**STATE OF NEW MEXICO**
**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**
**OIL CONSERVATION DIVISION**

**APPLICATION OF SPUR ENERGY PARTNERS LLC FOR APPROVAL OF A PRESSURE MAINTENANCE PROJECT, EDDY COUNTY, NEW MEXICO.**

**CASE NO._____**

**APPLICATION**

Spur Energy Partners LLC ("Spur"), through its undersigned attorneys, hereby files this application with the Oil Conservation Division for an order approving a pressure maintenance project in the Yeso formation underlying a project area comprised of all of Section 36, Township 18 South, Range 25 East, and the W/2 W/2 of Section 31, Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico. In support of its application, Spur states:

1. Spur Energy Partners LLC (OGRID No. 328947) is the operator of the following horizontal wells drilled and completed in the Penasco Draw; San Andres, Yeso Pool (Pool Code 50270):

- Pinto 36 State Com 1H (API No. 30-015-39781);
- Pinto 36 State Com 2H (API No. 30-015-39969);
- Pinto 36 State Com 4H (API No. 30-015-40058);
- Pinto 36 State Com 5H (API No. 30-015-39970);
- Pinto 36 State Com 6H (API No. 30-015-39971);
- Pinto 36 State Com 7H (API No. 30-015-39973);
- Pinto 36 State Com 8H (API No. 30-015-41667);
- Pinto 36 State 9H (API No. 30-015-42877);
- Pinto 36 State Com 27H (API No. 30-015-43399);

- Pinto 36 State 60H (API No. 30-015-49171);
- Pinto 36 State 70H (API No. 30-015-49172);
- Pinto 36 State 90H (API No. 30-015-49173); and
- Falabella 31 Fee 1H (API No. 30-015-40814).

2. Spur seeks approval to inject produced gas into the **Pinto 36 State Com #003H well** (API No. 30-015-39782) at a total vertical depth of approximately 2,311 feet to approximately 2,673 feet along the horizontal portion of this wellbore. Spur anticipates injection through this well will provide pressure maintenance support for its offsetting wells identified in paragraph 1, above.

3. Spur seeks authority to inject produced gas into the Penasco Draw; San Andres, Yeso Pool at a maximum surface injection pressure of 670 psi with an average surface injection pressure of approximately 470 psi. Spur proposes to inject produced gas at a maximum rate of 10 MMCF per day with an average daily injection rate of approximately 5 MMCF per day.

4. The source of produced gas will be the Penasco Draw; San Andres, Yeso Pool.

5. The project area for this pressure maintenance injection project will comprise all of Section 36, Township 18 South, Range 25 East, and the W/2 W/2 of Section 31, Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico.

6. A copy of the Form C-108 for this injection project is provided with this application as **Attachment A**.

7. A copy of this Application has been provided to all affected parties as required by Division Rules and notice of the hearing on this application will be provided in a newspaper of general circulation in Eddy County.

8. Approval of this pressure maintenance project will result in the production of substantially more hydrocarbons from the project area than would otherwise be produced, will prevent waste, and will not impair correlative rights.

WHEREFORE, Spur Energy Partners LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023, and, after notice and hearing as required by law, the Division approve this application.

Respectfully submitted,

**HOLLAND & HART LLP**

By: _____

Michael H. Feldewert
Adam G. Rankin
Julia Broggi
Paula M. Vance
Post Office Box 2208
Santa Fe, New Mexico 87504-2208
(505) 988-4421
(505) 983-6043 Facsimile
mfeldewert@hollandhart.com
agrankin@hollandhart.com
jbroggi@hollandhart.com
pmvance@hollandhart.com

**ATTORNEYS FOR SPUR ENERGY PARTNERS LLC**

**Case No.:_____** **Application of Spur Energy Partners LLC for Approval of a Pressure Maintenance Project, Eddy County, New Mexico.** Applicant in the above-styled cause seeks an order approving a pressure maintenance project in the Yeso formation underlying a project area comprised of all of Section 36, Township 18 South, Range 25 East, and the W/2 W/2 of Section 31, Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico. Produced gas will be injected into the Penasco Draw; San Andres, Yeso Pool (Pool Code 50270) through the **Pinto 36 State Com #003H well** (API No. 30-015-39782) at a total vertical depth of approximately 2,311 feet to approximately 2,673 feet along the horizontal portion of this wellbore. Spur seeks approval to inject at a maximum surface injection pressure of 670 psi with an average surface injection pressure of approximately 470 psi. Spur proposes to inject produced gas at a maximum rate of 10 MMCF per day with an average daily injection rate of approximately 5 MMCF per day. The source of the produced gas will be the Penasco Draw; San Andres, Yeso Pool. The proposed project is located approximately 10 miles south of Artesia, New Mexico.

Revised March 23, 2017

| RECEIVED: | REVIEWER: | TYPE: | APP NO: |
|---|---|---|---|

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:** _____ **OGRID Number:** _____
**Well Name:** _____ **API:** _____
**Pool:** _____ **Pool Code:** _____

**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

**FOR OCD ONLY**
☐ Notice Complete
☐ 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.**

_____ Date

_____ Print or Type Name

_____ Phone Number

_____ Signature

_____ e-mail Address

ATTACHMENT **A**

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

## APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery ____X____Pressure Maintenance _____Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: Spur Energy Partners LLC

ADDRESS: 9655 Katy Freeway, Suite 500, Houston, TX 77024

CONTACT PARTY: Sarah Chapman PHONE: 832-930-8502

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 ____X____No
If yes, give the Division order number authorizing the project: _____

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).

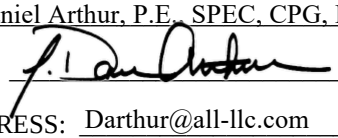
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: J. Daniel Arthur, P.E., SPEC, CPG, FGS TITLE: President & Chief Engineer

SIGNATURE:  DATE: 06/06/023

E-MAIL ADDRESS: Darthur@all-llc.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: _____

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

Side 2

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.

Application for Authorization to Inject
Well Name: Pinto 36 State Com #3H

## III – Well Data (*The Wellbore Diagram is included as **Attachment 1***)

**A.**

**(1) General Well Information:**

Operator: Spur Energy Partners LLC (OGRID No. 328947)
Lease Name & Well Number: Pinto 36 State Com #3H
Location Footage Calls: 150 FNL & 2260 FEL
Legal Location: Unit Letter B, S36 T18S R25E
Ground Elevation: 3,465'
Proposed Injection Interval: 2,506' – 6,817' MD (2,311' – 2,673' TVD)
County: Eddy

**(2) Casing Information:**

| Type | Hole Size | Casing Size | Casing Weight | Setting Depth (MD) | Sacks of Cement | Estimated TOC | Method Determined |
|---|---|---|---|---|---|---|---|
| Surface | 12-1/4" | 9-5/8" | 36.0 lb/ft | 1,227' | 1530 | Surface | Circulation |
| Production Casing | 8-3/4" | 7" – 5-1/2" | 17. - 26.0 lb/ft | 6,817' | 1070 | Surface | Circulation |
| Tubing | N/A | 2-7/8" | 6.5 lb/ft | 2,370' | N/A | N/A | N/A |

**Note:** Crossover from 7" to 5-1/2" intermediate casing occurs at 1,624'.

**(3) Tubing Information:**

2-7/8" (6.5lbs/ft) J-55 IPC tubing with setting depth of 2,370' MD

**(4) Packer Information:** D&L Oil Tools ASI-X Packer or equivalent packer set at 2,406' MD

**B.**

**(1) Injection Formation Name:** Paddock member of the Yeso Formation
**Pool Name:** Penasco Draw; Sa-Yeso (ASSOC)
**Pool Code:** 50270
**(2) Injection Interval:** Perforated injection between 2,311' – 2,673'VD (2,506' – 6,817' MD)
**(3) Drilling Purpose:** Recompletion for pressure Maintenance
**(4) Other Perforated Intervals:** No other perforated intervals exist.
**(5) Overlying Oil and Gas Zones:** Below are the approximate formation tops for known oil and gas producing zones in the area.

- San Andres (692')

**Underlying Oil and Gas Zones:** Below are the approximate formation tops for known oil and gas producing zones in the area.

- Wolfcamp (5,700'); Cisco (7,652'); Morrow (9,008')

## V – Well and Lease Maps

A ½-mile well details table with casing and plugging information for each of the plugged penetrating wells, as well as the following maps are included in ***Attachment 2***:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership map
- Potash Lease Map

## VI – AOR Well List

There are 30 wells within the 1/2-mile AOR, including nine (9) plugged wells that penetrate the proposed injection zone.

A list of the wells within the 1/2-mile AOR, and wellbore diagrams for each of the nine (9) plugged wells that penetrate the injection interval are included in ***Attachment 2***.

## VII – Proposed Operation

**(1) Proposed Maximum Injection Rate:** 10 MMCF/day
**Proposed Average Injection Rate:** 5 MMCF/day
**(2)** A **closed system** will be used.
**(3) Proposed Maximum Injection Pressure**: 670 psi (surface)
**Proposed Average Injection Pressure**: approximately 470 psi (surface)
**(4) Source Injectate Analysis:** It is expected that the injectate will consist of gas produced from the Paddock member of the Yeso Formation and re-injected into the same formation for the purposes of pressure maintenance ***Attachment 3***.

## VIII – Geologic Description

The proposed injection interval includes the Paddock member of the Yeso Formation from 2,311 – 2,673 feet. This formation consists of dolomites and anhydritic dolomites, and some siltstones within the Yeso Formation. These formations are capable of taking gas produced from the subject formation(s) in the area.

The freshwater aquifers are the Artesian & Valley fill with the base of the USDW being located within the Grayburg Formation at approximately 690 feet. Water well depths in the area range from approximately 4.5 - 165 feet below ground surface.

## IX – Proposed & Previous Stimulation Program

Spur does not plan to restimulate the Pinto 36 State Com #3H, however this well was previously stimulated in the following manner:

- Perforated from 2,506’ – 6,817’.
- Acidized toe with 5,000 Gal 15% Acid.
- Fracked with 157,975 gallons of water, 1,272,349 gallons of X-linked Gel carrying 1,740,701 lbs of 20/40 brown, 362,700 lbs 30/50, and 42,600# mesh sand.
- Circulated clean to TD with 2” coil TBG.

## X – Logging and Test Data

Logs will be submitted to the Division upon completion of the well.

## XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, 25 groundwater wells are located within 1 mile of the proposed SWD location. Two of the water wells located within one mile were previously sampled and analyzed.

A water well map, details of water wells within 1-mile, and any associated water analyses are included in ***Attachment 4***.

## XII – No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

## XIII – Proof of Notice

A Public Notice was filed with the Carlsbad Argus newspaper and an affidavit is included in ***Attachment 5***.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in ***Attachment 5***.

# Attachments

**Attachment 1**: Well Details:

- C-102
- Current Wellbore Diagram
- Current Completion Report
- Proposed Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Injectate Analyses

**Attachment 4:** Water Well Map, Well Data, and Water Analysis

**Attachment 5:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 1**

- C-102
- Current Wellbore Diagram
- Current Completion Report
- Proposed Wellbore Diagram

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone. (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone. (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED
AUG 30 2012
NMOCD ARTESIA

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

As Drilled

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-39782 | 50270 | Penasco Draw;San Andres,Yeso |

| Property Code | Property Name | Well Number |
|---|---|---|
| 38979 | PINTO 36 STATE COM | 3H |

| OGRID No. | Operator Name | Elevation |
|---|---|---|
| 229137 | COG OPERATING, LLC | 3465' |

Surface Location

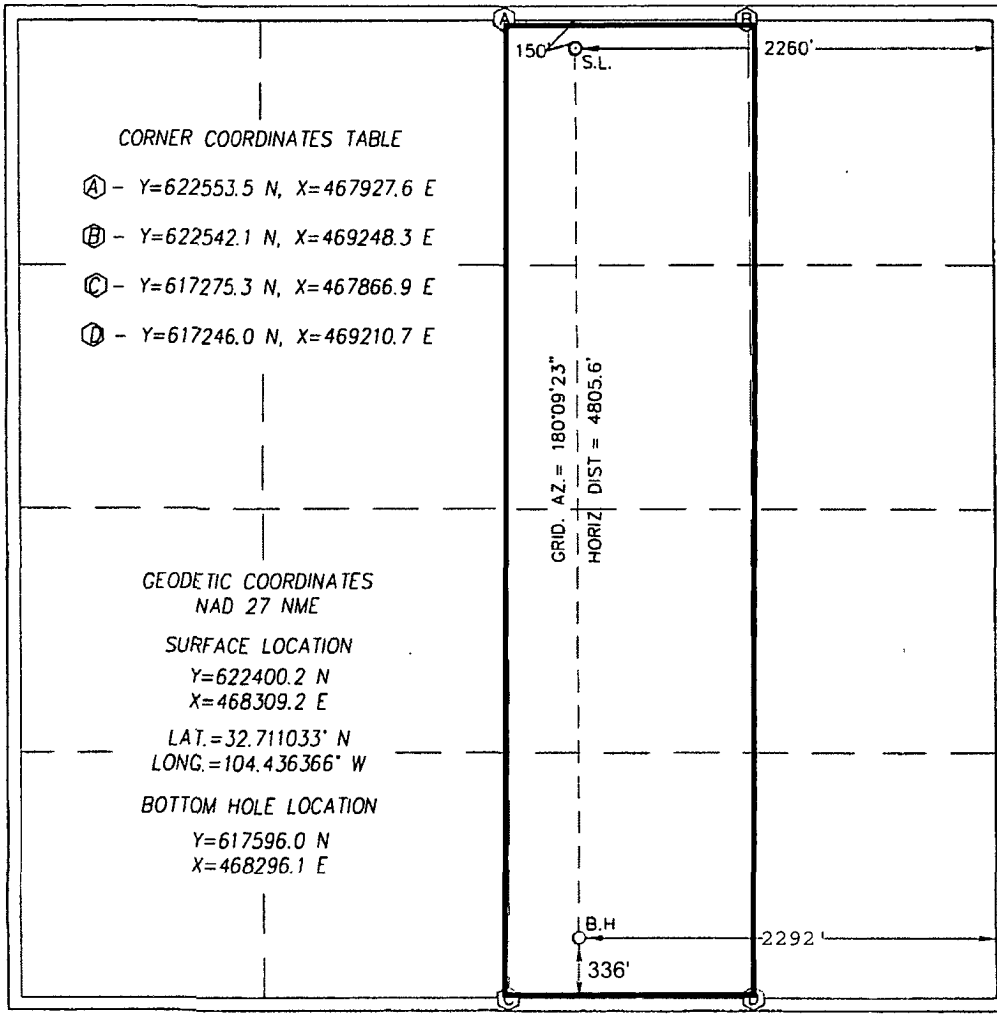
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| B | 36 | 18-S | 25-E | | 150 | NORTH | 2260 | EAST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| O | 36 | 18-S | 25-E | | 336 | SOUTH | 2292 | EAST | EDDY |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|---|---|---|---|
| 160 | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION




CORNER COORDINATES TABLE

(A) - Y=622553.5 N, X=467927.6 E

(B) - Y=622542.1 N, X=469248.3 E

(C) - Y=617275.3 N, X=467866.9 E

(D) - Y=617246.0 N, X=469210.7 E

GEODETIC COORDINATES
NAD 27 NME

SURFACE LOCATION
Y=622400.2 N
X=468309.2 E
LAT.=32.711033° N
LONG.=104.436366° W

BOTTOM HOLE LOCATION
Y=617596.0 N
X=468296.1 E

## OPERATOR CERTIFICATION

*I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

Signature 8/27/12 Date

Brian Maiorino
Printed Name

bmaiorino@concho.com
E-mail Address

## SURVEYOR CERTIFICATION

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.*

OCTOBER 31, 2011
Date of Survey

Signature & Seal of Professional Surveyor

GARY G. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR
11/16/11

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

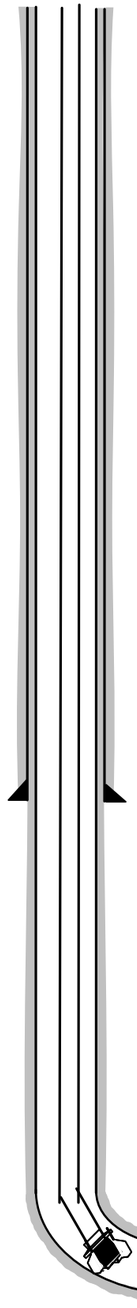
AF JWSC W.O.: 11.11.1922

# Pinto 36 State Com 3H

Eddy, NM
API# 30-015-39782

SPUD DATE: 4/20/2012
ELEV: 3465' GL, 12' KB

CURRENT WBD



**HOLE SIZE: 12-¼"**
**9-5/8" 36# J-55 LTC CSG @ 1,227'**
CMT WITH 250 SX C + 300 SX H + 500 SX CLASS C. Temp Survey located TOC @ 220'. Remedial Surface casing cement job with 480sx and circulated 33 Sx to Surface.

**HOLE SIZE: 8-¾"**
**7" 26# L-80 CSG @ 1624'**
**5-½" 17# L-80 CSG @ 6,817'**
CMT WITH 500 SX C , CIRC 110 SX TO SURF FOR 7"
CMT 400 SX C LEAD AND 170 SX C TAIL, CIRC 307 SX TO SURF FOR 5-½" , TOC AT SURFACE

CROSS OVER FROM 7" TO 5-½" CSG @ 1,624'

KOP @ 1,725'

**TOP PERF @ 2,506'**

**BOTTOM PERF @ 6,817'**

TD (MD) @ 6,917' TD (TVD) @ 2,672.3'

**COMPLETION JOB**
PERF 2506-6817'
ACIDIZED TOE WITH 5000 GAL 15% ACID
FRAC W 157,975 GAL WATER, 1,272,349 GALS OF X-LINKED GEL CARRYING 1,740,701 LBS. OF 20/40 BROWN + 362,700 LBS. 30/50 SLC + 42,600# MESH. CIRC CLEAN TO TD W 2" COIL TBG

## Tubing Strings

| Tubing Description | Set Depth (ftKB) | Run Date |
|---|---|---|
| Tubing - Production | 2,459.4 | 7/24/2018 |

## Tubing Components

| Jts | Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Top Thread | Top Connection Type | Len (ft) | Cum Len (ft) | Top (ftKB) | Btm (ftKB) | Incl Max (°) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | Tubing | 2 7/8 | 2.44 | 6.50 | J-55 | 8RD | | 1,522.65 | 2,459.43 | 0.0 | 1,522.7 | |
| 1 | MARKER SUB | 2 7/8 | 2.44 | 6.50 | J-55 | 8RD | | 2.22 | 936.78 | 1,522.7 | 1,524.9 | 0.36 |
| 2 | Tubing | 2 7/8 | 2.44 | 6.50 | J-55 | 8RD | | 64.88 | 934.56 | 1,524.9 | 1,589.8 | 0.36 |
| 1 | NICKEL PLATED TAC | 4 3/4 | 2.44 | 17.00 | K-77 | 8RD | | 2.87 | 869.68 | 1,589.8 | 1,592.6 | 0.23 |
| 24 | Tubing | 2 7/8 | 2.44 | 6.50 | J-55 | 8RD | | 779.60 | 866.81 | 1,592.6 | 2,372.2 | 61.51 |
| 1 | Pump Seating Nipple | 2 7/8 | 2.25 | | | 8RD | | 1.10 | 87.21 | 2,372.2 | 2,373.3 | 61.60 |
| 1 | SPACER SUB | 2 7/8 | 2.44 | 6.50 | J-55 | 8RD | | 4.22 | 86.11 | 2,373.3 | 2,377.5 | 61.97 |
| 1 | CAVINS D3405G DEASANDER | 3 | | | | 8RD | | 17.06 | 81.89 | 2,377.5 | 2,394.6 | 63.46 |
| 2 | MUD ANCHOR | 3 1/2 | 2.99 | 9.30 | J-55 | 8RD | | 64.08 | 64.83 | 2,394.6 | 2,458.7 | 69.75 |
| 1 | Bull Plug | 3 1/2 | | | | 8RD | | 0.75 | 0.75 | 2,458.7 | 2,459.4 | 69.83 |

## Rod Components

| Jts | OD (in) | Grade | Make | Model | Item Des | Top Coupling | Len (ft) | Cum Len (ft) | Top (ftKB) | Btm (ftKB) | Incl Max (°) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 1/2 | | | | Rod Pump | | 20.00 | 2,360.00 | 413.0 | 433.0 | 1.26 |
| 23 | 7/8 | KD | | | Weatherford FHSM | | 575.00 | 2,340.00 | 433.0 | 1,008.0 | 1.40 |
| 8 | 1 3/8 | Grade K | | | American Sinker Bar FHSM | | 200.00 | 1,765.00 | 1,008.0 | 1,208.0 | 1.80 |
| 61 | 1 | KD | | | Weatherford SHSM | | 1,525.00 | 1,565.00 | 1,208.0 | 2,733.0 | 88.61 |
| 3 | 1 | KD | | | Weatherford SHSM | | 14.00 | 40.00 | 2,733.0 | 2,747.0 | 88.74 |
| 1 | 1 1/2 | Spraymetal | | | Don Nan | | 26.00 | 26.00 | 2,747.0 | 2,773.0 | 88.99 |

CREATED ON 1/27/2023

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
Revised April 3, 2017

1. WELL API NO. 30-015-39782
2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name: PINTO 36 STATE COM
6. Well Number: 3H

7. Type of Completion: ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☒ OTHER REVISION

8. Name of Operator: SPUR ENERGY PARTNERS LLC
9. OGRID: 328947
10. Address of Operator: 9655 KATY FREEWAY, SUITE 500, HOUSTON, TX 77024
11. Pool name or Wildcat: PENASCO DRAW; SA-YESO

| 12. Location | Unit Ltr | Section | Township | Range | Lot | Feet from the | N/S Line | Feet from the | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|---|
| **Surface:** | B | 36 | 18S | 25E | | 150 | NORTH | 2260 | EAST | EDDY |
| **BH:** | O | 36 | 18S | 25E | | 336 | NORTH | 2292 | EAST | EDDY |

| 13. Date Spudded | 14. Date T.D. Reached | 15. Date Rig Released | 16. Date Completed (Ready to Produce) | 17. Elevations (DF and RKB, RT, GR, etc.) |
|---|---|---|---|---|
| 04/12/2012 | 05/07/2012 | 05/10/2012 | 06/14/2012 | 3465' GR |

| 18. Total Measured Depth of Well | 19. Plug Back Measured Depth | 20. Was Directional Survey Made? | 21. Type Electric and Other Logs Run |
|---|---|---|---|
| 6917'M | | YES | HRLA, TDLDCN |

22. Producing Interval(s), of this completion - Top, Bottom, Name: 2506'-6817' YESO

23. **CASING RECORD** (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 9-5/8" | 36# | 1226' | 12-1/4" | 1050 SXS | 0 |
| 7" | 26# | 1624' | 8-3/4" | 500 SXS | 0 |
| 5-1/2" | 17# | 6817' | 8-3/4" | 570 SXS | 0 |
| | | | | | |
| | | | | | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| | | |
| | | |

26. Perforation record (interval, size, and number)

Perf 2506'-6817' Acidized toe with 5000 gal 15% acid
Frac w 157,975 gal water, 1,272,349 gals of x-linked gel carrying 1,740,701 lbs. of 20/40 brown + 362,700 lbs. 30/50 slc + 42,600# mesh.
Circ clean to TD w 2" coil tbg

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 2506'-6817' | 57,975 gal water, 1,272,349 gals of x-linked gel carrying 1,740,701 lbs. of 20/40 brown + 362,700 lbs. 30/50 slc + 42,600# mesh. Circ clean to TD w 2" coil tbg |

28. **PRODUCTION**

| Date First Production | Production Method *(Flowing, gas lift, pumping - Size and type pump)* | Well Status *(Prod. or Shut-in)* |
|---|---|---|
| 07/04/2012 | PUMPING, ESP | PRODUCING |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 07/11/2012 | 24-HOURS | N/A | | 110 | 50 | 400 | 455 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - *(Corr.)* |
|---|---|---|---|---|---|---|
| 70 | 70 | | 110 | 50 | 400 | 39.9 |

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*: SOLD
30. Test Witnessed By: KENT GREENWAY
31. List Attachments
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.
33. Rig Release Date:
34. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude _____ Longitude _____ NAD83

*I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief*

Signature Sarah Chapman Printed Name SARAH CHAPMAN Title REGULATORY DIRECTOR Date 05/15/2023

E-mail Address SCHAPMAN@SPURENERGY.COM

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | Northwestern New Mexico | |
|---|---|---|---|
| T. Anhy | T. Canyon | T. Ojo Alamo | T. Penn A" |
| T. Salt | T. Strawn | T. Kirtland | T. Penn. "B" |
| B. Salt | T. Atoka | T. Fruitland | T. Penn. "C" |
| T. Yates | T. Miss | T. Pictured Cliffs | T. Penn. "D" |
| T. 7 Rivers | T. Devonian | T. Cliff House | T. Leadville |
| T. Queen | T. Silurian | T. Menefee | T. Madison |
| T. Grayburg 415' | T. Montoya | T. Point Lookout | T. Elbert |
| T. San Andres 692' | T. Simpson | T. Mancos | T. McCracken |
| T. Glorieta 2098' | T. McKee | T. Gallup | T. Ignacio Otzte |
| T. Paddock | T. Ellenburger | Base Greenhorn | T.Granite |
| T. Blinebry | T. Gr. Wash | T. Dakota | |
| T.Tubb | T. Delaware Sand | T. Morrison | |
| T. Drinkard | T. Bone Springs | T.Todilto | |
| T. Abo | T. YESO 2150' | T. Entrada | |
| T. Wolfcamp | T. | T. Wingate | |
| T. Penn | T. | T. Chinle | |
| T. Cisco (Bough C) | T. | T. Permian | |

**OIL OR GAS SANDS OR ZONES**

No. 1, from……..…..….to……. No. 3, from……to…….……

No. 2, from……to…… No. 4, from……to……..

## IMPORTANT WATER SANDS

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

No. 1, from…….to……feet……

No. 2, from…….to……feet……

No. 3, from…….to……feet……

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness In Feet | Lithology | | From | To | Thickness In Feet | Lithology |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

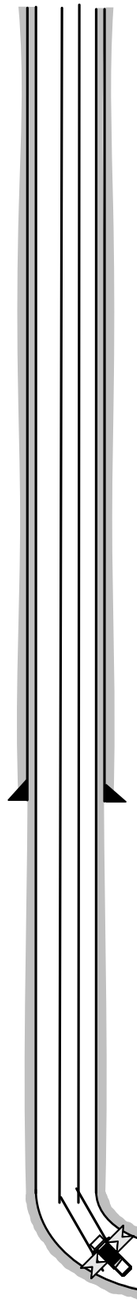
# Pinto 36 State Com 3H

Eddy, NM
API# 30-015-39782

SPUD DATE: 4/20/2012
ELEV: 3465' GL, 12' KB



PROPOSED WBD



**HOLE SIZE: 12-¼"**
**9-5/8" 36# J-55 LTC CSG @ 1,227'**
CMT WITH 250 SX C + 300 SX H + 500 SX CLASS C. Temp Survey located TOC @ 220'. Remedial Surface casing cement job with 480sx and circulated 33 Sx to Surface.

**PROPOSED TBG DETAIL**
+/- 74 JOINTS OF 2-7/8" J55 IPC TBG
PACKER @ 2406' (64 DEG INCLINATION)

**HOLE SIZE: 8-¾"**
**7" 26# L-80 CSG @ 1624'**
**5-½" 17# L-80 CSG @ 6,817'**
CMT WITH 500 SX C , CIRC 110 SX TO SURF FOR 7"
CMT 400 SX C LEAD AND 170 SX C TAIL, CIRC 307 SX TO SURF FOR 5-½" , TOC AT SURFACE

CROSS OVER FROM 7" TO 5-½" CSG @ 1,624'

KOP @ 1,725'

**COMPLETION JOB**
PERF 2506-6817'
ACIDIZED TOE WITH 5000 GAL 15% ACID
FRAC W 157,975 GAL WATER, 1,272,349 GALS OF X-LINKED GEL CARRYING 1,740,701 LBS. OF 20/40 BROWN + 362,700 LBS. 30/50 SLC + 42,600# MESH. CIRC CLEAN TO TD W 2" COIL TBG

**TOP PERF @ 2,506'**

**BOTTOM PERF @ 6,817'**

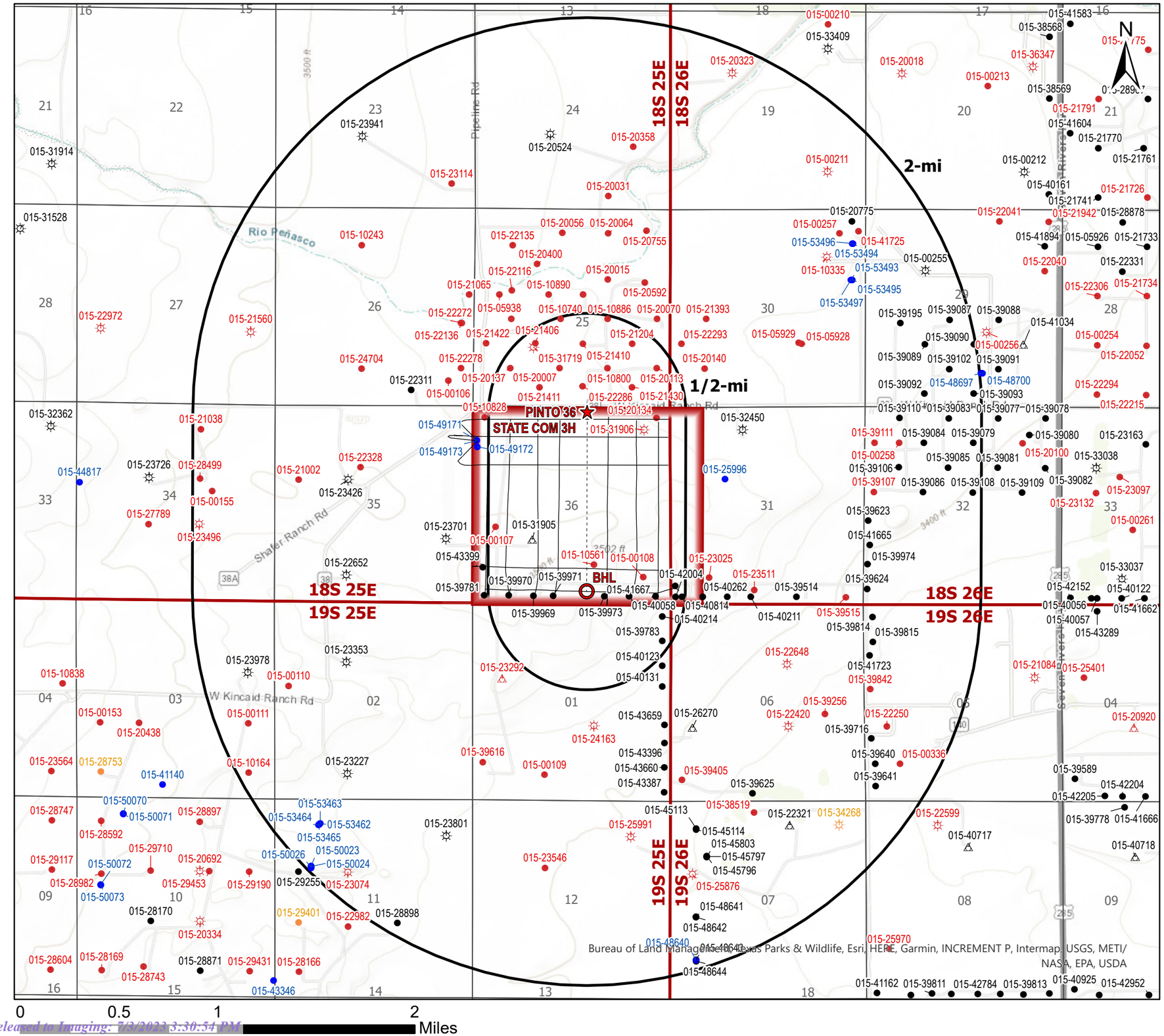
TD (MD) @ 6,917' TD (TVD) @ 2,672.3'

CREATED ON 1/27/2023

**Attachment 2**

Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map




## Legend

- PINTO 36 STATE COM 3H SHL
- PINTO 36 STATE COM 3H BHL
- PINTO 36 STATE COM 3H Lateral
- Affected Wells Deviation Laterals
- Project Area (1)
- Gas, Active (19)
- Gas, Plugged (21)
- Gas, Temporary Abandonment (1)
- Oil, Active (109)
- Oil, New (28)
- Oil, Plugged (110)
- Oil, Temporary Abandonment (2)
- Salt Water Disposal, Active (6)
- Salt Water Disposal, Plugged (2)

*Source Info: NMOCD O&G Wells updated 3/22/2023 (https://ocd-hub-nm-emnrd.hub.arcgis.com/search)*

# O&G Wells
# Area of Review

## PINTO 36 STATE COM 3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Dan Arthur | June 17, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

*Prepared for:* SPUR ENERGY PARTNERS

*Prepared by:* ALL CONSULTING

| AOR Tabulation for Pinto 36 State COM 3H (Top of Injection Interval: 2,311') | | | | | | | |
|---|---|---|---|---|---|---|---|
| Well Name | API# | Well Type | Operator | Spud Date | Location (Sec., Tn., Rng.) | Total Vertical Depth (feet) | Penetrate Inj. Zone? |
| SUBURB AZS STATE #001 | 30-015-31906 | Plugged | EOG RESOURCES INC | 9/9/2002 | A-36-18S-25E | Plugged (9,340) | Yes |
| YATES AS FEE COM #006 | 30-015-31719 | Plugged | EOG RESOURCES INC | 5/24/2001 | K-25-18S-25E | Plugged (9,142) | Yes |
| YATES AS FEE #003 | 30-015-21406 | Plugged | EOG RESOURCES INC | 10/28/1974 | K-25-18S-25E | Plugged (1,620) | No |
| GERARD AW #003 | 30-015-21410 | Plugged | EOG RESOURCES INC | 11/13/1974 | J-25-18S-25E | Plugged (1,530) | No |
| GERARD AW #004 | 30-015-22286 | Plugged | EOG RESOURCES INC | 9/6/1977 | O-25-18S-25E | Plugged (1,550) | No |
| NIX CURTIS BH #002 | 30-015-20113 | Plugged | EOG RESOURCES INC | 12/27/1967 | P-25-18S-25E | Plugged (1,705) | No |
| WILKINSON AZ #002 | 30-015-20137 | Plugged | EOG Y RESOURCES, INC. | 8/28/1994 | M-25-18S-25E | Plugged (2,450) | Yes |
| WILKINSON AZ #003 | 30-015-21411 | Plugged | EOG Y RESOURCES, INC. | 11/26/1974 | N-25-18S-25E | Plugged (2,450) | Yes |
| WILKINSON AZ #001 | 30-015-20007 | Plugged | EOG Y RESOURCES, INC. | 5/19/1967 | N-25-18S-25E | Plugged (5,120) | Yes |
| GERARD AW #001 | 30-015-10800 | Plugged | EOG Y RESOURCES, INC. | 6/2/1966 | O-25-18S-25E | Plugged (2,648) | Yes |
| GERARD AW #002 | 30-015-10886 | Plugged | EOG Y RESOURCES, INC. | 11/12/1966 | J-25-18S-25E | Plugged (2,630) | Yes |
| YATES AS FEE #001 | 30-015-10740 | Plugged | EOG Y RESOURCES, INC. | 2/24/1966 | K-25-18S-25E | Plugged (1,859') | No |
| NIX CURTIS BH #004 | 30-015-21430 | Plugged | EOG Y RESOURCES, INC. | 12/4/1974 | P-25-18S-25E | Plugged (1,495) | No |
| NIX CURTIS BH #003 | 30-015-21204 | Plugged | EOG Y RESOURCES, INC. | 10/3/1974 | I-25-18S-25E | Plugged (1,520) | No |
| METROPOLIS DISPOSAL #001 | 30-015-31905 | SWD | FRONTIER FIELD SERVICES, LLC | 10/14/2004 | K-36-18S-25E | 10,500 | Yes |
| PRE-ONGARD WELL #002 (Eddy State "AC" #2) | 30-015-00108 | Plugged | PRE-ONGARD WELL OPERATOR (Gulf Oil Corporation) | 3/9/1959 | P-36-18S-25E | Plugged (847) | No |
| PRE-ONGARD WELL #001 (Eddy State "AC" #1) | 30-015-00107 | Plugged | PRE-ONGARD WELL OPERATOR (Gulf Oil Corporation) | 12/28/1958 | L-36-18S-25E | Plugged (9,283) | Yes |
| PRE-ONGARD WELL #001 (Kincaid #1) | 30-015-10561 | Plugged | PRE-ONGARD WELL OPERATOR (Monsanto Company) | 4/30/1965 | O-36-18S-25E | Plugged (9,330) | Yes |
| Pre-Ongard Well #1 (Lowe "BK" State #001) | 30-015-20134 | Plugged | Pre-Onguard Well Operator (Yates Petroleum Corporation) | 4/16/1968 | A-36-18S-25E | Plugged (1,590) | No |
| PINTO 36 STATE COM #005H | 30-015-39970 | Oil | Spur Energy Partners LLC | 7/1/2012 | M-36-18S-25E | 2,600 | Yes |
| PINTO 36 STATE COM #006H | 30-015-39971 | Oil | Spur Energy Partners LLC | 7/19/2015 | N-36-18S-25E | 2,568 | Yes |
| PINTO 36 STATE COM #002H | 30-015-39969 | Oil | Spur Energy Partners LLC | 7/20/2012 | N-36-18S-25E | 2,340 | Yes |
| PINTO 36 STATE COM #007H | 30-015-39973 | Oil | Spur Energy Partners LLC | 1/31/2017 | O-36-18S-25E | 2,580 | Yes |
| PINTO 36 STATE COM #004H | 30-015-40058 | Oil | Spur Energy Partners LLC | 8/3/2012 | P-36-18S-25E | 7,335 | Yes |
| PINTO 36 STATE COM #008H | 30-015-41667 | Oil | Spur Energy Partners LLC | 11/28/2015 | P-36-18S-25E | 2,669 | Yes |
| ARABIAN 6 FEE #010H | 30-015-42004 | Oil | Spur Energy Partners LLC | 3/18/2014 | M-31-18S-26E | 2,875 | Yes |
| CLYDESDALE 1 FEE #001H | 30-015-40214 | Oil | Spur Energy Partners LLC | 2/26/2013 | A-01-19S-25E | 2,633 | Yes |
| FALABELLA 31 FEE #001H | 30-015-40814 | Oil | Spur Energy Partners LLC | 7/14/2013 | M-31-18S-26E | 2,649 | Yes |
| PINTO 36 STATE #009H | 30-015-42877 | Oil | Spur Energy Partners LLC | 1/17/2015 | M-31-18S-26E | 2,628 | Yes |
| CLYDESDALE 1 FEE #002H | 30-015-39783 | Oil | Spur Energy Partners LLC | 1/21/2014 | A-01-19S-25E | 2,647 | Yes |

# Casing Information for Wells Penetrating the Pinto 36 State COM 3H Injection Zone

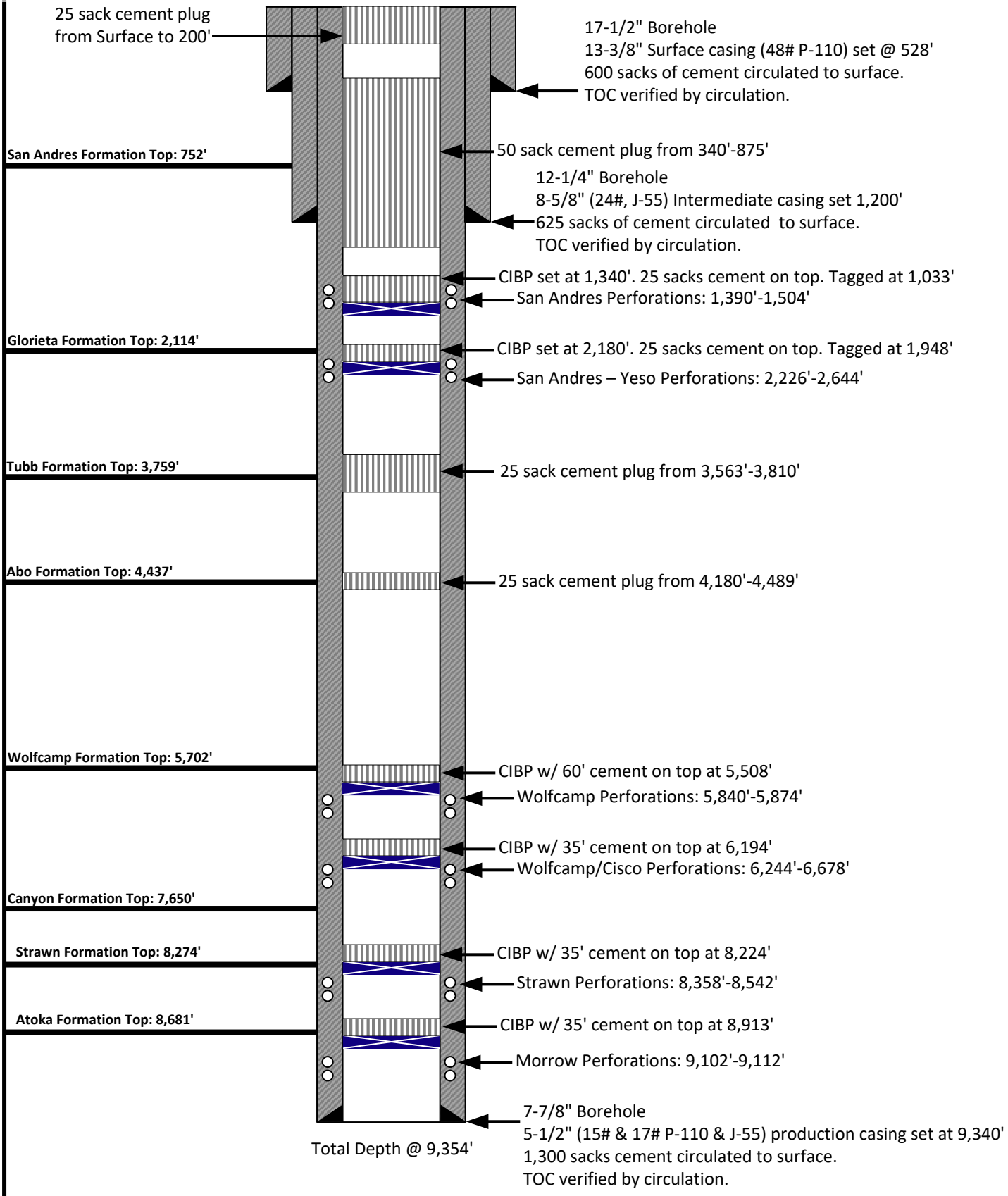
| Well Name | Surface Casing | | | | | | Intermediate Casing | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Set Depth | Casing Size | TOC | TOC Method Determined | Sks of Cement | Hole size | Set Depth | Casing Size | TOC | TOC Method Determined | Sks of Cement | Hole Size |
| SUBURB AZS STATE #001 | 528' | 13.375" | Surface | Circulation | 600 | 17.5" | 1200' | 8.625" | Surface | Circulation | 625 | 12.25" |
| YATES AS FEE COM #006 | 396' | 13.375" | Surface | Circulation | 450 | 17.5" | 1214' | 9.625" | Surface | Circulation | 965 | 12.25" |
| WILKINSON AZ #003 | 321' | 10.75" | Surface | Circulation | 175 | 11.75" | 1096' | 7" | Surface | Circulation | 550 | 9.5" |
| GERARD AW #001 | 1210' | 4.5" | Surface | Circulation | 155 | 5.5" | N/A | N/A | N/A | N/A | N/A | N/A |
| WILKINSON AZ #001 | 1040' | 9.625" | Surface | Circulation | 645 | 12.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| WILKINSON AZ #002 | 1044' | 8.625" | 340' | Unknown* | 100 | Unknown* | 1527' | 5.5" | 460' | Unknown | 180 | Unknown |
| GERARD AW #002 | 1065' | 8.625" | Surface | Circulation | 450 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| METROPOLIS DISPOSAL #001 | 404' | 13.375" | Surface | Circulation | 450 | 17.5" | 1203 | 8.625" | Surface | Circulation | 600 | 12.25" |
| PRE-ONGARD WELL #001 (Eddy State "AC" #1) | 1184' | 9.625" | Surface | Circulation | 700 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| PRE-ONGARD WELL #001 (Kincaid #1) | 1300' | 9.625" | Surface | Circulation | 425 | 12.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #005H | 1166' | 8.625 | Surface | Circulation | 1050 | 12.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #006H | 1212' | 8.625" | Surface | Circulation | 1300 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #002H | 1228' | 9.625" | Surface | Circulation | 700 | 12.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #007H | 1217' | 8.625" | Surface | Ciruclation | 625 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #004H | 1210" | 9.625" | Surface | Circulation | 1050 | 12.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #008H | 1232' | 8.625" | Surface | Circulation | 1150 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| ARABIAN 6 FEE #010H | 1232' | 8.625" | Surface | TS/ Circulation | 1850 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| CLYDESDALE 1 FEE #001H | 1235' | 8.625" | Surface | Circulation | 1300 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| FALABELLA 31 FEE #001H | 1230' | 8.625" | Surface | Circulation | 1150 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE #009H | 1266' | 8.625" | Surface | Circulation | 1000 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |
| CLYDESDALE 1 FEE #002H | 1194' | 8.625" | Surface | TS/ Circulation | 1358 | 11" | N/A | N/A | N/A | N/A | N/A | N/A |

**Notes:** * - Data not available from the NMOCD database (Well records or Well details).

| Well Name | Production Casing , Intermediate II Casing, or Liner | | | | | | Production Casing II & Liner | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Set Depth | Casing Size | TOC | TOC Method Determined | Sks of Cement | Hole Size | Set Depth | Casing Size | TOC | TOC Method Determined | Sks of Cement | Hole Size |
| SUBURB AZS STATE #001 | 9340' | 5.5" | Surface | Circulation | 1300 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| YATES AS FEE COM #006 | 9200' | 5.5" | Surface | Circulation | 1310 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| WILKINSON AZ #003 | 2341' | 4.5" | Surface | Circulation | 275 | 6.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| GERARD AW #001 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| WILKINSON AZ #001 | 5117' | 7" | Surface | Circulation | 900 | 8.25" | N/A | N/A | N/A | N/A | N/A | N/A |
| WILKINSON AZ #002 | 2450' | 3.5" | Surface | Circulation | Unknown* | Unknown* | N/A | N/A | N/A | N/A | N/A | N/A |
| GERARD AW #002 | 2628' | 5.5" | Estimated 116' | Unknown* | 450 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| METROPOLIS DISPOSAL #001 | 9927' | 5.5" | 1820' | CBL | 1600 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PRE-ONGARD WELL #001(Eddy State "AC" #1) | 9270' | 5.5" | Unknown* | Unknown* | 425 | 8.75" | N/A | N/A | N/A | N/A | N/A | N/A |
| PRE-ONGARD WELL #001(Kincaid #1) | 9400 | 4.5" | Unknown* | Unknown* | 300 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #005H | 7234' | 5.5" | Surface | Circulation | 900 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #006H | 7203' | 5.5" | Surface | Circulation | 1100 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #002H | 7012' | 5.5" | Surface | Circulation | 900 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #007H | 7425' | 5.5" | Surface | Circulation | 1100 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #004H | 7195" | 5.5" | Surface | Circulation | 400 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE COM #008H | 7387' | 5.5" | Surface | Circulation | 1100 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| ARABIAN 6 FEE #010H | 7387' | 5.5" | Surface | Circulation | 1500 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| CLYDESDALE 1 FEE #001H | 7424' | 5.5" | Surface | Circulation | 850 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| FALABELLA 31 FEE #001H | 7366' | 5.5" | Surface | Circulation | 800 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| PINTO 36 STATE #009H | 7682' | 5.5" | Surface | Circulation | 1100 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |
| CLYDESDALE 1 FEE #002H | 7398' | 5.5" | Surface | Circulation | 800 | 7.875" | N/A | N/A | N/A | N/A | N/A | N/A |

**Notes:** * - Data not available from the NMOCD database (Well records or Well details).

| Well Name | Plugging Information |
|---|---|
| SUBURB AZS STATE #001 | CIBP @ 8,913' with 35' cement on top, 'CIBP @ 8,224' with 35' cement on top, CIBP @ 6,194' with 35' cement on top, 'CIBP @ 5,508' with 60' cement on top, CIBP @ 2,180' with 25 sx, 'CIBP @ 1,340' qurg 25 sx. Plugs set at 4,180' - 4,489' with 25 sx, 3,563 - 3,810' with 25 sx, 340' - 875' with 50 sx, and surface - 200' with 25 sx. |
| YATES AS FEE COM #006 | CIBP set @ 8900'. Plugs set at 8672' - 8900' with 25 sx, 8428' - 8648' with 25 sx, 7992' - 8212' with 25 sx, 7660' - 7740' with 25 sx, 5479' - 5726' with 25 sx, 4083' - 4330' with 25 sx, 3473' - 3720' with 25 sx, 1870' - 2117' with 25 sx, |
| WILKINSON AZ #003 | Cement Squeeze from 495' - 356' with 125 sx, cement plug set at 186' - 12' with 127 sx. |
| GERARD AW #001 | Cement squeeze at 1200' with 100 sx, 101' - 744' with 100 sx, 55' - 101' with 50 sx, 0-55' with 10 sx. |
| WILKINSON AZ #001 | Plugs set at 1616' - 1300' with 25 sx, 1233' - 928' with 50 sx, squeezed 250 sx below 1202', 538' - 650' with 50 sx, 469' - 538' with 50 sx, 0-60' with 10 sx. |
| WILKINSON AZ #002 | Squeezed 100 sx through existing perfs @ 1378' - 1440' and tagged cement @ 780'. Cement plug places @ 700' - surface with 30 sx. |
| GERARD AW #002 | CIBP @ 1500'. Plugs set at 1475' - 940' with 50 sx. Perf @ 100' and squeeze 75 sx to surface. |
| PRE-ONGARD WELL #001<br>(Eddy State "AC" #1) | CIBP @8950' with 6 sx cmt on top. Cut and pulled 5.5" casing from 7005'. Circulated hole with mud. Plugs set at 7052' - 6952' with 23 sx, 6900' - 6800' with 35 sx, 5750' - 5650 with 35 sx, 4500' - 4400' with 35 sx, 2200' - 2100' with 35 sx, 1250' - 1150' with 36 sx & 50' - 0' with 18 sx. |
| PRE-ONGARD WELL #001<br>(Kincaid #1) | Plugs set @ 9316' - 9221', 9004' - 8905', 7794' - 7698', 4444' - 4341', 1365' - 1264', & 716' - 618' with 169 sx cmt. 5sx plug at surface. |




Prepared by: ALL CONSULTING

Prepared for: SPUR ENERGY PARTNERS

Drawn by: Joshua Ticknor, P.E.

Project Manager: Nathan Alleman

Date: 4/27/2023

**Plugged and Abandoned Wellbore Diagram**

SUBURB AZS STATE #001

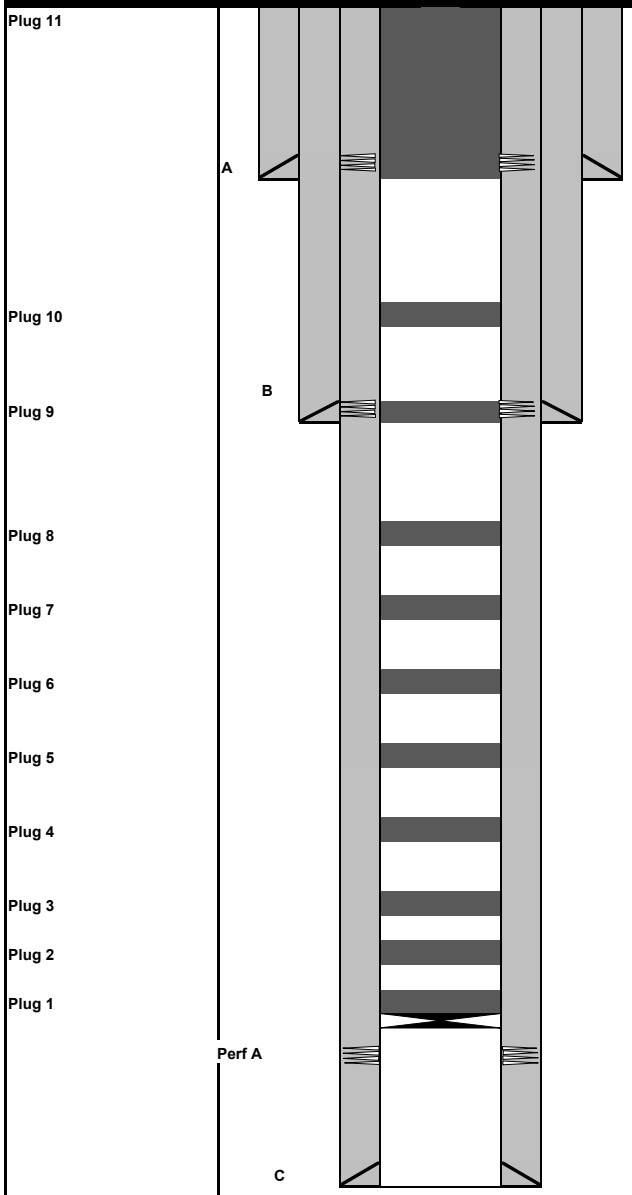
30-015-31906

660'FNL & 660'FEL

36-18S-25E

Eddy County, New Mexico

# Yates AS Fee Com 6




PBTD: 9,198 MD
TD: 9,200 MD

| | | | |
|---|---|---|---|
| **Sec-TWN-RNG:** | **Sec. 25-18S-25E** | **API:** | **30-015-31719** |
| **FOOTAGES:** | **1550'FSL & 1600'FWL** | **GL:** | **3464** |
| | | **KB:** | |

**CASING DETAIL**

| # | HOLE SIZE | SIZE | WGHT | GRADE | Top | Bottom | Sx Cmt | Circ/TOC | TOC Method |
|---|---|---|---|---|---|---|---|---|---|
| A | 17 1/2 | 13 3/8 | 48 | H-40 | 0 | 396 | 450 | Surface | Circ |
| B | 12 1/4 | 9 5/8 | 36 | J-55 | 0 | 1,214 | 965 | Surface | Circ |
| C | 7 7/8 | 5 1/2 | 15.5/17 | J55/P110 | 0 | 9,200 | 1310 | Surface | Circ |

**FORMATION TOPS**

| Formation | Top | Formation | Top |
|---|---|---|---|
| San Andres | 706 | Canyon | 7610 |
| Glorieta | 2067 | Strawn | 8162 |
| Tubb | 3670 | Atoka | 8598 |
| Abo | 4280 | Morrow | 8850 |
| Wolfcamp | 5676 | Chester | 9135 |

**Perforation Detail**

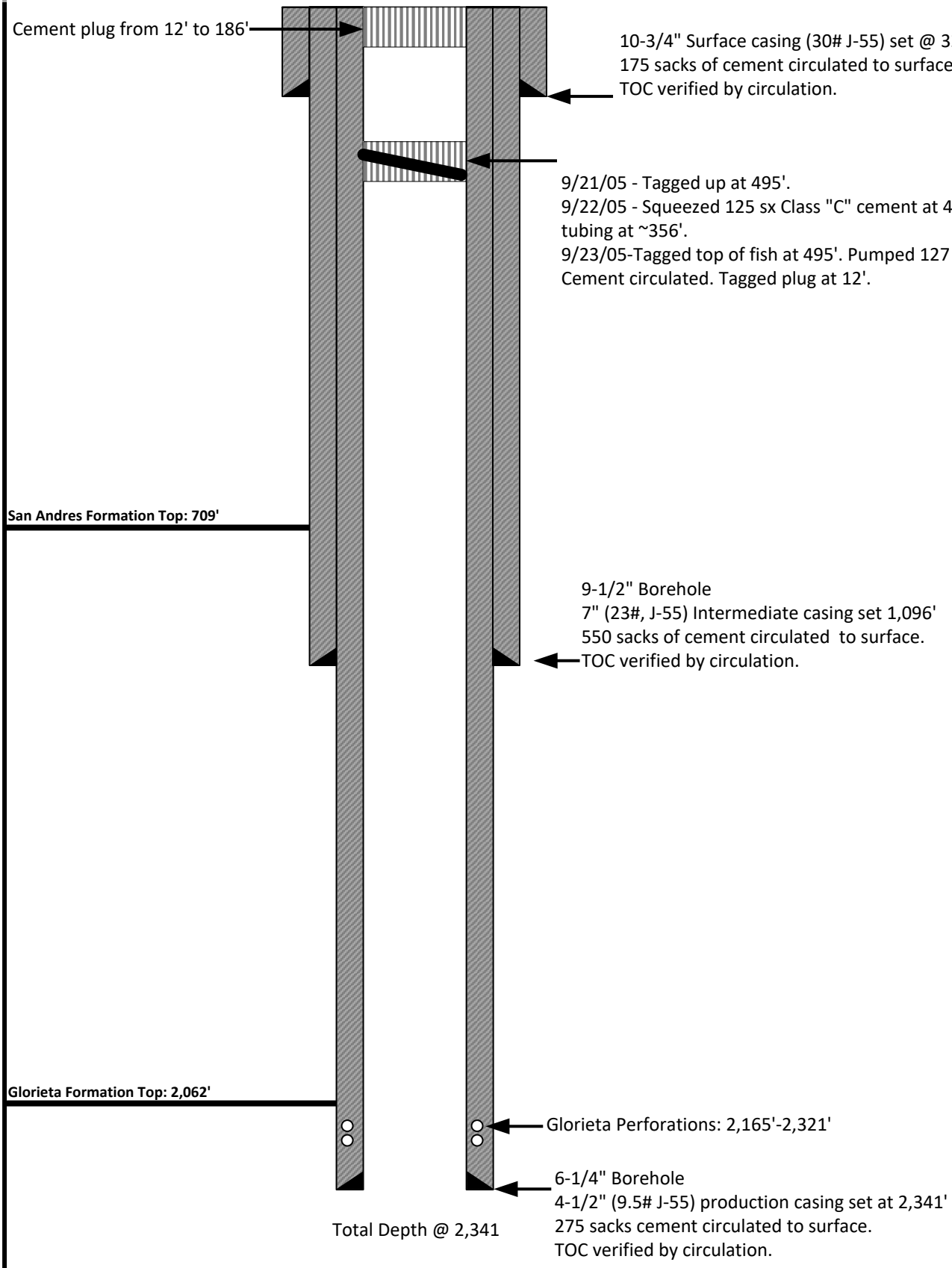
| | Formation | Top | Bottom | Treatment |
|---|---|---|---|---|
| A | Morrow | 8,980 | 9,006 | Acidize w/1000 gals 7.5% MSA |

**PLUGS**

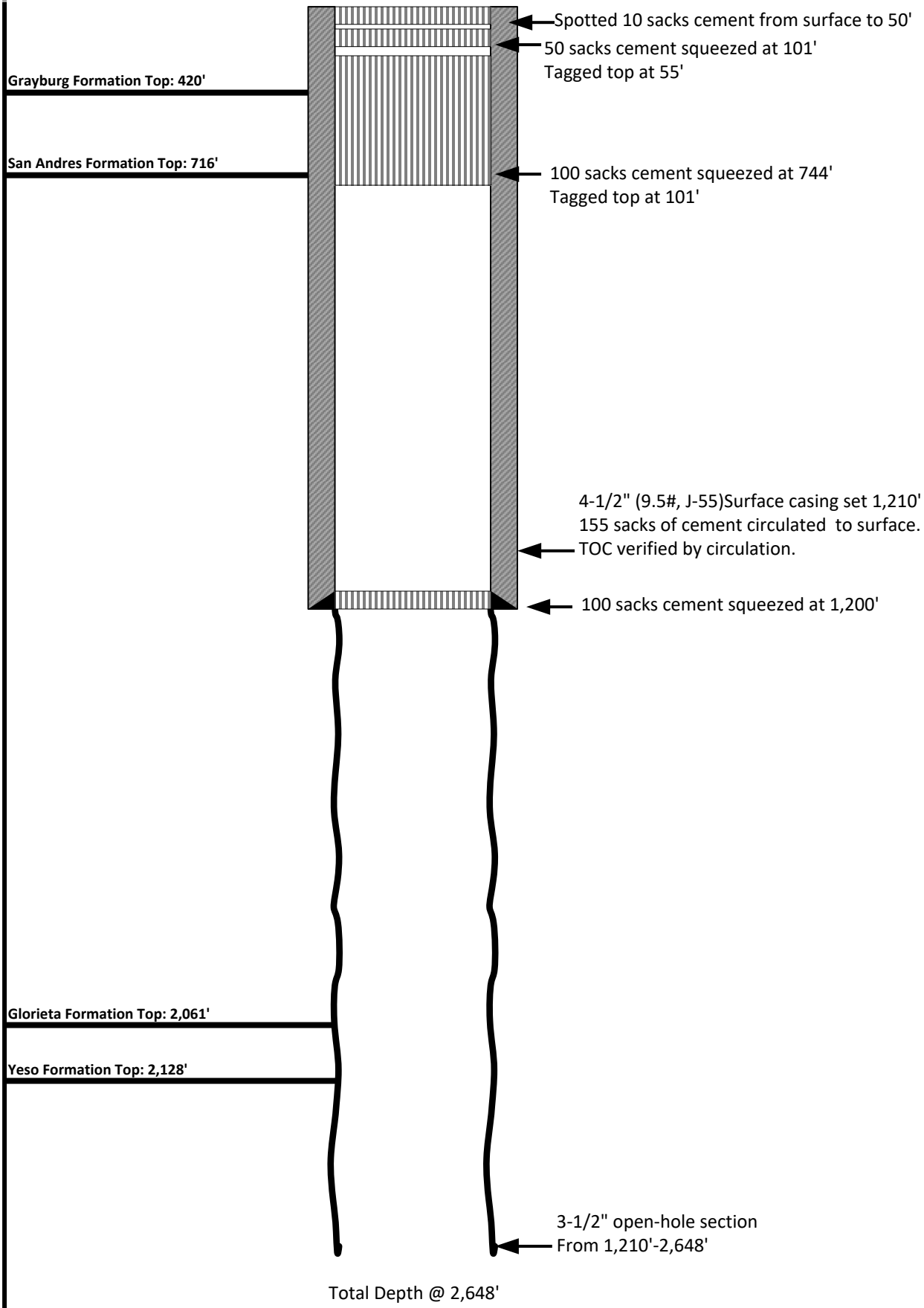
| # | sx | Class | Top | Bottom | Tag | Notes |
|---|---|---|---|---|---|---|
| 1 | 25 | H | 8672 | 8900 | Y | CIBP |
| 2 | 25 | H | 8428 | 8648 | N | |
| 3 | 25 | H | 7992 | 8212 | N | |
| 4 | 25 | H | 7660 | 7740 | N | |
| 5 | 25 | H | 5479 | 5726 | N | |
| 6 | 25 | C | 4083 | 4330 | N | |
| 7 | 25 | C | 3473 | 3720 | N | |
| 8 | 25 | C | 1870 | 2117 | N | |
| 9 | 25 | C | 984 | 1314 | N | Perforate |
| 10 | 25 | C | 509 | 756 | N | |
| 11 | 25 | C | 0 | 483 | N | Perforate |

Prepared by: Hiram C 5/19/21

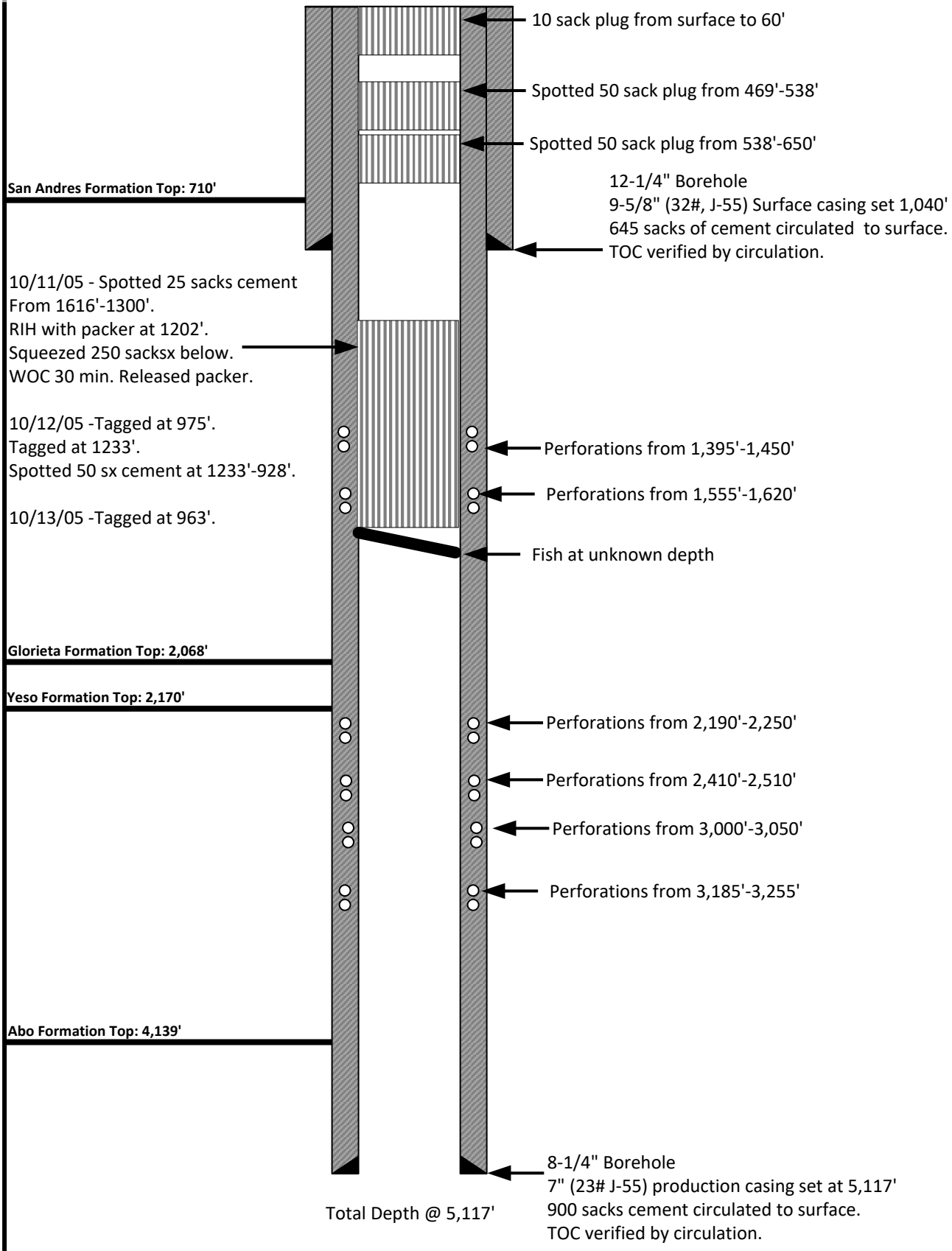
9/20/21



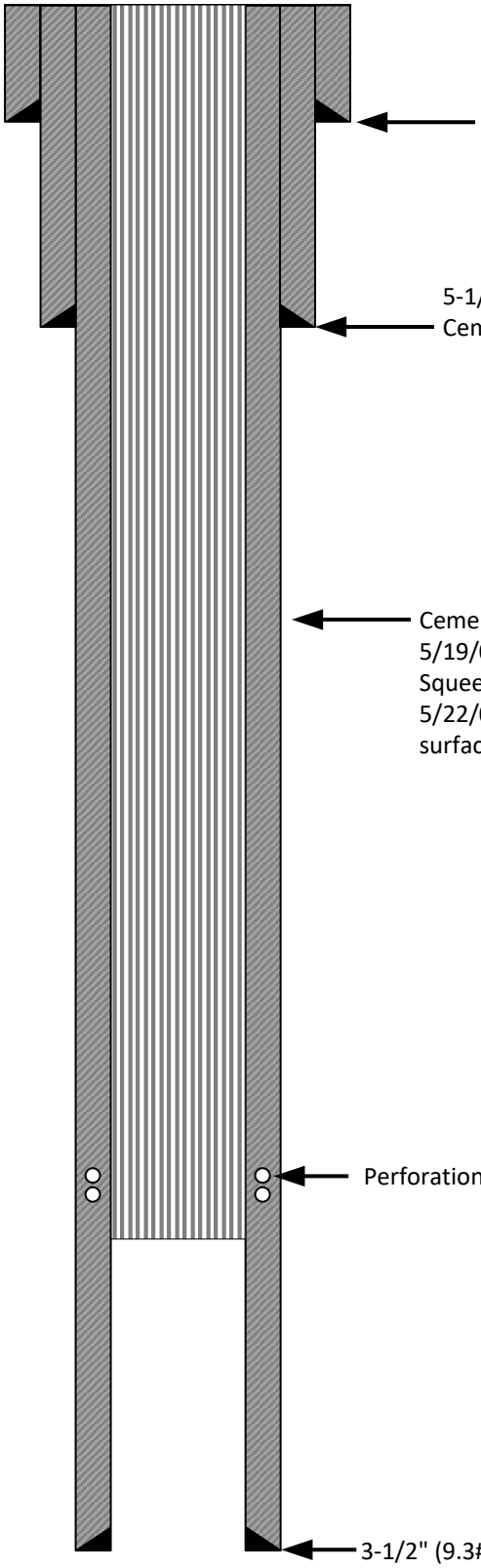

| | | |
|---|---|---|
| Prepared by: ALL CONSULTING<br>Prepared for: SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor, P.E.<br>Project Manager: Nathan Alleman<br>Date: 4/27/2023 | **Plugged and Abandoned Wellbore Diagram**<br>WILKINSON AZ #003<br>30-015-21411<br>480'FSL & 1,780'FSL<br>25-18S-25E<br>Eddy County, New Mexico |




| | | |
|---|---|---|
| Prepared by: ALL CONSULTING<br>Prepared for: SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor, P.E.<br>Project Manager: Nathan Alleman<br>Date: 4/27/2023 | **Plugged and Abandoned Wellbore Diagram**<br>GERARD AW #001<br>30-015-10800<br>990'FSL & 1650'FWL<br>25-18S-25E<br>Eddy County, New Mexico |




| | | |
|---|---|---|
| Prepared by: ALL CONSULTING<br>Prepared for: SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor, P.E.<br>Project Manager: Nathan Alleman<br>Date: 4/27/2023 | **Plugged and Abandoned Wellbore Diagram**<br>WILKINSON AZ #001<br>30-015-20007<br>990'FSL & 2,310'FWL<br>25-18S-25E<br>Eddy County, New Mexico |



11" Borehole
8-5/8" (28#, J-55) Surface casing set 1,044'
Cemented with 400 sacks. Top of cement at 340'.
Additional 100 sacks grouted through ¾"

5-1/2" (14#, J-55) Intermediate casing set 1,527'
Cemented with 180 sacks. Top of cement at 460'.

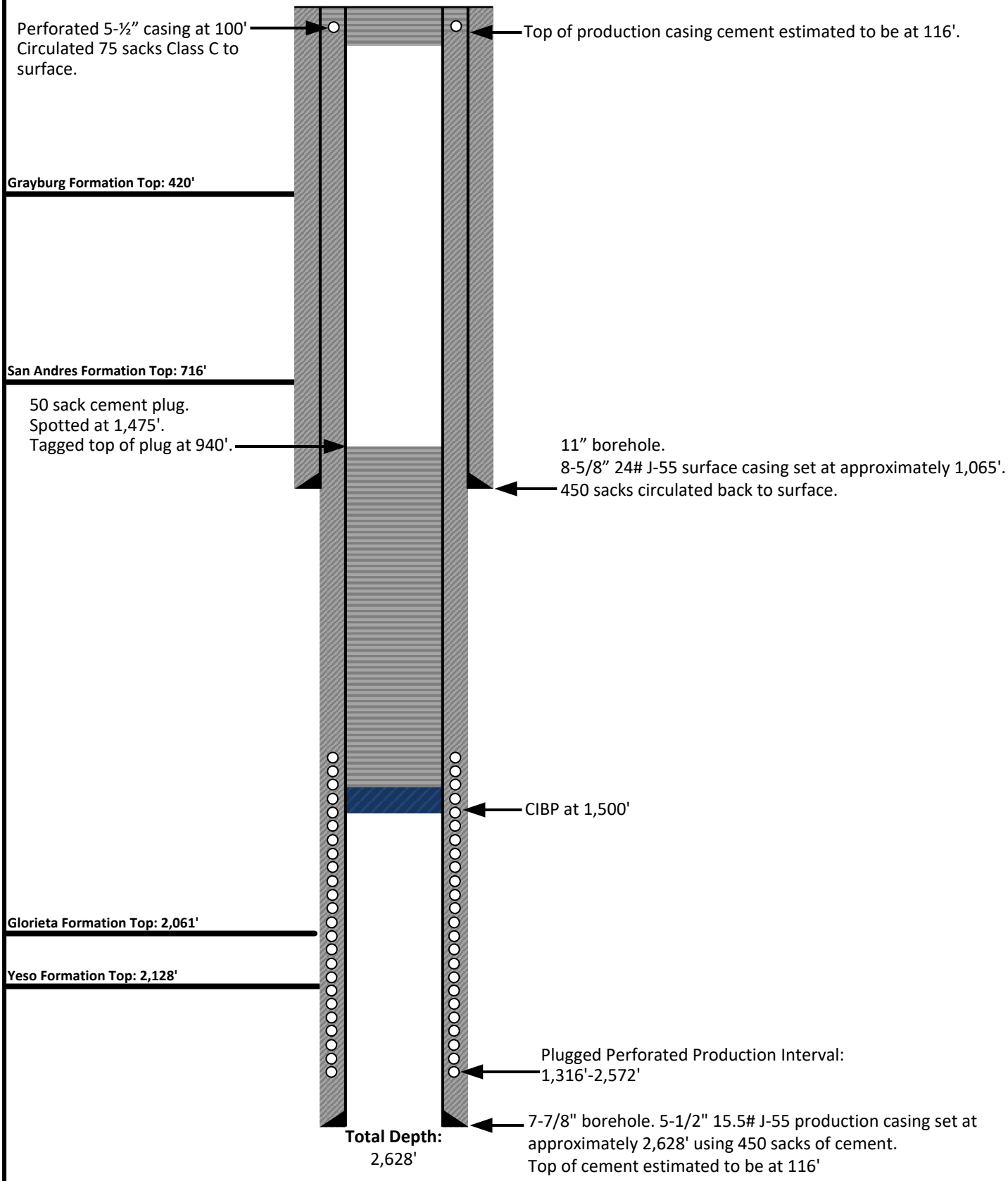
Cement plug from perforations to surface.
5/19/06- Established injection rate down casing with 11 bbls.
Squeezed with 100 sx cement at 100# max pressure.
5/22/06 - Tagged at 780'. Pumped 30 sx cement from 700' to surface. WOC 1 hr. Cement at surface.

Perforations from 1,378-1,440'

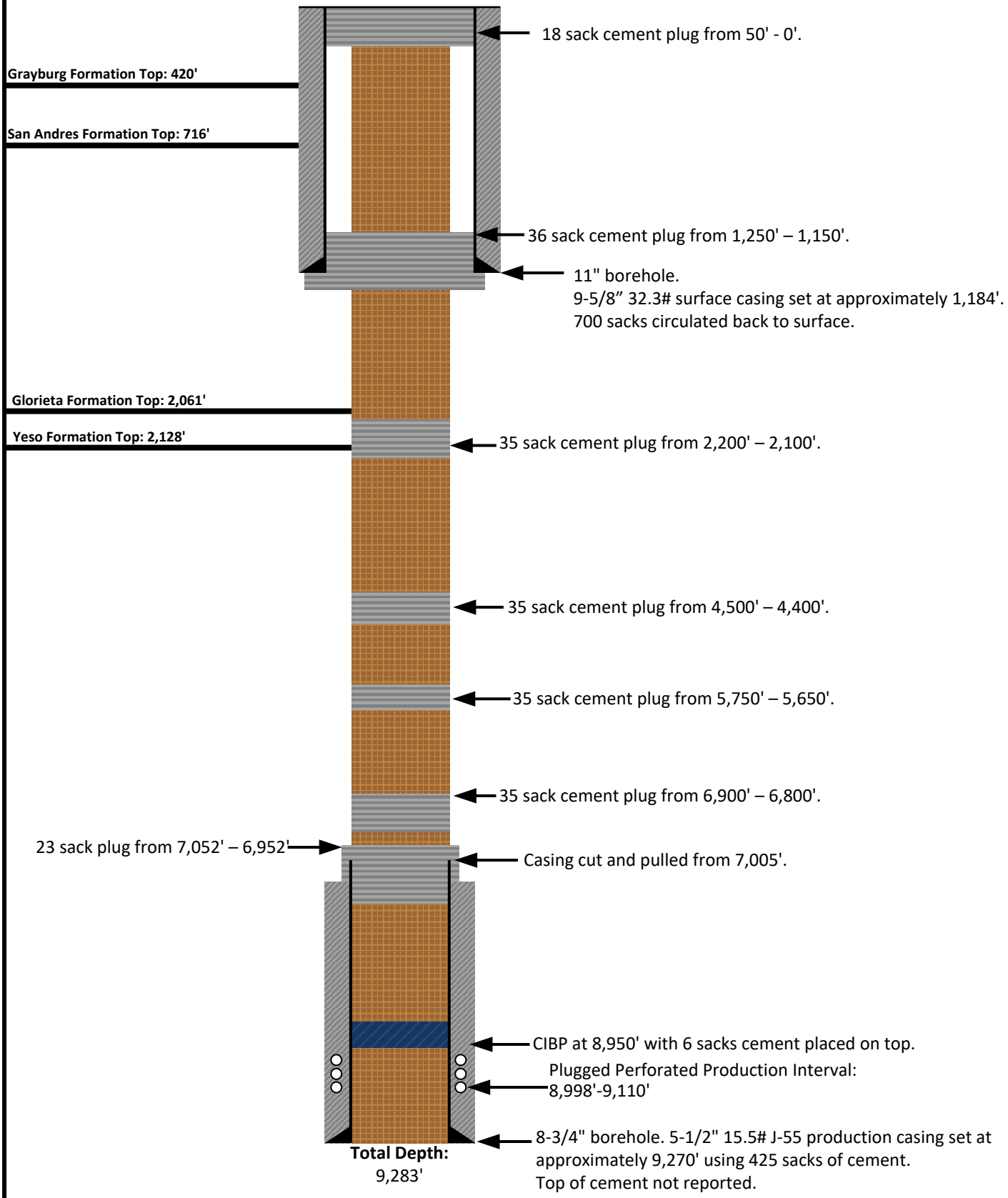
3-1/2" (9.3# J-55) production casing set at 2,450'
Unknown Amount of cement circulated to surface.
TOC verified by circulation.

Total Depth @ 2,450'

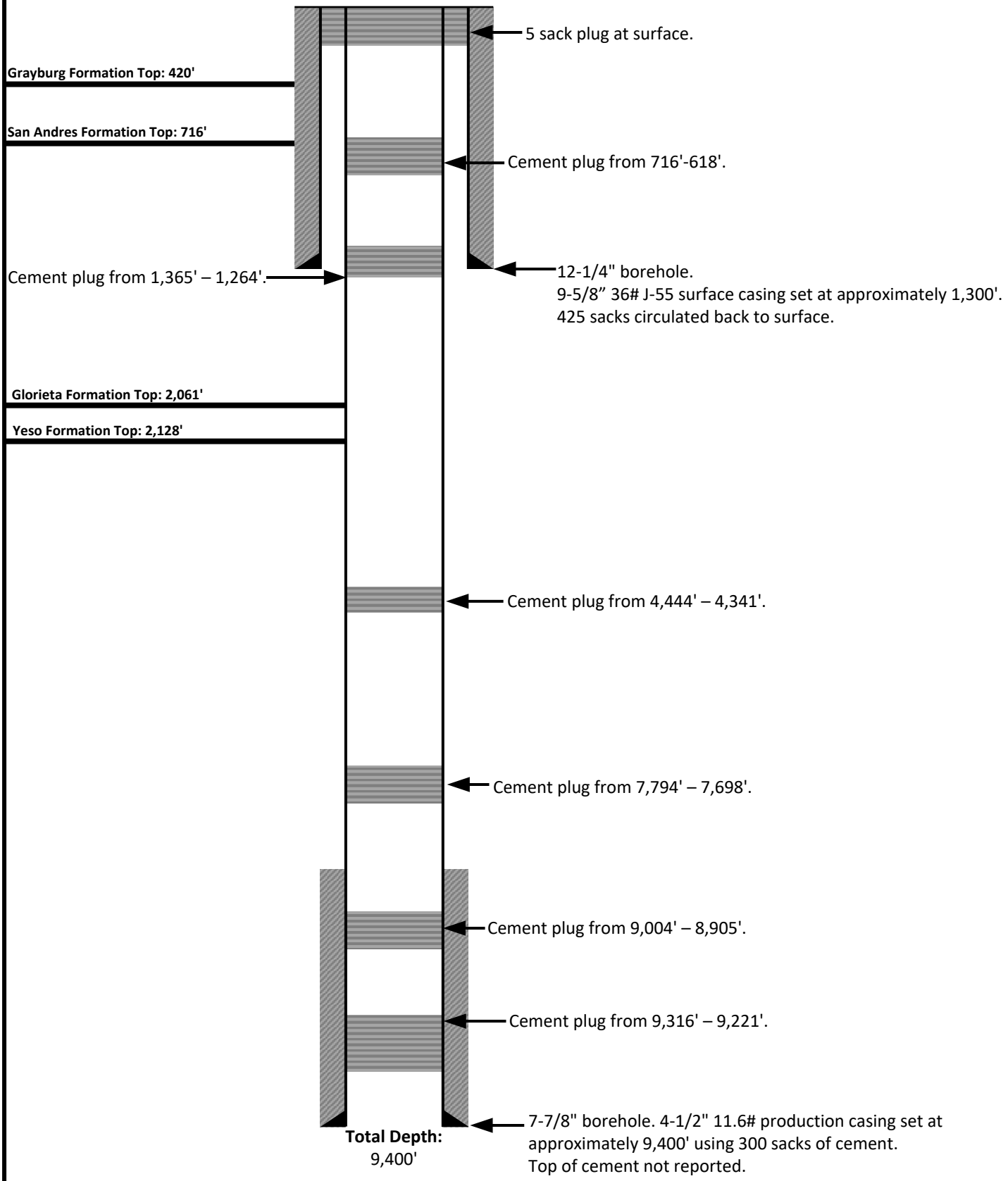
| | | |
|---|---|---|
| Prepared by: ALL CONSULTING<br>Prepared for: SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor, P.E.<br>Project Manager: Nathan Alleman<br>Date: 4/27/2023 | **Plugged and Abandoned Wellbore Diagram**<br>WILKINSON AZ #002<br>30-015-20137<br>990'FSL & 990'FWL<br>25-18S-25E<br>Eddy County, New Mexico |



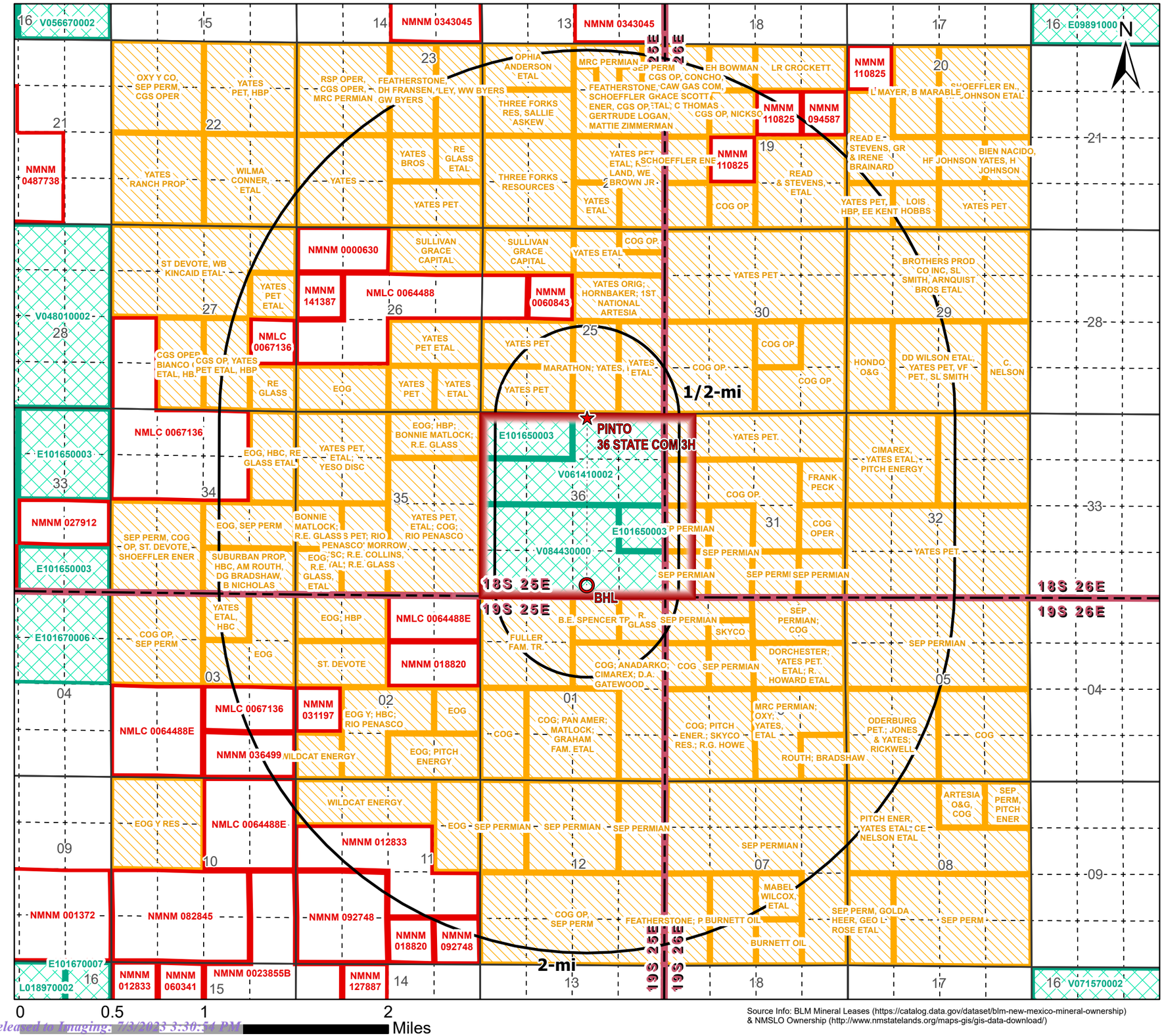

| | | |
|---|---|---|
| *Prepared by:* ALL CONSULTING *Prepared for:* SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor | **Plugged and Abandoned Wellbore Diagram** GERARD AW #002 30-015-10886 2310'FSL & 1650'FEL 25-18S-25E Eddy County, New Mexico Spud Date: 11/12/1966 Plugged and Abandoned: 05/09/2002 |
| | Project Manager: Dan Arthur | |
| | Date: 6/6/2023 | |




| | | |
|---|---|---|
| Prepared by: ALL CONSULTING<br>Prepared for: SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor<br>Project Manager: Dan Arthur<br>Date: 6/6/2023 | **Plugged and Abandoned Wellbore Diagram**<br>Eddy State "AC" #1<br>30-015-00107<br>1980'FSL & 660'FWL 36-18S-25E<br>Eddy County, New Mexico<br>Spud Date: 12/28/1958<br>Plugged and Abandoned: 4/10/1964 |




| | | |
|---|---|---|
| *Prepared by:* ALL CONSULTING *Prepared for:* SPUR ENERGY PARTNERS | Drawn by: Joshua Ticknor | **Plugged and Abandoned Wellbore Diagram** |
| | Project Manager: Dan Arthur | Kincaid #1 |
| | Date: 6/6/2023 | 30-015-10561<br>990'FSL & 1980'FEL 36-18S-25E<br>Eddy County, New Mexico<br>Spud Date: 04/30/1965<br>Plugged and Abandoned: 06/09/1965 |




## Legend

- PINTO 36 STATE COM 3H SHL (1)
- PINTO 36 STATE COM 3H BHL (1)
- NMSLO Mineral Lessees
- BLM Mineral Lessees
- Private Mineral Lessees
- Project Area (1)

**Affected Parties within 1/2-mile**

**NMOCD O&G Well Operators:**
- Spur Energy Partners
- Frontier Field Services

**NMSLO Lessees:**
- Silverback New Mexico, LLC
- Chase Oil Corporation

**Private Lessees:**
- Yates Petroleum
- Marathon
- COG Operating
- SEP Permian

**Private M.I. Owners**
- Fuller Family Trust
- B.E. Spencer Trust
- R. Glass

**Note:** This mineral lease map represents the consolidation of lease data to the best of ALL Consulting's knowledge at the time of this application obtained from NMOCD, NMSLO, BLM, and ownership/ lease map from Midland Maps (Enverus).

Source Info: BLM Mineral Leases (https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership) & NMSLO Ownership (http://www.nmstatelands.org/maps-gis/gis-data-download/)

# Mineral Lease Area of Review

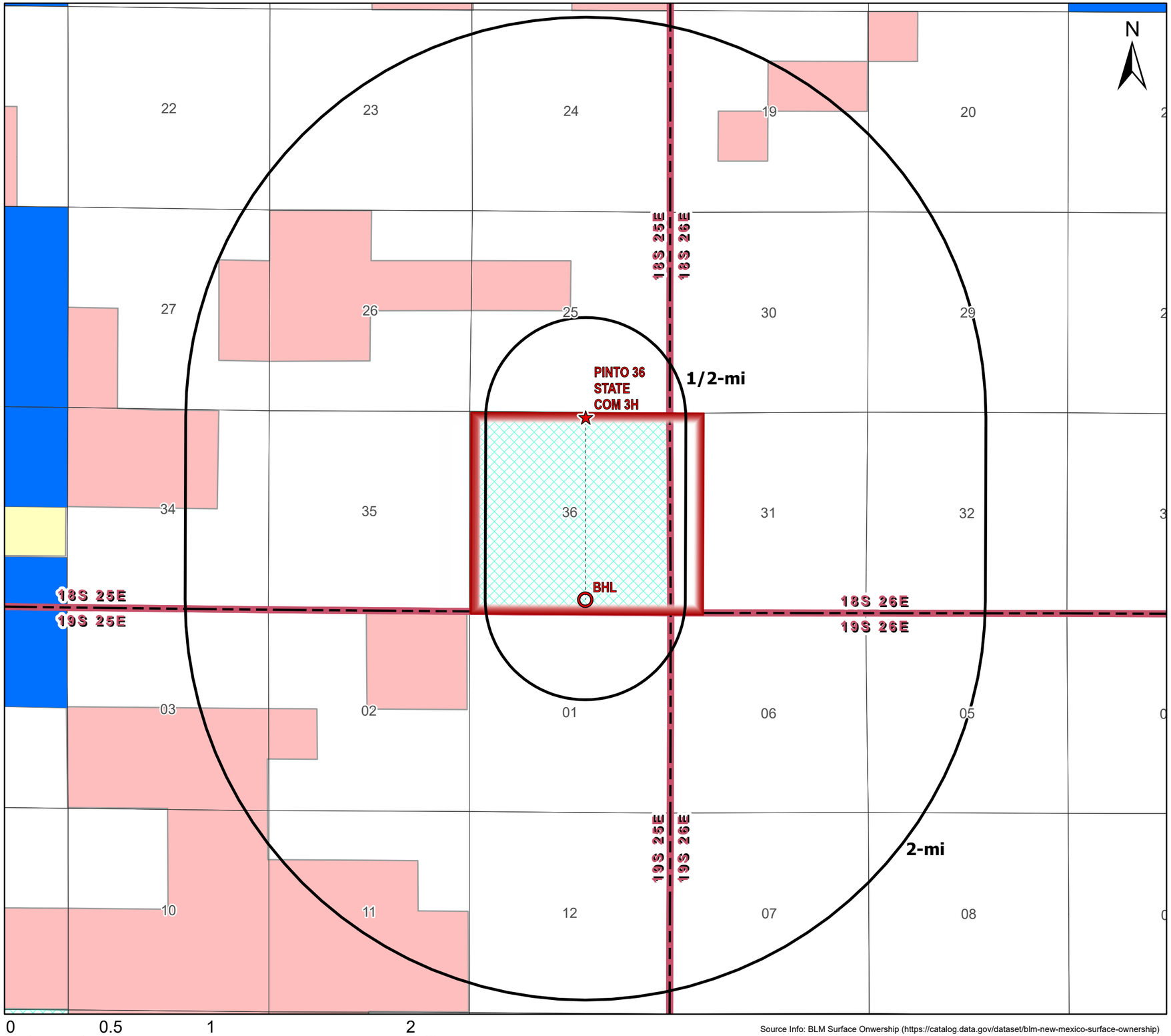
## PINTO 36 STATE COM #3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Nate Alleman | June 17, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

Prepared for: SPUR ENERGY PARTNERS

Prepared by: ALL CONSULTING




## Legend

- PINTO 36 STATE COM 3H SHL
- PINTO 36 STATE COM 3H BHL
- Project Area
- Private minerals
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)
- Only oil and gas are owned by the U.S.

Source Info: BLM Surface Onwership (https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership)

# Mineral Ownership
# Area of Review

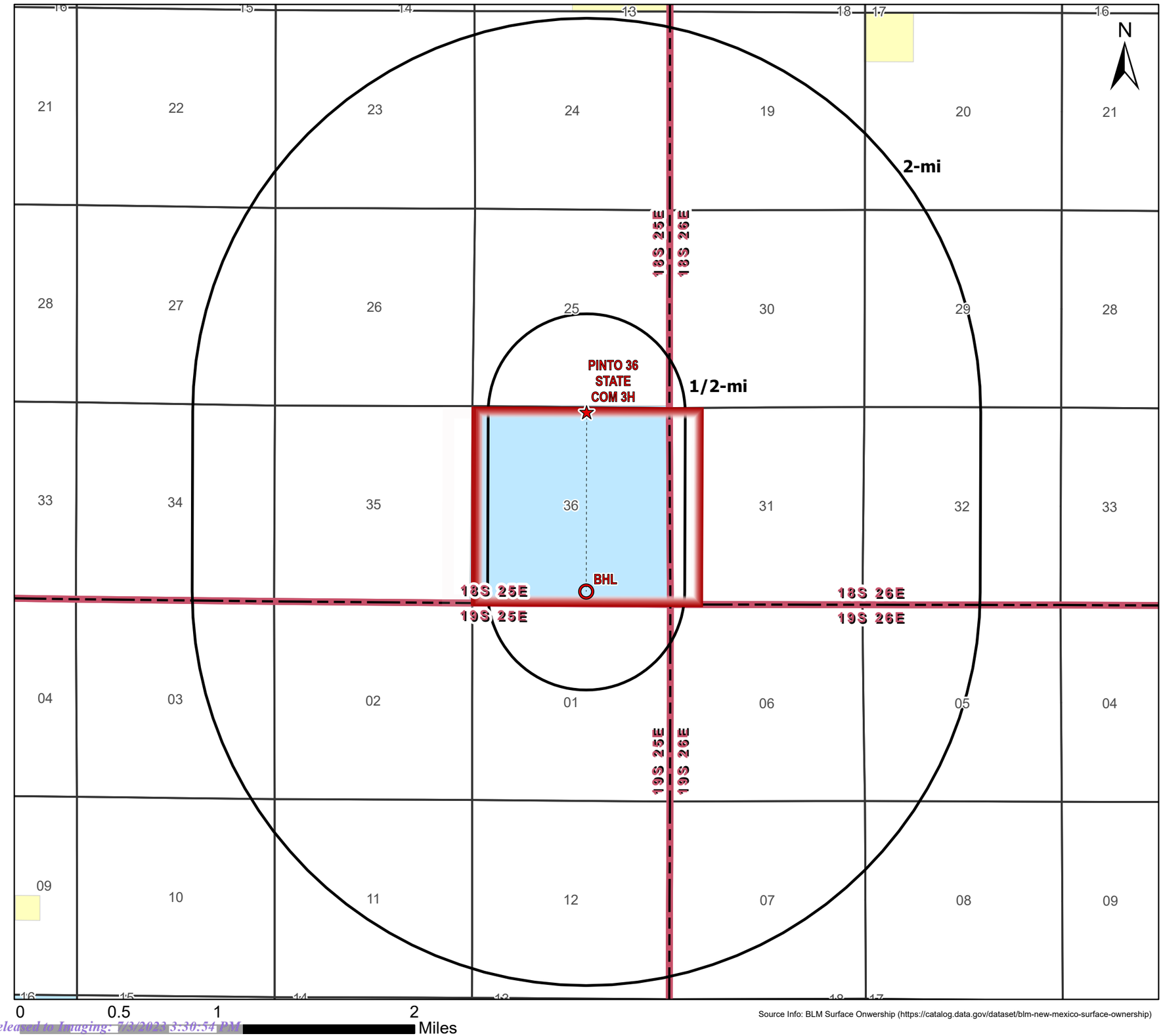
## PINTO 36 STATE COM #3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Dan Arthur | June 17, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

*Prepared for:* SPUR ENERGY PARTNERS

*Prepared by:* ALL CONSULTING




## Legend

- PINTO 36 STATE COM 3H SHL
- PINTO 36 STATE COM 3H BHL
- Project Area

### Surface Ownership

- BLM
- Private
- State

Source Info: BLM Surface Onwership (https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership)

# Surface Ownership
# Area of Review

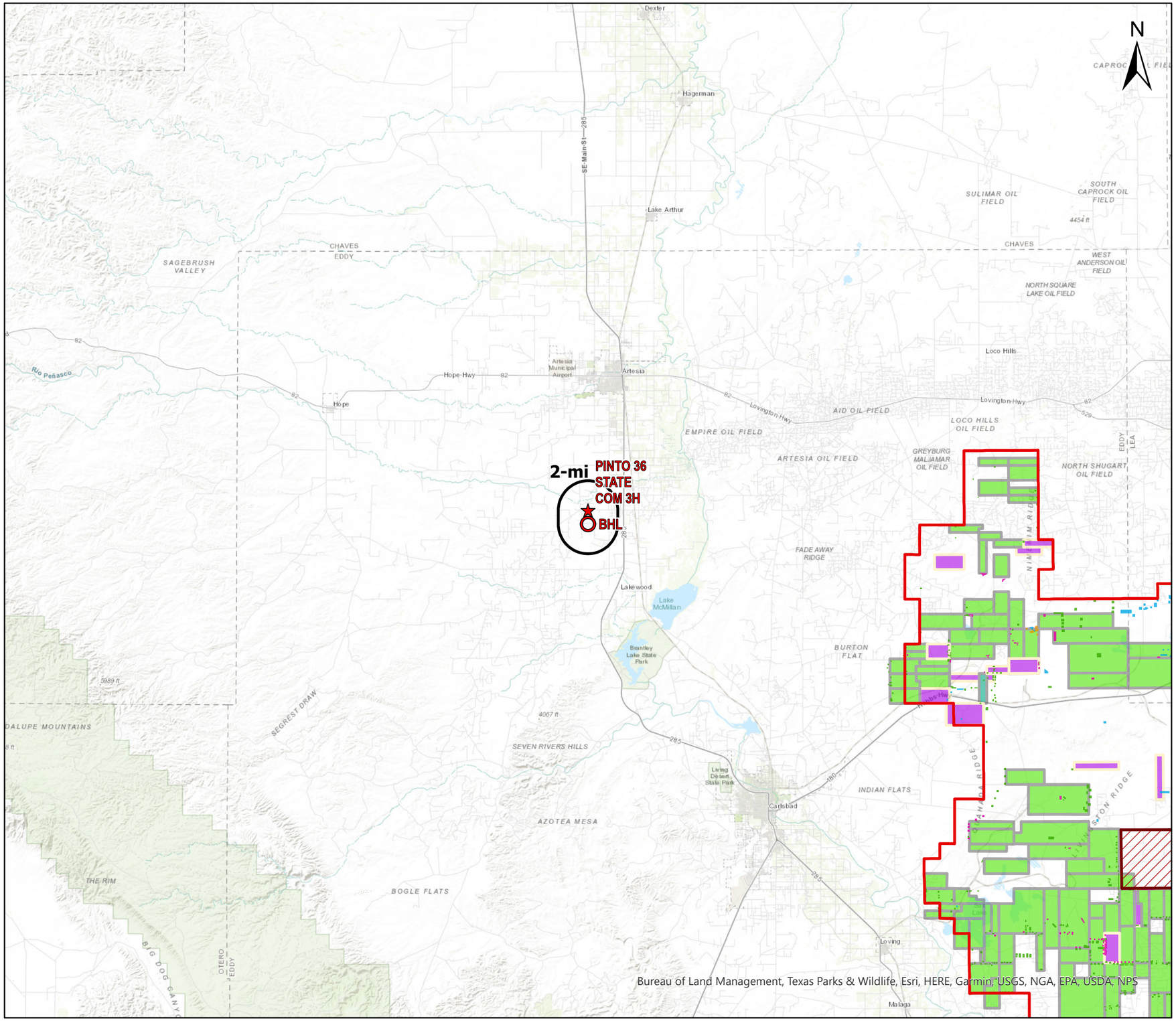
## PINTO 36 STATE COM #3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Dan Arthur | June 17, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

*Prepared for:* SPUR ENERGY PARTNERS

*Prepared by:* ALL CONSULTING




## Legend

- PINTO 36 STATE COM 3H SHL
- PINTO 36 STATE COM 3H BHL
- SOPA 1986 (1)
- WIPP Facility (1)

### Drill Islands

#### Status, Depth Buffer

- Approved, Half Mile (212)
- Approved, Quarter Mile (63)
- Nominated, Half Mile (28)
- Nominated, Quarter Mile (6)

### Development Areas

#### Status

- Approved (87)
- Pending (13)
- Pending NMOCD Order (1)

## Potash AOR

## PINTO 36 STATE COM 3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Dan Arthur | June 06, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

*Prepared for:* SPUR ENERGY PARTNERS

*Prepared by:* ALL CONSULTING

**Attachment 3**

Injectate Analyses

# GAS VOLUME STATEMENT

**December 2022**



Meter #: 74822013
Name: Pinto 36SC4HCTB Flare
Closed Data
Artesia-East

| | | | |
|---|---|---|---|
| **Pressure Base:** | 14.730 psia | **Meter Status:** | Active |
| **Temperature Base:** | 60.00 °F | **Contract Hr.:** | 8 AM |
| **Atmos Pressure:** | 12.890 psi | **Full Wellstream:** | |
| **Calc Method:** | AGA3-2013 | **WV Technique:** | |
| **Z Method:** | AGA-8 Detail (1992) | **WV Method:** | |
| **Tube I.D.:** | 2.0680 in | **HV Cond:** | |
| **Tap Location:** | Upstream | **Meter Type:** | EFM |
| **Tap Type:** | Flange | **Interval:** | 1 Hour |

| CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 |
|---|---|---|---|---|---|---|---|
| 2.278 | 1.672 | 64.281 | 16.351 | 7.721 | 1.045 | 2.409 | 0.587 |

| NC5 | neo | C6 | C7 | C8 | C9 | C10 |
|---|---|---|---|---|---|---|
| 0.542 | | 1.150 | 0.000 | 0.000 | 0.000 | 0.000 |

| Ar | CO | H2 | O2 | He | H2O | H2S | H2S ppm |
|---|---|---|---|---|---|---|---|
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.963 | |

| Day | Differential (In. H2O) | Pressure (psia) | Temp. (°F) | Flow Time (hrs) | Relative Density | Plate (inches) | Volume (Mcf) | Heating Value (Btu/scf) | Energy (MMBtu) | Edited |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.26 | 13.05 | 45.77 | 18.73 | 0.8321 | 1.2500 | 13.58 | 1359.10 | 18.45 | No |
| 2 | 0.26 | 13.12 | 57.20 | 22.31 | 0.8321 | 1.2500 | 16.21 | 1359.10 | 22.03 | No |
| 3 | 0.26 | 13.21 | 49.13 | 21.09 | 0.8321 | 1.2500 | 15.35 | 1359.10 | 20.86 | No |
| 4 | 0.26 | 13.04 | 55.49 | 22.06 | 0.8321 | 1.2500 | 15.92 | 1359.10 | 21.64 | No |
| 5 | 0.27 | 13.00 | 64.42 | 22.04 | 0.8321 | 1.2500 | 15.87 | 1359.10 | 21.56 | No |
| 6 | 0.26 | 13.05 | 61.53 | 22.77 | 0.8321 | 1.2500 | 16.43 | 1359.10 | 22.33 | No |
| 7 | 0.26 | 13.09 | 49.58 | 23.19 | 0.8321 | 1.2500 | 16.85 | 1359.10 | 22.91 | No |
| 8 | 0.26 | 13.13 | 56.63 | 22.51 | 0.8321 | 1.2500 | 16.38 | 1359.10 | 22.27 | No |
| 9 | 0.26 | 13.06 | 48.40 | 22.66 | 0.8321 | 1.2500 | 16.43 | 1359.10 | 22.33 | No |
| 10 | 0.26 | 13.10 | 52.65 | 20.42 | 0.8321 | 1.2500 | 14.85 | 1359.10 | 20.19 | No |
| 11 | 0.26 | 13.01 | 54.06 | 21.86 | 0.8321 | 1.2500 | 15.80 | 1359.10 | 21.48 | No |
| 12 | 0.26 | 12.92 | 53.43 | 23.02 | 0.8321 | 1.2500 | 16.63 | 1359.10 | 22.60 | No |
| 13 | 0.26 | 12.93 | 47.58 | 17.51 | 0.8321 | 1.2500 | 12.63 | 1359.10 | 17.17 | No |
| 14 | 0.26 | 12.98 | 46.63 | 15.94 | 0.8321 | 1.2500 | 11.53 | 1359.10 | 15.66 | No |
| 15 | 0.26 | 13.00 | 47.53 | 16.12 | 0.8321 | 1.2500 | 11.66 | 1359.10 | 15.84 | No |
| 16 | 0.26 | 13.07 | 43.01 | 14.78 | 0.8321 | 1.2500 | 10.78 | 1359.10 | 14.66 | No |
| 17 | 0.26 | 13.06 | 41.73 | 16.05 | 0.8321 | 1.2500 | 11.69 | 1359.10 | 15.89 | No |
| 18 | 0.26 | 13.03 | 41.40 | 14.53 | 0.8321 | 1.2500 | 10.56 | 1359.10 | 14.35 | No |
| 19 | 0.26 | 13.12 | 52.27 | 15.99 | 0.8321 | 1.2500 | 11.63 | 1359.10 | 15.80 | No |
| 20 | 0.26 | 13.15 | 45.22 | 15.26 | 0.8321 | 1.2500 | 11.08 | 1359.10 | 15.06 | No |
| 21 | 0.26 | 12.99 | 44.98 | 20.12 | 0.8321 | 1.2500 | 14.62 | 1359.10 | 19.88 | No |
| 22 | 0.26 | 13.16 | 30.73 | 4.38 | 0.8321 | 1.2500 | 3.22 | 1359.10 | 4.37 | No |
| 23 | 0.26 | 13.25 | 23.45 | 6.52 | 0.8321 | 1.2500 | 4.87 | 1359.10 | 6.62 | No |
| 24 | 0.26 | 13.18 | 31.62 | 12.79 | 0.8321 | 1.2500 | 9.48 | 1359.10 | 12.89 | No |
| 25 | 0.26 | 13.10 | 43.14 | 17.05 | 0.8321 | 1.2500 | 12.41 | 1359.10 | 16.87 | No |
| 26 | 0.26 | 13.18 | 48.98 | 17.22 | 0.8321 | 1.2500 | 12.53 | 1359.10 | 17.03 | No |
| 27 | 0.26 | 12.95 | 57.56 | 21.22 | 0.8321 | 1.2500 | 15.29 | 1359.10 | 20.78 | No |
| 28 | 0.26 | 12.94 | 54.55 | 22.25 | 0.8321 | 1.2500 | 16.00 | 1359.10 | 21.75 | No |
| 29 | 0.26 | 13.03 | 50.68 | 20.76 | 0.8321 | 1.2500 | 15.00 | 1359.10 | 20.39 | No |
| 30 | 0.26 | 13.00 | 51.13 | 21.73 | 0.8321 | 1.2500 | 15.68 | 1359.10 | 21.31 | No |
| 31 | 0.26 | 12.96 | 60.19 | 22.84 | 0.8321 | 1.2500 | 16.43 | 1359.10 | 22.34 | No |
| **Total** | 0.26 | 13.05 | 50.59 | 575.73 | 0.8321 | | 417.40 | | 567.29 | |

**Attachment 4**

Water Well Map and Well Data


## Legend

- PINTO 36 STATE COM 3H SHL
- PINTO 36 STATE COM 3H BHL
- Project Area (1)

### OSE PODs

#### Status

- Active (21)
- Pending (6)
- Unknown (19)

*Source Info: NM Office of the State Engineer downloaded on 3/10/2023. (https://geospatialdata-ose.opendata.arcgis.com/)*

# Water Wells Area of Review

## PINTO 36 STATE COM #3H

EDDY COUNTY, NEW MEXICO

| Proj Mgr: Dan Arthur | June 17, 2023 | Mapped by: Ben Bockelmann |
|---|---|---|

*Prepared for:* SPUR ENERGY PARTNERS

*Prepared by:* ALL CONSULTING

| Water Well Sampling Rationale | | | | | |
|---|---|---|---|---|---|
| Spur Energy Partners LLC - Pinto 36 State Com 3H | | | | | |
| **Water Wells** | **Owner** | **Available Contact Information** | **Use** | **Sampling Required** | **Notes** |
| RA 05344 | Lucid Artesia Company | Kerry Egan<br>Phone: 575-810-6021<br>Address: 201 S 4th St.<br>Artesia, NM 88210 | Commercial | NO | Two water wells within 1-mile have already been sampled. |
| RA 05344 (1) | Lucid Artesia Company | Kerry Egan<br>Phone: 575-810-6021<br>Address: 201 S 4th St.<br>Artesia, NM 88210 | Commercial | No | Two water wells within 1-mile have already been sampled. |
| RA 05344 (2) | Lucid Artesia Company | Kerry Egan<br>Phone: 575-810-6021<br>Address: 201 S 4th St.<br>Artesia, NM 88210 | Commercial | No | Two water wells within 1-mile have already been sampled. |
| RA 13170 POD1 | Sylvia Vasquez | 806 N. Roselawn Ave<br>Artesia, NM 88210<br>Home: 575-746-6120<br>Work: 575-703-5661<br>Email: sylviavasquez63@yahoo.com | Domestice and Livestock Watering | No | Two water wells within 1-mile have already been sampled. |
| RA 03975 | New Mexico State Land Office | David Dean Wilson<br>Phone: 575-308-1128<br>& 575-746-3795<br>80 West Kincaid Ranch Rd.<br>Artesia, NM 88210 | Livestock Watering | No | Two water wells within 1-mile have already been sampled. |
| RA 07952 | Ralph Schafer | 80 West Kincaid Ranch Rd.<br>Artesia, NM 88210 | Livestock Watering | No | Two water wells within 1-mile have already been sampled. |
| RA 12548 POD1 | Remuda Energy Transportation | Kevin Grinder<br>Phone: 575-746-0320<br>200 W. Illinois, Suite 200<br>Midland, TX 79701 | Sanitary in conjection with a commercial use | No | Two water wells within 1-mile have already been sampled. |
| RA 05233 | Agave Energy Company | 326 West Quay St.<br>Artesia, NM 88210 | Industrial | Yes | Sampling analysis included |
| RA 08999 | Efren Baeza | 314 N. 14th<br>Artesia, NM 88210 | Domestic One Household | Yes | Sampling analysis included |
| RA 13120 POD1 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13120 POD2 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13120 POD3 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13120 POD4 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13120 POD5 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13120 POD6 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13121 POD1 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13121 POD2 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13121 POD3 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA 13121 POD4 | EOG Resources, Inc. | Chase Settle<br>Phone: 575-703-6537<br>105 S. 4th St.<br>Artesia, NM 88210 | Monitoring Well | No | Well was drilled for environmental soil borings. Permit was required in case water was encountered. Well was set to be plugged after 72 hrs. |
| RA-03983 | Great Western Drilling Co | P.O. Box 1659<br>Midlad, TX 79702 | OBS | No | Two water wells within 1-mile have already been sampled. |

# Water Sampling Results:

## RA-08999

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| PERCUSSION PETROLEUM<br>919 MILAM , STE 2475<br>HOUSTON TX, 77002 | Project: FRESH WATER WELLS<br>Project Number: SLEEPY SWD<br>Project Manager: JERRY MATHEWS<br>Fax To: | Reported:<br>30-Jul-18 09:59 |

**RA - 08999**

**H802031-02 (Water)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **TDS*** | **726** | | 5.00 | mg/L | 1 | 8072312 | AC | 30-Jul-18 | 160.1 | |

Cardinal Laboratories

*=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| PERCUSSION PETROLEUM<br>919 MILAM , STE 2475<br>HOUSTON TX, 77002 | Project: FRESH WATER WELLS<br>Project Number: NONE GIVEN<br>Project Manager: JERRY MATHEWS<br>Fax To: | Reported:<br>30-Jul-18 09:59 |
|---|---|---|

### Inorganic Compounds - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8072312 - Filtration** | | | | | | | | | | |
| **Blank (8072312-BLK1)** | | | | Prepared: 23-Jul-18 Analyzed: 24-Jul-18 | | | | | | |
| TDS | ND | 5.00 | mg/L | | | | | | | |
| **LCS (8072312-BS1)** | | | | Prepared: 23-Jul-18 Analyzed: 24-Jul-18 | | | | | | |
| TDS | 536 | 5.00 | mg/L | 527 | | 102 | 80-120 | | | |
| **Duplicate (8072312-DUP1)** | **Source: H801976-03** | | | Prepared: 23-Jul-18 Analyzed: 24-Jul-18 | | | | | | |
| TDS | 932 | 5.00 | mg/L | | 924 | | | 0.862 | 20 | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

# Water Sampling Results:

## RA-05233

ATTACHMENT C
Page 1

PETROLITE

**TRETOLITE** DIVISION

Petrolite Corporation
422 West Main Street
Artesia, NM 88210-2041

(505) 746-3588
Fax (505) 746-3580

Reply to:
P.O. Box 1140
Artesia, NM
88211-7531

## WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : QUEEN
Well : WATER WELL
Sample Pt. : UNKNOWN

Date : 02/23/96
Date Sampled : 02/22/96
Analysis No. : 0226

| | ANALYSIS | | mg/L | * meq/L | | |
|---|---|---|---|---|---|---|
| 1. | pH | 7.3 | | | | |
| 2. | H2S | 0 PPM | | | | |
| 3. | Specific Gravity | 1.005 | | | | |
| 4. | Total Dissolved Solids | | 1039.3 | | | |
| 5. | Suspended Solids | | NR | | | |
| 6. | Dissolved Oxygen | | NR | | | |
| 7. | Dissolved CO2 | | NR | | | |
| 8. | Oil In Water | | NR | | | |
| 9. | Phenolphthalein Alkalinity (CaCO3) | | | | | |
| 10. | Methyl Orange Alkalinity (CaCO3) | | | | | |
| 11. | Bicarbonate | HCO3 | 195.0 | HCO3 | 3.2 | |
| 12. | Chloride | Cl | 149.0 | Cl | 4.2 | |
| 13. | Sulfate | SO4 | 400.0 | SO4 | 8.3 | |
| 14. | Calcium | Ca | 146.0 | Ca | 7.3 | |
| 15. | Magnesium | Mg | 51.1 | Mg | 4.2 | |
| 16. | Sodium (calculated) | Na | 97.5 | Na | 4.2 | |
| 17. | Iron | Fe | 0.8 | | | |
| 18. | Barium | Ba | 0.0 | | | |
| 19. | Strontium | Sr | 0.0 | | | |
| 20. | Total Hardness (CaCO3) | | 575.0 | | | |

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

| | | |
|---|---|---|
| 7 | *Ca <----- *HCO3 | 3 |
| | /-------> | |
| 4 | *Mg -----> *SO4 | 8 |
| | <---------/ | |
| 4 | *Na -----> *Cl | 4 |

| Compound | Equiv wt | X meq/L | = mg/L |
|---|---|---|---|
| Ca(HCO3)2 | 81.0 | 3.2 | 259 |
| CaSO4 | 68.1 | 4.1 | 278 |
| CaCl2 | 55.5 | | |
| Mg(HCO3)2 | 73.2 | | |
| MgSO4 | 60.2 | 4.2 | 253 |
| MgCl2 | 47.6 | | |
| NaHCO3 | 84.0 | | |
| Na2SO4 | 71.0 | 0.0 | 3 |
| NaCl | 58.4 | 4.2 | 246 |

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

REMARKS:
ANDY MILLER

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SHAWNA MATTHEWS

PETROLITE



# SCALE TENDENCY REPORT

| | | | |
|---|---|---|---|
| Company | : YATES PETROLEUM | Date | : 02/23/96 |
| Address | : ARTESIA, NM | Date Sampled | : 02/22/96 |
| Lease | : QUEEN | Analysis No. | : 0226 |
| Well | : WATER WELL | Analyst | : SHAWNA MATTHEWS |
| Sample Pt. | : UNKNOWN | | |

## STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

| | | | | | |
|---|---|---|---|---|---|
| S.I. = | 0.1 | at | 60 deg. F or | 16 | deg. C |
| S.I. = | 0.2 | at | 80 deg. F or | 27 | deg. C |
| S.I. = | 0.2 | at | 100 deg. F or | 38 | deg. C |
| S.I. = | 0.3 | at | 120 deg. F or | 49 | deg. C |
| S.I. = | 0.4 | at | 140 deg. F or | 60 | deg. C |

**********

## CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

| | | | | | |
|---|---|---|---|---|---|
| S = | 1212 | at | 60 deg. F or | 16 | deg C |
| S = | 1227 | at | 80 deg. F or | 27 | deg C |
| S = | 1216 | at | 100 deg. F or | 38 | deg C |
| S = | 1207 | at | 120 deg. F or | 49 | deg C |
| S = | 1198 | at | 140 deg. F or | 60 | deg C |

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SHAWNA MATTHEWS

**Attachment** 5

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Spur Energy Partners LLC, 9655 Katy Freeway Suite 500, Houston, TX 77024, is filing an application with the New Mexico Oil Conservation Division to inject gas into the Pinto 36 State Com #003H well for the purpose of reservoir pressure maintenance.

WELL NAME AND LOCATION: Pinto 36 State Com #003H
Located 9.4 miles southwest of Artesia, NM
NW ¼ NE ¼, Section 36, Township 18S, Range 25E
150' FNL & 2,260' FEL
Eddy County, NM

NAME AND DEPTH OF INJECTION ZONE : Paddock Member of the Yeso Formation (2,311' – 2,673')
EXPECTED MAXIMUM INJECTION RATE: 10 MMCF/day
EXPECTED MAXIMUM INJECTION PRESSURE: 670 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

Carlsbad Current Argus.
PART OF THE USA TODAY NETWORK

## Affidavit of Publication

Ad # 0005671702

This is not an invoice

ALL CONSULTING
1718 SOUTH CHEYENNE AVE

TULSA, OK 74119

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof in editions dated as follows:

**04/20/2023**

Legal Clerk

Subscribed and sworn before me this April 20, 2023:

State of WI, County of Brown
NOTARY PUBLIC

1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

Ad # 0005671702
PO #: 5671702
# of Affidavits 1

This is not an invoice

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Spur Energy Partners LLC, 9655 Katy Freeway Suite 500, Houston, TX 77024, is filing an application with the New Mexico Oil Conservation Division to inject gas into the Pinto 36 State Com #003H well for the purpose of reservoir pressure maintenance.

WELL NAME AND LOCATION: Pinto 36 State Com #003H
Located 9.4 miles southwest of Artesia, NM
NW ¼ NE ¼, Section 36, Township 18S, Range 25E
150' FNL & 2,260' FEL
Eddy County, NM

NAME AND DEPTH OF INJECTION ZONE:
Penasco Draw; Sa-Yeso (2,311' – 2,673')
EXPECTED MAXIMUM INJECTION RATE:
10 MMCF/day
EXPECTED MAXIMUM INJECTION PRESSURE:
462.2 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.
#5671702. Current Argus, April 20, 2023

| Pinto 36 State Com #3H- Notice of Application Recipients | | | | |
|---|---|---|---|---|
| **Entity** | **Address** | **City** | **State** | **Zip Code** |
| **Land & Mineral Owner** | | | | |
| Commission of Public Lands - State Land Office | 310 Old Santa Fe Trail | Santa Fe | NM | 87501 |
| **OCD District** | | | | |
| NMOCD District 2 | 506 W. Texas | Artesia | NM | 88210 |
| **Leasehold Operators** | | | | |
| Alison Claire Curry Saunders<br>(R. Glass) | P.O. Box 50327 | Austin | TX | 78763-0327 |
| Alfred Foy Curry, IV<br>(R. Glass) | 1016 Alta Loma Circle | San Angelo | TX | 76901 |
| Ballard E. Spencer Trust, Inc<br>First National Bank of Artesia<br>C/o Trust Department<br>(B.E. Spencer TR) | P.O. drawer AA | Artesia | NM | 88211 |
| Big Surprise LLC<br>(R. Glass) | P.O. Box 22205 | Santa Fe | NM | 87502 |
| Chase Oil Corporation<br>(CHASE OIL CORPORATION) | P.O. Box 1767 | Artesia | NM | 88211 |
| COG Operating LLC<br>(COG OP) | 600 W. Illinois Ave | Midland | TX | 79701 |
| Frontier Field Services, LLC<br>(FRONTIER FIELD SERVICES, LLC) | 10077 Grogans Mill Rd. Suite 300 | The Woodlands | TX | 77380 |
| Fuller Family Trust<br>Donald & Nancy D Fuller, Co-TTees<br>(Fuller Fam Tr.) | P.O. Box 2905 | Granite Bay | Ca | 95746 |
| Lapaguera LLC<br>(R. Glass) | 1501 West 6th St. A2 | Austin | TX | 78703 |
| Lou Ann Langford<br>(R. Glass) | 606 Winsford Road | Bryn Mawr | PA | 19010 |
| Marathon Oil Co.<br>(MARATHON) | P.O. Box 552 | Midland | TX | 79701 |
| Robert Glass Langford<br>(R. Glass) | 1173 Isidora Trail | Lockhart | TX | 78644 |
| Silverback Operating II, LLC<br>(SILVERBACK NEW MEXICO LLC) | 19707 IH10 West, Suite 201 | San Antonio | TX | 78256 |
| SEP Permian LLC<br>(SEP Permian) | 9655 Katy Freeway Suite 500 | Houston | TX | 77024 |
| Yates Petroleum Corporation<br>(YATES PET, YATES ETAL) | 105 South fourth | Artesia | NM | 88210 |

**Notes:**

-The table above shows the Entities who were identified as parties of interest requiring notification on either the 1/2-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).

- R. Glass (Roy E. Glass) has been deceased since February of 1990. As such his decedents who inherited his mineral interest have been notified.