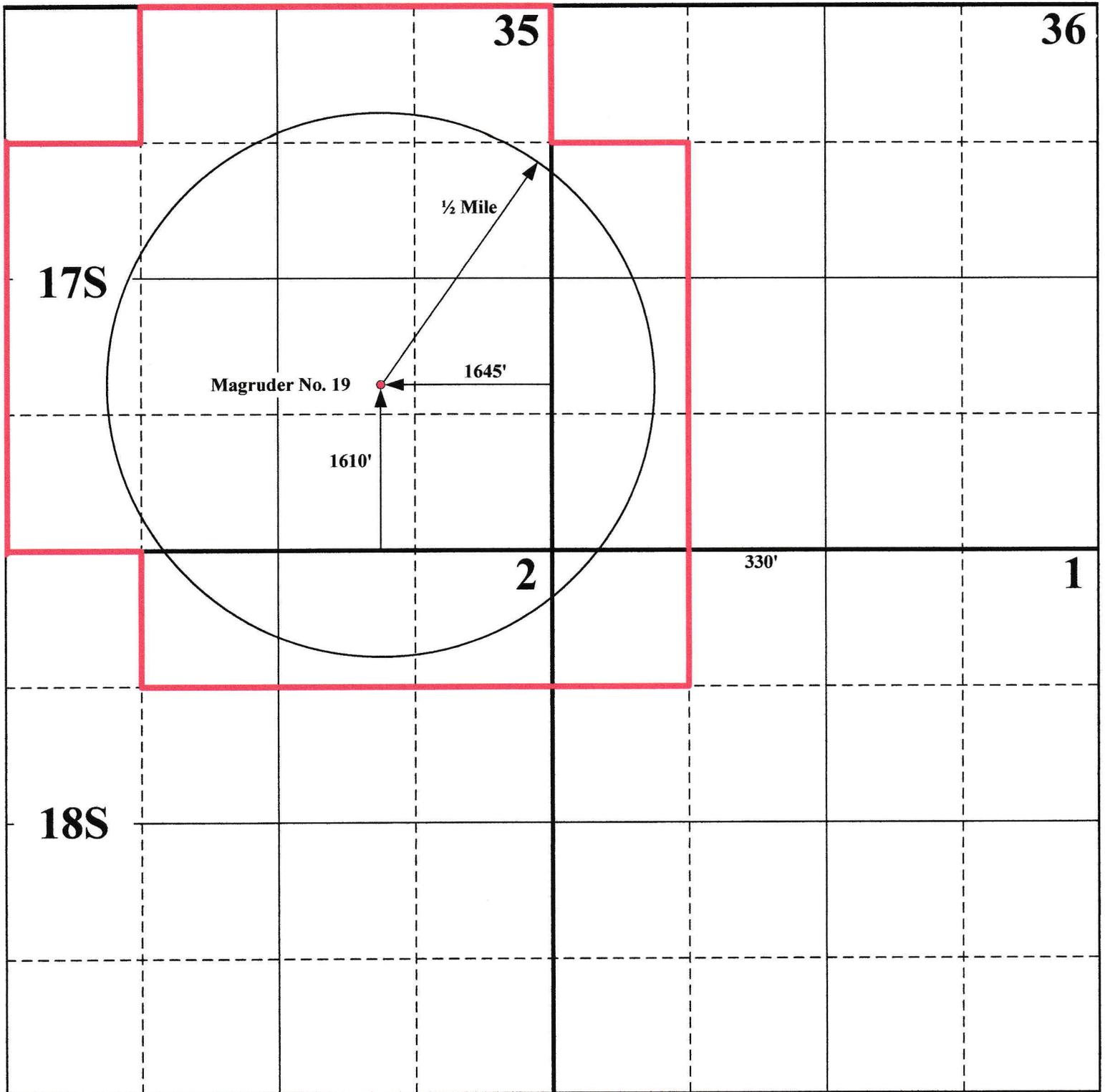


David Catanach
Agent for Tarco Energy, LC



Date

27 East



Tarco Energy, LC
PMX Application: Magruder No. 19
1/2 Mile Notice Area Map

May 9, 2022

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: See Attached Notice List

**Re: Tarco Energy, LC
Form C-108 (Application for Authorization to Inject)
Magruder No. 19: API No. (30-015-37744)
1610' FSL & 1645' FEL, Unit J, Section 35, T-17S, R-27E, NMPM,
Eddy County, New Mexico**

Ladies & Gentlemen:

By Order No. R-13680 dated February 14, 2013 the Oil Conservation Division approved the Tarco Energy, LC Russell C Lease Pressure Maintenance Project authorizing injection into the Yates-Seven Rivers formation (Empire; Yates-Seven Rivers Pool) within its Russell C Well No. 3 located in Unit O of Section 35, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico. This project was further expanded by Orders No. PMX-280 dated February 18, 2019 and PMX-305 dated November 4, 2021 by authorizing injection into the Brad State Wells No. 1 and 6, respectively, both located in Unit C of Section 2, Township 18 South, Range 27 East, NMPM.

Tarco Energy, LC ("Tarco") is seeking administrative approval to further expand the Russell C Lease Pressure Maintenance Project by adding an additional injection well within the approved project area. Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Magruder No. 19. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the well is located. Tarco proposes to convert the well from a producer to an injection well, injection to occur into the Yates-Seven Rivers formation through the perforated interval from approximately 446 feet to 487 feet.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

**If you should have any questions, please contact me at (505) 690-9453.
Sincerely,**

Tarco Energy, LC
Application to Inject
Magruder No. 19
May 9, 2022



David Catanach (Agent)
Tarco Energy, LC
3805 109th Street
Lubbock, Texas 79423

Enclosure

**Form C-108: Pressure Maintenance Expansion
Russel C Lease Pressure Maintenance Project
Magruder No. 19 (API No. 30-015-37744)
Section 35, Township 17 South, Range 27 East, NMPM
Notice List (Offset Operators)**

<u>Operator</u>	<u>Operated Acreage</u>
Redwood Operating, LLC P.O. Box 1370 Artesia, New Mexico 88211-1370	Section 35-17S-27E: Units A, C, E, F, H, I, J, K, L, M, N, O, P Section 2-18S-27E: Unit C
Remnant Oil Operating, LLC P.O. Box 5375 Midland, Texas 79704	Section 35-17S-27E: Units H, I, K, N, P Section 2-18S-27E: Units A, B, C Section 36-17S-27E: Unit L Section 1-18S-27E: Unit D
Apache Corporation 303 Veterans Airpark Lane Suite 1000 Midland, Texas 79705	Section 36-17S-27E: Unit M Section 1-18S-27E: Unit D Section 2-18S-27E: Unit A
Occidental Permian Ltd. P.O. Box 4294 Houston, Texas 77210-4294	Section 35-17S-27E: Units B & G
Mewbourne Oil Company P.O. Box 5270 Hobbs, New Mexico 88241	Section 35-17S-27E: Units I, J, K, L, M, N, O, P Section 36-17S-27E: Unit M
Extex Operating Company 5065 Westheimer Rd. Suite 625 Houston, Texas 77056	Section 35-17S-27E: Units B, C, F, G, H
Contango Resources, Inc. 717 Texas Avenue Suite 2900 Houston, Texas 77002	Section 36-17S-27E: Unit E
DSJ Operations, LLC P.O. Box 103 Loco Hills, New Mexico 88255	Section 35-17S-27E: Unit F
Spur Energy Partners, LLC 9655 Katy Freeway Suite 500 Houston, Texas 77024	Section 36-17S-27E: Units L & M

**Form C-108: Pressure Maintenance Expansion
Russel C Lease Pressure Maintenance Project
Magruder No. 19 (API No. 30-015-37744)
Section 35, Township 17 South, Range 27 East, NMPM
Notice List (Offset Operators Cont.)**

**LLJ Ventures, LLC dba Marker Oil & Gas Section 36-17S-27E: Unit M
P.O. Box 3188
Roswell, New Mexico 88202**

Additional Notice

(Surface Owner)

**Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220-6292**

7020 2450 0002 1360 7735

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Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Mewbourne Oil Company**

Street Address **P.O. Box 5270**

City, State **Hobbs, New Mexico 88241**

0501 85
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 05/09/2022

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 2450 0002 1360 7728

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Houston, TX 77210

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Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Occidental Permian Ltd.**

Street Address **P.O. Box 4294**

City, State **Houston, Texas 77210-4294**

0501 85
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 05/09/2022

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Apache Corporation**

Street Address **303 Veterans Airpark Lane**

City, State **Suite 1000
 Midland, Texas 79705**

0501 85
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Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Remnant Oil Operating, LLC**

Street Address **P.O. Box 5375**

City, State **Midland, Texas 79704**

0501 85
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 05/09/2022

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 2450 0002 1360 7698

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Artesia, NM 88211

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Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Redwood Operating, LLC**

Street Address **P.O. Box 1370**

City, State **Artesia, New Mexico 88211**

0501 85
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 05/09/2022

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Houston, TX 77056

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Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$2.96

Total Price \$9.76

Sent To **Entex Operating Company**

Street Address **5065 Westheimer Rd.**

City, State **Suite 625
 Houston, Texas 77056**

0501 85
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 05/09/2022

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Houston, TX 77002

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Extra Services & Fees (check box, add fee as appropriate)	\$3.05	85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

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MAY 09 2022
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Contango Resources, Inc.
 717 Texas Avenue
 Suite 2900
 Houston, Texas 77002

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Carlsbad, NM 88220

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

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Total \$9.76

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CORONADO STATION

Bureau of Land Management
 620 E. Greene Street
 Carlsbad, N.M. 88220-6292

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<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

Postage \$2.96

Total \$9.76

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CORONADO STATION

LLJ Ventures, LLC dba
 Marker Oil & Gas
 P.O. Box 3188
 Roswell, New Mexico 88202

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Houston, TX 77024

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

Postage \$2.96

Total \$9.76

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MAY 09 2022
CORONADO STATION

Spur Energy Partners, LLC
 9655 Katy Freeway
 Suite 500
 Houston, Texas 77024

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Loco Hills, NM 88255

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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

Postage \$2.96

Total \$9.76

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MAY 09 2022
EXICO 87505

DSJ Operations, LLC
 P.O. Box 103
 Loco Hills, New Mexico 88255

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

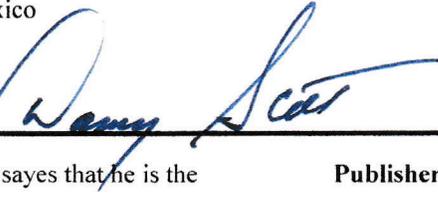
Affidavit of Publication

No. 26126

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

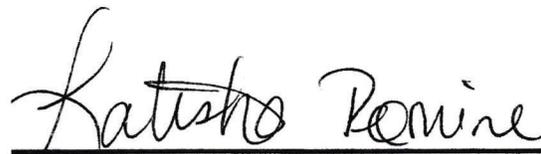
was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication	<u>May 1, 2022</u>
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this 5th day of May 2022

STATE OF NEW MEXICO
 NOTARY PUBLIC
 Latisha Romine
 Commission Number 1076338
 My Commission Expires May 12, 2023



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Tarco Energy, LC, 3805 109th Street, Lubbock Texas 79423 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to expand its Russell C Lease Pressure Maintenance Project by converting to injection its Magruder No. 19 (API No. 30-015-37744) located 1610 feet from the South line and 1645 feet from the East line (Unit J) of Section 35, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico. Injection is to occur into the Yates-Seven Rivers formation (Empire: Yates-Seven Rivers Pool) through the perforated interval from approximately 446 feet to 487 feet. Produced water from the Yates-Seven Rivers formation will be re-injected into the Magruder No. 19 at average and maximum rates of 100 and 300 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 89 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test. Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication. Additional information can be obtained by contacting Mr. Joe Tarver at (806) 787-5138 or Mr. David Catanach (Agent) at (505) 690-90453.

Published in the Artesia Daily Press, Artesia, N.M., May 1, 2022 Legal No. 26126.