

**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”) (OGRID No. 328947), 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 portions of Sections 14, 15, 22, and 23, all in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico. In support of its application, Spur states:

1. Spur seeks approval to inject produced gas into the **Skelly Unit #998 well** (API No. 30-015-36681) at a total vertical depth of approximately 5,042 feet to approximately 6,360 feet.
2. Spur anticipates injection through this well will provide pressure maintenance support for the offsetting wells identified in **Exhibit A**, which are operated by Spur and drilled and completed in the in the Fren; Glorieta-Yeso Pool (Pool Code 26770).
3. The interval that will benefit from the proposed pressure maintenance constitutes the Paddock and Blinebry members of the Yeso formation, being the stratigraphic equivalent of 5,021 feet to the top of the Tubb at approximately 6,545 feet as identified in the Skelly Unit #979 well (API No. 30-015-38342).
4. Spur seeks authority to inject produced gas into the Fren; Glorieta-Yeso Pool (Pool Code 26770) at a maximum surface injection pressure of 1,527 psi with an average surface

injection pressure of approximately 993 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.

5. The source of produced gas will be from offsetting wells producing from the Glorieta-Yeso Pool.

6. The project area for this pressure maintenance injection project will comprise the following acreage in Eddy County:

Township 17 South, Range 31 East, NMPM

Section 14: W/2 SW/4

Section 15: S/2 N/2, S/2

Section 22: N/2

Section 23: NW/4 NW/4

7. A copy of the Form C-108 for this injection project is provided with this application as **Exhibit B**.

8. 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.

9. 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 November 2, 2023, and, after notice and hearing as required by law, the Division approve this application.

Respectfully submitted,

HOLLAND & HART LLP

By: 

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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 portions of Sections 14, 15, 22, and 23, all in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico. Produced gas will be injected into the Fren; Glorieta-Yeso Pool (Pool Code 26770) through the **Skelly Unit #998 well** (API No. 30-015-36681) at a total vertical depth of approximately 5,042 feet to approximately 6,360 feet. The interval that will benefit from the proposed pressure maintenance constitutes the Paddock and Blinebry members of the Yeso formation, being the stratigraphic equivalent of 5,021 feet to the top of the Tubb at approximately 6,545 feet as identified in the Skelly Unit #979 well (API No. 30-015-38342). The project area for this pressure maintenance injection project will comprise the following acreage in Eddy County:

Township 17 South, Range 31 East, NMPM

Section 14: W/2 SW/4

Section 15: S/2 N/2, S/2

Section 22: N/2

Section 23: NW/4 NW/4

Spur seeks approval to inject at a maximum surface injection pressure of 1,527 psi with an average surface injection pressure of approximately 993 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 Glorieta-Yeso Pool. The proposed project is located approximately 7 miles southwest of Loco Hills, New Mexico.

EXHIBIT A

Well Name	Well Number	API
Skelly Unit	944	30-015-32963
Skelly Unit	978	30-015-36062
Skelly Unit	964	30-015-34686
Skelly Unit	946	30-015-32965
Skelly Unit	828	30-015-38443
Skelly Unit	945	30-015-32964
Skelly Unit	941	30-015-32600
Skelly Unit	942	30-015-34645
Skelly Unit	963	30-015-34646
Skelly Unit	995	30-015-36473
Skelly Unit	968	30-015-35816
Skelly Unit	970	30-015-35817
Skelly Unit	967	30-015-35871
Skelly Unit	969	30-015-35867
Skelly Unit	966	30-015-35969
Skelly Unit	977	30-015-36061
Skelly Unit	604	30-015-36445
Skelly Unit	981	30-015-36516
Skelly Unit	603	30-015-36728
Skelly Unit	996	30-015-36729
Skelly Unit	637	30-015-37089
Skelly Unit	636	30-015-37090
Skelly Unit	632	30-015-36974
Skelly Unit	639	30-015-37083
Skelly Unit	827	30-015-38350
Skelly Unit	958	30-015-34318
Skelly Unit	847	30-015-40729
Skelly Unit	949	30-015-32968
Skelly Unit	943	30-015-32962
Skelly Unit	635	30-015-37657
Skelly Unit	849	30-015-37517
Skelly Unit	965	30-015-34647
Skelly Unit	947	30-015-32966
Skelly Unit	455H	30-015-43832
Skelly Unit	959	30-015-34327
Skelly Unit	843	30-015-37985
Skelly Unit	980	30-015-36063
Skelly Unit	979	30-015-38342

EXHIBIT B

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: _____ 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

- 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


<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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.

 Print or Type Name

 Date



 Signature

 Phone Number

 e-mail Address

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 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 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: Oliver Seekins TITLE: Consultant

SIGNATURE:  DATE: 9.29.2023

E-MAIL ADDRESS: Oseekins@ALL-I.L.C.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: Skelly Unit #998

API: 30-015-36681

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: Skelly Unit #998 **Location**

Footage Calls: 1,140 FSL & 2,310 FEL

Legal Location: Unit Letter O, S15 T17S R31E

Ground Elevation: 3,853.5'

Proposed Injection Interval: 5,042' – 6,360'.

County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth (MD)	Sacks of Cement	Estimated TOC	Method Determined
Surface Casing	17.5"	13-3/8"	48 lb/ft	467'	475	Surface	Circulation
Intermediate Casing	11"	8-5/8"	32 lb/ft	1,836'	700	Surface	Circulation
Production Casing	7-7/8"	5-1/2"	17 lb/ft	6,593'	1,050	Surface	Circulation
Tubing	N/A	2-7/8"	6.5 lb/ft	4,992'	N/A	N/A	N/A

(3) Tubing Information:

2-7/8" (6.5 lb/ft) J-55 IPC tubing with a setting depth of 4,992'

(4) Packer Information: D&L Oil Tools ASI-X Packer or equivalent packer set at 4,992'.

B.

(1) Injection Formation Name: Yeso Group

Pool Name: Fren; Glorieta-Yeso

Pool Code: 26770

(2) Injection Interval: Perforated injection between 5,042' – 6,360'

(3) Drilling Purpose: Recompletion for gas injection 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.

- Yates (1,779')
- Queen (2,720')
- San Andres (3,464')

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

- Wolfcamp (8,412')
- Morrow (11,553')

Application for Authorization to
Inject **Well Name:** Skelly Unit #998
API: 30-015-36681

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 74 wells within the 1/2-mile AOR, including 38 wells that penetrate the proposed injection zone. Each of these penetrating wells has been properly cased and cemented to isolate the injection zone. Construction details for each of the wells within the 1/2-mile AOR 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:** 1,527 psi (surface)
Proposed Average Injection Pressure: approximately 993 psi (surface)
- (4) **Source Injectate Analysis:** It is expected that the injectate will consist of gas produced from the Glorieta-Yeso Pool and re-injected into the same formations for the purposes of pressure maintenance **Attachment 3**.

VIII – Geologic Description

The proposed injection interval includes the Yeso Group from 5,042' – 6,360' feet. The Yeso Group consists predominantly of dolomites and anhydritic dolomites, with some siltstones. This unit is 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 at the base of the Rustler Formation at 436 feet. Water well depths in the area range from approximately 55 – 240 feet below the ground surface.

A structural cross-section and details of the proposed injection formation(s) within the project area are included in **Attachment 4**.

Application for Authorization to Inject

Well Name: Skelly Unit #998

API: 30-015-36681

IX – Proposed & Previous Stimulation Program

This well was previously stimulated during its initial completion as a production well. Spur does not plan to restimulate the Skelly Unit #998.

X – Logging and Test Data

Spur does not currently intend to run any additional logs.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, 1 groundwater well is located within 1 mile of the proposed SWD location. However, a review of the NMOSE data and conversations with the owner confirmed that LWD 03233 is a declaration of a livestock watering tank or Dam and does not represent the presence of an active freshwater well.

A water well map and details of water wells records within one (1) mile are included in **Attachment 5**.

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.

A signed No Hydrologic Connection Statement has been included as **Attachment 6**.

XIII – List of Notice Recipients

A table listing the identified parties requiring notice of this Authorization to Inject application, including the land surface owner, any lease-held operators and any other affected persons are included as **Attachment 7**.

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: Structural Cross Section & Injection Formation Details

Attachment 5: Water Well Map and Well Data

Attachment 6: Signed No Hydrologic Connection Statement

Attachment 7: List of Notice Recipients

Attachment 1

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

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

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 36681	Pool Code 26770	Pool Name FRFN; GLORIETA-YESO
Property Code 305607	Property Name SKELLY UNIT	Well Number 998
OGRID No. 229137	Operator Name COG OPERATING LLC.	Elevation 3853.5'

Surface Location

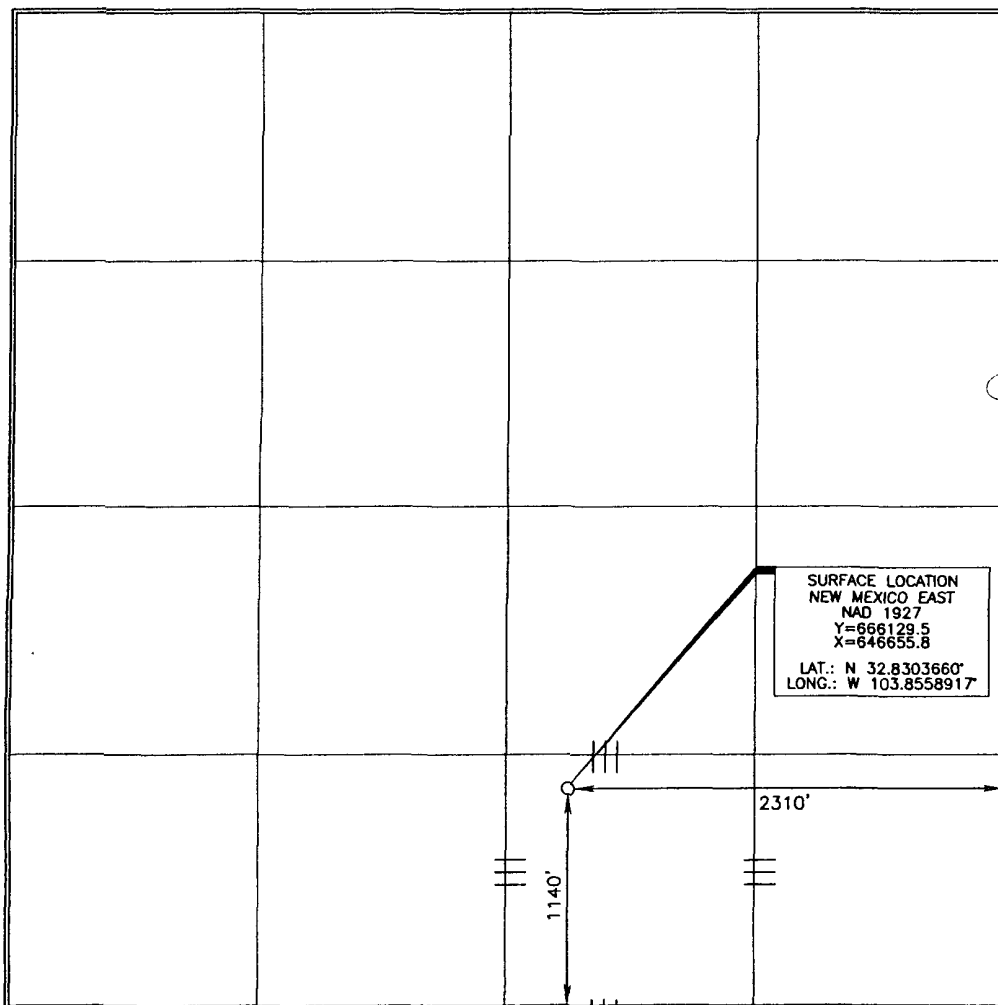
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	15	17 SOUTH	31 EAST, N.M.P.M.		1140'	SOUTH	2310'	EAST	EDDY

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

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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.



OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Phyllis A. Edwards 6-27-08
Signature Date

Phyllis A. Edwards
Printed Name Regulatory Analyst

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.

DATE 12, 2008
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Abel 6/14/2008
Certificate Number 15079

WO# 080512WL-a (KA)

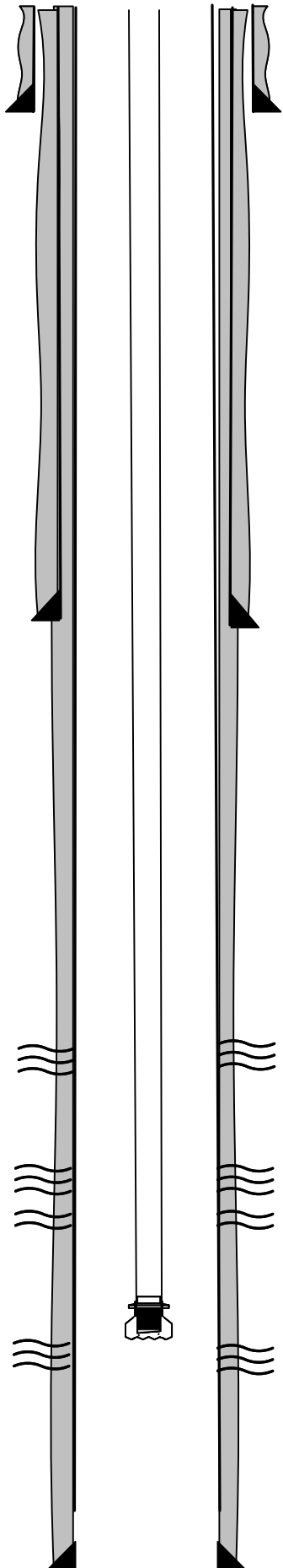
Eddy County, NM
API# 30-015-36681

HOLE SIZE: 17-1/2"
13-3/8" 48# H-40 @467'
CMT WITH 475 SX CL C + 2%
CACL2, CIRC 94 SX TO SURFACE

HOLE SIZE: 11"
8-5/8" 32# J-55 Csg @ 1,836'
CMT W/ 500 SX C + 2% CACL2
LEAD AND 200 SX C + 2% CACL2
TAIL, CIRC 252 SX TO SURFACE

HOLE SIZE: 7-7/8"
5-1/2" 17# J-55 Csg @ 6,593'
CMT W/ 650 SX C + 2% CACL2 LEAD
AND 400 SX C + 2% CACL2 TAIL,
CIRC 95 SX TO SURFACE

CURRENT WBD



Formation	Top
YATES	1779
QUEEN	2720
SAN ANDRES	3464
GLORIETA	4972
YESO	5016

TUBING DETAIL (3/3/2009)
203 JTS 2-7/8" J55 TBG, SN @ 6,100'
2-1/4" x 24 x 28 RHTC PUMP
*NO WV OR OCD WORKOVER REPORTS. COULD ONLY
FIND INTIAL PROD. SET UP.

YESO PERFS (5042' - 6360')
PADDOCK: 5,042-5180' FRAC W 2668 BBLS GEL, 136,289#
16/30 SAND AND ACIDIZED W 80 BBLS ACID;
5,610'-5,810' FRAC W 2995 BBLS GEL, 163,482# 16/30
SAND AND ACIDIZED W 596 BBLS ACID
BLINEBRY: 5,890'-6,090' FRAC W 2888 BBLS GEL AND
175,193# 16/30 SAND AND ACIDIZE W 59.9 BBLS ACID;
6,160'-6,360' FRAC W 2981 BBLS GEL, 173,927# 16/30
SAND

TD @ 6,593'
PBD @ 6,549'

MAR 17 2009

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No 1004-0137 Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well [X] Oil Well [] Gas Well [] Dry [] Other []
b. Type of Completion [X] New Well [] Work Over [] Deepen [] Plug Back [] Diff. Resvr []
2 Name of Operator COG OPERATING LLC Contact ROBYN ODOM E-Mail rodom@conchoresources.com
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701 3a Phone No (include area code) Ph. 432-685-4385
4 Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 15 T17S R31E Mer NMP At surface SWSE 1140FSL 2310FEL 32 84490 N Lat, 103.97108 W Lon
14. Date Spudded 01/22/2009 15. Date T D Reached 02/01/2009 16 Date Completed [] D & A [] 03/03/2009 [X] Ready to Prod
17. Elevations (DF, KB, RT, GL)* 3853 GL
18. Total Depth MD 6593 TVD 19 Plug Back T D MD 6549 TVD 20. Depth Bridge Plug Set: MD TVD
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATEDNEUT 22 Was well cored? [X] No [] Yes (Submit analysis) Was DST run? [X] No [] Yes (Submit analysis) Directional Survey? [] No [X] Yes (Submit analysis)

23 Casing and Liner Record (Report all strings set in well)
Table with columns: Hole Size, Size/Grade, Wt (#/ft), Top (MD), Bottom (MD), Stage Cementer Depth, No. of Skis & Type of Cement, Slurry Vol. (BBL), Cement Top*, Amount Pulled

24 Tubing Record
Table with columns: Size, Depth Set (MD), Packer Depth (MD)

25. Producing Intervals 26 Perforation Record
Table with columns: Formation, Top, Bottom, Perforated Interval, Size, No Holes, Perf. Status

27 Acid, Fracture, Treatment, Cement Squeeze, Etc
Table with columns: Depth Interval, Amount and Type of Material

28 Production - Interval A
Table with columns: Date First Produced, Test Date, Hours Tested, Test Production, Oil BBL, Gas MCF, Water BBL, Oil Gravity, Gas Gravity, Production Method

28a Production - Interval B
Table with columns: Date First Produced, Test Date, Hours Tested, Test Production, Oil BBL, Gas MCF, Water BBL, Oil Gravity, Gas Gravity, Production Method

(See Instructions and spaces for additional data on reverse side) ELECTRONIC SUBMISSION #67930 VERIFIED BY THE BLM WELL INFORMATION SYSTEM ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

ACCEPTED FOR RECORD
MAR 14 2009
ELECTRIC PUMPING UNIT
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

29 Disposition of Gas (Sold, used for fuel, vented, etc)
SOLD

30. Summary of Porous Zones (Include Aquifers).

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas. Depth
YATES	1779		DOLOMITE & SAND		
QUEEN	2720		SAND		
SAN ANDRES	3464		DOLOMITE & ANHYDRITE		
GLORIETA	4972		SAND & DOLOMITE		
YESO	5016		DOLOMITE & ANHYDRITE		

32 Additional remarks (include plugging procedure)
Logs will be mailed.

Acid, Fracture, Treatment, Cement Squeeze etc continued .

5890 - 6090 Acidize w/59.9 bbls acid.
5890 - 6090 Frac w/2888 bbls gel. 175,493# 16/30 sand.
6160 - 6360 Acidize w/59.5 bbls acid.
6160 - 6360 Frac w/2981 bbls gel. 173,927# 16/30 sand.

33 Circle enclosed attachments

- 1 Electrical/Mechanical Logs (1 full set req'd)
- 2 Geologic Report
- 3 DST Report
- 4 Directional Survey
- 5 Sundry Notice for plugging and cement verification
- 6 Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #67930 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 03/12/2009 (09KMS1006SE)

Name (please print) ROBYN ODOM Title PERSON RESPONSIBLE

Signature (Electronic Submission) Date 03/11/2009

Title 18 U.S.C Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Eddy County, NM
API# 30-015-36681

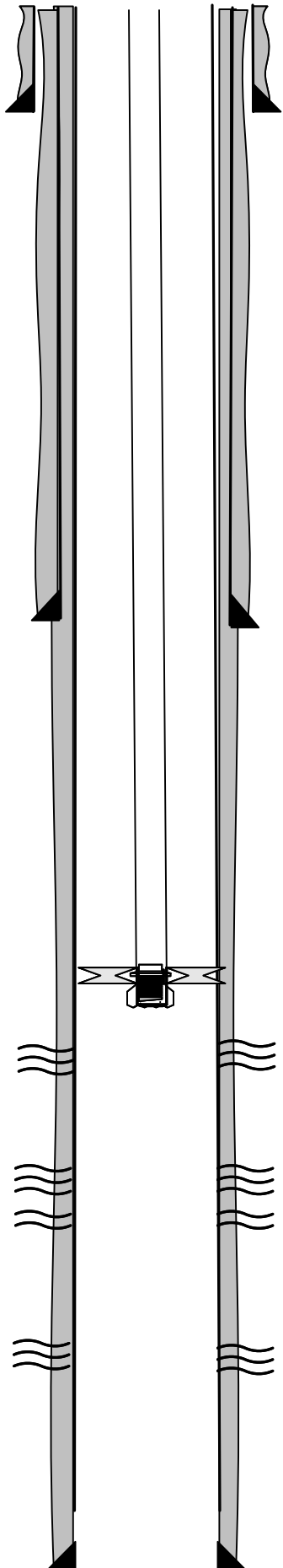
PROPOSED WBD

HOLE SIZE: 17-1/2"
13-3/8" 48# H-40 @467'
CMT WITH 475 SX CL C + 2%
CACL2, CIRC 94 SX TO SURFACE

HOLE SIZE: 11"
8-5/8" 32# J-55 Csg @ 1,836'
CMT W/ 500 SX C + 2% CACL2
LEAD AND 200 SX C + 2% CACL2
TAIL, CIRC 252 SX TO SURFACE

HOLE SIZE: 7-7/8"
5 1/2" 17# J-55 Csg @ 6,593'
CMT W/ 650 SX C + 2% CACL2 LEAD
AND 400 SX C + 2% CACL2 TAIL,
CIRC 95 SX TO SURFACE

Formation	Top
YATES	1779
QUEEN	2720
SAN ANDRES	3464
GLORIETA	4972
YESO	5016



PROPOSED TBG DETAIL
153 JOINTS OF 2-7/8" 6.5# J-55 ICP TBG @4,992'
D&L Oil Tools ASI - X Packer or equivalent @ 4,992'
(+/- 50' ABOVE TOP PERF)

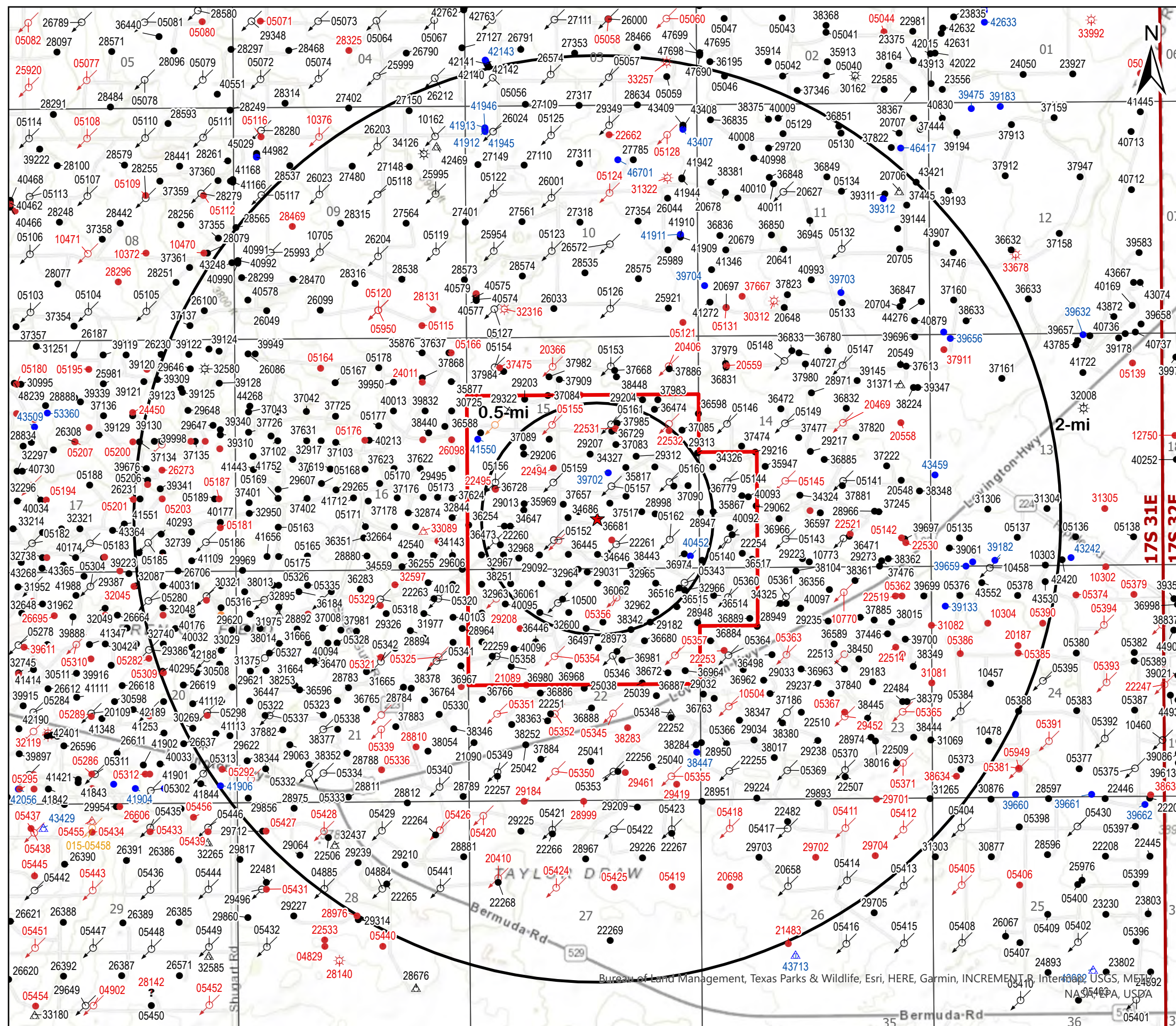
YESO PERFS (5,042' - 6,360')
PADDOCK: 5,042'-5180' & 5,610'-5,810'
BLINEBRY: 5,890'-6,090' & 6,160'-6,360'

TD @ 6,593'
PBSD @ 6,549'

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
- ★ Well Location (1)
 - Project Area
 - ☀ Gas, Active (6)
 - ☀ Gas, Plugged (9)
 - ↻ Injection, Active (154)
 - ↻ Injection, Plugged (66)
 - ↻ Injection, Temporary Abandonment (2)
 - Oil, Active (781)
 - Oil, New (44)
 - Oil, Plugged (151)
 - Oil, Temporary Abandonment (1)
 - △ Salt Water Disposal, Active (11)
 - △ Salt Water Disposal, New (3)
 - △ Salt Water Disposal, Plugged (2)
 - ? undefined (1)

Source Info: NMOCD O&G Wells updated 3/22/2023
<https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/>

<h2>O&G Wells AOR Map</h2>		
<h3>SKELLY UNIT #998</h3> <p>Eddy County, New Mexico</p>		
Proj Mgr: Oliver Seekins	September 20, 2023	Mapped by: Ben Bockelmann
Prepared for:		Prepared by:

AOR Tabulation for Skelly Unit 998 (Injection Interval: 5,042'-6,360')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
SKELLY UNIT #199	30-015-28972	Oil	LH Operating, LLC	7/24/1996	N-15-17S-31E	4,000	No
SKELLY UNIT #849	30-015-37517	Oil	Spur Energy Partners LLC	6/28/2010	J-15-17S-31E	6,935	Yes
SKELLY UNIT #031	30-015-05150	Plugged	WISER OIL CO (THE)	7/14/1967	O-15-17S-31E	Plugged (3,800)	No
SKELLY UNIT #964	30-015-34686	Oil	Spur Energy Partners LLC	6/13/2006	15-17S-31E	5,410	Yes
SKELLY UNIT #127	30-015-22261	Injection	LH Operating, LLC	10/24/1977	O-15-17S-31E	2,550	No
SKELLY UNIT #026	30-015-05157	Injection	LH Operating, LLC	1/21/1961	J-15-17S-31E	3,764	No
SKELLY UNIT #963	30-015-34646	Oil	Spur Energy Partners LLC	5/31/2006	O-15-17S-31E	5,375	Yes
SKELLY UNIT #847	30-015-40729	Oil	Spur Energy Partners LLC	1/10/2013	J-15-17S-31E	6,745	Yes
SKELLY UNIT #635	30-015-37657	Oil	Spur Energy Partners LLC	7/17/2010	K-15-17S-31E	6,725	Yes
SKELLY UNIT #030	30-015-10774	Plugged	WISER OIL CO (THE)	4/30/1966	N-15-17S-31E	Plugged (3,906)	No
SKELLY UNIT #200	30-015-28998	Oil	LH Operating, LLC	8/20/1996	P-15-17S-31E	4,000	No
SKELLY UNIT #604	30-015-36445	Oil	Spur Energy Partners LLC	9/25/2008	N-15-17S-31E	6,512	Yes
SKELLY UNIT #855	30-015-39702	Oil	COG OPERATING LLC	New Not Drilled	J-15-17S-31E	Proposed (6,700)	N/A
SKELLY UNIT #001	30-015-05152	Injection	LH Operating, LLC	3/4/1954	N-15-17S-31E	12,098	Yes
SKELLY UNIT #212	30-015-29031	Oil	LH Operating, LLC	8/14/1996	B-22-17S-31E	4,060	No
SKELLY UNIT #422H	30-015-43832	Oil	Spur Energy Partners LLC	11/26/2016	C-22-17S-31E	5,844	Yes
SKELLY UNIT #027	30-015-05159	Injection	LH Operating, LLC	5/28/1961	K-15-17S-31E	3,600	No
SKELLY UNIT #828	30-015-38443	Oil	Spur Energy Partners LLC	7/15/2011	O-15-17S-31E	6,745	Yes
SKELLY UNIT #967	30-015-35871	Oil	Spur Energy Partners LLC	1/11/2008	P-15-17S-31E	6,508	Yes
SKELLY UNIT #959	30-015-34327	Oil	Spur Energy Partners LLC	10/23/2005	J-15-17S-31E	5,480	Yes
SKELLY UNIT #978	30-015-36062	Oil	Spur Energy Partners LLC	6/17/2010	22-17S-31E	6,736	Yes
SKELLY UNIT #190	30-015-29207	Oil	LH Operating, LLC	11/10/1996	J-15-17S-31E	3,900	No
SKELLY UNIT #151	30-015-22494	Plugged	Chevron	6/8/1978	K-15-17S-31E	Plugged (2,600)	No
SKELLY UNIT #949	30-015-32968	Oil	Spur Energy Partners LLC	2/5/2005	N-15-17S-31E	6,505	Yes
SKELLY UNIT #213	30-015-29762	Oil	LH Operating, LLC	8/29/1997	A-22-17S-31E	3,950	No
SKELLY UNIT #945	30-015-32964	Oil	Spur Energy Partners LLC	12/31/2003	C-22-17S-31E	5,483	Yes
SKELLY UNIT #946	30-015-32965	Oil	Spur Energy Partners LLC	12/10/2004	B-22-17S-31E	5,430	Yes
SKELLY UNIT #191	30-015-29312	Oil	LH Operating, LLC	1/2/1997	J-15-17S-31E	3,900	No
SKELLY UNIT #198	30-015-29013	Oil	LH Operating, LLC	8/25/1996	L-15-17S-31E	4,000	No
SKELLY UNIT #966	30-015-35969	Oil	Spur Energy Partners LLC	2/19/2009	15-17S-31E	6,615	Yes
SKELLY UNIT #032	30-015-05162	Injection	LH Operating, LLC	9/28/1961	P-15-17S-31E	3,811	No
SKELLY UNIT #639	30-015-37083	Oil	Spur Energy Partners LLC	12/3/2009	G-15-17S-31E	6,720	Yes
SKELLY UNIT #970	30-015-35817	Oil	Spur Energy Partners LLC	8/23/2008	I-15-17S-31E	6,521	Yes
SKELLY UNIT #958	30-015-34318	Oil	Spur Energy Partners LLC	10/7/2005	K-15-17S-31E	5,480	Yes
SKELLY UNIT #042	30-015-05356	Plugged	WISER OIL CO (THE)	Unknown*	B-22-17S-31E	Plugged (3,794)	No
SKELLY UNIT #025	30-015-05160	Injection	LH Operating, LLC	7/3/1961	I-15-17S-31E	3,659	No
SKELLY UNIT #150	30-015-22483	Oil	LH Operating, LLC	7/18/1978	I-15-17S-31E	2,629	No
SKELLY UNIT #977	30-015-36061	Oil	Spur Energy Partners LLC	2/16/2008	22-17S-31E	6,510	Yes
SKELLY UNIT #981	30-015-36516	Oil	Spur Energy Partners LLC	10/30/2008	A-22-17S-31E	6,505	Yes
SKELLY UNIT #965	30-015-34647	Oil	Spur Energy Partners LLC	5/16/2006	M-15-17S-31E	5,370	Yes
SKELLY UNIT #002	30-015-05344	Oil	LH Operating, LLC	5/21/1944	C-22-17S-31E	3,768	No

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

AOR Tabulation for Skelly Unit 998 - Continued - (Injection Interval: 5,042'-6,360')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
SKELLY UNIT #211	30-015-29092	Oil	LH Operating, LLC	8/31/1996	M-15-17S-31E	4,000	No
SKELLY UNIT #996	30-015-36729	Oil	Spur Energy Partners LLC	9/4/2009	15-17S-31E	6,545	Yes
SKELLY UNIT #153	30-015-22531	Plugged	GETTY OIL COMPANY	8/2/1978	G-15-17S-31E	Plugged (2,630)	No
SKELLY UNIT #043	30-015-10500	Injection	LH Operating, LLC	5/6/1965	C-22-17S-31E	3,757	No
SKELLY UNIT #995	30-015-36473	Oil	Spur Energy Partners LLC	5/29/2010	M-15-17S-31E	6,620	Yes
SKELLY UNIT #968	30-015-35816	Oil	Spur Energy Partners LLC	7/8/2008	F-15-17S-31E	6,547	Yes
SKELLY UNIT #632	30-015-36974	Oil	Spur Energy Partners LLC	10/25/2009	P-15-17S-31E	6,825	Yes
SKELLY UNIT #020	30-015-05161	Injection	LH Operating, LLC	8/17/1961	G-15-17S-31E	3,657	No
SKELLY UNIT #636	30-015-37090	Oil	Spur Energy Partners LLC	10/12/2009	I-15-17S-31E	6,826	Yes
SKELLY UNIT #843	30-015-37985	Oil	Spur Energy Partners LLC	9/20/2010	G-15-17S-31E	6,742	Yes
SKELLY UNIT #980	30-015-36063	Oil	Spur Energy Partners LLC	6/11/2010	22-17S-31E	6,630	Yes
SKELLY UNIT #189	30-015-29206	Oil	LH Operating, LLC	11/24/1996	L-15-17S-31E	3,925	No
SKELLY UNIT #647	30-015-40452	Oil	COG OPERATING LLC	New Not Drilled	P-15-17S-31E	Proposed (6,800)	N/A
SKELLY UNIT #827	30-015-38350	Oil	Spur Energy Partners LLC	5/20/2011	M-15-17S-31E	6,646	Yes
SKELLY UNIT #126	30-015-22260	Oil	LH Operating, LLC	10/18/1977	M-15-17S-31E	2,539	No
SKELLY UNIT #637	30-015-37089	Oil	Spur Energy Partners LLC	11/19/2009	E-15-17S-31E	6,735	Yes
SKELLY UNIT #942	30-015-34645	Oil	Spur Energy Partners LLC	12/28/2007	B-22-17S-31E	6,500	Yes
SKELLY UNIT #201	30-015-28947	Oil	LH Operating, LLC	7/16/1996	M-14-17S-31E	4,050	No
SKELLY UNIT #029	30-015-05151	Injection	LH Operating, LLC	8/22/1944	M-15-17S-31E	3,717	No
SKELLY UNIT #019	30-015-05155	Plugged	SANDRIDGE EXPLORATION AND PRODUCTION, LLC	Unknown*	F-15-17S-31E	Plugged (3,670)	No
SKELLY UNIT #152	30-015-22495	Plugged	GETTY OIL COMPANY	7/2/1978	L-15-17S-31E	Plugged (2,550)	No
SKELLY UNIT #603	30-015-36728	Oil	Spur Energy Partners LLC	8/10/2009	15-17S-31E	6,753	Yes
SKELLY UNIT #128	30-015-22262	Oil	LH Operating, LLC	1977	A-22-17S-31E	2,550	No
SKELLY UNIT #028	30-015-05156	Injection	LH Operating, LLC	1/30/1961	L-15-17S-31E	3,714	No
SKELLY UNIT #041	30-015-05343	Injection	LH Operating, LLC	6/14/1910	A-22-17S-31E	3,818	No
SKELLY UNIT #944	30-015-32963	Oil	Spur Energy Partners LLC	12/10/2003	D-22-17S-31E	5,450	Yes
SKELLY UNIT #941	30-015-32600	Oil	Spur Energy Partners LLC	9/23/2003	C-22-17S-31E	5,478	Yes
SKELLY UNIT #943	30-015-32962	Oil	Spur Energy Partners LLC	1/17/2005	A-22-17S-31E	5,410	Yes
SKELLY UNIT #225	30-015-28973	Oil	LH Operating, LLC	6/13/1996	G-22-17S-31E	4,000	No
SKELLY UNIT #214	30-015-29540	Oil	LH Operating, LLC	5/19/1997	M-14-17S-31E	3,950	No
SKELLY UNIT #947	30-015-32966	Oil	Spur Energy Partners LLC	1/2/2005	A-22-17S-31E	5,430	Yes
SKELLY UNIT #154	30-015-22532	Plugged	GETTY OIL COMPANY	8/16/1978	H-15-17S-31E	Plugged (2,650)	No
SKELLY UNIT #979	30-015-38342	Oil	Spur Energy Partners LLC	5/21/2011	G-22-17S-31E	6,745	Yes

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

Construction Details for Wells Penetrating the Skelly Unit 998 Injection Zone

Well Name	Casing	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size
SKELLY UNIT #849	Surface	535'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,800'	8.625"	Surface	Circulated	550	11.0"
	Production	6,925'	5.5"	Surface	Circulated	1,800	7.875"
SKELLY UNIT #964	Surface	451'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,839'	8.625"	Surface	Circulated	800	12.25"
	Production	5,401'	7.875"	Unknown*	Unknown*	1,180	7.875"
SKELLY UNIT #963	Surface	439'	13.375"	Surface	Circulated	448	17.5"
	Intermediate	1,807'	8.625"	Surface	Circulated	500	12.25"
	Production	5,365'	5.5"	Surface	Circulated	1,125	7.875"
SKELLY UNIT #847	Surface	573'	13.375"	Surface	Circulated	550	17.5"
	Intermediate	1,986'	8.625"	Surface	Circulated	650	11.0"
	Production	6,729'	5.5"	Surface	Circulated	1,100	7.875"
SKELLY UNIT #635	Surface	495'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,834'	8.625"	Surface	Circulated	550	11.0"
	Production	6,708'	5.5"	Surface	Circulated	1,100	7.875"
SKELLY UNIT #604	Surface	442'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,804'	8.625"	Surface	Circulated	700	11.0"
	Production	6,508'	5.5"	Surface	Circulated	1,025	7.875"
SKELLY UNIT #001	Surface	210'	13.375"	Surface	Unknown*	240	15"
	Intermediate	3,616'	9.625"	Unknown*	Unknown*	2600	12.25"
	Production	11,970'	5.5"	3,772'	Calculated	1,755	7.875"
SKELLY UNIT #422H	Surface	542'	13.375"	Surface	Circulated	525	17.5"
	Intermediate	1,809'	9.625"	Surface	Circulated	575	12.25"
	Production	11,677'	5.5"	Surface	Circulated	2,650	8.75"
SKELLY UNIT #828	Surface	527'	13.375"	Surface	Unknown*	450	17.5"
	Intermediate	1,809'	8.625"	Surface	Unknown*	550	11.0"
	Production	6,731'	5.5"	Surface	Unknown*	1,650	7.875"
SKELLY UNIT #978	Surface	478'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,830'	8.625"	Surface	Circulated	650	11.0"
	Production	6,727'	5.5"	Surface	Circulated	1,100	7.875"
SKELLY UNIT #949	Surface	464'	13.375"	Surface	Circulated	525	17.5"
	Intermediate	1,829'	8.625"	Surface	Circulated	950	12.25"
	Production	5,345'	5.5"	Surface	Circulated	1,450	7.875"
SKELLY UNIT #945	Surface	435'	13.375"	Surface	Circulated	500	17.5"
	Intermediate I	1,638'	8.625"	Surface	Circulated	800	12.25"
	Intermediate II	5,457'	5.5"	Surface	Circulated	1,065	7.875"
	Production	6,607'	4.0"	5,303'	Unknown*	140	4.75"
SKELLY UNIT #946	Surface	449'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,616'	8.625"	Surface	Circulated	800	12.25"
	Production	5,399'	5.5"	Surface	Unknown*	1,755	7.875"

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

Construction Details for Wells Penetrating the Skelly Unit 998 Injection Zone - Continued

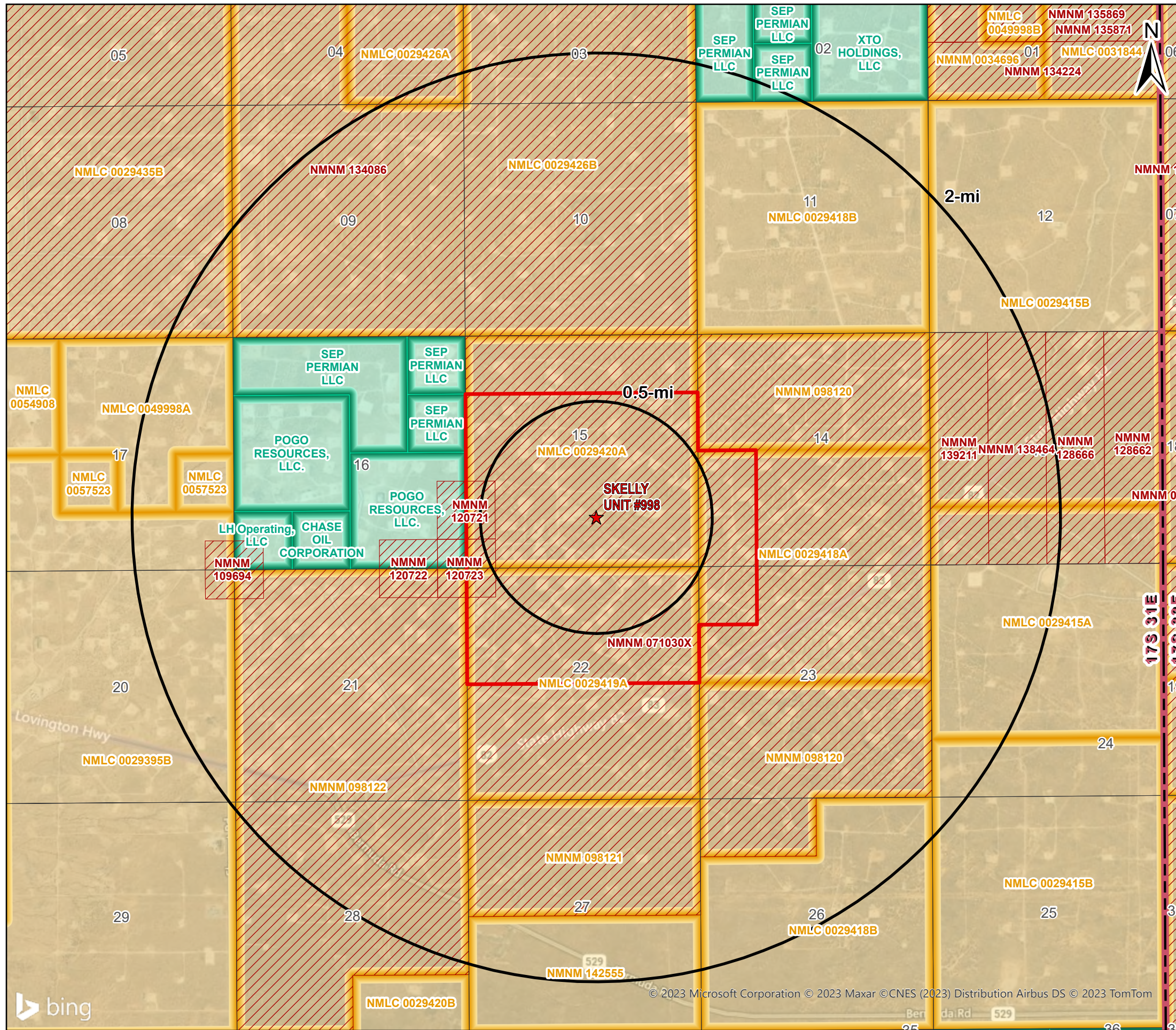
Well Name	Casing	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size
SKELLY UNIT #966	Surface	489'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,815'	8.625"	Surface	Circulated	400	11.0"
	Production	6,615'	5.5"	Surface	Circulated	1,150	7.875"
SKELLY UNIT #639	Surface	444'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,760'	8.625"	Surface	Circulated	550	11.0"
	Production	6,720'	5.5"	Surface	Circulated	1,200	7.875'
SKELLY UNIT #970	Surface	415'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,836'	8.625"	Surface	Circulated	600	11.0"
	Production	6,513'	5.5"	Surface	Circulated	1,200	7.875"
SKELLY UNIT #958	Surface	452'	13.375"	Surface	Circulated	470	17.5"
	Intermediate I	1,780'	8.625"	Surface	Circulated	800	12.25"
	Intermediate II	5,472'	5.5"	Surface	Circulated	1,565	7.875"
	Production	6,600'	4"	5,264'	Unknown*	130	4.75"
SKELLY UNIT #977	Surface	450'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,803'	8.625"	Surface	Circulated	800	12.25"
	Production	6,510'	5.5"	Surface	Circulated	1100	7.875"
SKELLY UNIT #981	Surface	445'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,817'	8.625"	Surface	Circulated	700	11.0"
	Production	6,505'	5.5"	Surface	Circulated	1,000	7.875"
SKELLY UNIT #965	Surface	425'	13.375"	Surface	Circulated	448	17.5"
	Intermediate I	1,809'	8.625"	Surface	Circulated	800	12.25"
	Intermediate II	5,364'	5.5"	Surface	Circulated	1,075	7.875"
	Production	6,619'	4.0"	5,239'	Unknown*	Unknown*	4.75"
SKELLY UNIT #996	Surface	460'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,824'	8.625"	Surface	Circulated	600	11.0"
	Production	6,767'	5.5"	Surface	Circulated	1,200	7.875"
SKELLY UNIT #995	Surface	450'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,830'	8.625"	Surface	Circulated	550	11.0"
	Production	6,617'	5.5"	Surface	Circulated	1,150	7.875"
SKELLY UNIT #968	Surface	448'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,809'	8.625"	Surface	Circulated	700	11.0"
	Production	6.566'	5.5"	Surface	Circulated	500	7.875"
SKELLY UNIT #632	Surface	450'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,803'	8.625"	Surface	Circulated	550	11.0"
	Production	6,811'	5.5"	Surface	Unknown*	1,100	7.875"
SKELLY UNIT #636	Surface	474'	13.375"	Surface	Circulated	450	17.5"
	Intermediate	1,808'	8.625"	Surface	Circulated	600	11.0"
	Production	6,825'	5.5"	Surface	Circulated	1,200	7.875"
SKELLY UNIT #843	Surface	642'	13.375"	Surface	Circulated	650	17.5"
	Intermediate	1,800'	8.625"	Surface	Circulated	600	11.0"
	Production	6,725'	5.5"	Surface	Circulated	1,050	7.875"

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

Construction Details for Wells Penetrating the Skelly Unit 998 Injection Zone - Continued

Well Name	Casing	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size
SKELLY UNIT #980	Surface	476'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,830'	8.625"	Surface	Circulated	700	11.0"
	Production	6,620'	5.5"	Surface	Circulated	1,100	7.875"
SKELLY UNIT #827	Surface	480'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,938'	8.625"	Surface	Circulated	800	11.0"
	Production	6,641'	5.5"	Surface	Circulated	1,050	7.875"
SKELLY UNIT #637	Surface	450'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,804'	8.625"	Surface	Circulated	550	11.0"
	Production	6,723'	5.5"	Surface	Circulated	1,200	7.875"
SKELLY UNIT #942	Surface	462'	13.375"	Surface	Unknown*	447	17.5"
	Intermediate	1,815'	8.625"	Surface	Unknown*	600	12.25"
	Production	6,489.5'	5.5"	Surface	Unknown*	1,100	7.875"
SKELLY UNIT #603	Surface	448'	13.375"	Surface	Circulated	475	17.5"
	Intermediate	1,804'	8.625"	Surface	Circulated	600	11.0"
	Production	6,753'	5.5"	Surface	Circulated	1,150	7.875"
SKELLY UNIT #944	Surface	496'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,649'	8.625"	Surface	Circulated	800	12.25"
	Production	5,447'	5.5"	Unknown*	Unknown*	1,830	7.875"
SKELLY UNIT #941	Surface	450'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,628'	8.625"	Surface	Circulated	800	12.25"
	Production	5,472'	5.5"	Surface	Circulated	1,010	7.875"
SKELLY UNIT #943	Surface	451'	13.375"	Surface	Circulated	500	17.5"
	Intermediate	1,795'	8.625"	Surface	Circulated	950	12.25"
	Production	5,410'	5.5"	Unknown*	Unknown*	1,600	7.875"
SKELLY UNIT #947	Surface	463'	13.375"	Surface	Circulated	525	17.5"
	Intermediate	1,794'	8.625"	Surface	Circulated	950	12.25"
	Production	5,397'	5.5"	Unknown*	Unknown*	1,350	7.875"
SKELLY UNIT #979	Surface	480'	13.375"	Surface	Circulated	550	17.5"
	Intermediate	1,750'	8.625"	Surface	Circulated	550	11.0"
	Production	6,735'	5.5"	Surface	Circulated	1,050	7.875"

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



Legend

- ★ Well Location
- Project Area
- BLM Communitization Units
- BLM Authorized Leases
- NMSLO Mineral Leases

1/2-mile AOR Lessees/Unit Operators:

- LH Operating LLC (BLM Lessee/Unit Operator)

Source Info: BLM Mineral Leases (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>). NMSLO Mineral Leases (<http://www.nmstatelands.org/maps-gis/gis-data-download/>). Where applicable, Private Mineral Leases were identified utilizing Enverus, Midland Maps, or operator identified lease data.

Mineral Lease AOR Map

SKELLY UNIT #998

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

September 20, 2023

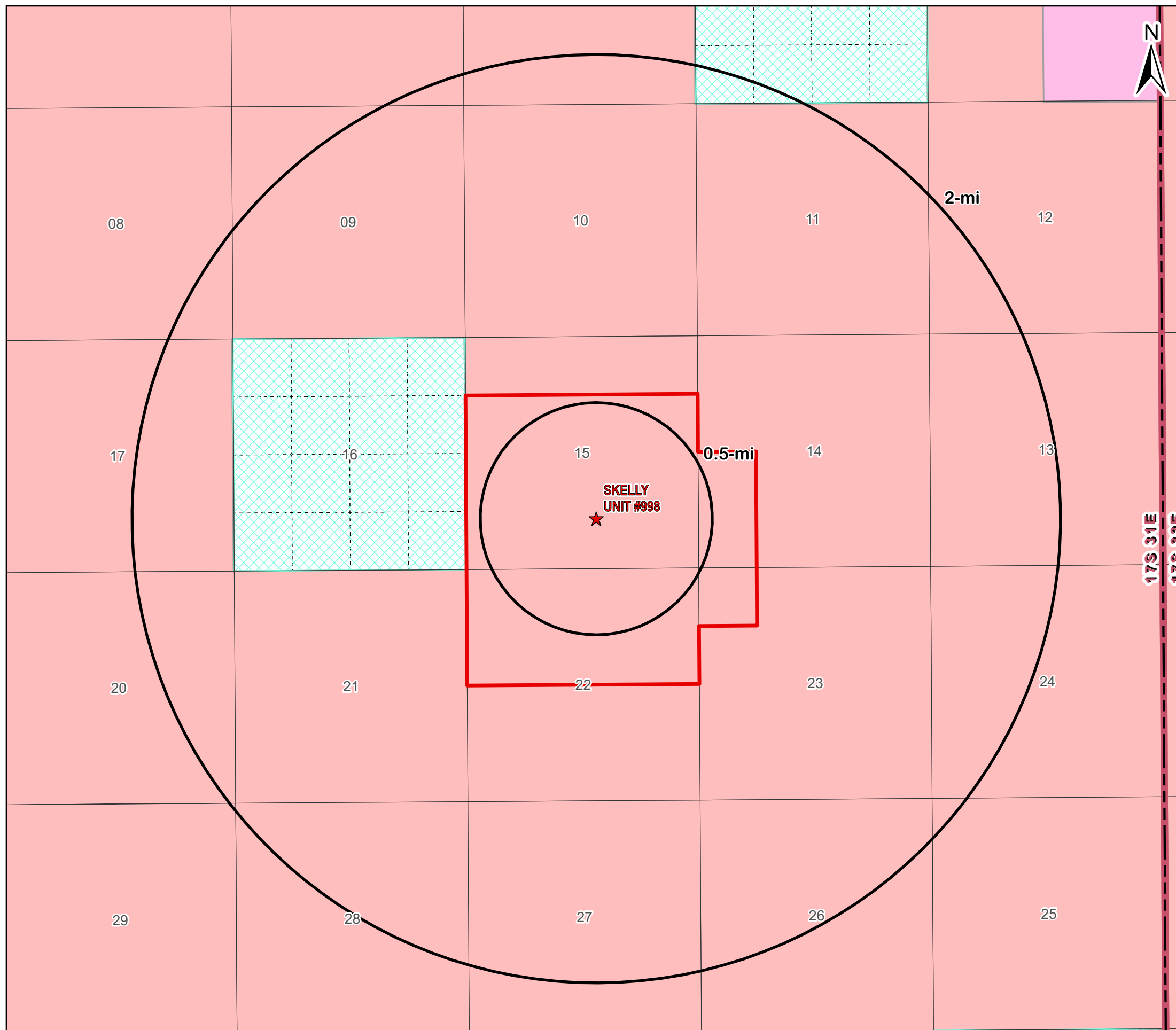
Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:





Legend

- ★ Well Location
- ▭ Project Area
- ▭ Private minerals
- ▨ Surface and Subsurface minerals (NMSLO)
- ▭ All minerals are owned by U.S. (BLM)
- ▭ Other minerals are owned by the U.S. (BLM)

Mineral Ownership AOR

SKELLY UNIT #998

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

September 20, 2023

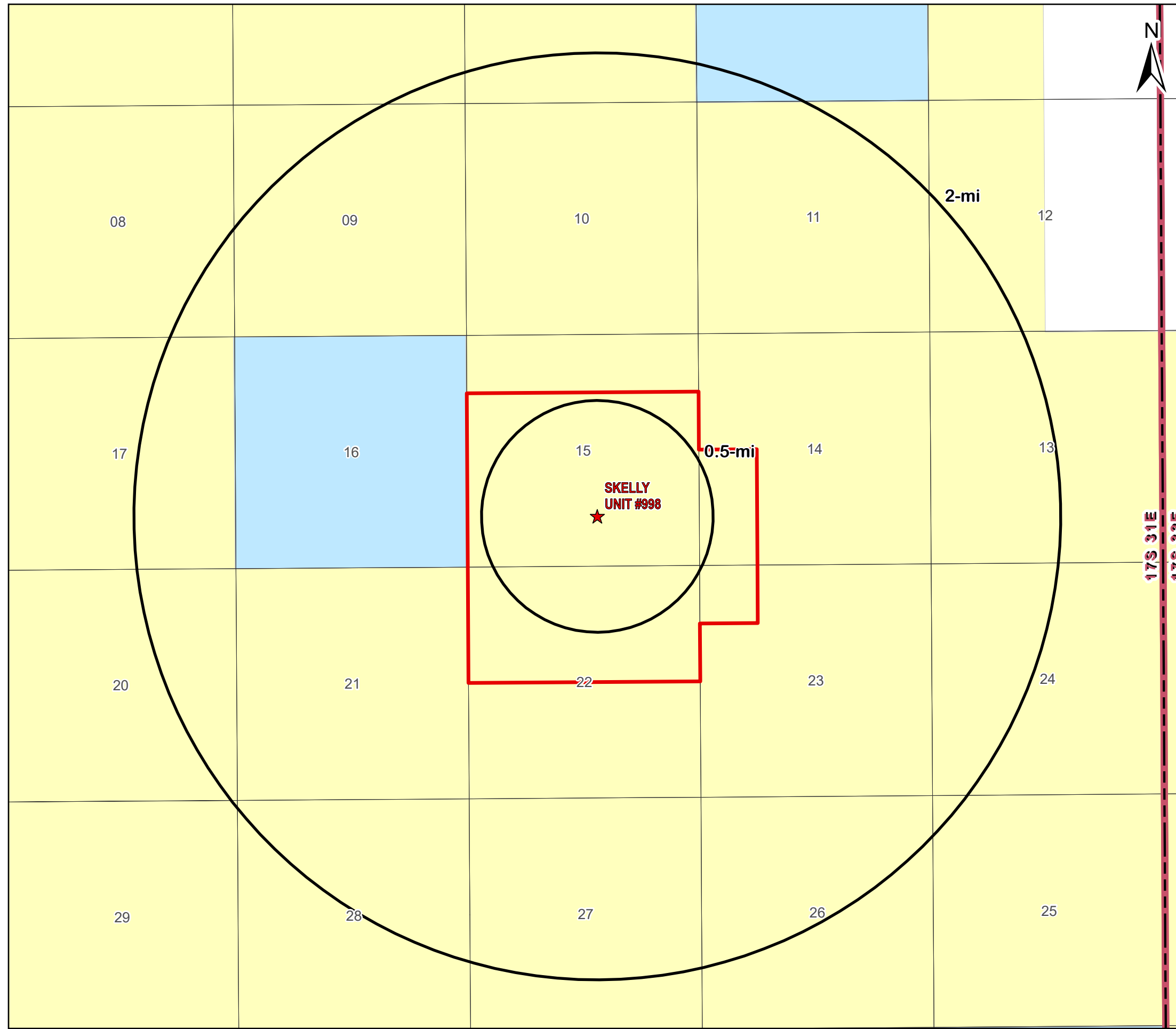
Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:





Legend

★ Well Location

Project Area

Surface Ownership

BLM

Private

State

Surface Ownership AOR Map

BURCH KEELY UNITS #222, 253, & 699
Eddy County, New Mexico

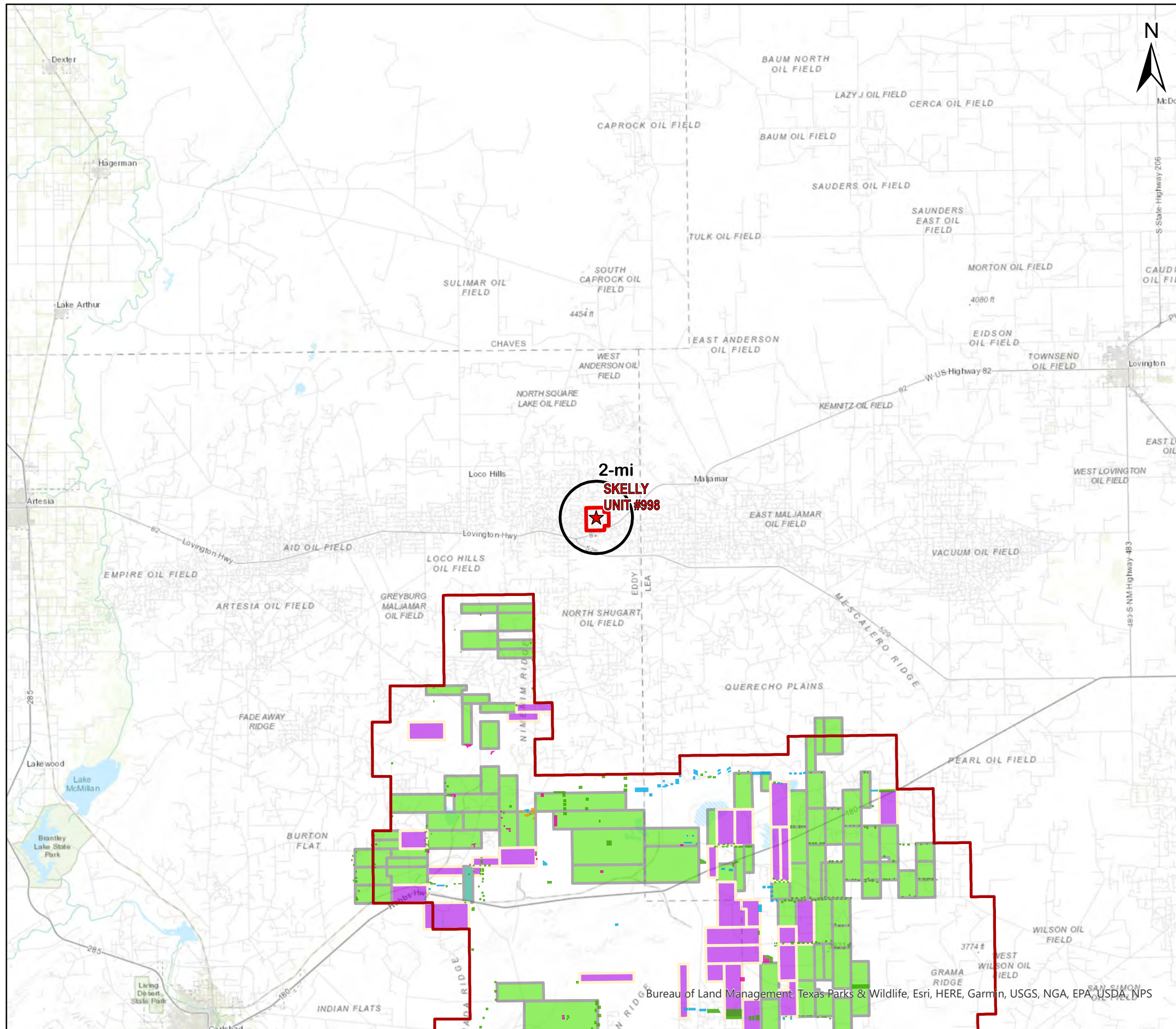
Proj Mgr:
Oliver Seekins

September 20, 2023

Mapped by:
Ben Bockelmann

Prepared for:
SPUR
ENERGY
PARTNERS

Prepared by:
ALLCONSULTING



Legend

- ★ Well Location
- Project Area
- SOPA 1986

Drill Islands

Status, Depth Buffer

- Approved, Half Mile
- Approved, Quarter Mile
- Nominated, Half Mile
- Nominated, Quarter Mile

Development Areas

Status

- Approved
- Pending
- Pending NMOCD Order

Potash AOR Map

SKELLY UNIT #998

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

September 20, 2023

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

Attachment 3

Injectate Analyses



Device QTR Report

Generated: 01/24/2023 12:00 (-0600)
Devices: 230
Group: [Invalid Group]
Report Start Date: 12/1/22

Name: 06165019
Desc: Skelly Unit 968
Type: Station Meter (Gas)
SiteService: AKM.UIS
Facility ID: SKELLYUNIT968_GM
Contract Hr: 5

Count: 41 (230)

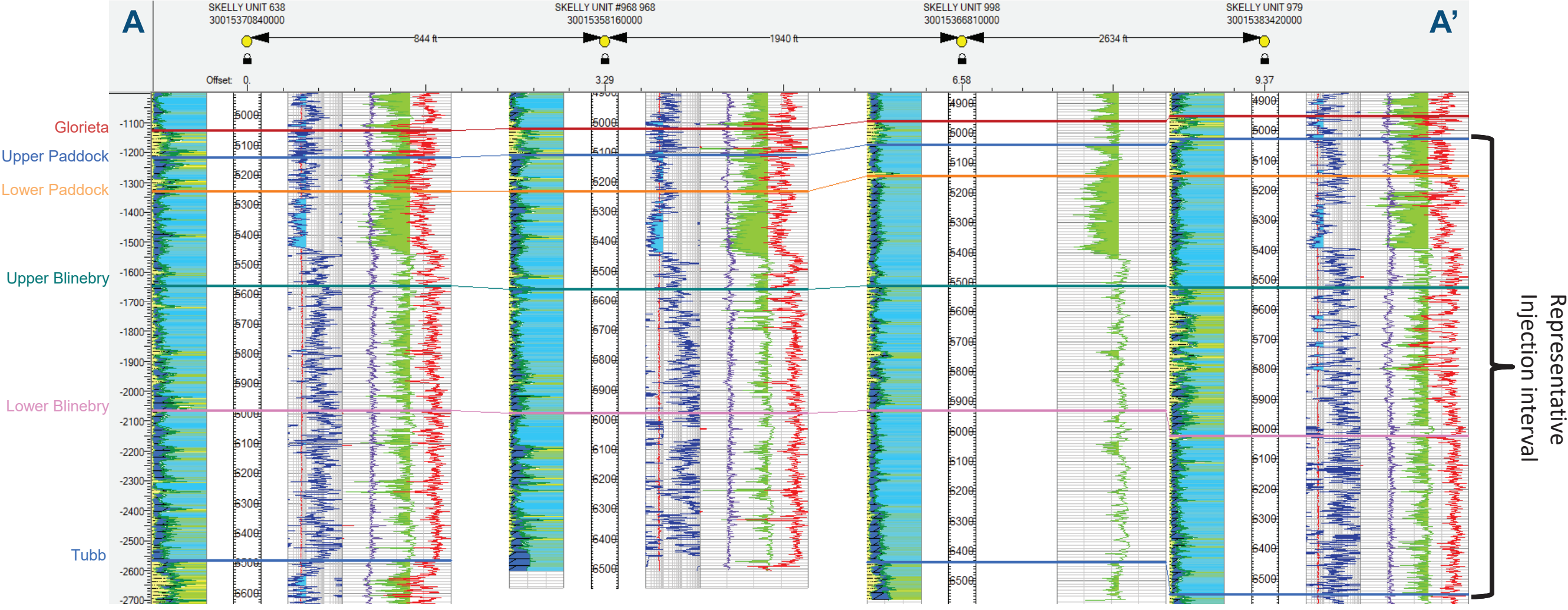
Line Size: 3.068
Orifice Size: 1.750
Tap Type: Absolute
Tap Location: Upstream
Atmos Pressure: 13.00
Contract Pressure: 14.65
Contract Temp: 60

Date On	Ave Diff inH2O	SP PSIA	Temp F	Orifice in	FlowTime dy	Volume MCF	Energy MMBTU	BTU BTU/CF	Field
12/1/22 5:00	44.50	30.56	64.59	1.750	1.00	646.12	821.86	1272.00	MAL
12/2/22 5:00	45.39	30.79	71.38	1.750	1.00	649.87	826.63	1272.00	MAL
12/3/22 5:00	44.49	31.11	68.14	1.750	1.00	649.06	825.60	1272.00	MAL
12/4/22 5:00	44.73	31.16	75.96	1.750	1.00	646.59	822.46	1272.00	MAL
12/5/22 5:00	44.76	32.25	80.10	1.750	1.00	652.07	829.43	1272.00	MAL
12/6/22 5:00	42.34	34.60	79.13	1.750	1.00	649.54	826.21	1272.00	MAL
12/7/22 5:00	46.60	30.26	73.98	1.750	1.00	646.93	822.89	1272.00	MAL
12/8/22 5:00	44.21	32.59	77.78	1.750	1.00	649.41	826.06	1272.00	MAL
12/9/22 5:00	46.39	30.21	76.39	1.750	1.00	647.70	823.88	1272.00	MAL
12/10/22 5:00	45.00	31.59	80.55	1.750	1.00	651.18	828.30	1272.00	MAL
12/11/22 5:00	44.07	31.30	74.88	1.750	1.00	644.67	820.02	1272.00	MAL
12/12/22 5:00	44.73	31.35	73.33	1.750	1.00	649.44	826.09	1272.00	MAL
12/13/22 5:00	40.60	32.50	63.57	1.750	1.00	637.25	810.59	1272.00	MAL
12/14/22 5:00	40.74	32.26	63.24	1.750	1.00	629.40	800.60	1272.00	MAL
12/15/22 5:00	47.71	29.62	65.20	1.750	1.00	650.04	826.85	1272.00	MAL
12/16/22 5:00	49.41	28.71	56.35	1.750	1.00	657.11	835.84	1272.00	MAL
12/17/22 5:00	48.22	28.25	62.31	1.750	1.00	643.11	818.03	1272.00	MAL
12/18/22 5:00	53.09	26.84	62.36	1.750	1.00	657.53	836.37	1272.00	MAL
12/19/22 5:00	42.75	32.02	66.10	1.750	1.00	619.53	788.04	1272.00	MAL
12/20/22 5:00	46.00	30.61	65.80	1.750	1.00	642.94	817.82	1272.00	MAL
12/21/22 5:00	48.67	29.24	62.57	1.750	0.99	641.99	816.61	1272.00	MAL
12/22/22 5:00	34.32	31.73	37.20	1.750	1.00	590.77	751.45	1272.00	MAL
12/23/22 5:00	43.53	30.59	45.42	1.750	1.00	652.03	829.39	1272.00	MAL
12/24/22 5:00	40.65	31.34	53.48	1.750	1.00	632.42	804.44	1272.00	MAL
12/25/22 5:00	40.00	32.74	62.59	1.750	1.00	634.78	807.44	1272.00	MAL
12/26/22 5:00	33.59	38.70	65.66	1.750	1.00	630.39	801.86	1272.00	MAL
12/27/22 5:00	52.22	30.83	69.67	1.750	1.00	694.20	883.02	1272.00	MAL
12/28/22 5:00	45.32	30.84	66.86	1.750	1.00	653.67	831.47	1272.00	MAL
12/29/22 5:00	42.87	31.55	69.51	1.750	1.00	638.01	811.55	1272.00	MAL
12/30/22 5:00	47.86	31.47	68.74	1.750	1.00	668.78	850.68	1272.00	MAL
12/31/22 5:00	49.74	29.10	73.44	1.750	1.00	659.06	838.33	1272.00	MAL
Avg/Total:	44.66	31.18	66.98		30.99	20016	25460		
CO2	N2	C1	C2	C3	iC4	nC4	iC5		
2.174	2.697	70.989	12.938	6.208	0.690	1.758	0.471		
C6	He	O2	H2S	Sp Grav					
1.389	0.000	0.000	0.160	0.802					

Attachment 4

Structural Cross Section & Injection Formation Details

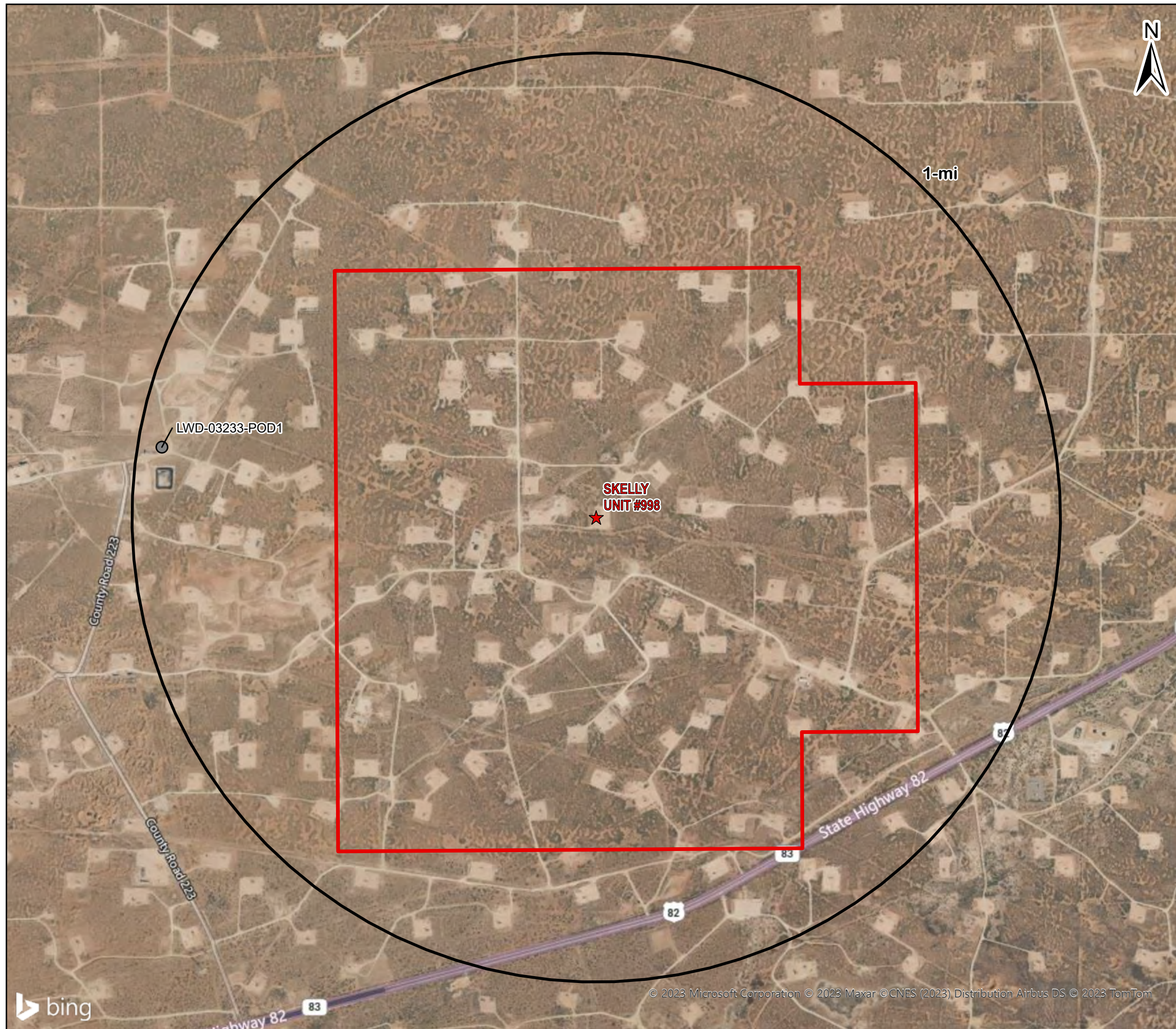
Skelly 998: Structural Cross Section



At the Skelly Unit #998, the top of the Yeso formation is at 5,016' and the perforated injection interval will be from 5,042' to 6,360'. The producing formation is well established as demonstrated by the above cross section, and nearby offset well Skelly Unit #979 (API# 30-015-38342) shows the top of the Yeso at 5,021' and the top of the underlying Tubb member at 6,545'.

Attachment 5

Water Well Map and Well Data



Legend

- ★ Well Location
- ▭ Project Area

OSE PODs

Status

- Active (0)
- Pending (0)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

Water Wells AOR Map

SKELLY UNIT #998

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

September 20, 2023

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



Water Well Sampling Rationale

Spur Energy Partners LLC - Skelly Unit 998

Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
LWD 03233 POD1	Charles R. Martin, Inc.	Chuck Morgan 432-559-4667 Phillip Osbourne (Ranch Hand) 575-390-3564	Livestock Watering	No	After conversations with the owner, it was confirmed that LWD 03233 is a livestock dam or tank registration does not represent a water well within the 1-mile AOR.

Attachment 6

Signed - No Hydrologic Connection Statement



RE: Spur Energy Partners LLC – Skelly Unit #998 – Gas Injection Pressure Maintenance application, Eddy County, New Mexico

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the proposed conversion of the well listed above to gas injection into the Yeso Formation for pressure maintenance. The hydrologic investigation was conducted to determine if there were any existing or potential connections between the proposed injection intervals in the Yeso Formation and the deepest underground source of drinking water (USDW).

ALL performed an assessment and analysis of the subsurface geophysical log data along with published documents on the groundwater in this vicinity of Eddy County, New Mexico. Based on ALL's assessment and analysis there is containment through multiple confining zones above the Yeso Formation and the USDW and over 4,606 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of extensive faulting that would allow for communication between the USDW and the Yeso Formation.

A handwritten signature in blue ink that reads "Tom Tomastik".

September 26, 2023

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 7

List of Notice Recipients

Spur - Skelly Unit #998 - Affected Persons

Affected Party Classification	Entity - Proof of Notice	Entity - As Mapped/Exhibited	Address	City	State	Zip Code
Surface Owner / Mineral Owner	New Mexico Bureau of Land Management	BLM	620 E. Greene St.	Carlsbad	NM	88220
NMOCD District Office	New Mexico Oil Conservation District 2	N/A	506 W Texas	Artesia	NM	88210
Unit Operator / Lessee	LH Operating, LLC	LH Operating LLC	4809 Cole Ave. Suite 200	Dallas	TX	75205
Well Operator	COG Operating, LLC	COG OPERATING LLC	600 W. Illinois Ave.	Midland	TX	79701

Notes: The affected parties above received notification of this C-108 application.
 Spur own 100% of the working interest for each Spur Energy Partners well located within the 0.5-mile AOR, and as such no working interest parties required notice.