

Initial Application Part I

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

RECEIVED:	REVIEWER:	TYPE:	APP NO: P MAM
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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: Rover Operating, LLC**OGRID Number:** 371484**Well Name:** High Lonesome Queen Unit #006**API:** 30-015-02749**Pool:** High Lonesome; Queen**Pool Code:** 30780

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

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**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐

Notice Complete

☐Application
Content
Complete

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.

John Chadwick, COO

Print or Type Name

Signature

04/30/2019

Date

214-234-9115

Phone Number

jchadwick@roverpetro.com

e-mail Address

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Thursday, May 16, 2019 2:26 PM
To: jchadwick@roverpetro.com
Cc: Gallegos, Denise, EMNRD
Subject: High Lonesome Queen Unit Well(S) No. 6 and No. 2

John:
Rover Operating needs additional bonding. Please contact Denise Gallegos in the Santa Fe Office to go over the requirements.

As a result your application for a WFX for the High Lonesome Queen Unit Well(S) No. 6 and No. 2 is suspended until you get the required bonding..

Next, I need a tract map that shows the affected parties. You provide notice, but I could not tell in which the tract affected parties had an interest.

Thank You

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

Affidavit of Publication

No. 25080

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

April 19, 2019

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

19th day of April 2019



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Notice of Application for Authorization to Inject

Rover Operating, LLC

17304 Preston Road, Suite 300

Dallas, TX 75252

is applying to the New Mexico Oil & Gas Division for a permit to inject water into a formation productive of oil or gas for secondary recovery.

The applicant proposes to inject fluid into the High Lonesome; Queen Field of the Penrose Sandstone formation into the High Lonesome Queen #006 Well. The proposed injection well is in the NE SE of 16-16S-29E in Eddy County. Lat 32.9199333, Long -104.0733948 (NAD83). Fluid will be injected to the subsurface depth interval from 1863' to 1933' TVD at average of 900 PSIG (1100 PSIG max) and 250 BWPD (300 BWPD max). Any question regarding the application contact Sami Watts at 214-234-91

LEGAL AUTHORITY: NM Administrative Code 19.15.26:
Objection must be filed with 15 days to the NMOCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505.

Published in the Artesia Daily Press, Artesia, N.M., April 19, 2019 Legal No. 25080.



October 25, 2018

COPY

Delivered Via Certified Mail
7017 3380 000 2810 2208

To: Remnant Oil Company, LLC
6 Desta Drive, Suite 5100
Midland, TX 79705

RE: Rover Petroleum, LLC.
C-108 Injection Application
High Lonesome Queen Unit #6
Section 16, Township 16S, Range 29E
Eddy County, New Mexico

To Whom It May Concern:

Please be advised that Rover Petroleum, LLC. is filling a C-108 Application to convert the High Lonesome Queen Unit #6, API 30-015-2749 to an injection well. You have been identified as an offset operator in the above referenced lands therefore, requiring notification of this application, a copy is included. Please be advised that any objections must be made in writing to the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15 days of this notice.

Please do not hesitate to contact us if you have any questions. Thank you for your attention to this matter.

Sincerely,

Sami Watts
Land Assistant



COPY

October 25, 2018

Delivered Via Certified Mail
7018 1130 0000 4095 4351

To: Sellers & Fulton Oil LLC
422 W Main Suite 5
Artesia, NM 88210

RE: Rover Petroleum, LLC.
C-108 Injection Application
High Lonesome Queen Unit #2 & #6
Section 16, Township 16S, Range 29E
Eddy County, New Mexico

To Whom It May Concern:

Please be advised that Rover Petroleum, LLC. is filling a C-108 Application to convert the High Lonesome Queen Unit #2, API 30-015-02741 and #6, API 30-015-2749 to injection wells. You have been identified as an offset operator in the above referenced lands therefore, requiring notification of these application, copies are included. Please be advised that any objections must be made in writing to the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15 days of this notice.

Please do not hesitate to contact us if you have any questions. Thank you for your attention to this matter.

Sincerely,

Sami Watts
Land Assistant



COPY

October 25, 2018

Delivered Via Certified Mail
7018 1130 0000 4095 4344

To: State of New Mexico
Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

RE: Rover Petroleum, LLC.
C-108 Injection Application
High Lonesome Queen Unit #2 & #6
Section 16, Township 16S, Range 29E
Eddy County, New Mexico

To Whom It May Concern:

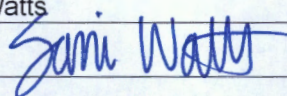
Please be advised that Rover Petroleum, LLC. is filling a C-108 Application to convert the High Lonesome Queen Unit #2, API 30-015-02741 and #6, API 30-015-2749 to injection wells. You have been identified as a surface owner in the above referenced lands therefore, requiring notification of this application. Please be advised that any objections must be made in writing to the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15 days of this notice.

Please do not hesitate to contact us if you have any questions. Thank you for your attention to this matter.

Sincerely,

Sami Watts
Land Assistant

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Rover Petroleum Operating, LLC
ADDRESS: 17304 Preston Road, Suite 300, Dallas, TX 75252
CONTACT PARTY: Sami Watts PHONE: 214-234-9115 ext 1032
- 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-13864
- 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: Sami Watts TITLE: Land Assistant
SIGNATURE:  DATE: April 18, 2019
E-MAIL ADDRESS: swatts@roverpetro.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: Submitted Oct 29, 2018, reapplying for Administrative Approval

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

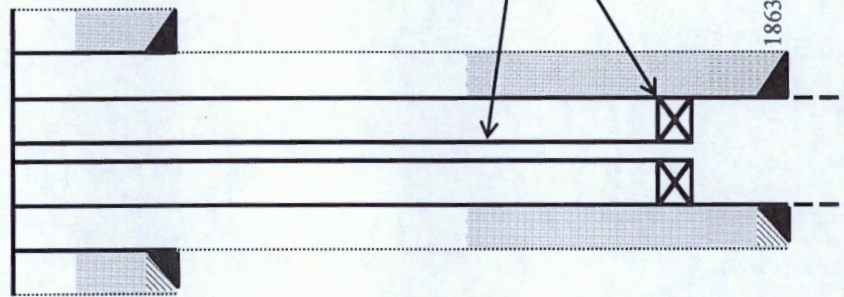
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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.

OPERATOR: ROVER OPERATING, LLCWELL NAME & NUMBER: HIGH LONESOME QUEEN UNIT #6WELL LOCATION: 1980' FSL & 660' FEL
FOOTAGE LOCATIONUNIT LETTER ISECTION 16TOWNSHIP 16SRANGE 29EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 12-1/4" Casing Size: 8-5/8"

Cemented with: 150 sx. or ft³

Top of Cement: 30' Method Determined: Calc'd (25% SF)
Intermediate Casing

Hole Size: N/A Casing Size: N/A

Cemented with: sx. or ft³

Top of Cement: Method Determined:
Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 100 sx. or ft³

Top of Cement: 1250' Method Determined: Calc'd (25% SF)

Total Depth: 1863' Injection Interval
1863' feet to 1933' (OPEN HOLE)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2-3/8" Lining Material: IPC-1505Type of Packer: Baker AD-1 (or equivalent)Packer Setting Depth: +/- 1810'Other Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

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

If no, for what purpose was the well originally drilled? Primary oil production

2. Name of the Injection Formation: Penrose Sandstone

3. Name of Field or Pool (if applicable): High Lonesome; Queen [30780]

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. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: San Andres (1,300' above sea level),

Glorieta (200' above sea level), Abo (2,150' below sea level),

Wolfcamp (3,450' below sea level)

Section 16, T-16-S, R-29-E
Eddy County, New Mexico

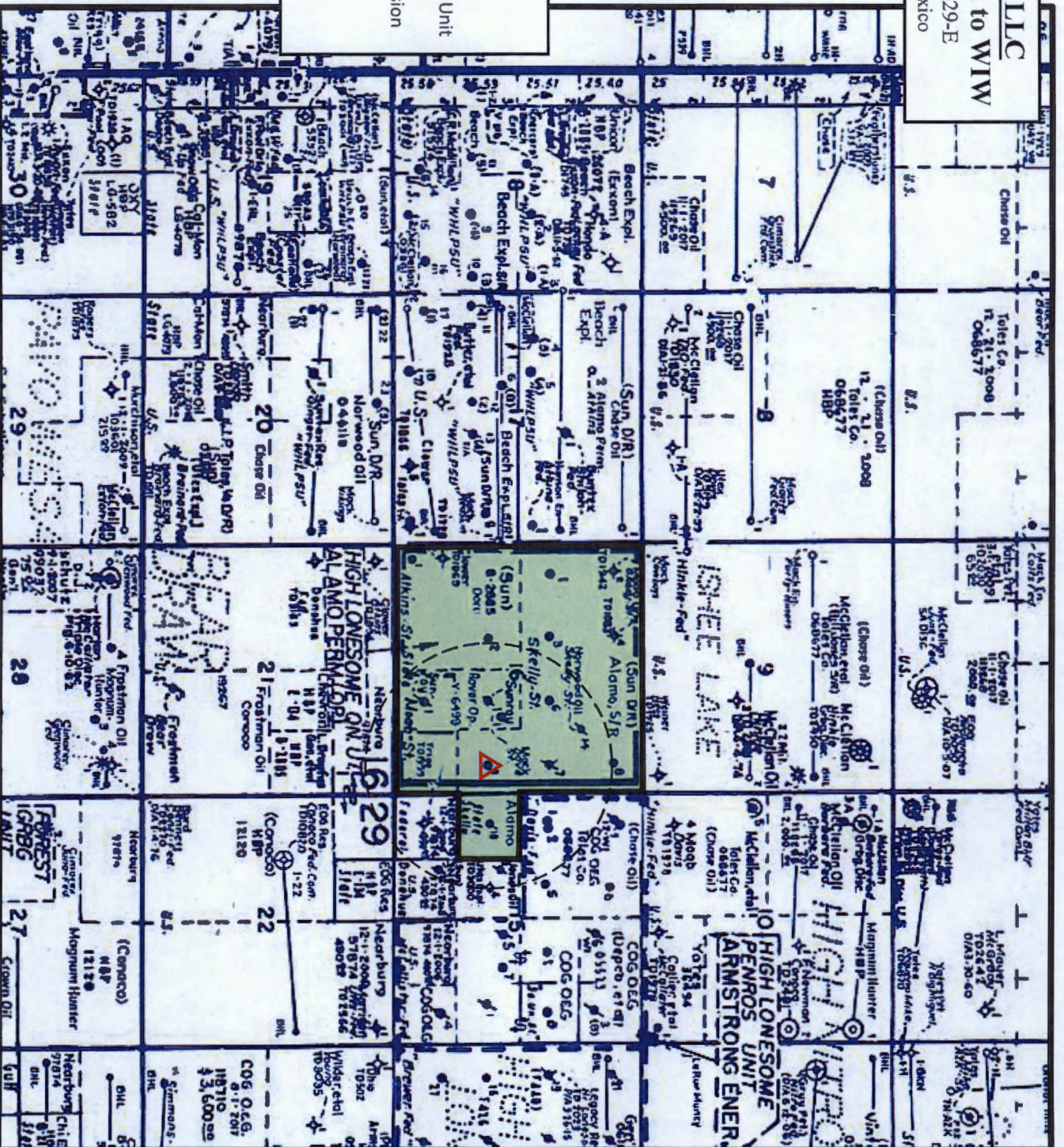
= High Lonesome Queen Unit

= Proposed WIV conversion

= Area of Review

Map Scale: One Mile

N



Rover Petroleum, LLC: High Lanesome Queen Unit #6 - Form C-108 Application
 VI. Tabulation of Data on All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

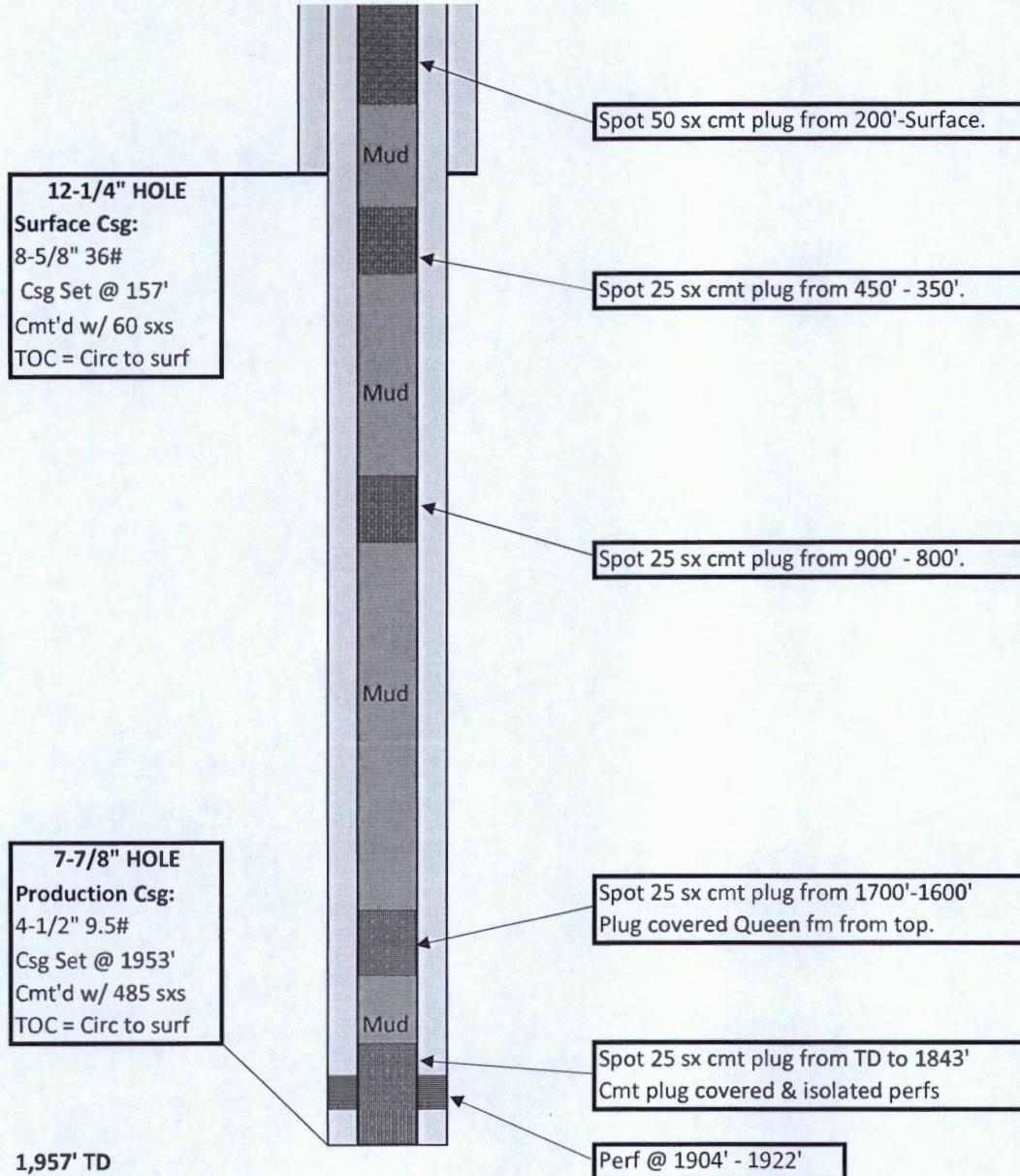
No.	Lease Name	Well	API No.	Operator	UL	Location	Sec. Twp. Rge	Footage Calls	Well Type	Well Status	Spud Date	Total Depth	Surface Casing			Production Casing					
													Hole Size	Casing Size	Sacks	TOC	Hole Size	Casing Size	Sacks	TOC	
1	HIGH LONESOME QUEEN UNIT #006	6	30-015-02749	ROVER OPERATING, LLC	I	S16, T16S, R: 29E	1980 FSL, 660 FEL	OIL	Active	9/9/1955	1933'	12-1/4"	8-5/8"	417'	150	Surface	7-7/8"	5-1/2"	1863'	100	1217' (Calc)
2	HIGH LONESOME QUEEN UNIT #005	5	30-015-02748	ROVER OPERATING, LLC	A	S16, T16S, R: 29E	660 FSL, 660 FEL	OIL	Active	11/30/1955	1925'	12-1/4"	8-5/8"	388'	150	Surface	7-7/8"	5-1/2"	1911'	150	941' (Calc)
3	SKELLY-STATE #013	13	30-015-05904	NORWOOD OIL CO.	H	S16, T16S, R: 29E	1310 FSL, 10 FEL	PLUGOIL	P&A	4/17/1957	1939'	12-1/4"	8-5/8"	399'	175	Surface	7-7/8"	4-1/2"	1939'	575	Surface
4	SKELLY-STATE #007	7	30-015-02747	MACC ENERGY CORP	H	S16, T16S, R: 29E	1980 FSL, 660 FEL	PLUGOIL	P&A	8/3/1955	1920'	12-1/4"	8-5/8"	395'	150	Surface	6-1/4"	5-1/2"	1889'	100	Surface
5	DAVIS FEDERAL #002	2	30-015-02726	REMANANT OIL OPERATING, LLC	E	S16, T16S, R: 29E	1980 FSL, 770 FSL	OIL	Active	10/31/1955	1940'	12-1/4"	8-5/8"	410'	150	Surface	7-7/8"	4-1/2"	1930'	75	1473' (Calc)
6	SKELLY-STATE #023	23	30-015-05901	NORWOOD OIL CO.	H	S16, T16S, R: 29E	2630 FSL, 10 FEL	INJECT	P&A	5/31/1957	1943'	12-1/4"	8-5/8"	157'	75	Surface	7-7/8"	4-1/2"	1940'	480	Surface
7	DAVIS FEDERAL #022	22	30-015-05905	ACECO PETROLEUM CO.	E	S16, T16S, R: 29E	2630 FSL, 1310 FSL	INJECT	P&A	6/21/1957	1957'	12-1/4"	8-5/8"	157'	60	Surface	7-7/8"	4-1/2"	1953'	485	Surface
8	DONAHUE-FEDERAL #002	2	30-015-02724	SUN OIL CO.	K	S15, T16S, R: 29E	2310 FSL, 1950 FSL	PLUGOIL	P&A	12/18/1955	1944'	12-1/4"	8-5/8"	407'	50	Surface	7-7/8"	5-1/2"	1897'	50	1600'
9	HIGH LONESOME QUEEN UNIT #007	7	30-015-02725	ROVER OPERATING, LLC	L	S15, T16S, R: 29E	1980 FSL, 660 FSL	OIL	Active	12/18/1955	1955'	12-1/4"	8-5/8"	385'	150	Surface	7-7/8"	5-1/2"	1960'	100	1304' (Calc)
10	DONAHUE-FEDERAL #003	3	30-015-02725	GENERAL WESTERN PETRO	N	S15, T16S, R: 29E	990 FSL, 1350 FSL	PLUGOIL	P&A	1/27/1956	1959'	12-1/4"	8-5/8"	410'	50	Surface	7-7/8"	5-3/16"	1905'	90	1379' (Calc)
11	SKELLY-STATE #014	14	30-015-05903	NORWOOD OIL CORP	B	S15, T16S, R: 29E	1310 FSL, 1330 FEL	INJECT	P&A	4/1/1957	1930'	12-1/4"	8-5/8"	385'	200	Surface	6-3/4"	4-1/2"	1918'	500	Surface
12	SKELLY-STATE #006	6	30-015-02746	ALAMO PERMANIAL RESOURCES, LLC	G	S16, T16S, R: 29E	1980 FSL, 1980 FEL	PLUGOIL	P&A	7/26/1955	1893'	12-1/4"	8-5/8"	333'	200	Surface	7-7/8"	4-1/2"	1803'	100	1157' (Calc)
13	SKELLY-STATE #024	24	30-015-05902	NORWOOD OIL CORP	G	S16, T16S, R: 29E	2630 FSL, 1330 FEL	INJECT	P&A	5/29/1957	1914'	12-1/4"	8-5/8"	131'	75	Surface	7-5/8"	4-1/2"	1911'	570	Surface
14	SKELLY-STATE #025	25	30-015-02750	NORWOOD OIL CORP	F	S16, T16S, R: 29E	2630 FSL, 2630 FSL	INJECT	P&A	2/21/1959	1933'	12-1/4"	8-5/8"	179'	100	Surface	6-3/4"	4-1/2"	1933'	270	Surface
15	DOVE-STATE #001	1	30-015-34517	SELLERS&LUTON OIL LLC	J	S16, T16S, R: 29E	2310 FSL, 1650 FEL	OIL	Active	7/8/2005	4570'	17-1/2"	13-3/8"	313'	375	Surface	7-7/8"	5-1/2"	4557'	1455	Surface
16	MOAB-STATE #001	1	30-015-02738	SUN OIL CO.	J	S16, T16S, R: 29E	1980 FSL, 1980 FEL	PLUGOIL	P&A	8/26/1955	1914'	12-1/4"	8-5/8"	400'	75	Surface	7-7/8"	5-1/2"	1864'	100	1218' (Calc)
17	MOAB-STATE #002	2	30-015-02743	SUN OIL CO.	O	S16, T16S, R: 29E	660 FSL, 1980 FEL	PLUGOIL	P&A	10/4/1955	1906'	12-1/4"	8-5/8"	387'	150	Surface	7-7/8"	5-1/2"	1848'	100	1202' (Calc)

Novor Petroleum, LLC, High Lanesome Queen Unit #6 - Form C-108 Application
 VI. Tabulation of Data on All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

No.	Lease Name	Well No.	API No.	Open Interval	Comments
1	HIGH LONESOME QUEEN UNIT #006	6	30-015-02749	1863' - 1933' (OPEN HOLE)	
2	HIGH LONESOME QUEEN UNIT #005	5	30-015-02748	1832' - 1902'	
3	SKELLY-STATE #013	13	30-015-05904	1887' - 1915'	PAID on 8/21/1985
4	SKELLY-STATE #007	7	30-015-02747	1887' - 1920' (OPEN HOLE)	PAID on 3/29/2001
5	FOVUS FEDERAL #002	2	30-015-02726	1900' - 1924'	PAID on 8/22/1985
6	SKELLY-STATE #023	23	30-015-05901	1890' - 1921'	PAID on 3/10/1986
7	DAVIS FEDERAL #022	22	30-015-05905	1904' - 1922'	PAID on 4/30/1986, Dry Hole
8	CONAHUE FEDERAL #002	7	30-015-02724	1897' - 1944' (OPEN HOLE)	
9	HIGH LONESOME QUEEN UNIT #007	3	30-015-02735	1902' - 1932'	
10	CONAHUE FEDERAL #003	3	30-015-02725	1905' - 1959' (OPEN HOLE)	PAID on 2/7/1963
11	SKELLY-STATE #014	14	30-015-05903	1877' - 1893'	PAID on 8/22/1985
12	SKELLY-STATE #006	6	30-015-02746	1803' - 1893' (OPEN HOLE)	PAID on 1/25/2013
13	SKELLY-STATE #024	24	30-015-05902	1873' - 1895'	PAID on 8/22/1985
14	SKELLY-STATE #025	25	30-015-02750	1868' - 1872'	PAID on 8/23/1985
15	DOVE-STATE #001	1	30-015-94157	2814' - 3074'	
16	MOAB-STATE #001	1	30-015-02738	1864' - 1914' (OPEN HOLE)	PAID on 5/11/1972
17	MOAB-STATE #002	2	30-015-02743	1848' - 1916' (OPEN HOLE)	PAID on 5/11/1972

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.:	ACECO PETROLEUM CO. - DAVIS FEDERAL #022 (P&A'd)	ELEVATION, GL: 3,686'
Location:	2630' FNL & 1310' FWL UL: E, SEC: 15, T: 16-S, R: 29-E EDDY County, NM	FIELD: HIGH LONESOME; QUEEN
LEASE No.:	LC - 068677	Well Type: INJECTION
API No. :	<u>30-015-05905</u>	Spudded: 6/21/1957
		Drig Stopped: 6/29/1957
		Completed: 7/23/1957
		Plugged: 2/21/1986



Drilled by MOAB DRILLING CO. as the DAVIS FEDERAL #022 in 1957.

P&A'd by ACECO PETROLEUM CO. in Febuary, 1986.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **SUN OIL CO. - DONAHUE-FEDERAL #002 (P&A'd)**

Location: 2310' FSL & 1650' FWL
UL: K, SEC: 15, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: LC - 068628

API No.: **30-015-02724**

ELEVATION, GL: 3,687'

FIELD: HIGH LONESOME; QUEEN

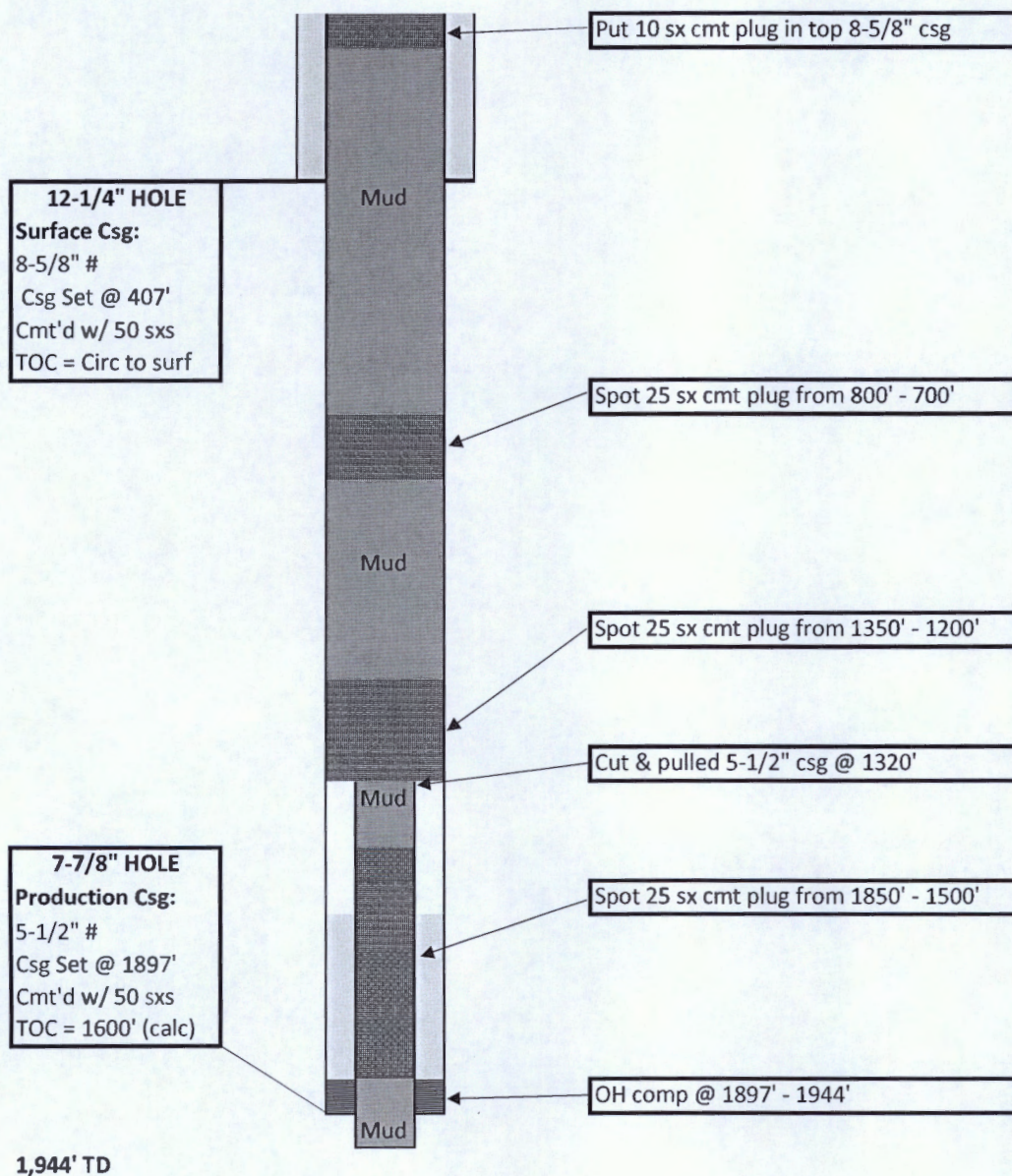
Well Type: OIL

Spudded: 12/18/1955

Drig Stopped: 1/14/1956

Completed: 1/15/1956

Plugged: 4/30/1969



Drilled by EDWARD C. DONOHUE, ET AL as the DONOHUE #002 in 1956.

DRY HOLE

P&A'd by SUN OIL CO. in April, 1969.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: GENERAL WESTERN PETRO - DONAHUE-FEDERAL #003 (P&A'd)

Location: 990' FSL & 1650' FWL

ELEVATION, GL: 3,682'

UL: N, SEC: 15, T: 16-S, R: 29-E

FIELD: HIGH LONESOME; QUEEN

EDDY County, NM

Well Type: OIL

LEASE No.: LC - 06828

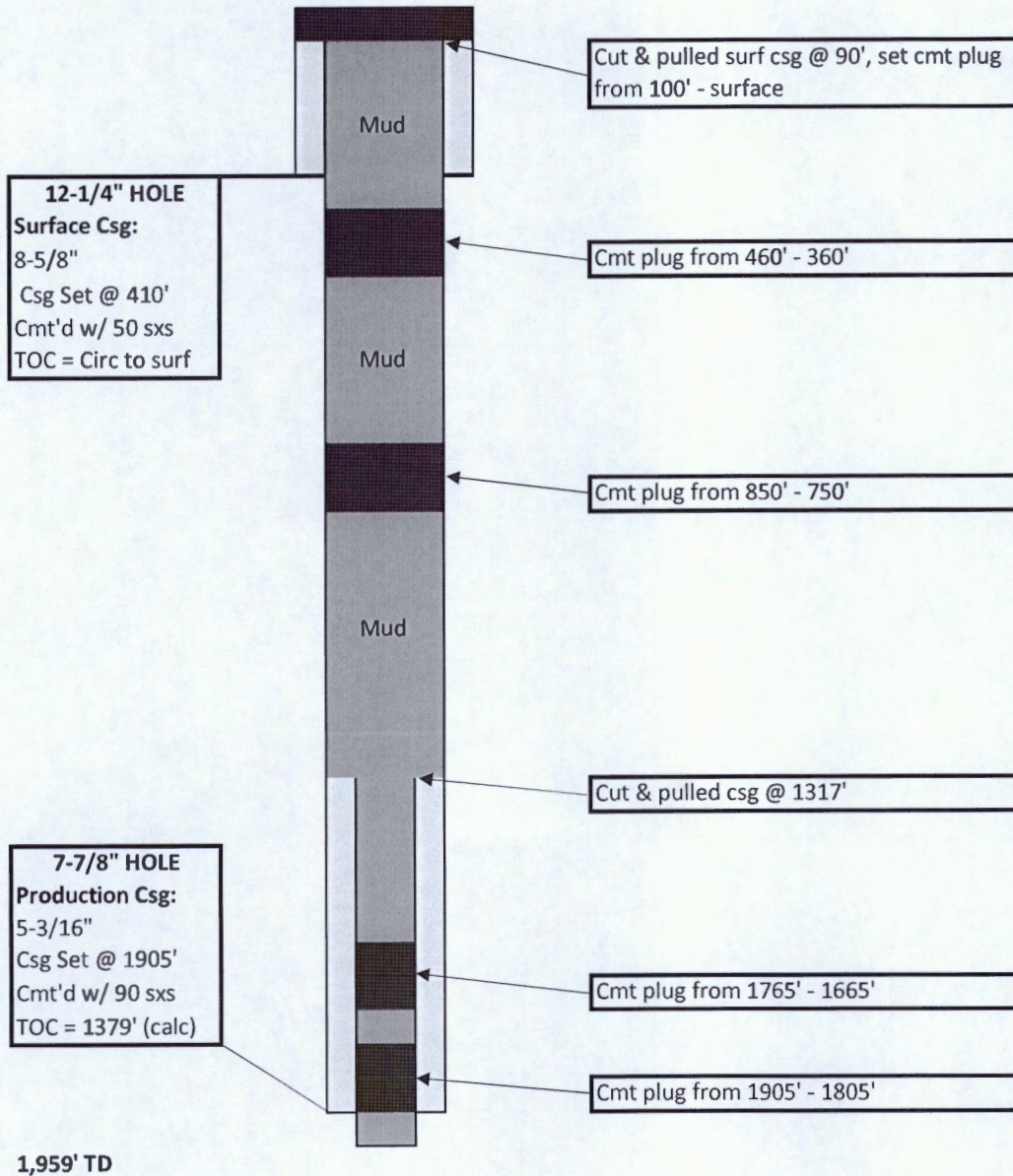
Spudded: 1/27/1956

API No. : 30-015-02725

Drig Stopped: 2/24/1956

Completed: 3/2/1956

Plugged: 2/7/1963



Drilled by EDWARD c. DONOHUE, ET AL as the DONOHUE #003 in 1956.

P&A'd by GENERAL WESTERN PETRO in Febuary, 1963.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: SUN OIL CO. - MOAB-STATE #001 (P&A'd)

Location: 1980' FSL & 1980' FeL
UL: J, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-8889

API No. : 30-015-02738

ELEVATION, GL: 3673'

FIELD: HIGHLONESOME; QUEEN

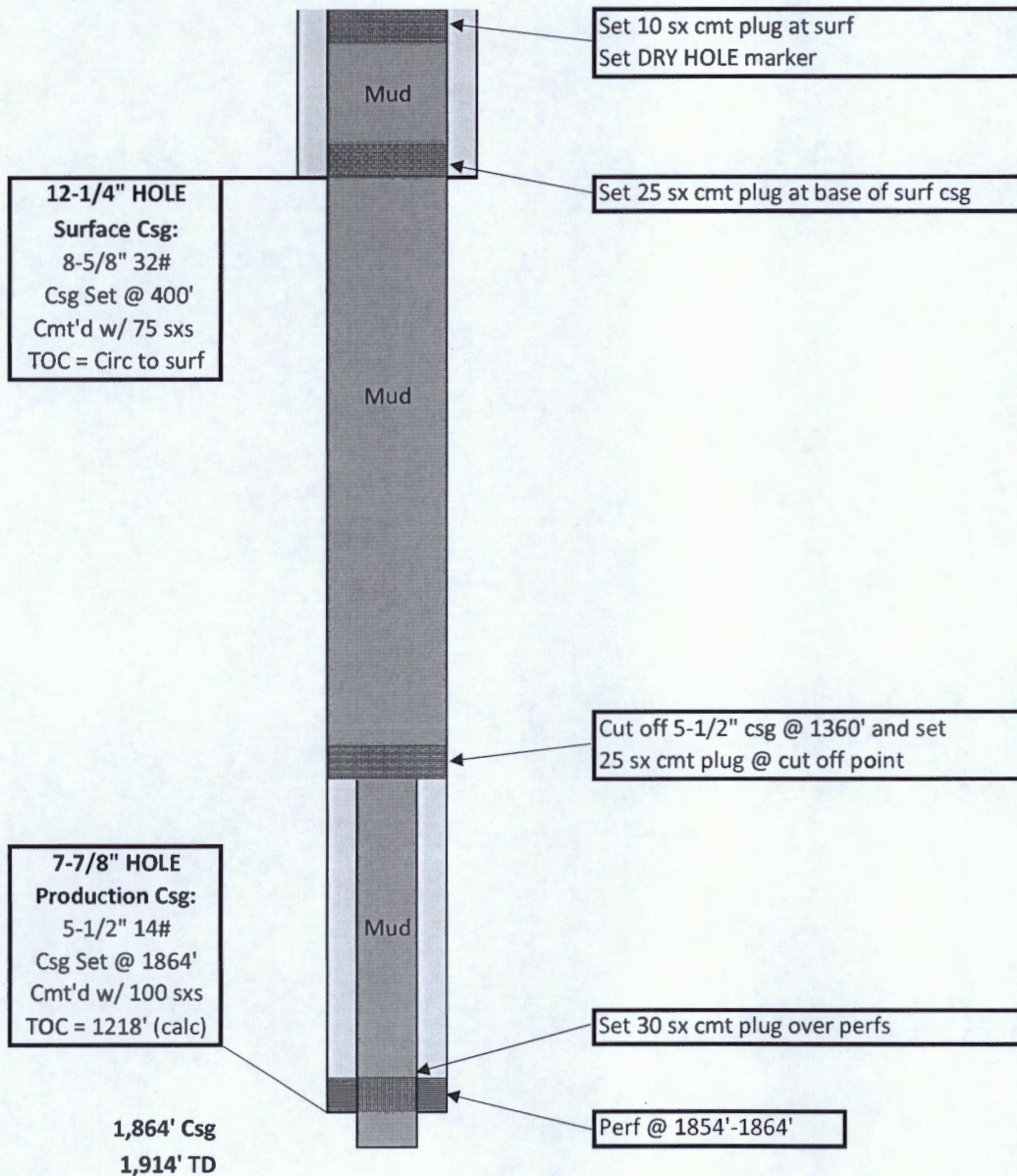
Well Type: OIL

Spudded: 8/26/1955

Drig Stopped: 9/5/1955

Completed: 9/12/1955

Plugged: 5/11/1972



Drilled by MOAB DRILLING CO. as the STATE #001 in 1955.

DRY HOLE

P&A'd by SUN OIL CO. in 5/11/1972.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: SUN OIL CO. - MOAB-STATE #002 (P&A'd)

Location: 660' FSL & 1980' FWL
UL: O, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

ELEVATION, GL: 3,672'

FIELD: HIGHLONESOME, QUEEN

Well Type: OIL

LEASE No.: E-8889

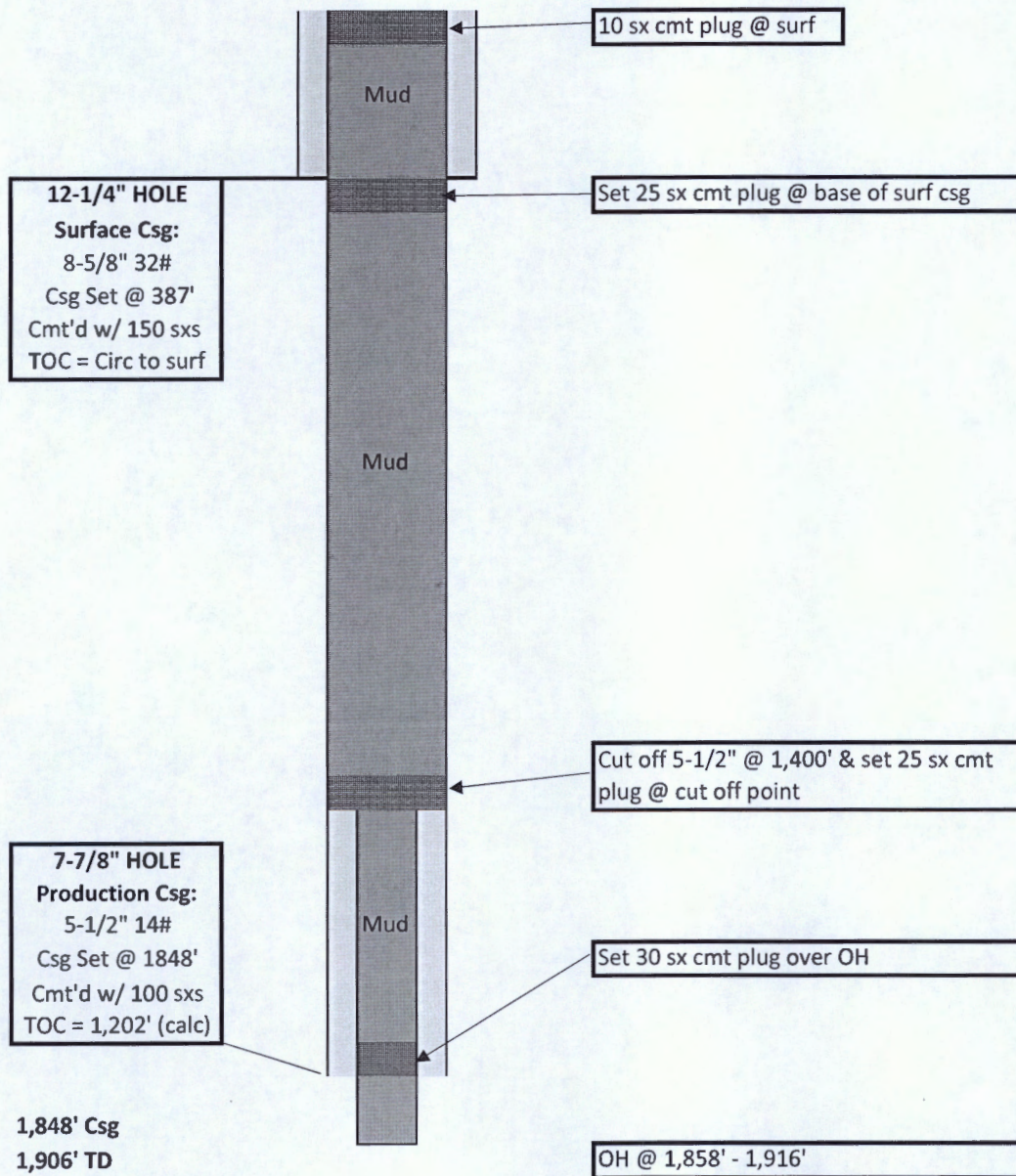
Spudded: 10/4/1955

API No. : 30-015-02743

Drlg Stopped: 10/14/1955

Completed: 11/23/1955

Plugged: 5/11/1972



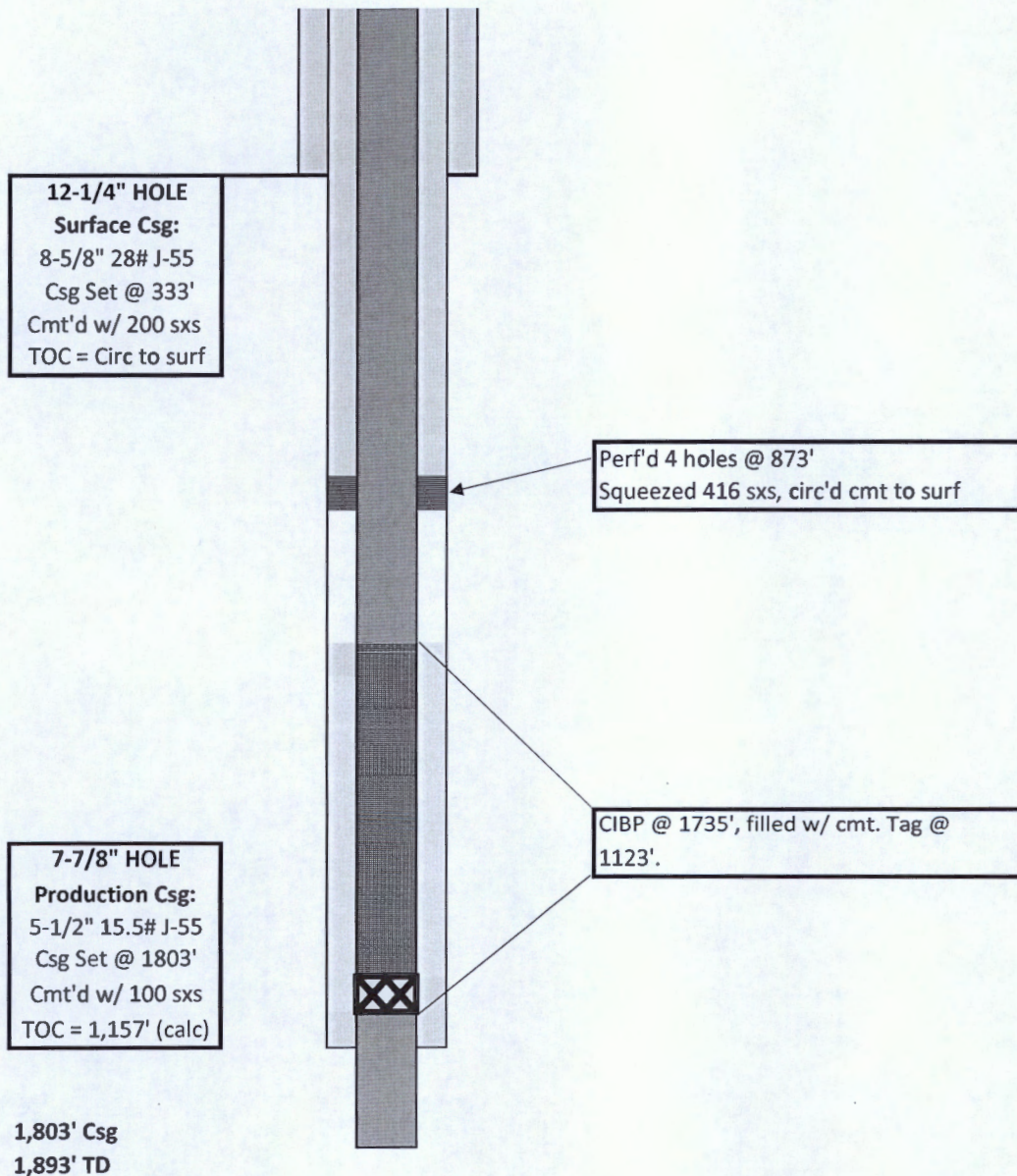
Drilled by MOAB DRILLING CO. as the STATE #002 in 1955.

DRY HOLE

P&A'd by SUN OIL CO. in May, 1972.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.:	ALAMO PERMIAN RESOURCES, LLC - SKELLY STATE #006 (P&A'd)	
Location:	1980' FNL & 1980' FEL	ELEVATION, GL: 3,582'
	UL: G, SEC: 16, T: 16-S, R: 29-E	FIELD: HIGH LONESOME; QUEEN
	EDDY County, NM	Well Type: OIL
LEASE No.:	E-134	Spudded: 7/26/1955
API No. :	<u>30-015-02746</u>	Drig Stopped: 8/1/1955
		Completed: 8/27/1955
		Plugged: 1/25/2013



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #006 in 1955.

P&A'd by ALAMO PERMIAN RESOURCES, LLC in January, 2013.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **MACK ENERGY CORP - SKELLY STATE #007 (P&A'd)**

Location: 1980' FNL & 660' FEL
UL: H, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: 30-015-02747

ELEVATION, GL: 3,691'

FIELD: HIGH LONESOME; QUEEN

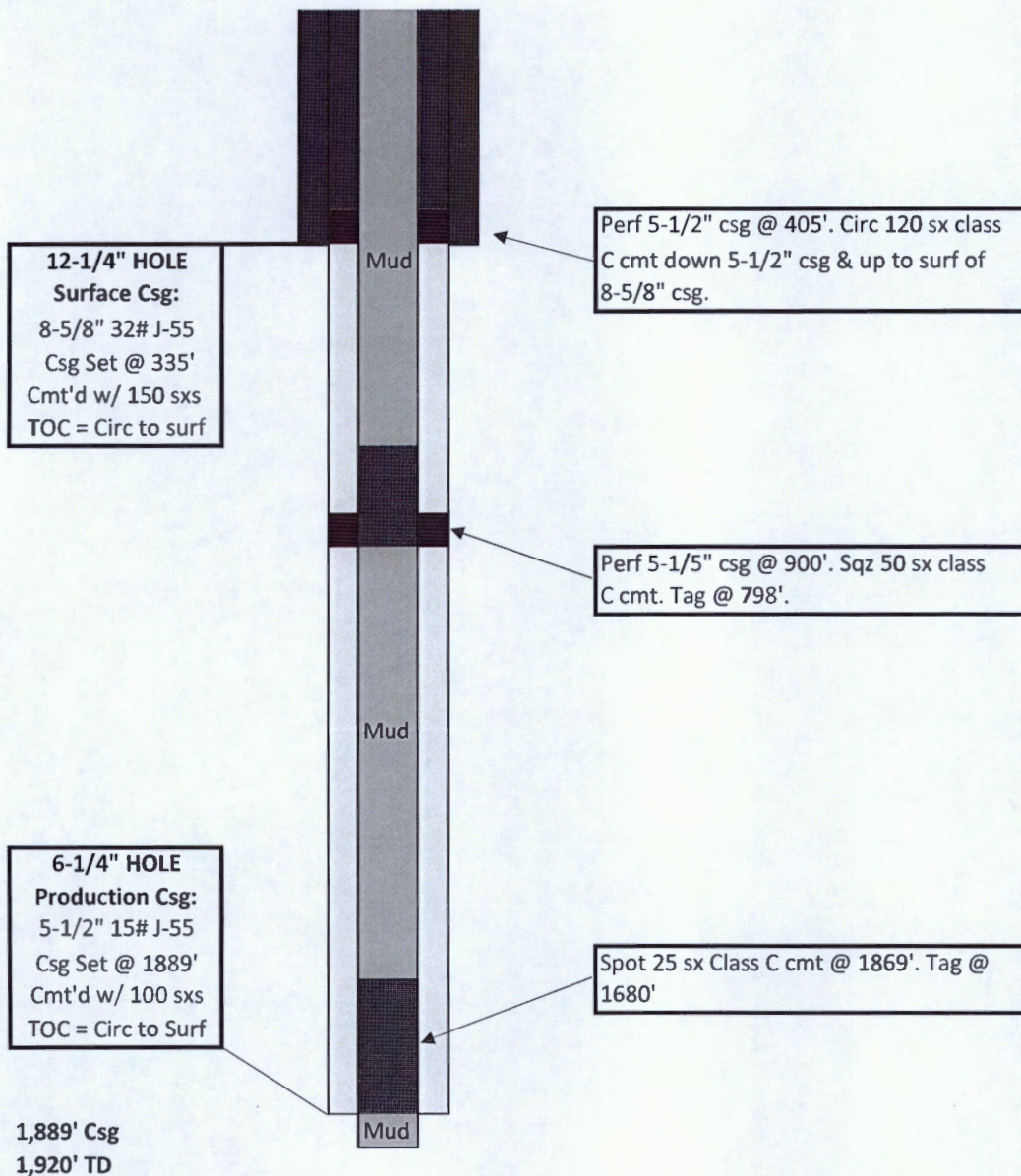
Well Type: OIL

Spudded: 8/3/1955

Drig Stopped: 8/24/1955

Completed: 9/5/1955

Plugged: 3/29/2001



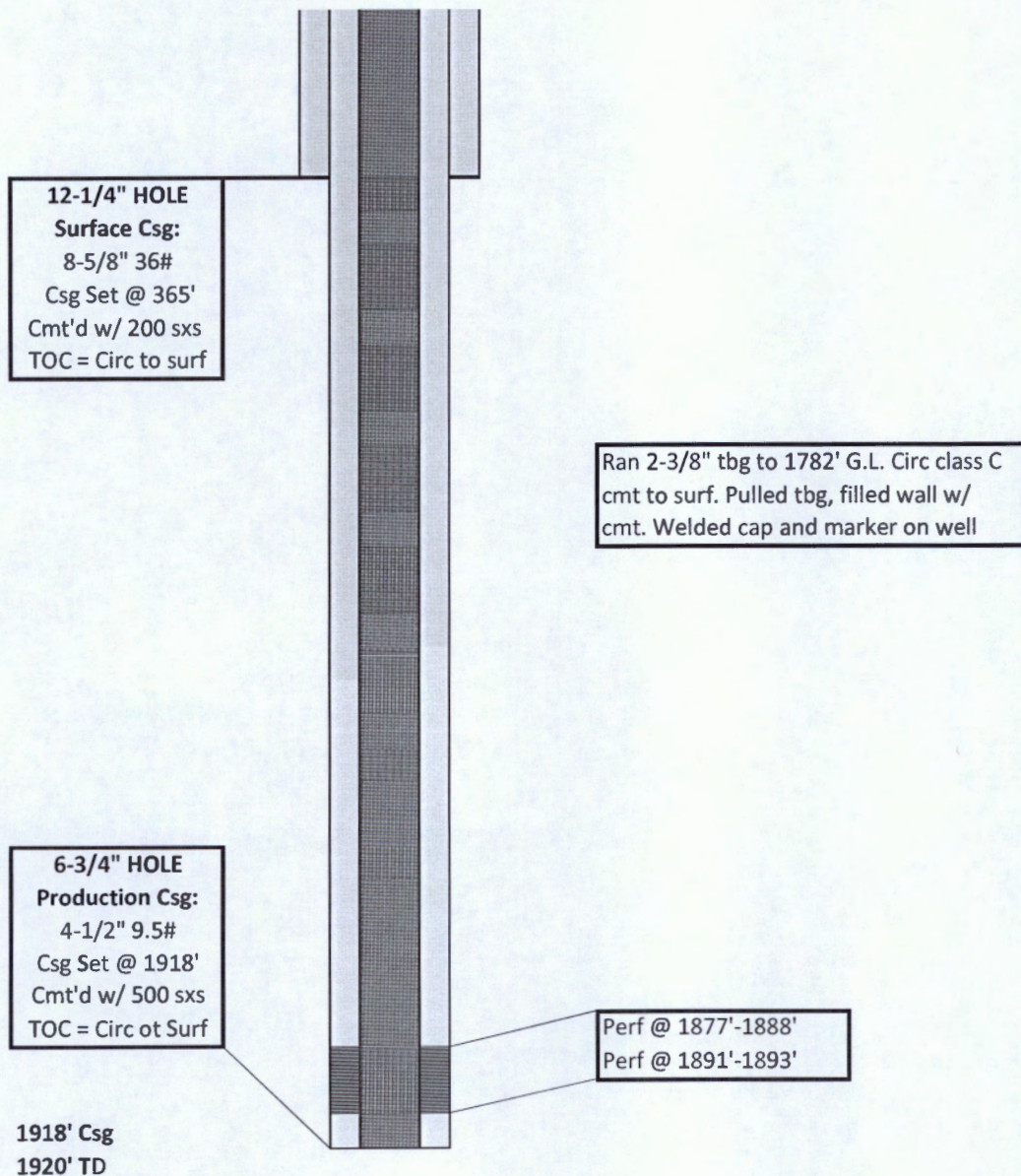
Drilled by MOAB DRILLING CO. as the SKELLY STATE #007 in 1955.

DRY HOLE

P&A'd by MACK ENERGY CORP in March, 2001.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.:	NORWOOD OIL CORP - SKELLY STATE #014 (P&A'd)	
Location:	1310' FNL & 1330' FEL	ELEVATION, GL: 3679'
	UL: B, SEC: 16, T: 16-S, R:-29E	FIELD: HIGH LONESOME; QUEEN
	EDDY County, NM	Well Type: Injection
LEASE No.:	E-134	Spudded: 4/1/1957
API No. :	<u>30-015-0590</u>	Drig Stopped: 4/15/1957
		Completed: 4/15/1957
		Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #014 in 1957.

P&A'd by NORWOOD OIL CORP in August, 1985.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CO. - SKELLY-STATE #013 (P&A'd)

Location: 1310' FNL & 10 FEL
UL: A, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: 30-015-05904

ELEVATION, GL: 3,693'

FIELD: HIGHLONESOME; QUEEN

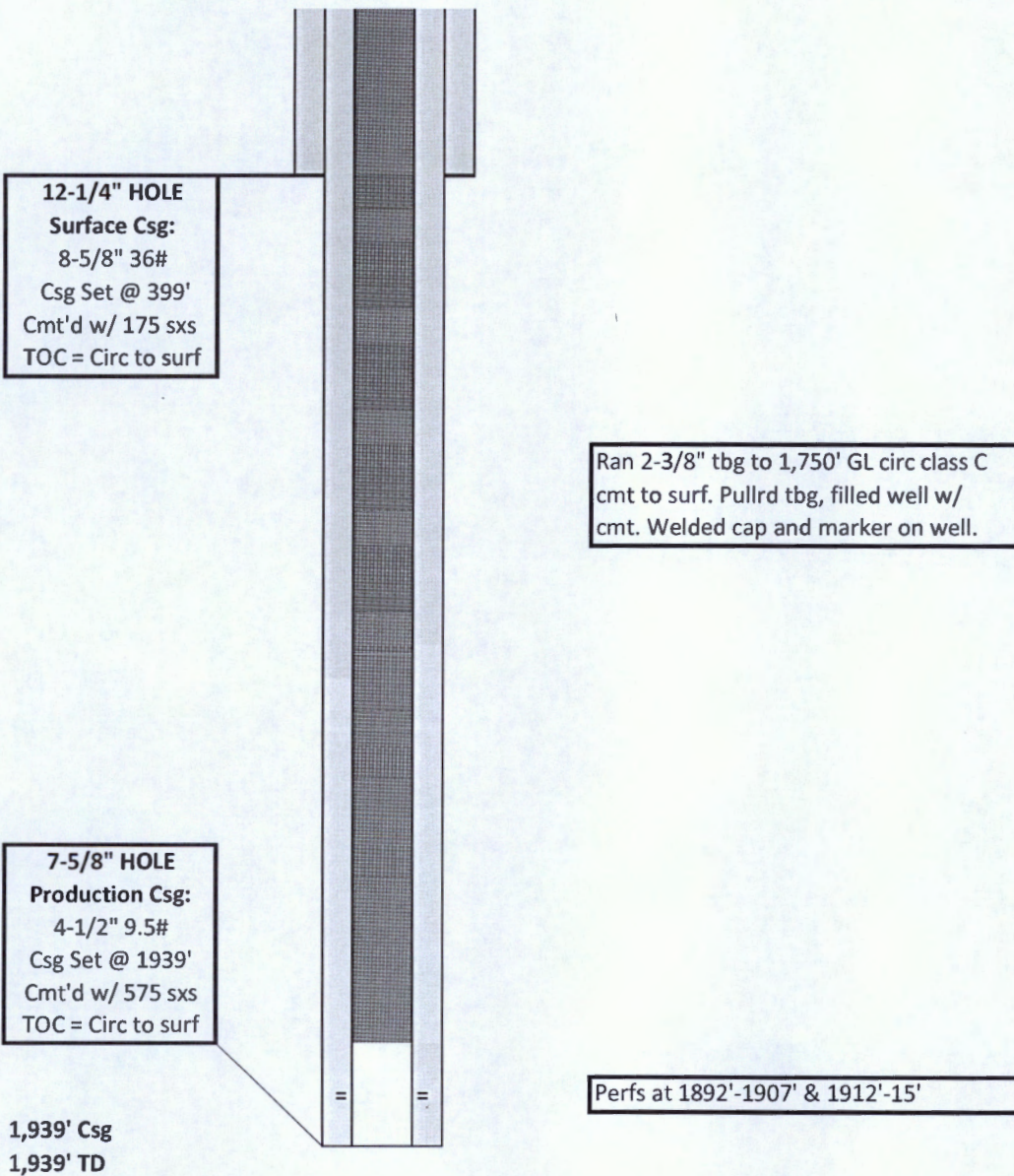
Well Type: INJECTION

Spudded: 4/17/1957

Drlg Stopped: 5/12/1957

Completed: 5/12/1957

Plugged: 8/21/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #013 in 1957.

P&A'd by NORWOOD OIL CO. in August, 1985.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CO. - SKELLY-STATE #023 (P&A'd)

Location: 2630' FNL & 10' FEL
UL: H, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No. : 30-015-05901

ELEVATION, GL: 3,688'

FIELD: HIGH LONESOME; QUEEN

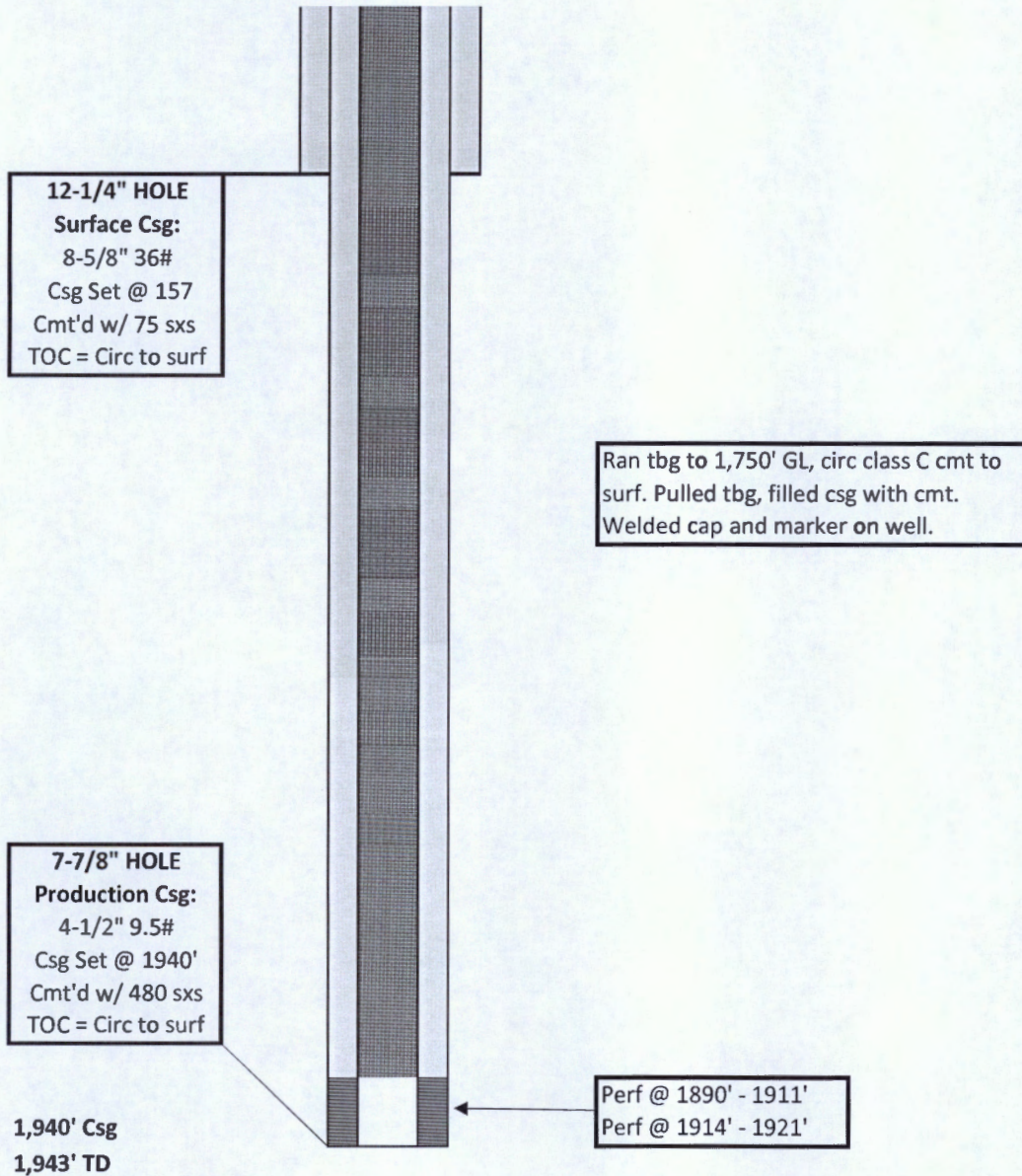
Well Type: INJECTION

Spudded: 5/31/1957

Drig Stopped: 6/7/1957

Completed: 6/7/1957

Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #023 in 1957.

P&A'd by NORWOOD OIL CO. in August, 1985.

ROVER PETROLEUM, LLC

PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **NORWOOD OIL CORP - SKELLY-STATE #024 (P&A'd)**

Location: 2630' FNL & 1330' FEL
UL: G, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: **30-015-05902**

ELEVATION, GR: 3,678'

FIELD: **HIGHLONESOME; QUEEN**

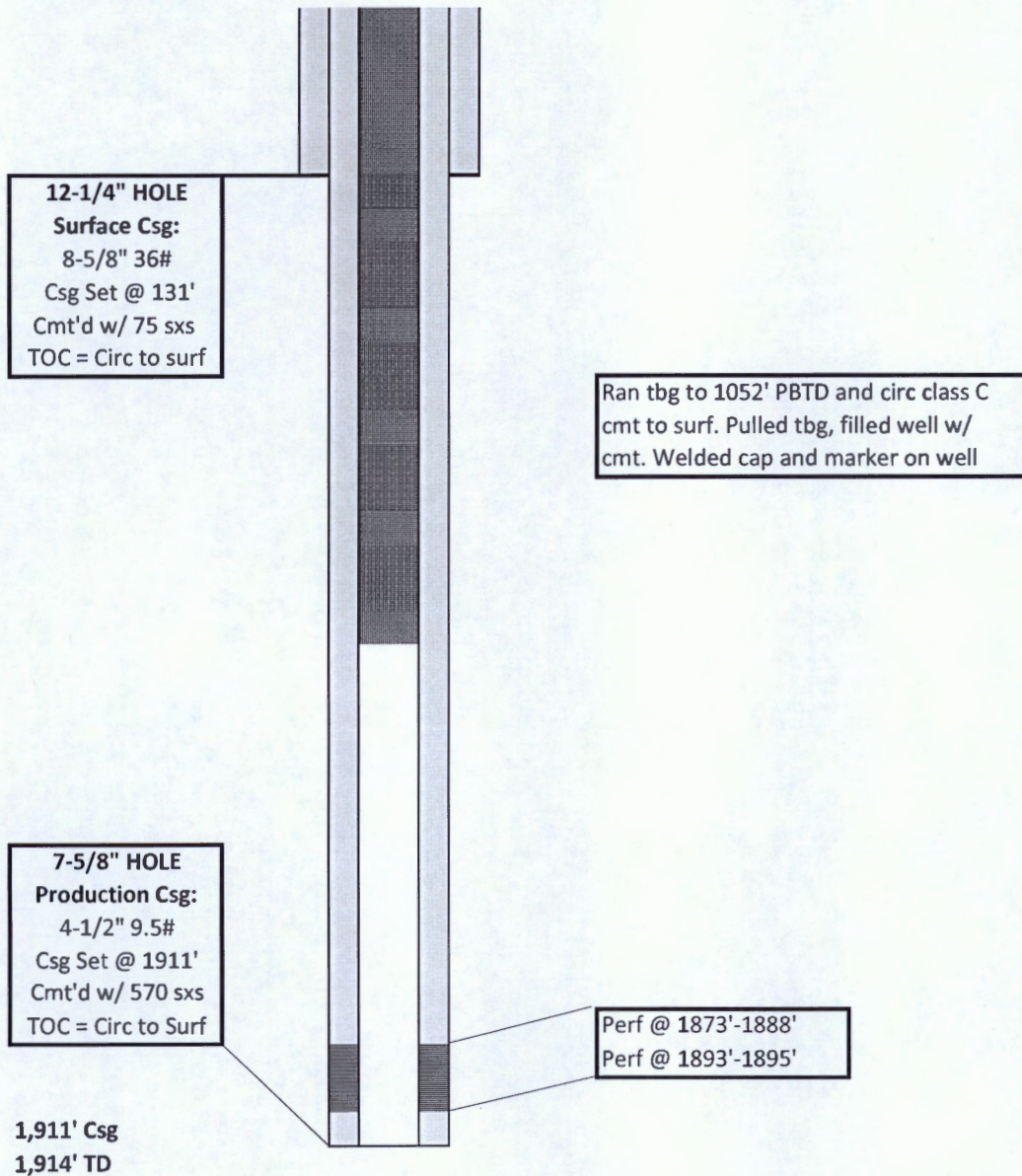
Well Type: **INJECTION**

Spudded: 5/23/1957

Drig Stopped: 5/30/1957

Completed: 5/30/1957

Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY - STATE #024 in 1957.

P&A'd by NORWOOD OIL CORP in August, 1985.

ROVER PETROLEUM, LLC

PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **NORWOOD OIL CORP - SKELLY-STATE #025 (P&A'd)**

Location: 2630' FNL & 2630' FWL
UL: F, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: 30-015-02750

ELEVATION, KB: 3,682'

FIELD: HIGHLONESOME; QUEEN

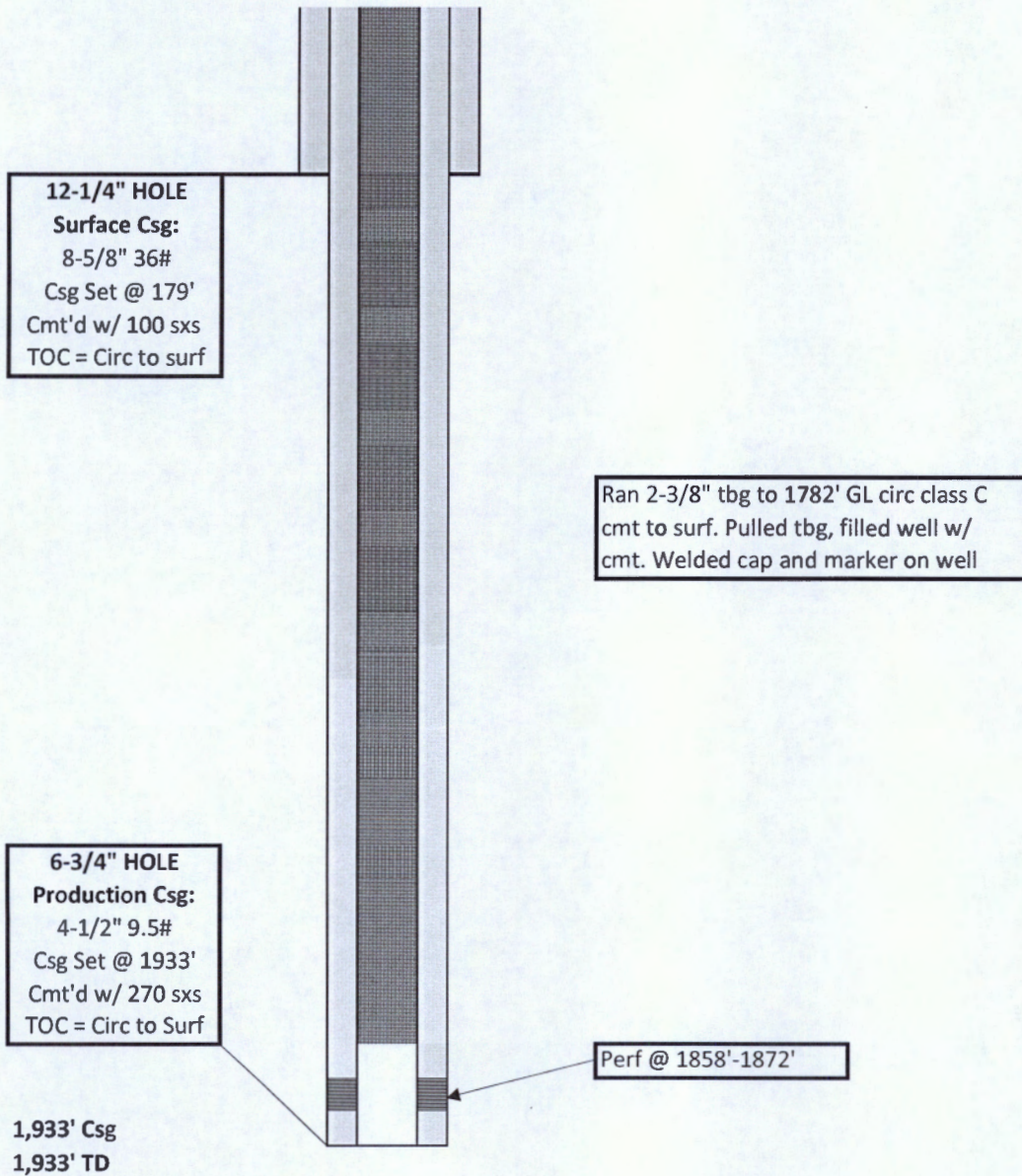
Well Type: INJECTION

Spudded: 2/21/1959

Drig Stopped: 3/4/1959

Completed: 3/24/1959

Plugged: 8/23/1985



Drilled by MOAB DRILLING CORP as the SKELLY-STATE #025 in 1959.

P&A'd by NORWOOD OIL CORP in August, 1985.

VII). Attach data on the proposed operation, including:

1) Proposed average and maximum daily rate and volume of fluids to be injected

Rover Petroleum proposes average and maximum daily rates and volumes of water injection into the High Lonesome Queen #6 water injection well of:

- Average: 250 BWPD ("barrels of water per day per well")
- Maximum: 300 BWPD

2) Whether the system is open or closed

The High Lonesome Queen unit waterflood station is a closed system in which make-up water and produced water from the High Lonesome Queen Unit wells are commingled, treated, and injected.

3) Proposed average and maximum injection pressure

Rover Petroleum, LLC, proposes average and maximum injection pressures for the High Lonesome Queen Unit water injection well of:

- Average: 900 psig
- Maximum: 1100 psig

4) Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water

Rover Petroleum, LLC has entered into a Water Transfer Agreement in which Rover is provided make-up water which currently being produced from the San Andres formation by Mack Energy Corporation. See the attached compatibility test and water analyses of the two waters.

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.)

The High Lonesome Queen Unit #6 water injection well covered by this application is to be used for Secondary Recovery and not for disposal purposes. This requirement does not apply to this application.

NMOCD Form C-108 – Sec. VIII: Geologic Summary

High Lonesome Queen Unit #2

**Sec. 16, Twp 16-S, Rge 29-E, Eddy County, NM
1980 FSL, 1980 FWL**

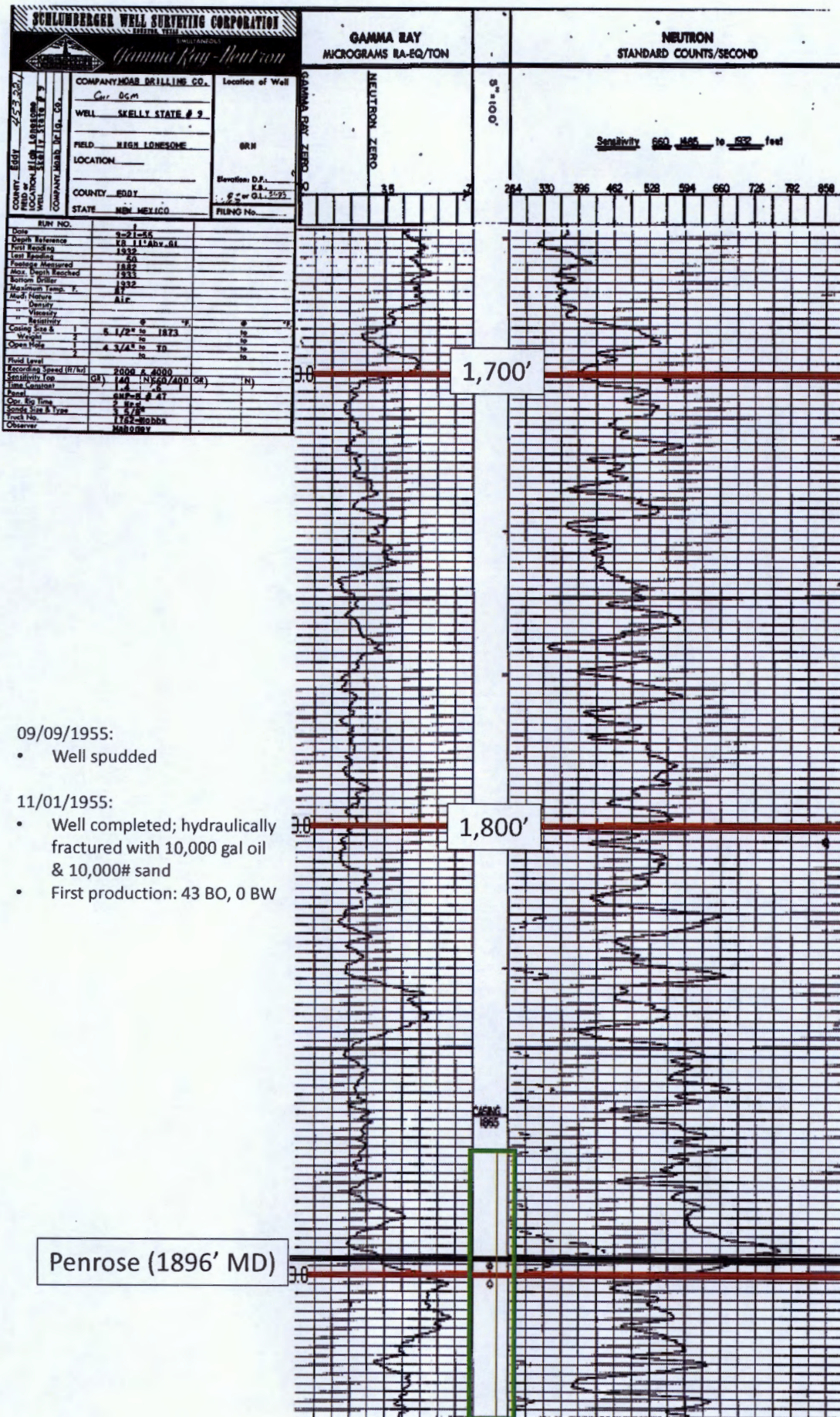
The High Lonesome Queen Unit produces hydrocarbons from the Penrose sandstone of the Permian-age (Guadalupian) Queen Formation. The arkosic Penrose sandstone is about 30 feet-thick and is situated about 250' above the base of the Queen Formation.

The High Lonesome Queen Unit is part of a continuous east-west trend of Penrose production that is at least 8 miles long. The productive trend is about 1 mile wide and is a large stratigraphic trap. Clean and porous hydrocarbon-producing sandstone is bounded to the north by an anhydrite-plugged and salt-plugged sandstone facies with poor permeability. South of the reservoir sandstone the rock quality degrades into shaly sandstone with poor permeability. The entire depositional system is interpreted to represent a high-energy beach or barrier bar (the reservoir), flanked by a periodically-exposed evaporitic tidal flat depositionally up-dip and poorly winnowed shaly sand accumulating in a low energy shallow marine environment depositionally down-dip.

In the area of the High Lonesome Queen Unit the top of the Penrose sandstone is at an average drill depth of 1,850 feet (+1,830'). The interval has a gross thickness of about 30 feet. In the Penrose interval, usually about 10-15 feet of the gross 30 feet of interval develops the threshold porosity of 8% required for economic reservoir permeability. The reservoir sandstone is fine grained and reaches an average porosity of about 11%. Structure mapping indicates that the reservoir dips gently from northwest to southeast across the unit, losing about 135 feet of subsea elevation. The Penrose reservoir sandstone is directly both underlain and overlain by layers of low porosity anhydritic dolostone. These low permeability upper and lower bounding layers, combined with the northern evaporate-plugged reservoir boundary, should serve to strongly contain secondary reservoir energy introduced by means of water-injection.

IX). Describe the proposed stimulation program, if any.

The High Lonesome Queen Unit #6 water injection well will be acidized in the open-hole portion of the wellbore (1863' – 1933') with 5250 gal 15% NEFE HCl (75 gal/ft). If sufficient volumes of water are unable to be injected at the approved surface injection pressure, a step-rate test will be performed to determine if the surface injection pressure can be increased without damaging the formation or if a gelled water fracture stimulation will be needed to increase injectivity. If it is determined that a fracture treatment is needed, the fracture stimulation will be a gelled-water frac job with approximately 30,000-40,000# of 20/40 frac sand.



09/09/1955:

- Well spudded

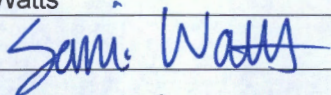
11/01/1955:

- Well completed; hydraulically fractured with 10,000 gal oil & 10,000# sand
- First production: 43 BO, 0 BW

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.

Rover Petroleum, LLC, has investigated the area within a one-mile radius of the proposed High Lonesome Queen Unit #6 water injection well and has determined there to be no fresh water wells currently producing within the area.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Rover Petroleum Operating, LLC
ADDRESS: 17304 Preston Road, Suite 300, Dallas, TX 75252
CONTACT PARTY: Sami Watts PHONE: 214-234-9115 ext 1032
- 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-13864
- 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: Sami Watts TITLE: Land Assistant
SIGNATURE:  DATE: April 18, 2019
E-MAIL ADDRESS: swatts@roverpetro.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Submitted Oct 29, 2018. reapplying for Administrative Approval

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.

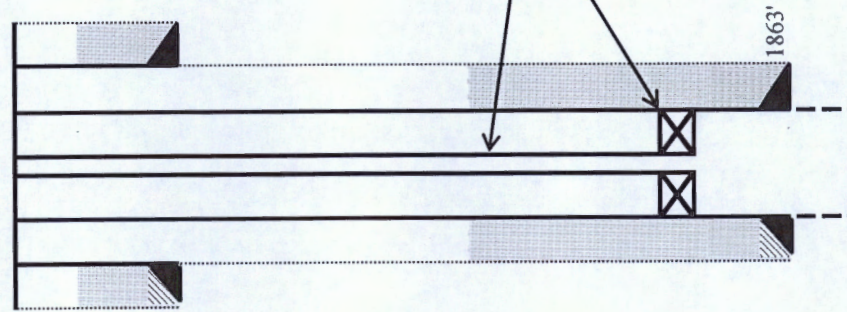
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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.

OPERATOR: ROVER OPERATING, LLC
 WELL NAME & NUMBER: HIGH LONESOME QUEEN UNIT #6
 WELL LOCATION: 1980' FSL & 660' FEL I SECTION 16S TOWNSHIP 29E
FOOTAGE LOCATION RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 8-5/8"
 Cemented with: 150 sx. or ft³
 Top of Cement: 30' Method Determined: Calc'd (25% SF)
Intermediate Casing

Hole Size: N/A Casing Size: N/A
 Cemented with: sx. or ft³
 Top of Cement: Method Determined:
Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"
 Cemented with: 100 sx. or ft³
 Top of Cement: 1250' Method Determined: Calc'd (25% SF)

Total Depth: 1863' Injection Interval
1863' feet to 1933' (OPEN HOLE)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2-3/8" Lining Material: IPC-1505Type of Packer: Baker AD-1 (or equivalent)Packer Setting Depth: +/- 1810'Other Type of Tubing/Casing Seal (if applicable): N/A**Additional Data**

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

If no, for what purpose was the well originally drilled? Primary oil production2. Name of the Injection Formation: Penrose Sandstone3. Name of Field or Pool (if applicable): High Lonesome; Queen [30780]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. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: San Andres (1,300' above sea level),

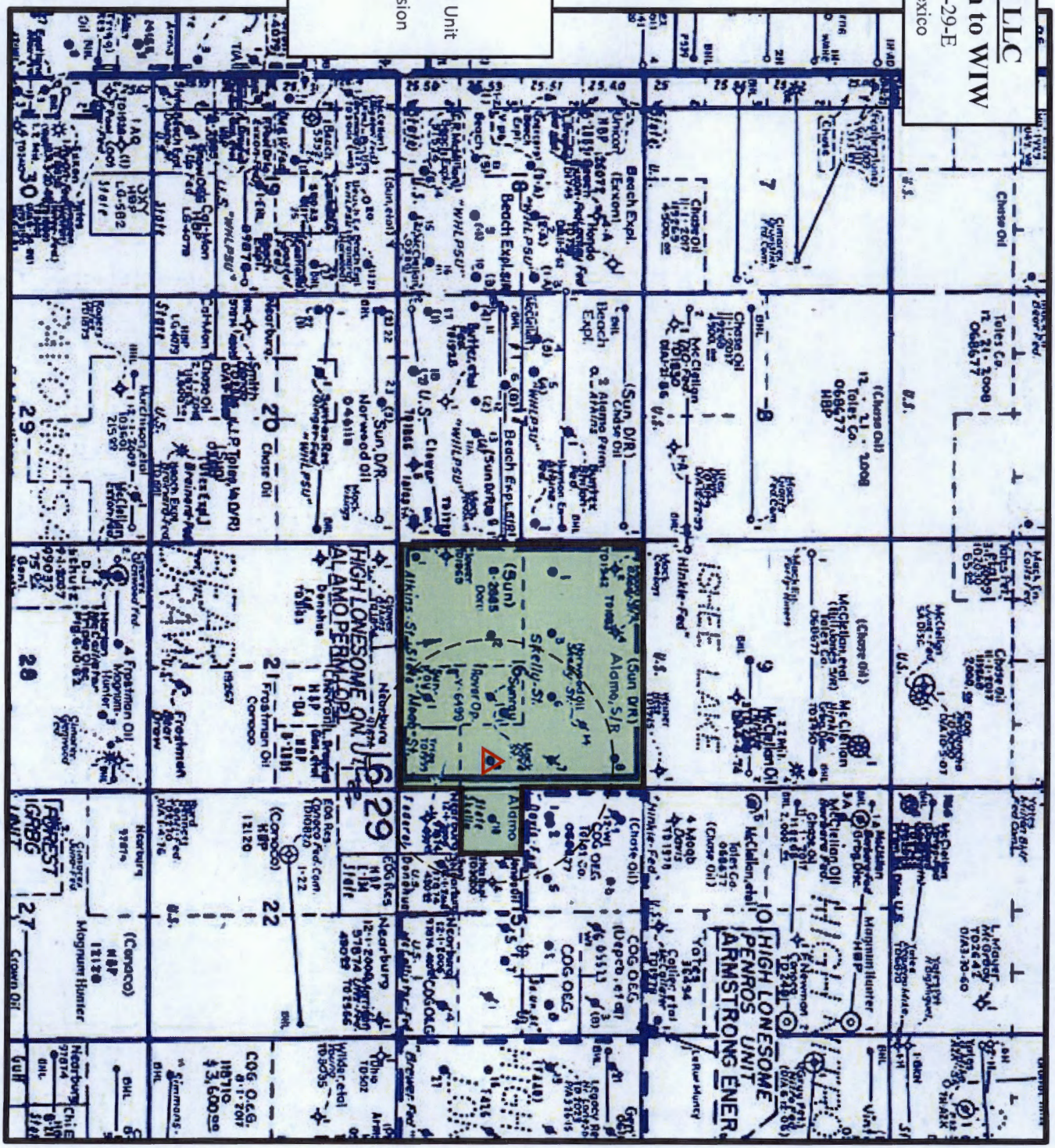
Glorieta (200' above sea level), Abo (2,150' below sea level),Wolfcamp (3,450' below sea level)

Rover Operating, LLC
HLQU #6 Conversion to WIW
 Section 16, T-16-S, R-29-E
 Eddy County, New Mexico

Map Legend

-  = High Lonesome Queen Unit
-  = Proposed WIW conversion
-  = Area of Review

Map Scale: One Mile

No.	Lease Name	Well No.	API No.	Operator	Location	UT.	Sec, Twp, Rge.	Footage Cols.	Well Type	Well Status	Spud Date	Total Depth	Hole size	Casing Size	Sitting Depth	Sacks	TOC	Hole Size	Casing	Setting Depth	Sacks	TOC
1	HIGH LONESOME QUEEN UNIT #006	6	30-015-02749	ROVER OPERATING, LLC	I	S16, T16S, R:29E	1980 FSL, 660 FEL	OIL	Active	9/9/1955	1933'	12-1/4"	8-5/8"	417'	150	Surface	7-7/8"	5-1/2"	1863'	100	1217' (calc)	
2	HIGH LONESOME QUEEN UNIT #005	5	30-015-02748	ROVER OPERATING, LLC	A	S16, T16S, R:29E	660 FSL, 660 FEL	OIL	Active	11/30/1955	1925'	12-1/4"	8-5/8"	388'	150	Surface	7-7/8"	5-1/2"	1911'	150	961' (calc)	
3	SKELLY-STATE #013	13	30-015-05904	NORWOOD OIL CO.	A	S16, T16S, R:29E	1310 FSL, 10 FEL	INJECT	P&A	4/17/1957	1939'	12-1/4"	8-5/8"	399'	175	Surface	7-7/8"	4-1/2"	1939'	575	Surface	
4	SKELLY-STATE #007	7	30-015-02747	MACX ENERGY CORP	H	S16, T16S, R:29E	1980 FSL, 660 FEL	INJECT	P&A	8/31/1955	1920'	12-1/4"	8-5/8"	335'	150	Surface	6-1/4"	5-1/2"	1889'	100	Surface	
5	DAVIS FEDERAL #002	2	30-015-02726	REMNANT OIL OPERATING, LLC	E	S16, T16S, R:29E	1980 FSL, 770 FSL	INJECT	Active	10/31/1955	1940'	12-1/4"	8-5/8"	410'	150	Surface	7-7/8"	5-1/2"	1930'	75	1473' (calc)	
6	SKELLY-STATE #023	23	30-015-05905	NORWOOD OIL CO.	H	S16, T16S, R:29E	2630 FSL, 10 FEL	INJECT	P&A	6/21/1957	1943'	12-1/4"	8-5/8"	157'	60	Surface	7-7/8"	4-1/2"	1940'	480	Surface	
7	DAVIS FEDERAL #022	22	30-015-02724	ACECO PETROLEUM CO.	E	S16, T16S, R:29E	2630 FSL, 1310 FSL	INJECT	P&A	6/21/1955	1957'	12-1/4"	8-5/8"	407'	50	Surface	7-7/8"	5-1/2"	1933'	480	Surface	
8	DONAHUE-FEDERAL #002	2	30-015-02725	SUN OIL CO.	K	S16, T16S, R:29E	2310 FSL, 1650 FSL	INJECT	P&A	12/18/1955	1944'	12-1/4"	8-5/8"	407'	50	Surface	7-7/8"	5-1/2"	1897'	50	1600'	
9	HIGH LONESOME QUEEN UNIT #007	7	30-015-02725	ROVER OPERATING, LLC	N	S15, T16S, R:29E	1980 FSL, 660 FSL	OIL	Active	12/16/1955	1955'	12-1/4"	8-5/8"	385'	150	Surface	7-7/8"	5-1/2"	1987'	100	1304' (calc)	
10	DONAHUE-FEDERAL #003	3	30-015-02725	GENERAL WESTERN PETRO	B	S15, T16S, R:29E	990 FSL, 1350 FSL	INJECT	P&A	4/17/1957	1920'	12-1/4"	8-5/8"	410'	50	Surface	6-3/4"	4-1/2"	1905'	500	Surface	
11	SKELLY-STATE #014	14	30-015-02746	ALAMO PERMIAN RESOURCES, LLC	G	S15, T16S, R:29E	1310 FSL, 1350 FEL	INJECT	P&A	7/26/1955	1893'	12-1/4"	8-5/8"	365'	200	Surface	7-7/8"	5-1/2"	1918'	500	Surface	
12	SKELLY-STATE #006	26	30-015-02746	NORWOOD OIL CORP	G	S16, T16S, R:29E	1980 FSL, 1980 FEL	INJECT	P&A	5/23/1957	1894'	12-1/4"	8-5/8"	133'	75	Surface	7-5/8"	4-1/2"	1911'	570	Surface	
13	SKELLY-STATE #024	24	30-015-05902	NORWOOD OIL CORP	F	S16, T16S, R:29E	2630 FSL, 1330 FEL	INJECT	P&A	2/21/1959	1933'	12-1/4"	8-5/8"	179'	100	Surface	7-7/8"	5-1/2"	1933'	370	Surface	
14	DOVE STATE #001	1	30-015-04137	SELLERS-BLUTION OIL, LLC	J	S16, T16S, R:29E	2310 FSL, 1650 FSL	OIL	Active	8/26/1955	1930'	12-1/4"	8-5/8"	400'	75	Surface	6-1/4"	4-1/2"	1933'	1455	Surface	
15	DOVE STATE #023	23	30-015-02738	SELLERS-BLUTION OIL, LLC	J	S16, T16S, R:29E	2310 FSL, 1650 FSL	OIL	Active	8/26/1955	1914'	12-1/4"	8-5/8"	387'	150	Surface	7-7/8"	5-1/2"	1864'	100	1218' (calc)	
16	MOAB STATE #001	1	30-015-02743	SUN OIL CO.	O	S16, T16S, R:29E	660 FSL, 1980 FEL	INJECT	P&A	10/4/1955	1906'	12-1/4"	8-5/8"	387'	150	Surface	7-7/8"	5-1/2"	1668'	100	1202' (calc)	
17	MOAB STATE #002	2	30-015-02743	SUN OIL CO.	J	S16, T16S, R:29E	660 FSL, 1980 FEL	INJECT	P&A	10/4/1955	1906'	12-1/4"	8-5/8"	387'	150	Surface	7-7/8"	5-1/2"	1668'	100	1202' (calc)	

Rover Petroleum, LLC High Lonesome Queen Unit "ar" - Sewer C-108 Application
 V. Tabulation of Data on All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

No.	Lease Name	Well No.	API No.	Overall Perf Interval	Comments
1	HIGH LONESOME QUEEN UNIT #006	6	30-015-02746	1883' - 1933' (OPEN HOLE)	
2	HIGH LONESOME QUEEN UNIT #005	5	30-015-02748	1879' - 1902'	PLA'd on 8/21/1985
3	SKELLY STATE #003	13	30-015-05904	1892' - 1915'	PLA'd on 8/21/1985
4	SKELLY STATE #007	7	30-015-02747	1889' - 1920' (OPEN HOLE)	PLA'd on 3/29/2001
5	DAVIS FEDERAL #002	2	30-015-02726	1900' - 1924'	
6	SKELLY STATE #003	23	30-015-05901	1890' - 1921'	PLA'd on 8/22/1985
7	DAVIS FEDERAL #022	22	30-015-05905	1904' - 1922'	PLA'd on 3/10/1986
8	DONAHUE-FEDERAL #002	2	30-015-02724	1897' - 1944' (OPEN HOLE)	PLA'd on 4/30/1986, Dry Hole
9	HIGH LONESOME QUEEN UNIT #007	7	30-015-02725	1902' - 1932'	
10	DONAHUE-FEDERAL #003	3	30-015-02725	1905' - 1959' (OPEN HOLE)	PLA'd on 2/7/1983
11	SKELLY STATE #004	14	30-015-05903	1877' - 1893'	PLA'd on 8/22/1985
12	SKELLY STATE #006	6	30-015-02746	1803' - 1893' (OPEN HOLE)	PLA'd on 1/25/2013
13	SKELLY STATE #004	24	30-015-05902	1873' - 1895'	PLA'd on 8/22/1985
14	SKELLY STATE #005	25	30-015-02750	1854' - 1872'	PLA'd on 8/23/1985
15	DOVE STATE #001	1	30-015-54157	2814' - 3074'	
16	MOAB STATE #001	1	30-015-02738	1864' - 1914' (OPEN HOLE)	PLA'd on 5/11/1972
17	MOAB STATE #002	2	30-015-02743	1848' - 1916' (OPEN HOLE)	PLA'd on 5/11/1972

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.:

ACECO PETROLEUM CO. - DAVIS FEDERAL #022 (P&A'd)

Location:

2630' FNL & 1310' FWL

ELEVATION, GL: 3,686'

UL: E, SEC: 15, T: 16-S, R: 29-E

FIELD: HIGH LONESOME; QUEEN

EDDY County, NM

Well Type: INJECTION

LEASE No.:

LC - 068677

Spudded: 6/21/1957

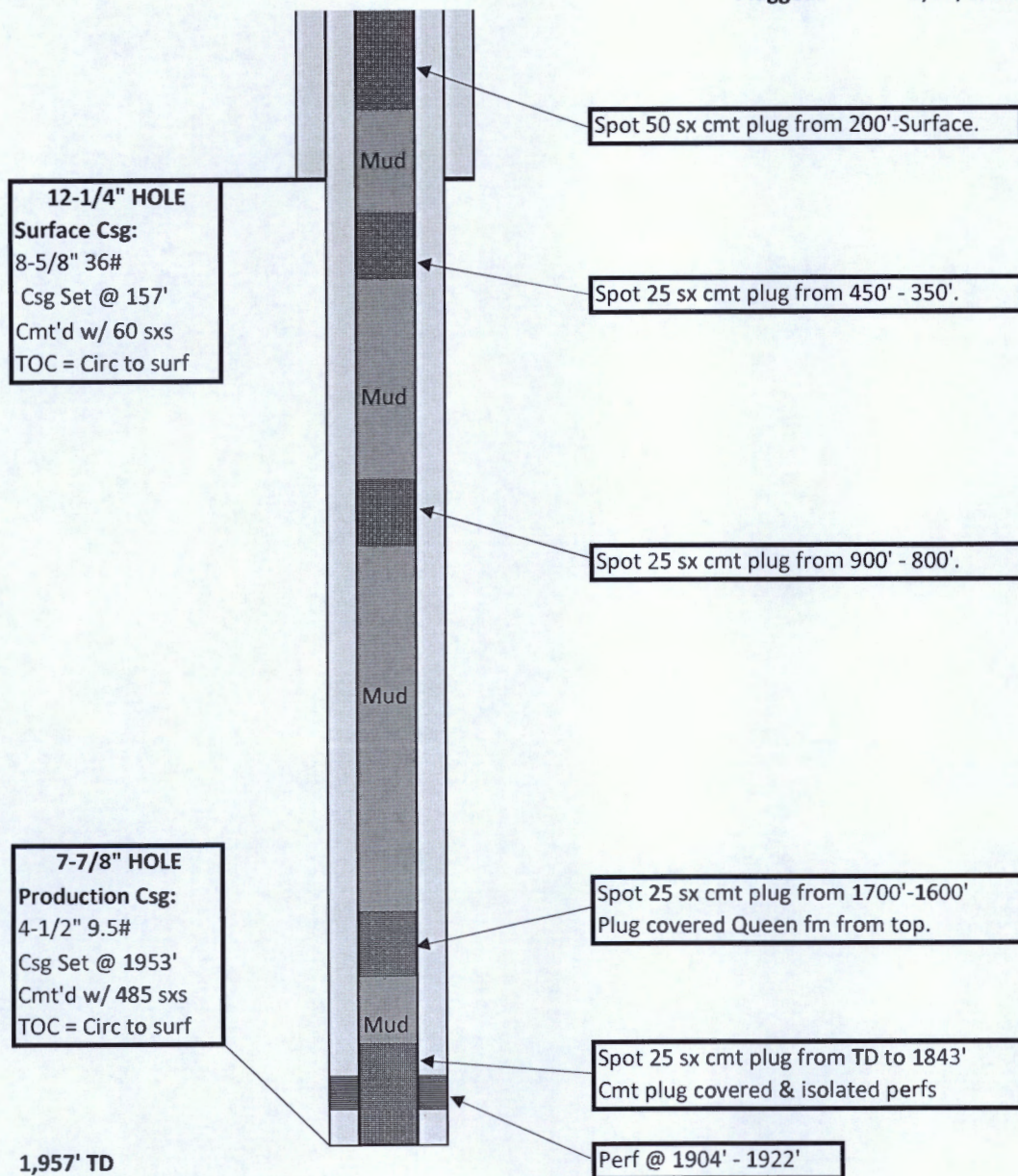
API No. :

30-015-05905

Drig Stopped: 6/29/1957

Completed: 7/23/1957

Plugged: 2/21/1986



Drilled by MOAB DRILLING CO. as the DAVIS FEDERAL #022 in 1957.

P&A'd by ACECO PETROLEUM CO. in Febuary, 1986.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: SUN OIL CO. - DONAHUE-FEDERAL #002 (P&A'd)

Location: 2310' FSL & 1650' FWL
UL: K, SEC: 15, T: 16-S, R:29-E
EDDY County, NM

LEASE No.: LC - 068628
API No. : 30-015-02724

ELEVATION, GL: 3,687'

FIELD: HIGH LONESOME; QUEEN

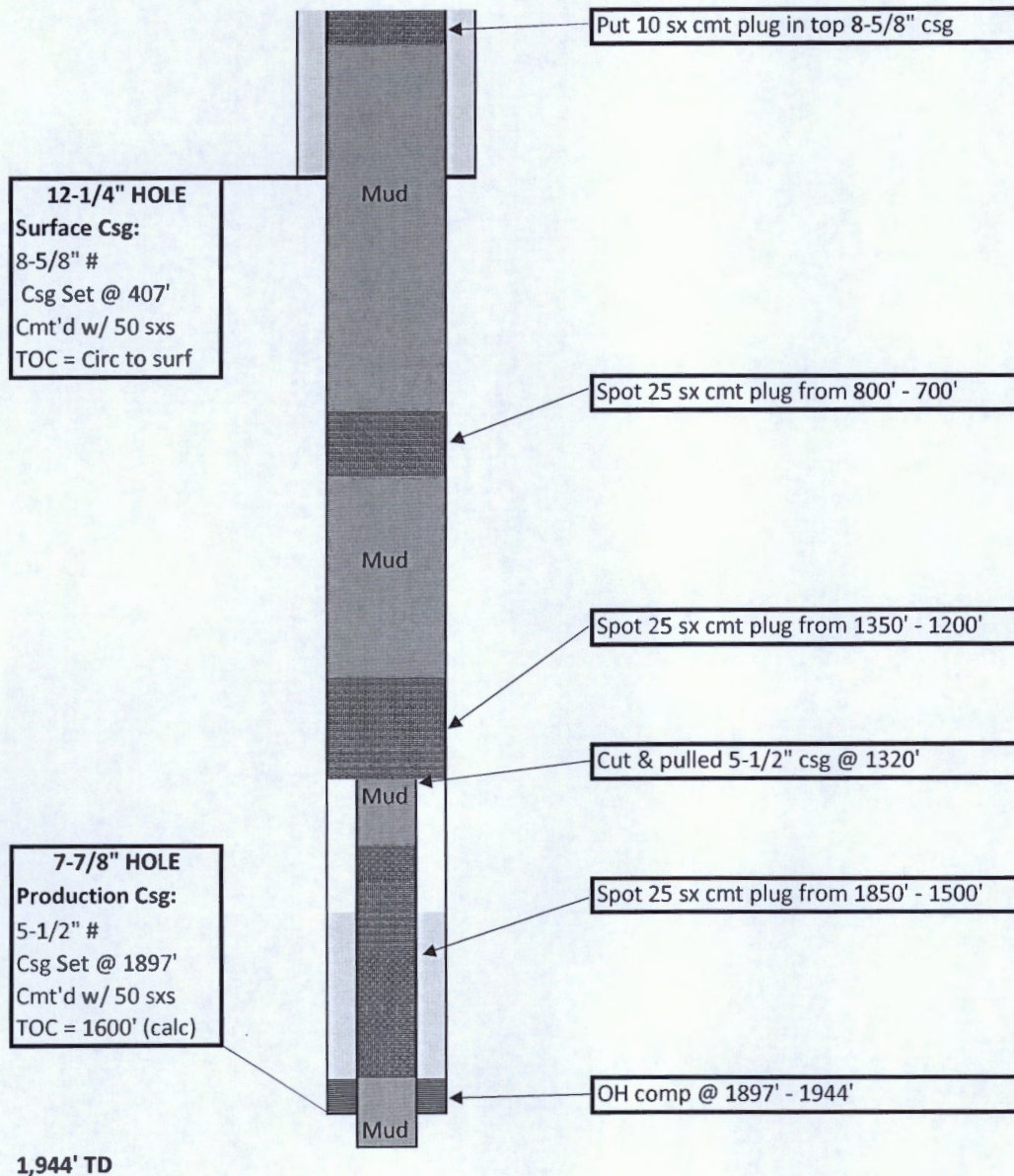
Well Type: OIL

Spudded: 12/18/1955

Drlg Stopped: 1/14/1956

Completed: 1/15/1956

Plugged: 4/30/1969



Drilled by EDWARD C. DONOHUE, ET AL as the DONOHUE #002 in 1956.

DRY HOLE

P&A'd by SUN OIL CO. in April, 1969.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: GENERAL WESTERN PETRO - DONAHUE-FEDERAL #003 (P&A'd)

Location: 990' FSL & 1650' FWL

ELEVATION, GL: 3,682'

UL: N, SEC: 15, T: 16-S, R: 29-E

FIELD: HIGH LONESOME; QUEEN

EDDY County, NM

Well Type: OIL

LEASE No.: LC - 06828

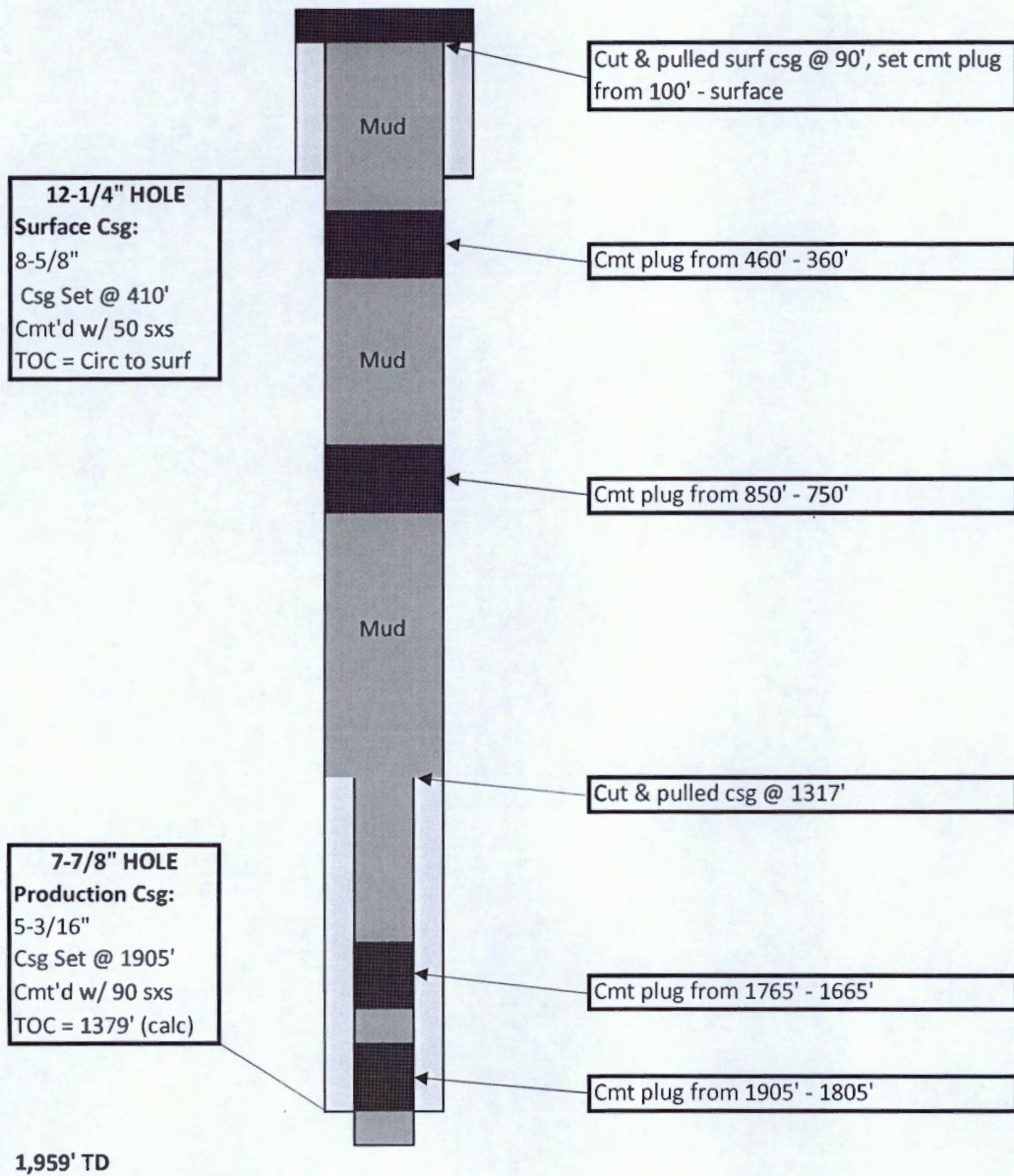
Spudded: 1/27/1956

API No. : 30-015-02725

Drig Stopped: 2/24/1956

Completed: 3/2/1956

Plugged: 2/7/1963



Drilled by EDWARD c. DONOHUE, ET AL as the DONOHUE #003 in 1956.

P&A'd by GENERAL WESTERN PETRO in Febuary, 1963.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: SUN OIL CO. - MOAB-STATE #001 (P&A'd)

Location: 1980' FSL & 1980' FeL
UL: J, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-8889

API No. : 30-015-02738

ELEVATION, GL: 3673'

FIELD: HIGHLONESOME; QUEEN

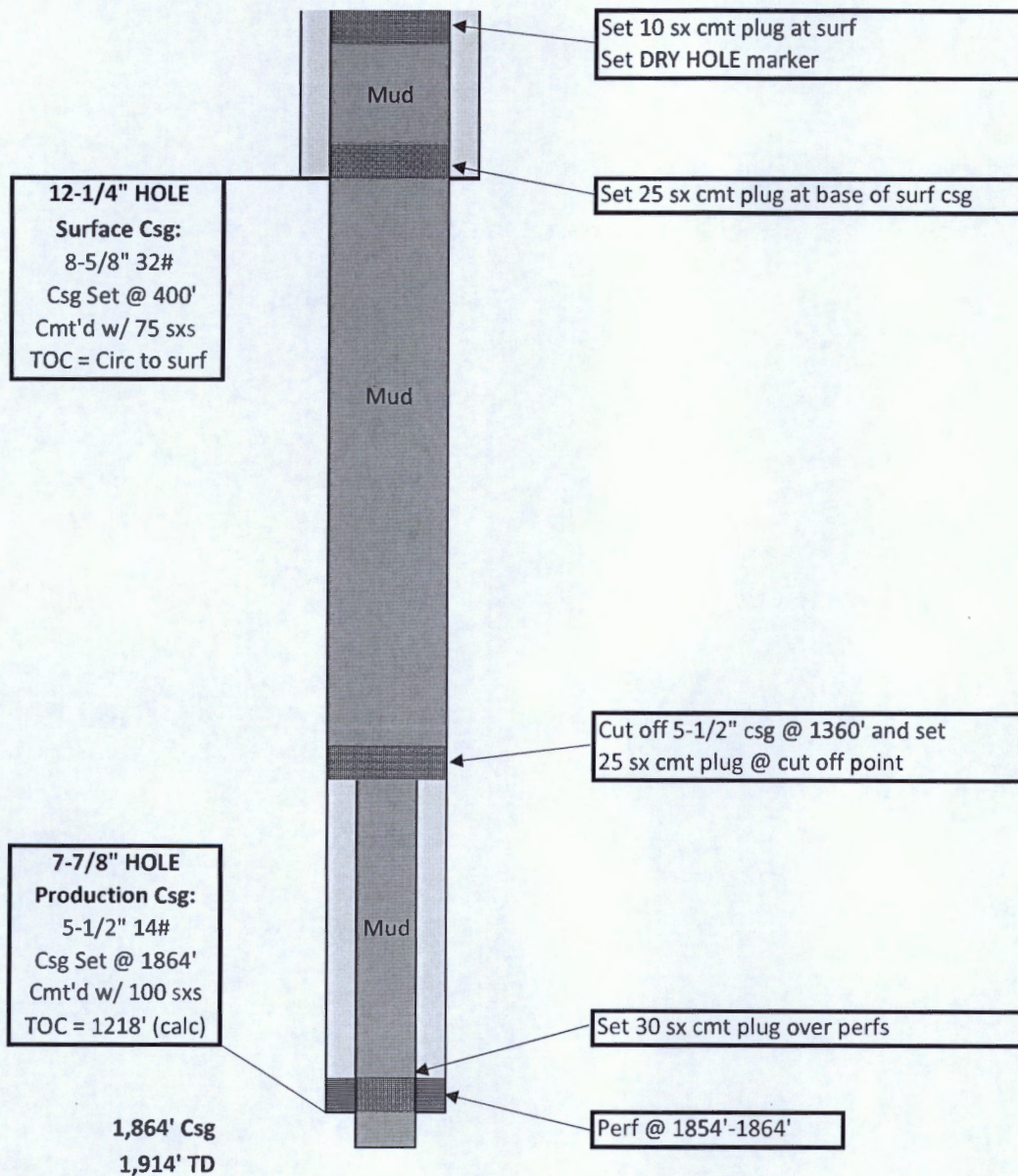
Well Type: OIL

Spudded: 8/26/1955

Drig Stopped: 9/5/1955

Completed: 9/12/1955

Plugged: 5/11/1972



Drilled by MOAB DRILLING CO. as the STATE #001 in 1955.

DRY HOLE

P&A'd by SUN OIL CO. in 5/11/1972.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **SUN OIL CO. - MOAB-STATE #002 (P&A'd)**

Location: 660' FSL & 1980' FWL
UL: O, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-8889
API No.: **30-015-02743**

ELEVATION, GL: 3,672'

FIELD: **HIGHLONESOME, QUEEN**

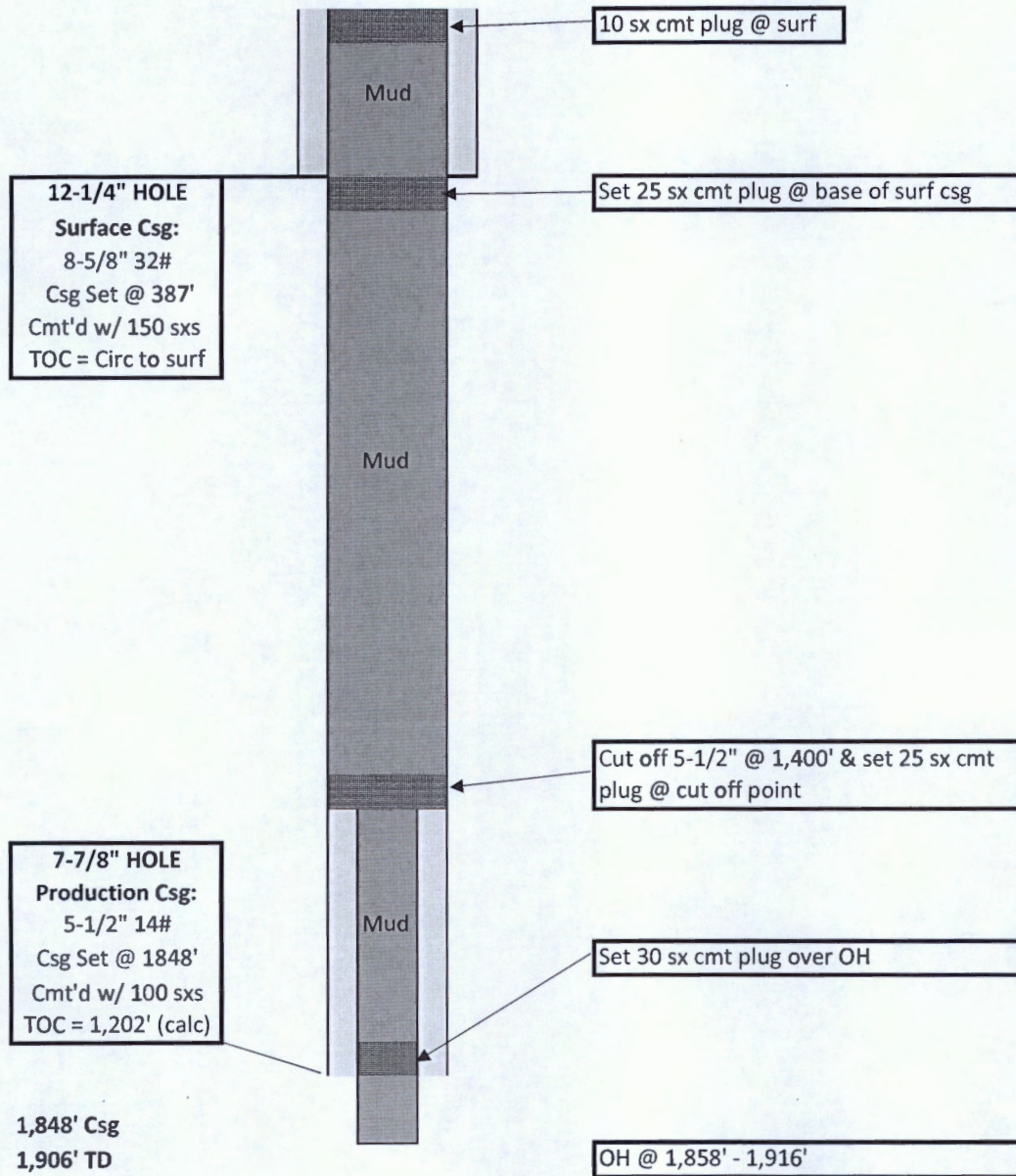
Well Type: OIL

Spudded: 10/4/1955

Drig Stopped: 10/14/1955

Completed: 11/23/1955

Plugged: 5/11/1972



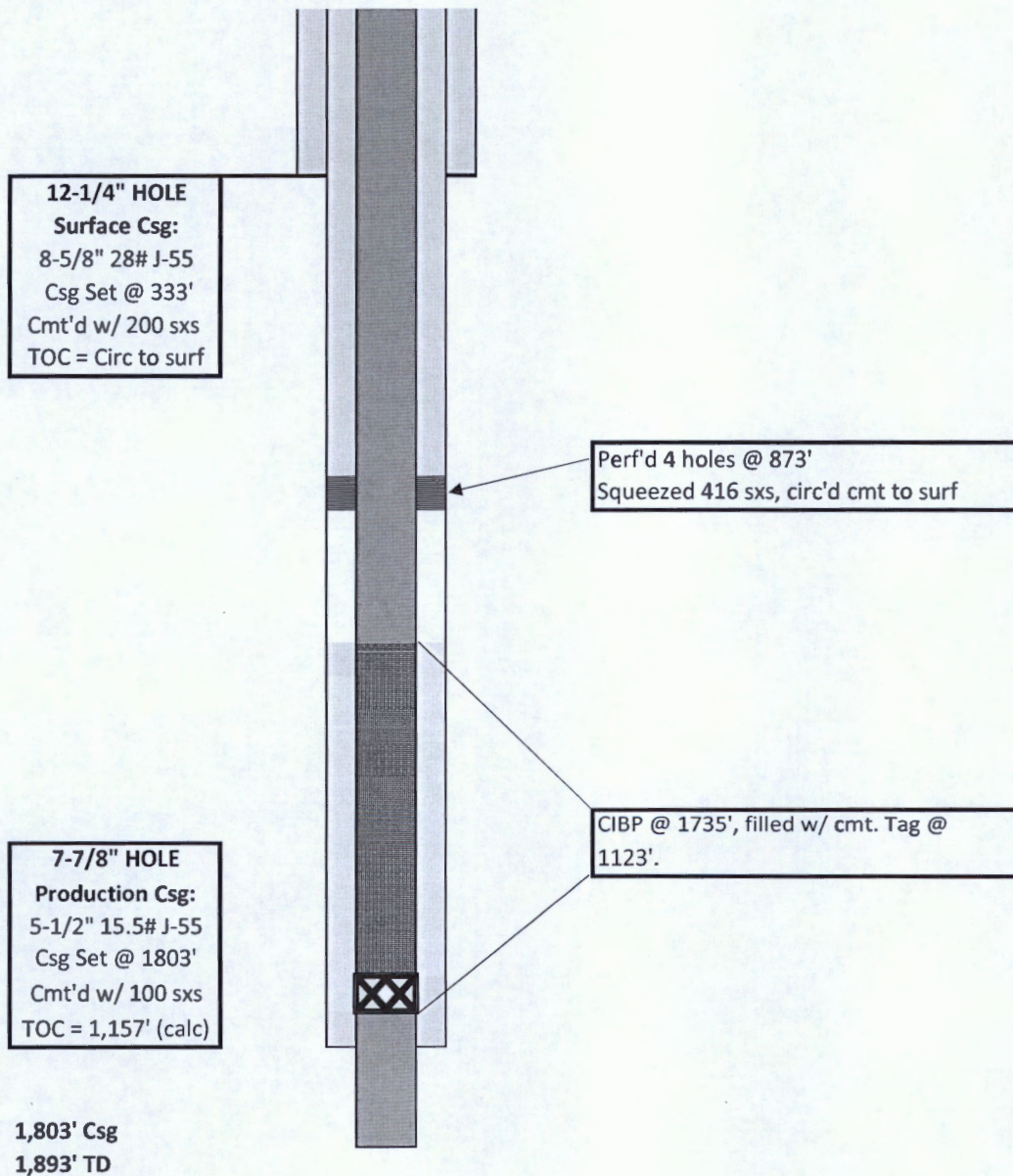
Drilled by MOAB DRILLING CO. as the STATE #002 in 1955.

DRY HOLE

P&A'd by SUN OIL CO. in May, 1972.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.:	ALAMO PERMIAN RESOURCES, LLC - SKELLY STATE #006 (P&A'd)	
Location:	1980' FNL & 1980' FEL	ELEVATION, GL: 3,582'
	UL: G, SEC: 16, T: 16-S, R: 29-E	FIELD: HIGH LONESOME; QUEEN
	EDDY County, NM	Well Type: OIL
LEASE No.:	E-134	Spudded: 7/26/1955
API No. :	<u>30-015-02746</u>	Drig Stopped: 8/1/1955
		Completed: 8/27/1955
		Plugged: 1/25/2013



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #006 in 1955.

P&A'd by ALAMO PERMIAN RESOURCES, LLC in January, 2013.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **MACK ENERGY CORP - SKELLY STATE #007 (P&A'd)**

Location: 1980' FNL & 660' FEL
UL: H, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: 30-015-02747

ELEVATION, GL: 3,691'

FIELD: HIGH LONESOME; QUEEN

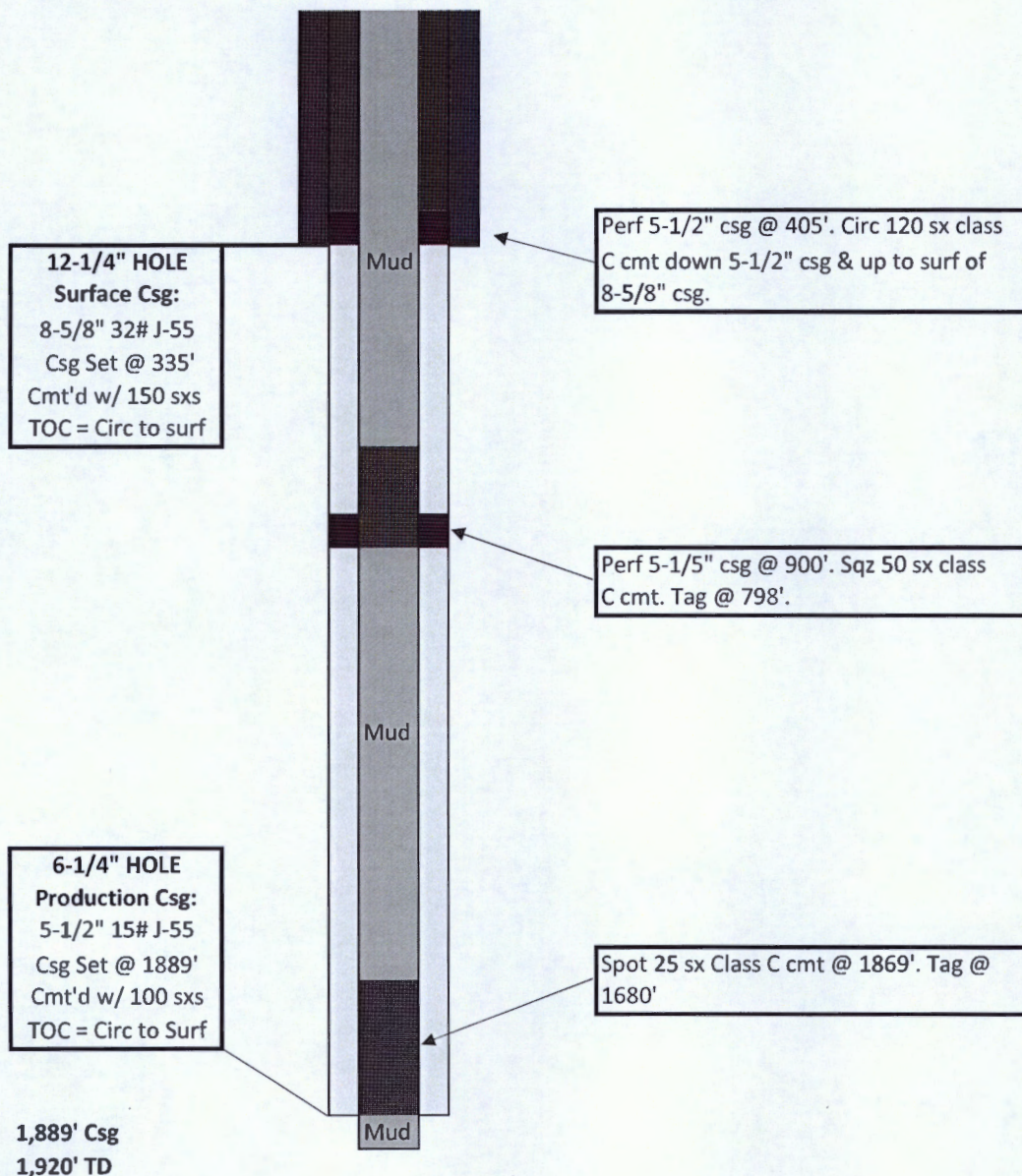
Well Type: OIL

Spudded: 8/3/1955

Drig Stopped: 8/24/1955

Completed: 9/5/1955

Plugged: 3/29/2001



Drilled by MOAB DRILLING CO. as the SKELLY STATE #007 in 1955.

DRY HOLE

P&A'd by MACK ENERGY CORP in March, 2001.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CORP - SKELLY STATE #014 (P&A'd)

Location: 1310' FNL & 1330' FEL
UL: B, SEC: 16, T: 16-S, R:-29E
EDDY County, NM

LEASE No.: E-134

API No. : 30-015-0590

ELEVATION, GL: 3679'

FIELD: HIGH LONESOME; QUEEN

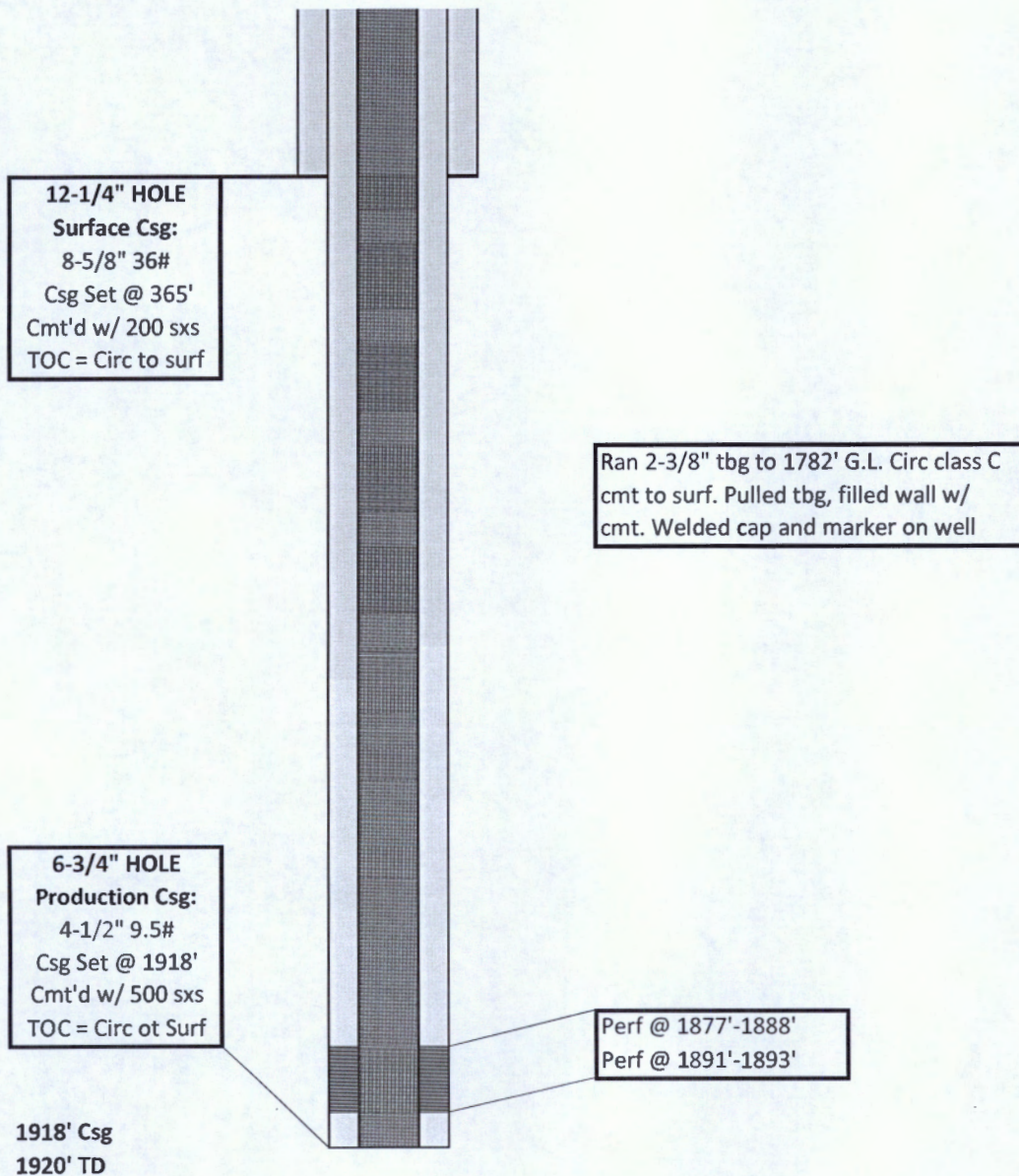
Well Type: Injection

Spudded: 4/1/1957

Drig Stopped: 4/15/1957

Completed: 4/15/1957

Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #014 in 1957.

P&A'd by NORWOOD OIL CORP in August, 1985.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CO. - SKELLY-STATE #013 (P&A'd)

Location: 1310' FNL & 10 FEL
UL: A, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No. : 30-015-05904

ELEVATION, GL: 3,693'

FIELD: HIGHLONESOME; QUEEN

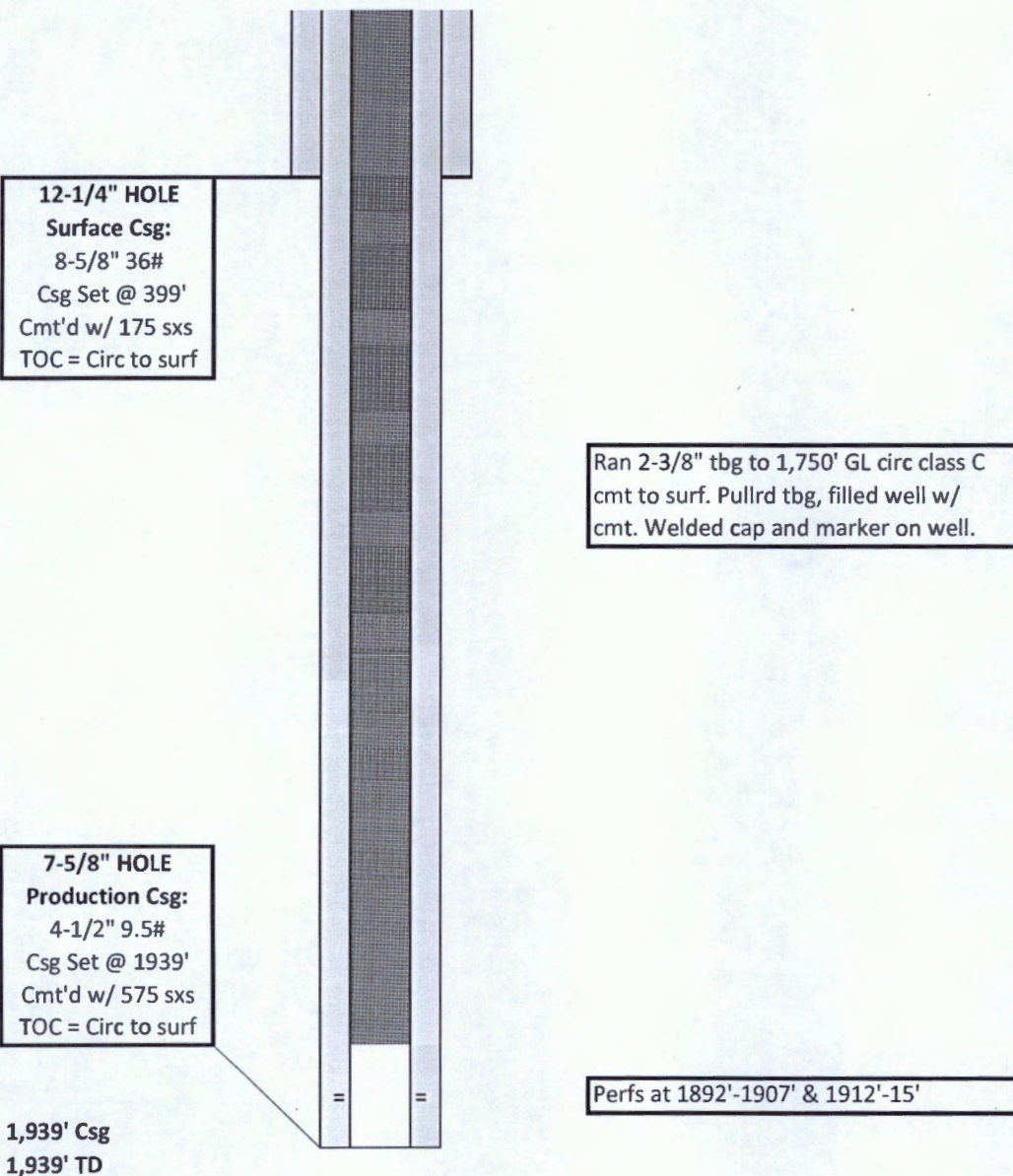
Well Type: INJECTION

Spudded: 4/17/1957

Drig Stopped: 5/12/1957

Completed: 5/12/1957

Plugged: 8/21/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #013 in 1957.

P&A'd by NORWOOD OIL CO. in August, 1985.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CO. - SKELLY-STATE #023 (P&A'd)

Location: 2630' FNL & 10' FEL
UL: H, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No. : 30-015-05901

ELEVATION, GL: 3,688'

FIELD: HIGH LONESOME; QUEEN

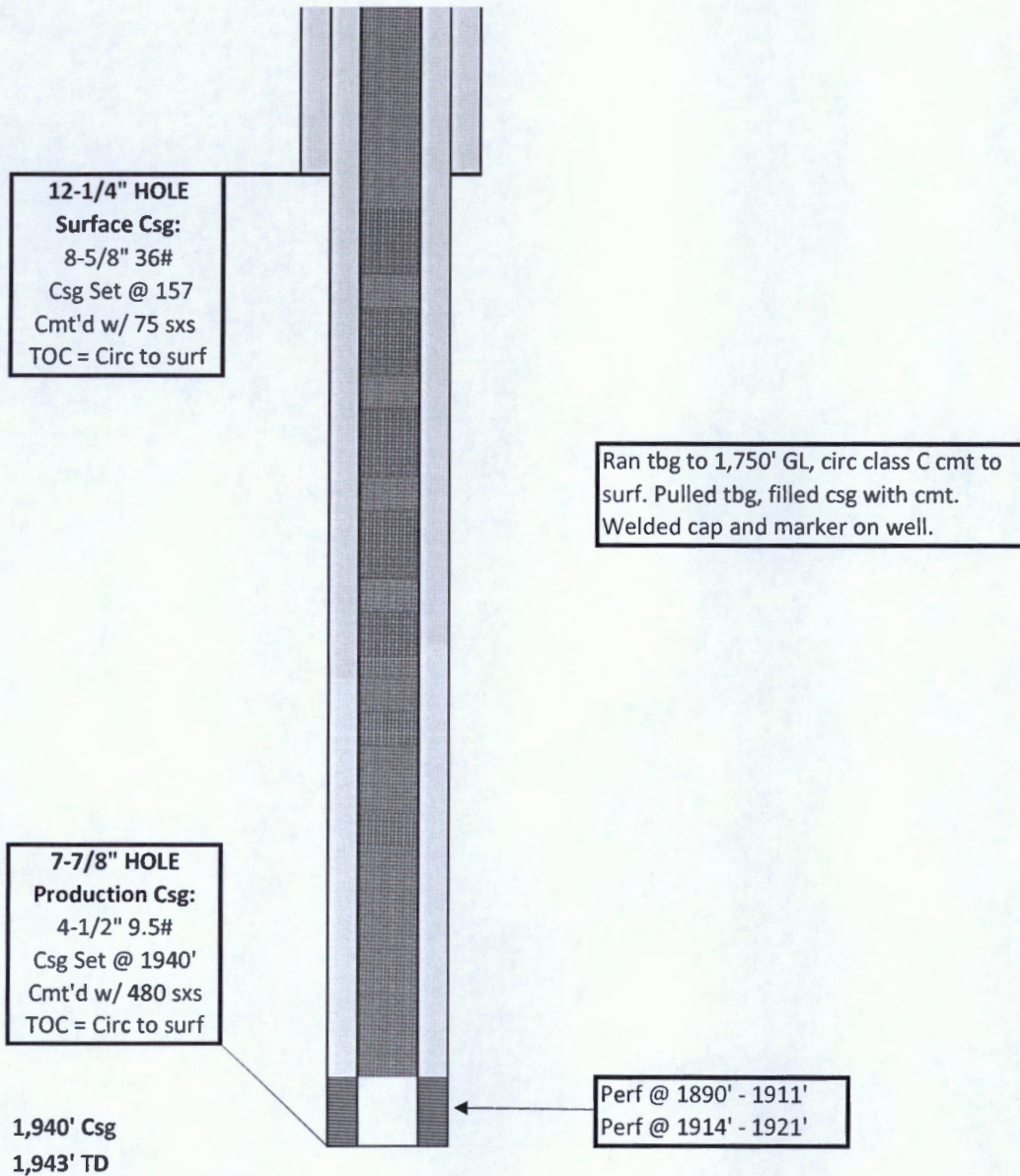
Well Type: INJECTION

Spudded: 5/31/1957

Drig Stopped: 6/7/1957

Completed: 6/7/1957

Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY-STATE #023 in 1957.

P&A'd by NORWOOD OIL CO. in August, 1985.

ROVER PETROLEUM, LLC
PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: NORWOOD OIL CORP - SKELLY-STATE #024 (P&A'd)

Location: 2630' FNL & 1330' FEL
UL: G, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No. : 30-015-05902

ELEVATION, GR: 3,678'

FIELD: HIGHLONESOME; QUEEN

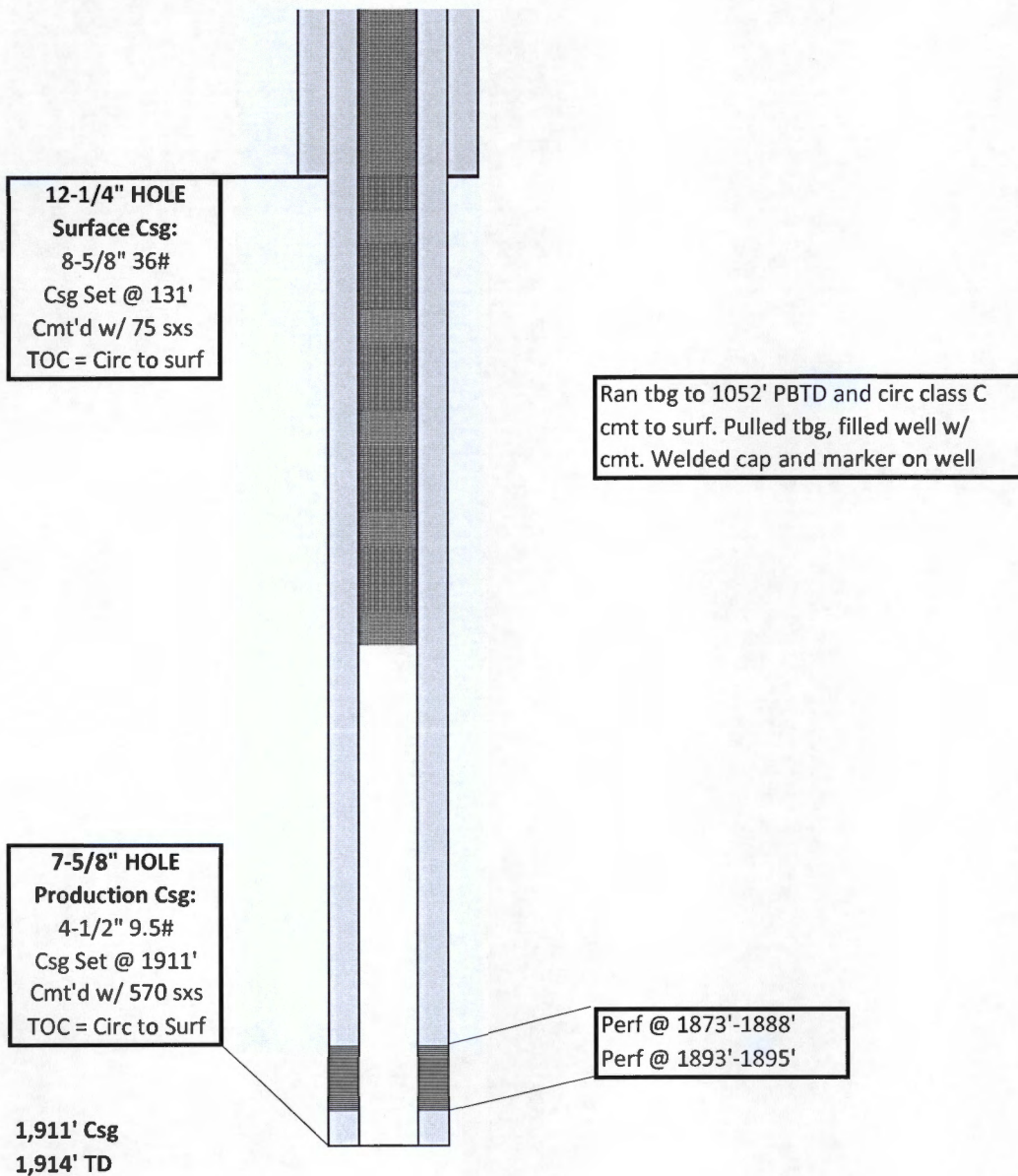
Well Type: INJECTION

Spudded: 5/23/1957

Drig Stopped: 5/30/1957

Completed: 5/30/1957

Plugged: 8/22/1985



Drilled by MOAB DRILLING CO. as the SKELLY - STATE #024 in 1957.

P&A'd by NORWOOD OIL CORP in August, 1985.

ROVER PETROLEUM, LLC

PLUGGED & ABANDONED WELLBORE DIAGRAM

Lease & Well No.: **NORWOOD OIL CORP - SKELLY-STATE #025 (P&A'd)**

Location: 2630' FNL & 2630' FWL
UL: F, SEC: 16, T: 16-S, R: 29-E
EDDY County, NM

LEASE No.: E-134

API No.: **30-015-02750**

ELEVATION, KB: 3,682'

FIELD: **HIGHLONESOME; QUEEN**

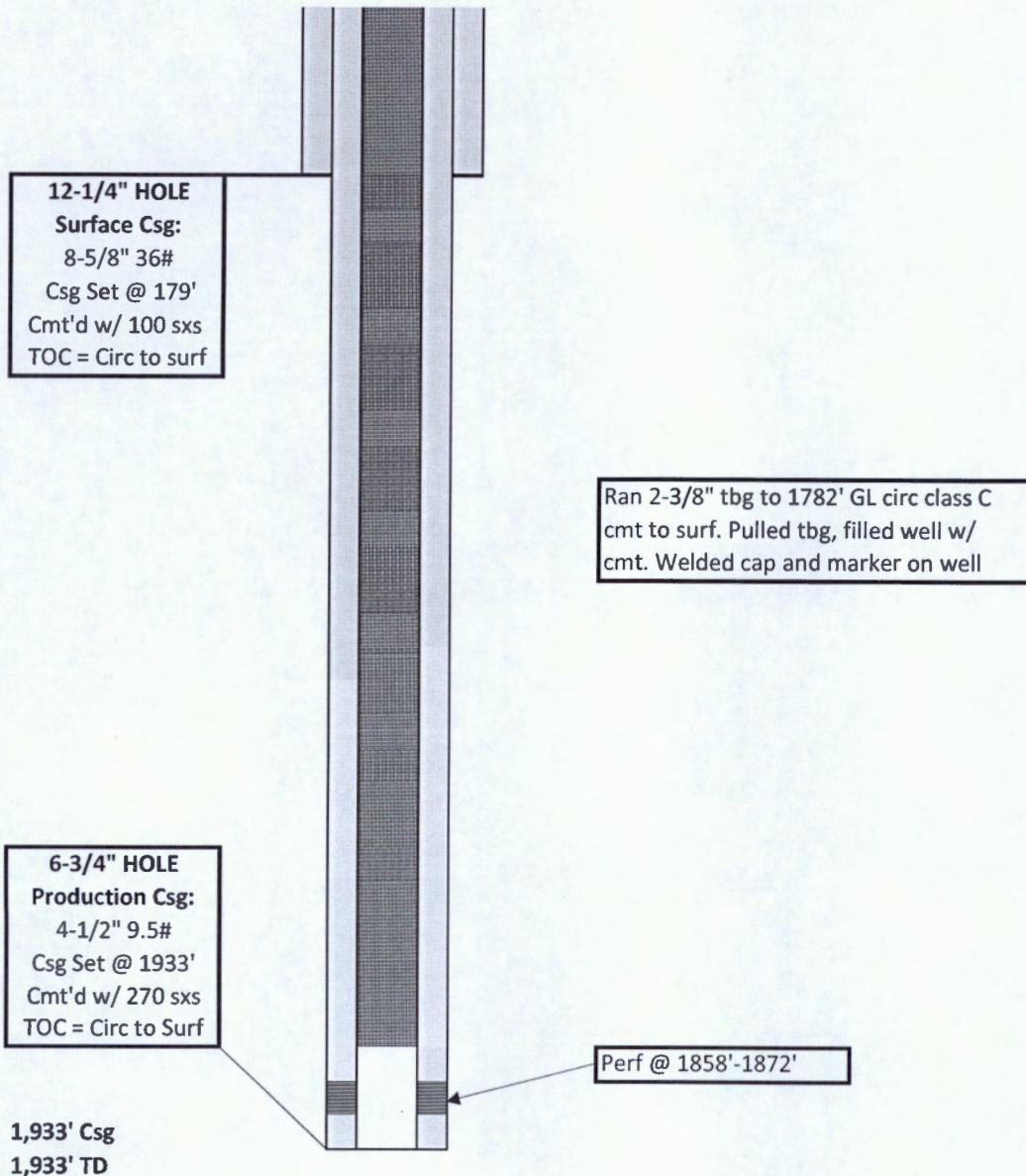
Well Type: INJECTION

Spudded: 2/21/1959

Drig Stopped: 3/4/1959

Completed: 3/24/1959

Plugged: 8/23/1985



Drilled by MOAB DRILLING CORP as the SKELLY-STATE #025 in 1959.

P&A'd by NORWOOD OIL CORP in August, 1985.

VII). Attach data on the proposed operation, including:

1) Proposed average and maximum daily rate and volume of fluids to be injected

Rover Petroleum proposes average and maximum daily rates and volumes of water injection into the High Lonesome Queen #6 water injection well of:

- Average: 250 BWPD ("barrels of water per day per well")
- Maximum: 300 BWPD

2) Whether the system is open or closed

The High Lonesome Queen unit waterflood station is a closed system in which make-up water and produced water from the High Lonesome Queen Unit wells are commingled, treated, and injected.

3) Proposed average and maximum injection pressure

Rover Petroleum, LLC, proposes average and maximum injection pressures for the High Lonesome Queen Unit water injection well of:

- Average: 900 psig
- Maximum: 1100 psig

4) Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water

Rover Petroleum, LLC has entered into a Water Transfer Agreement in which Rover is provided make-up water which currently being produced from the San Andres formation by Mack Energy Corporation. See the attached compatibility test and water analyses of the two waters.

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.)

The High Lonesome Queen Unit #6 water injection well covered by this application is to be used for Secondary Recovery and not for disposal purposes. This requirement does not apply to this application.

NMOCD Form C-108 – Sec. VIII: Geologic Summary

High Lonesome Queen Unit #6

Sec. 16, Twp 16-S, Rge 29-E, Eddy County, NM

1980 FSL, 660 FEL

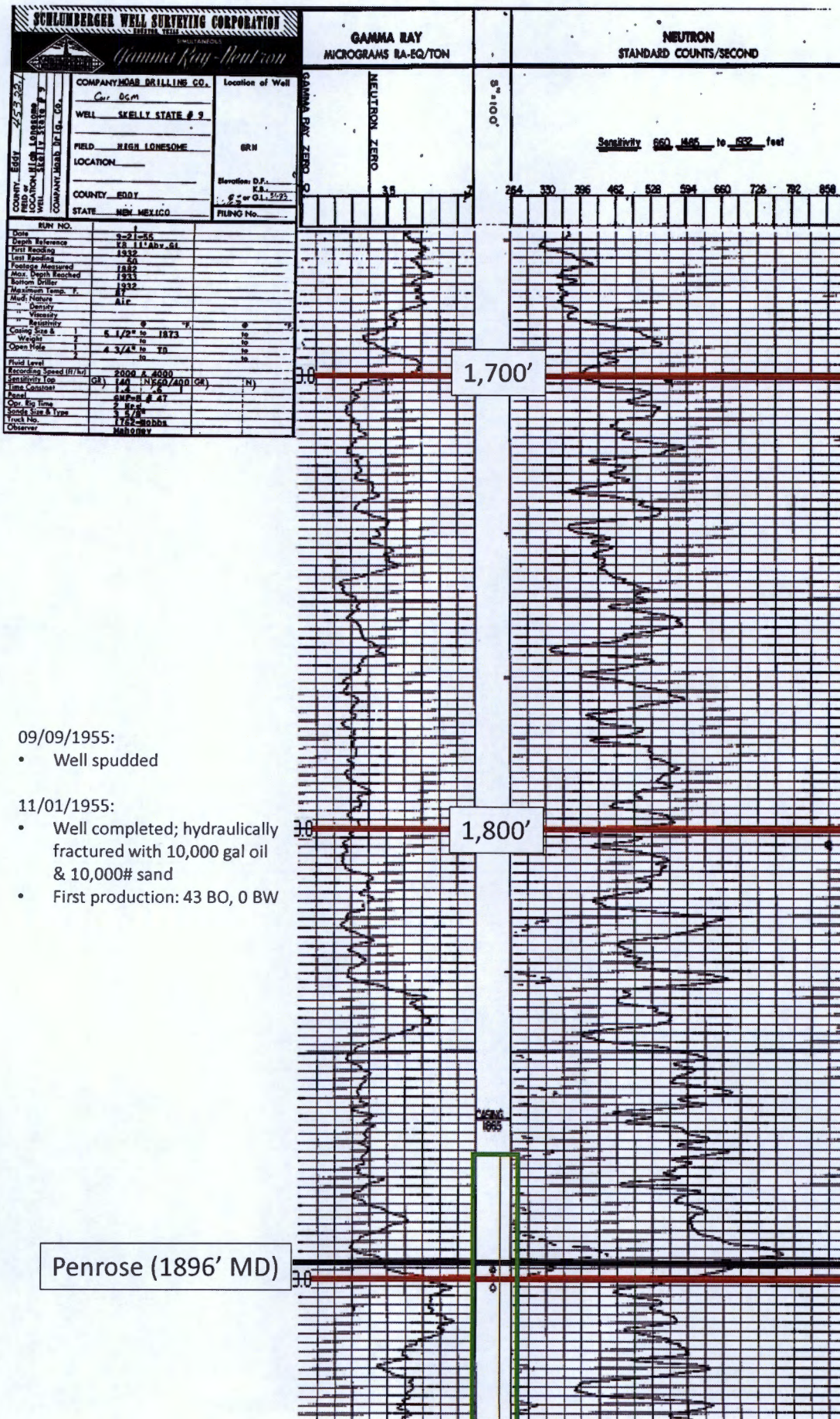
The High Lonesome Queen Unit produces hydrocarbons from the Penrose sandstone of the Permian-age (Guadalupian) Queen Formation. The arkosic Penrose sandstone is about 30 feet-thick and is situated about 250' above the base of the Queen Formation.

The High Lonesome Queen Unit is part of a continuous east-west trend of Penrose production that is at least 8 miles long. The productive trend is about 1 mile wide and is a large stratigraphic trap. Clean and porous hydrocarbon-producing sandstone is bounded to the north by an anhydrite-plugged and salt-plugged sandstone facies with poor permeability. South of the reservoir sandstone the rock quality degrades into shaly sandstone with poor permeability. The entire depositional system is interpreted to represent a high-energy beach or barrier bar (the reservoir), flanked by a periodically-exposed evaporitic tidal flat depositionally up-dip and poorly winnowed shaly sand accumulating in a low energy shallow marine environment depositionally down-dip.

In the area of the High Lonesome Queen Unit the top of the Penrose sandstone is at an average drill depth of 1,850 feet (+1,830'). The interval has a gross thickness of about 30 feet. In the Penrose interval, usually about 10-15 feet of the gross 30 feet of interval develops the threshold porosity of 8% required for economic reservoir permeability. The reservoir sandstone is fine grained and reaches an average porosity of about 11%. Structure mapping indicates that the reservoir dips gently from northwest to southeast across the unit, losing about 135 feet of subsea elevation. The Penrose reservoir sandstone is directly both underlain and overlain by layers of low porosity anhydritic dolostone. These low permeability upper and lower bounding layers, combined with the northern evaporate-plugged reservoir boundary, should serve to strongly contain secondary reservoir energy introduced by means of water-injection.

IX). Describe the proposed stimulation program, if any.

The High Lonesome Queen Unit #6 water injection well will be acidized in the open-hole portion of the wellbore (1863' – 1933') with 5250 gal 15% NEFE HCl (75 gal/ft). If sufficient volumes of water are unable to be injected at the approved surface injection pressure, a step-rate test will be performed to determine if the surface injection pressure can be increased without damaging the formation or if a gelled water fracture stimulation will be needed to increase injectivity. If it is determined that a fracture treatment is needed, the fracture stimulation will be a gelled-water frac job with approximately 30,000-40,000# of 20/40 frac sand.



09/09/1955:

- Well spudded

11/01/1955:

- Well completed; hydraulically fractured with 10,000 gal oil & 10,000# sand
- First production: 43 BO, 0 BW

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.

Rover Petroleum, LLC, has investigated the area within a one-mile radius of the proposed High Lonesome Queen Unit #6 water injection well and has determined there to be no fresh water wells currently producing within the area.