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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

NOTICE OF SUPPLEMENTAL EXHIBITS

Chevron U.S.A. Inc. ("Chevron"), applicant in the above-referenced case, gives notice that it is filing the attached supplemental hearing exhibits pursuant to the technical examiner's request at the hearing on September 12, 2024, to include the following:

- Chevron Exhibit G is an updated tabulation of well data for wells within the 1/2-mile area of review. It excludes all wells not within the 1/2-mile area of review;
- Chevron Exhibit H is an additional geology exhibit providing the top and bottom of identified confining layers within the Bone Spring formation; and
- Chevron Exhibit I is a proposed alternative gas allocation methodology based on gas-to-oil ratios in the event the Division decides against approving Chevron's proposed approach.

We respectfully request that the revised exhibits be accepted into the record and the case be taken under advisement.

Respectfully submitted,

HOLLAND & HART LLP

By: _____

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ATTORNEYS FOR CHEVRON U.S.A. INC.

CERTIFICATE OF SERVICE

I hereby certify that on September 19, 2024, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

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Attorney for EOG Resources, Inc.

Adam G. Rankin

BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING SEPTEMBER 12, 2024

CASE NO. 24794

DAGGER LAKE CLGC WELLS

LEA COUNTY, NEW MEXICO

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

HEARING PACKAGE TABLE OF CONTENTS

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

APPLICATION

Chevron U.S.A. Inc. ("Chevron" or "Applicant") (OGRID No. 4323) through its undersigned attorneys, hereby files this application with the New Mexico Oil Conservation Division for an order authorizing Chevron to initiate a pilot Closed Loop Gas Capture ("CLGC") injection project in the Lower Avalon and Second Bone Spring intervals within the Bone Spring formation. In support of this application, Chevron states:

PROJECT SUMMARY

1. Chevron proposes to initiate CLGC injection within a proposed project area of 4,800-acre, more or less, comprising portions of eight sections within Township 21 South and Township 22 South, Range 33 East, NMPM, Lea County, New Mexico (the "Project Area"), as follows.

Township 21 South, Range 33 East

Section 33:	All

Township 22 South, Range 33 East

Section 3:	All
Section 4:	All
Section 9:	All
Section 10:	All
Section 15:	All

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

Section 16: E/2
Section 22: All

See **Exhibit A at pages 3 & 4 (Regional Location Map & Project Summary)**.

2. The proposed Project Area is part of an area known as Chevron's Dagger Lake area.

3. Chevron requests approval for this project to avoid the shut-in of producing wells and reduce flaring (and associated emissions) during temporary natural gas transmission system capacity reductions, such as mechanical or electrical compression outages, plant shutdowns, or other issues that temporarily prevent the delivery of natural gas into a pipeline.

4. Chevron seeks authority to use the following 15 horizontal wells within the proposed project area to occasionally inject produced gas into the Avalon and Second Bone Spring intervals within the Bone Spring formation:

a. The **DL 4 33 Loch Ness Federal Com #4H** (API No. 30-025-46644) with a surface hole location 264 feet FSL and 1,347 feet FEL (Unit O) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 24 feet FNL and 2,302 feet FEL (Unit B) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

b. The **DL 4 33 Loch Ness Federal Com #5H** (API No. 30-025-46645) with a surface hole location 264 feet FSL and 1,297 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 1,170 feet FNL and 1,437 feet FEL (Unit B) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

c. The **DL 4 33 Loch Ness Federal Com #6H** (API No. 30-025-46646) with a surface hole location 264 feet FSL and 1,247 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 27 feet FNL

and 543 feet FEL (Unit A) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

d. The **DL 9 16 Loch Ness Federal Com #16H** (API No. 30-025-46647) with a surface hole location 264 feet FSL and 1,372 feet FEL (Unit O) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 25 feet FSL and 2,310 feet FEL (Unit O) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

e. The **DL 9 16 Loch Ness Federal Com #17H** (API No. 30-025-46648) with a surface hole location 264 feet FSL and 1,322 feet FEL (Unit O) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 431 feet FSL and 1,415 feet FEL (Unit O) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

f. The **DL 9 16 Loch Ness Federal Com #18H** (API No. 30-025-46649) with a surface hole location 264 feet FSL and 1,272 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 214 feet FSL and 532 feet FEL (Unit P) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

g. The **DL 10 3 Kraken Fed Com #207H** (API No. 30-025-49078) with a surface hole location 370 feet FSL and 1,790 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 68 feet FNL and 341 feet FWL (Unit D) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

h. The **DL 10 3 Kraken Fed Com #208H** (API No. 30-025-49079) with a surface hole location 370 feet FSL and 1,815 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FNL and 1,225 feet FWL (Unit D) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

i. The **DL 10 3 Kraken Fed Com #209H** (API No. 30-025-49080) with a surface hole location 370 feet FSL and 1,840 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FNL and 2,179 feet FWL (Unit C) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

j. The **DL 15 22 Narwhal Fed Com #219H** (API No. 30-025-49081) with a surface hole location 860 feet FSL and 1,790 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and 339 feet FWL (Unit M) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

k. The **DL 15 22 Narwhal Fed Com #220H** (API No. 30-025-49082) with a surface hole location 860 feet FSL and 1,815 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FSL and 1,254 feet FWL (Unit M) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

l. The **DL 15 22 Narwhal Fed Com #221H** (API No. 30-025-49083) with a surface hole location 860 feet FSL and 1,840 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 44 feet FSL and

2,178 feet FWL (Unit N) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

m. The **DL 10 15 Ogopogo Fed Com #422H** (API No. 30-025-49906) with a surface hole location 1,986 feet FSL and 1,238 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and 2,297 feet FEL (Unit O) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

n. The **DL 10 15 Ogopogo Fed Com #423H** (API No. 30-025-49907) with a surface hole location 1,986 feet FSL and 1,213 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 39 feet FSL and 1,427 feet FEL (Unit O) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico; and

o. The **DL 10 15 Ogopogo Fed Com #424H** (API No. 30-025-49908) with a surface hole location 1,986 feet FSL and 1,188 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and 535 feet FEL (Unit P) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico (collectively the "CLGC wells").

5. Form C-102s for each of the proposed CLGC wells is included at **Exhibit A at pages 56-70 (C-102s)**.

6. The proposed average daily injection rate into the CLGC wells is 5 MMSCF/day with an expected maximum injection rate of 6 MMSCF/day during injection.

7. The maximum allowable surface pressure (MASP) for the CLGC wells is 1,250 psi. The current surface pressures under normal operating conditions for the wells is in the range

of approximately 748 to 1058 pounds per square inch (psi). **Exhibit A at page 10 (MASP Calculations)**.

8. Injection along the horizontal portion of the proposed wellbores will be within the Bone Spring formation through the existing perforations and at the following approximate true vertical depths:

a. The **DL 4 33 Loch Ness Federal Com #4H** between 10,258.2 feet and 20,610 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

b. The **DL 4 33 Loch Ness Federal Com #5H** between 10,501.2 feet and 19,713 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

c. The **DL 4 33 Loch Ness Federal Com #6H** between 10,262 feet and 20,571 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

d. The **DL 9 16 Loch Ness Federal Com #16H** between 9,936 feet and 20,245 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

e. The **DL 9 16 Loch Ness Federal Com #17H** between 10,511.4 feet and 20,458 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

f. The **DL 9 16 Loch Ness Federal Com #18H** between 10,195.6 feet and 20,363 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

g. The **DL 10 3 Kraken Fed Com #207H** between 10,048 feet and 20,469 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

h. The **DL 10 3 Kraken Fed Com #208H** between 9,978 feet and 20,399 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

i. The **DL 10 3 Kraken Fed Com #209H** between 9,947 feet and 20,368 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

j. The **DL 15 22 Narwhal Fed Com #219H** between 10,202.5 feet and 20,471.5 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

k. The **DL 15 22 Narwhal Fed Com #220H** between 9,874.7 feet and 20,301.4 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

l. The **DL 15 22 Narwhal Fed Com #221H** between 9,842.2 feet and 20,257.5 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

m. The **DL 10 15 Ogopogo Fed Com #422H** between 11,572 feet and 21,963 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846];

n. The **DL 10 15 Ogopogo Fed Com #423H** between 11,271 feet and 21,677 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846]; and

o. The **DL 10 15 Ogopogo Fed Com #424H** between 11,537 feet and 21,927 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846]. *See* **Exhibit A at pages 71-101 (CLGC Wellbore Schematics)**.

9. A map showing the pipeline with ties to the CLGC wells, area gathering system, and the related compression station and central tank battery, is shown in **Exhibit A at page 5 (Facilities Map)**. A schematic block diagram showing the layout of the facilities is also shown in **Exhibit A at page 6 (Block Diagram)**.

WELL DATA

10. Information on the as-drilled wells, including wellbore diagrams, identification and location information, casing and cementing details, tubing details, packers, perforation depths, and formations tops, are shown in **Exhibit A at pages 71-101 (CLGC Wellbore Schematics)**. The same information is included in tabular form at **Exhibit A at pages 102-104 (DLKCLGC CLGC Well List Tab)**.

11. The proposed MASP, assuming a full column of reservoir brine water, will not exert a pressure at the top perforation more than 90% of the production casing or liner's burst pressure. The MASP is not projected to exceed 0.14 psi/ft in any of the proposed CLGC wells during injection operations. *See* **Exhibit A at page 10 (MASP Calculations)**.

12. Cement bond logs for each of the proposed CLGC wells will be electronically submitted to the Division's well file for review and approval by the Division prior to commencement of injection as a condition of approval. These logs will demonstrate that the placement of cement and cement bond of the production casing and the tie-in of the production casing with the next prior casing are sufficient.

13. Similarly, each CLGC well will be subject to a Division-witnessed Mechanical Integrity Test (MITs) prior to commencement of injection to confirm wellbore integrity as a condition of approval.

GEOLOGY

14. Data, maps, and geologic analyses confirming that the Lower Avalon and Second Bone Spring formation, including the targeted injection intervals, is suitable for the proposed CLGC project are included in **Exhibit A at pages 12-21 (Geology)**. The data includes a general characterization of the formation, identification of the confining layers and their suitability to prevent vertical movement of the injected gas, and depth and identity of the adjacent zones. *Id*.

15. The top of the Bone Spring formation in this area is at approximately 8,750 feet total vertical depth and extends down to the top of the Wolfcamp formation. *See* **Exhibit A at page 13 (Dagger Lake Type Log)**.

16. Zones that are productive of oil and gas are located above and below the targeted injection intervals. *See Id*. Multiple tight low porosity and low permeability confining layers serve to contain the proposed injection within the injection intervals. *See Id*.

17. Modeling indicates that the fracture half-length for each CLGC is less than 350 feet, suggesting that the CLGC wells are not connected and not in communication with offset wells. Modeling further shows that injected gas is expected to stay within the stimulated rock volume near the injection wellbores and will not reach offsetting wells and will stay within the injection interval. *See* **Exhibit A at page 28 (Anticipated Horizontal Movement of Injected Gas)**.

18. The estimated stimulated reservoir volume and supporting engineering and technical review confirming suitability for temporary injection for the proposed CLGC wells are included in **Exhibit A at pages 22-23, 25, 28, 31-32 & 34 (Reservoir)**.

19. The geologic and engineering analysis confirms that there will be no measurable impact on recovery from the target injection interval, primarily because the injected volume is small and, consequently, results in minimal reservoir pressure increase. *See* **Exhibit A at pages 32 & 34 (Reservoir); *See also* Geology and Engineering Statement II at page 55**.

20. The source gas for injection will be diverted at the outlet of the Dagger Lake compressor for the production of Chevron's wells within the Dagger Lake area identified in **Exhibit A at page 4 (Project Summary)**. The source of gas for injection will be from Chevron's wells producing from the Bone Spring formation in the Dagger Lake area that are identified in the list of wells in **Exhibit A at page 39 (List of Source Gas Wells)**. Additional source wells may be added over time under an approved surface commingling authorization. Each of Chevron's proposed injection wells are operated by Chevron.

21. Chevron has prepared an analysis of the composition of the source gas for injection and a corrosion prevention plan. *See* **Exhibit A at pages 39 & 40 (Gas Source Comp Analysis and Corrosion Prevention Plan)**.

22. Chevron has examined the available geologic and engineering data and found no evidence of open faults or other hydrogeological connections between the disposal zone and any underground source of drinking water. *See* **Exhibit A at page 54 (Geology and Engineering Statement I)**. Chevron has also examined the available geologic and engineering data and determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the project. *See* **Exhibit A at page 55 (Geology and Engineering Statement II)**.

GAS ALLOCATION

23. Chevron proposes to allocate gas volumes between temporarily injected produced gas and native gas following temporary injection events using a mass balance methodology for injection events that last less than seven days, and a gas-to-oil ratio ("GOR") methodology for injection events that last more than seven days. **Exhibit A at page 36 (Gas Accounting Example)** provides an overview of Chevron's proposed allocation methodology.

AREA OF REVIEW

24. Chevron has prepared maps depicting the surface hole location and trajectory of the proposed injection wells, the location of every well within a two-mile radius, leases within two miles, the half-mile area of review, as well as a map showing offsetting wells within the Bone Spring formation within one quarter mile of each proposed CLGC. *See* **Exhibit A (1) 2-mile radius map with 1/2-mile AOR and project area boundary (page 43), (2) lease map (page 44), (3) 1/2-mile AOR map (page 46), and (4) 1/4-mile offset map (page 47)**.

25. A tabulation of data for all wells of public record that penetrate either the proposed injection zone or the confining layer within the AOR is shown in **Exhibit A at pages 105-111 (DLKCLCG Halfmile AOR Csg Info Tab)**. Wellbore schematics for wells that are plugged or abandoned are shown in **Exhibit A at pages 112-127 (PA Well Info Tab and Wellbore Schematics)**.

OPERATIONS AND SAFETY

26. Chevron will monitor the oil and gas production and injection flow rates, tubing pressure, and annulus pressure for all casing strings for each CLGC well. The details of the operational plan are provided in **Exhibit A page 50-52 (Summary of Operational Plan)**. The plan includes automated safety devices under the control of a supervisory control and data acquisition (SCADA) system.

27. Each CGLC well will be continuously monitored following an injection event, as required by recent Division CGLC orders.

28. A copy of this application will be provided by certified mail to the surface owner on which each injection well identified herein is located, and to each leasehold operator and other affected persons within any tract wholly or partially contained within one-half mile of the completed interval of the wellbore for each of the proposed injection wells. A copy of the affected parties subject to notice, along with a map and a list identifying each tract and affected persons given notice, will be provided in advance of the hearing.

29. Approval of this application is in the best interests of conservation, the prevention of waste, and the protection of correlative rights.

WHEREFORE, Chevron U.S.A. Inc. requests that this Application be set for hearing before an Examiner of the Oil Conservation Division on September 12, 2024, and that after notice and hearing this Application be approved.

Respectfully submitted,

HOLLAND & HART LLP

By: _____

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ATTORNEYS FOR CHEVRON U.S.A. INC.

CASE _____: **Application of Chevron U.S.A. Inc. for a Closed Loop Gas Capture Injection Pilot Project, Lea County, New Mexico.** Applicant in the seeks an order authorizing it to engage in a closed loop gas capture injection pilot project ("Pilot Project") in the Bone Spring formation within a 4,800-acre, more or less, project area consisting of the following acreage identified below in Lea County, New Mexico (the "Project Area"):

Township 21 South, Range 33 East

Section 33:	All

Township 22 South, Range 33 East

Section 3:	All
Section 4:	All
Section 9:	All
Section 10:	All
Section 15:	All
Section 16:	E/2
Section 22:	All

Applicant proposes to occasionally inject produced gas from the Bone Spring formation into the following producing wells to avoid temporary flaring of gas or the shut-in of producing wells during pipeline capacity constraints, mechanical difficulties, plant shutdowns, or other events impacting the ability to deliver gas into a pipeline:

- **DL 4 33 Loch Ness Federal Com #4H** (API No. 30-025-46644);
- **DL 4 33 Loch Ness Federal Com #5H** (API No. 30-025-46645);
- **DL 4 33 Loch Ness Federal Com #6H** (API No. 30-025-46646);
- **DL 9 16 Loch Ness Federal Com #16H** (API No. 30-025-46647);
- **DL 9 16 Loch Ness Federal Com #17H** (API No. 30-025-46648);
- **DL 9 16 Loch Ness Federal Com #18H** (API No. 30-025-46649);
- **DL 10 3 Kraken Fed Com #207H** (API No. 30-025-49078);
- **DL 10 3 Kraken Fed Com #208H** (API No. 30-025-49079);
- **DL 10 3 Kraken Fed Com #209H** (API No. 30-025-49080);
- **DL 15 22 Narwhal Fed Com #219H** (API No. 30-025-49081);
- **DL 15 22 Narwhal Fed Com #220H** (API No. 30-025-49082);
- **DL 15 22 Narwhal Fed Com #221H** (API No. 30-025-49083);
- **DL 10 15 Ogopogo Fed Com #422H** (API No. 30-025-49906);
- **DL 10 15 Ogopogo Fed Com #423H** (API No. 30-025-49907); and

- **DL 10 15 Ogopogo Fed Com #424H** (API No. 30-025-49908).

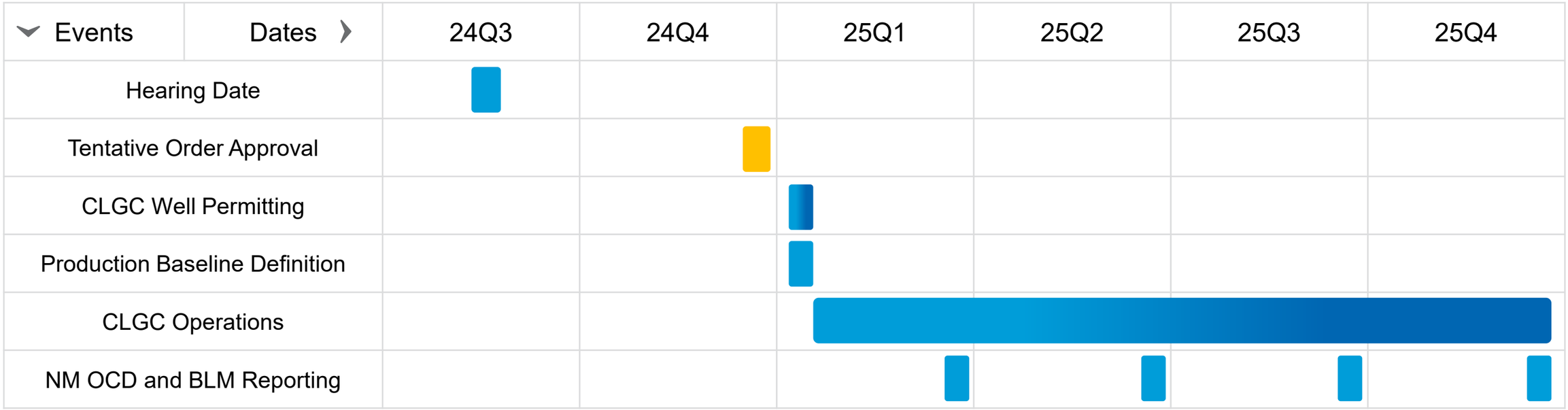
Chevron seeks authority to inject produced gas into the Lower Avalon and Second Bone Spring intervals of the Bone Spring formation along the horizontal portion of each wellbore at surface injection pressures of no more than 1,250 psi and a maximum injection rate of 6 MMSCF/day. The subject acreage is located approximately 24 miles west of Eunice, New Mexico.

PROJECT SUMMARY

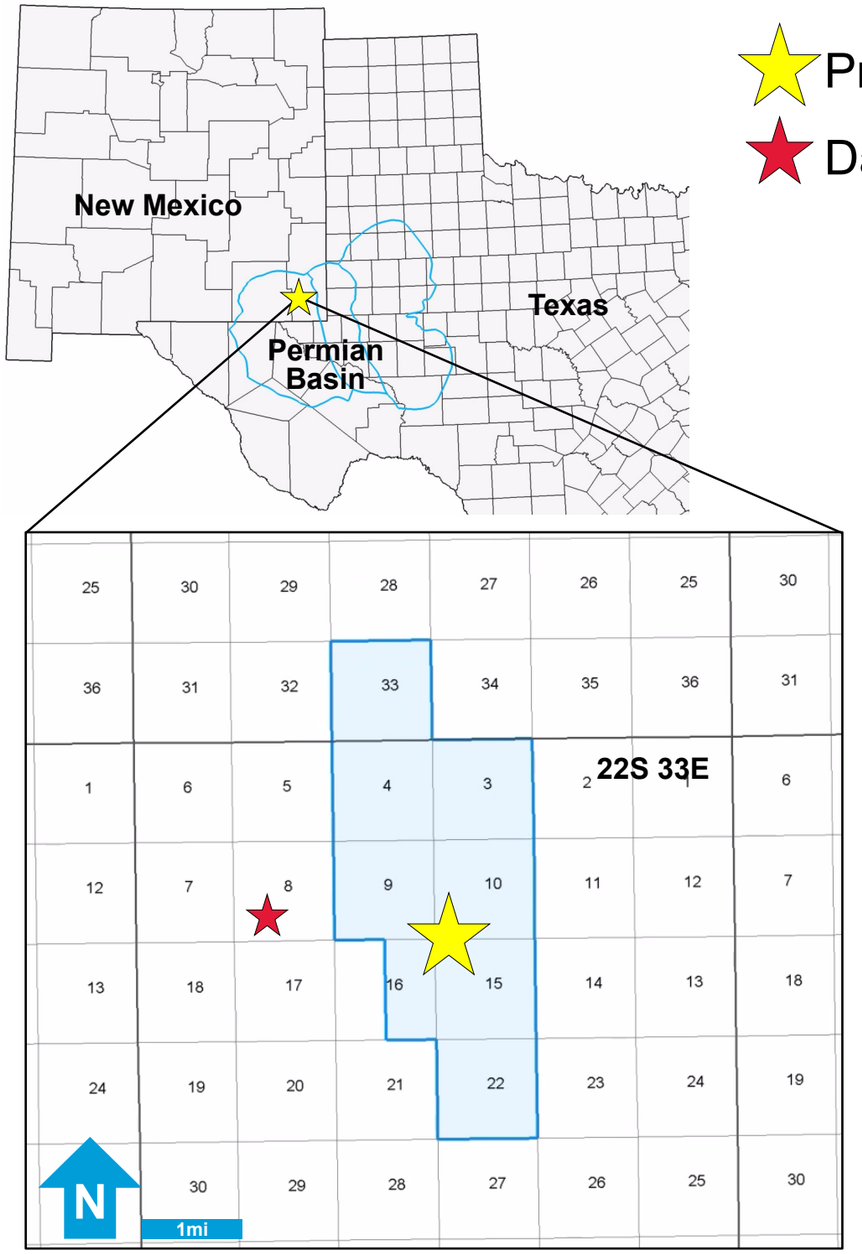
a) General description and timeline or Gantt chart of the project.
b) Lease map depicting:
   i. CLGC area outlined;
   ii. lateral(s) for each CLGC well;
   iii. the pipeline that ties or proposed to tie the CLGC well into the gathering system; and
   iv. area the gathering system incorporates including affected compressor stations.
c) Identification of CLGC well(s) in the project.

EXHIBIT
A

Project Timeline



Regional Location Map and Generalized Stratigraphy



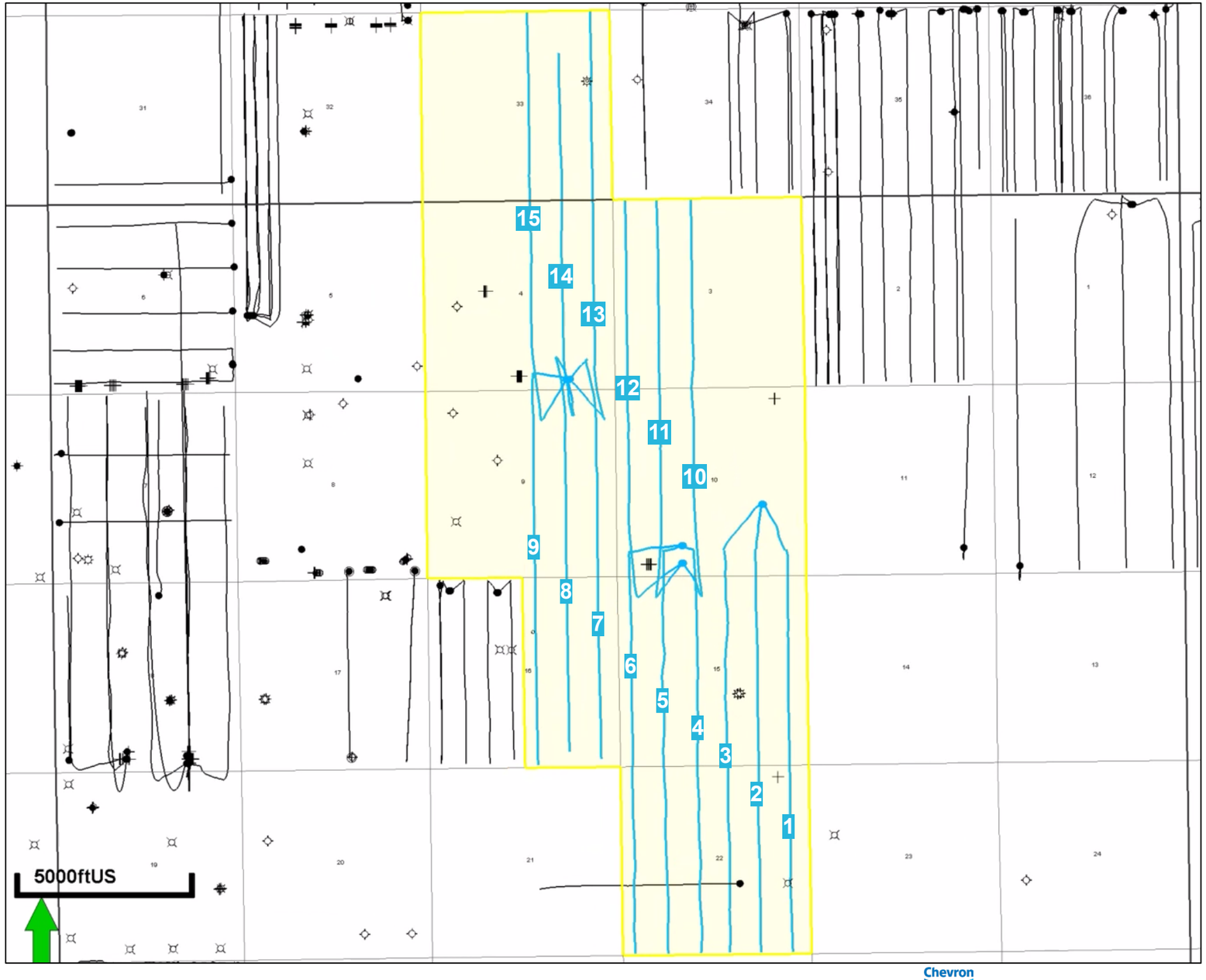
Proposed periodic injection location and intervals

Dagger Lake Type Log Well (Merchant 8 Fed 1)

Dagger Lake Generalized Stratigraphic Section

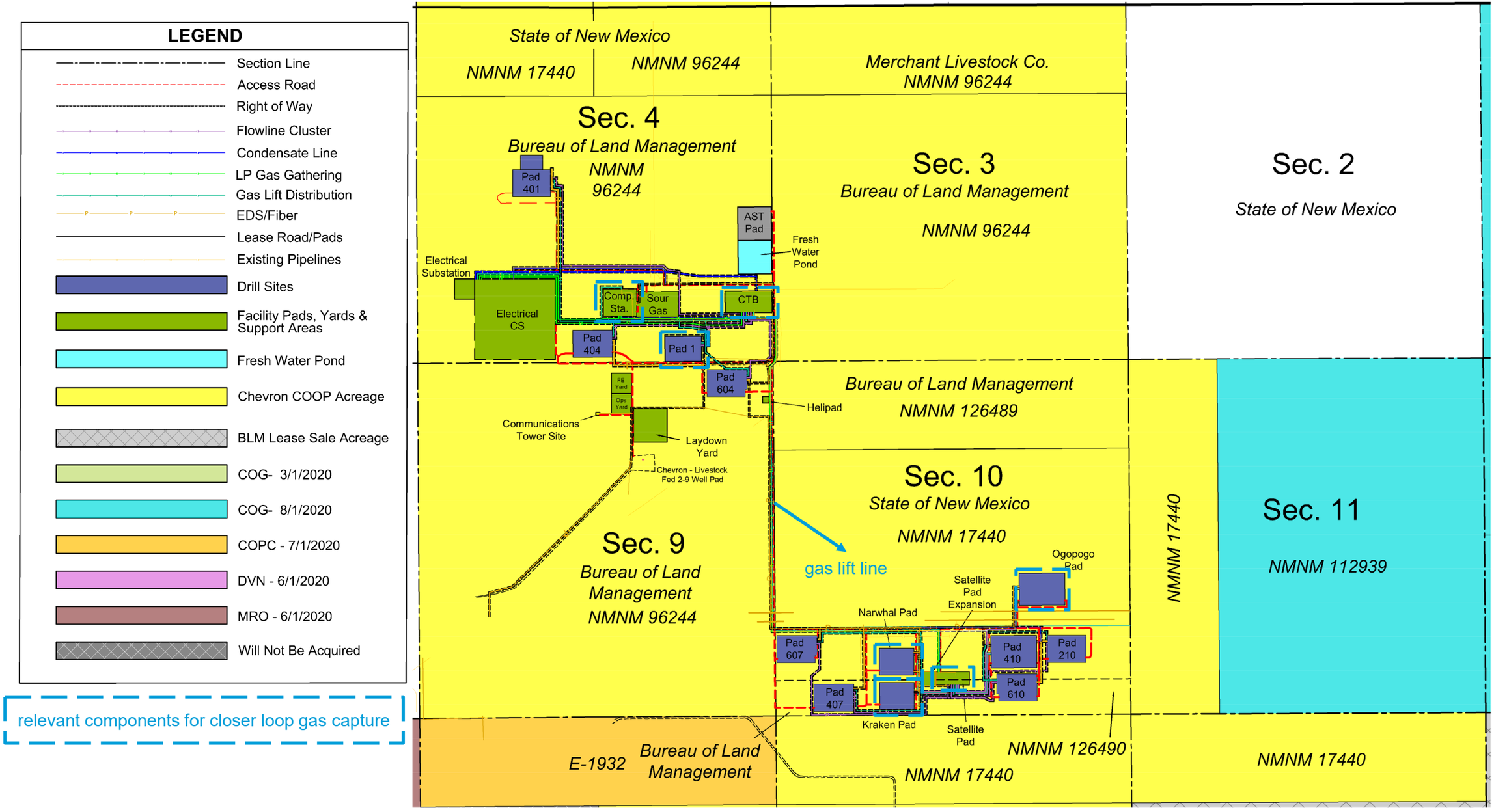
Formation Top	Lithology	~TVD (ft)	~TVDSS (ft)	~Thickness TVFT (ft)
Ground Level			3,572	
Dockum Group	Sandstone	255	3,516	722
Rustler	Dolomite/Anhydrite	977	2,620	1299
Salado	Halite	2,276	1,338	661
Castile	Gypsum/Anhydrite	2,937	660	1936
Delaware Mountain Group	Sandstone	4,873	-1.273	4012
Upper Avalon	Siliceous mudstone	8,885	-5,258	231
Upper Avalon 2	Carbonate with silica-rich mudstone	9,116	-5,519	216
Lower Avalon	Silica-rich mudstone	9,332	-5,735	541
First Bone Spring	Silica-rich mudstone	9,873	-6,276	580
Second Bone Spring	Silica-rich mudstone and sandstone	10,453	-6,858	1219
Third Bone Spring	Silica-rich mudstone and limestone	11,672	-8,069	240
Wolfcamp	Siliceous mudstone and sandstone	11,912	-8,315	

Project Summary

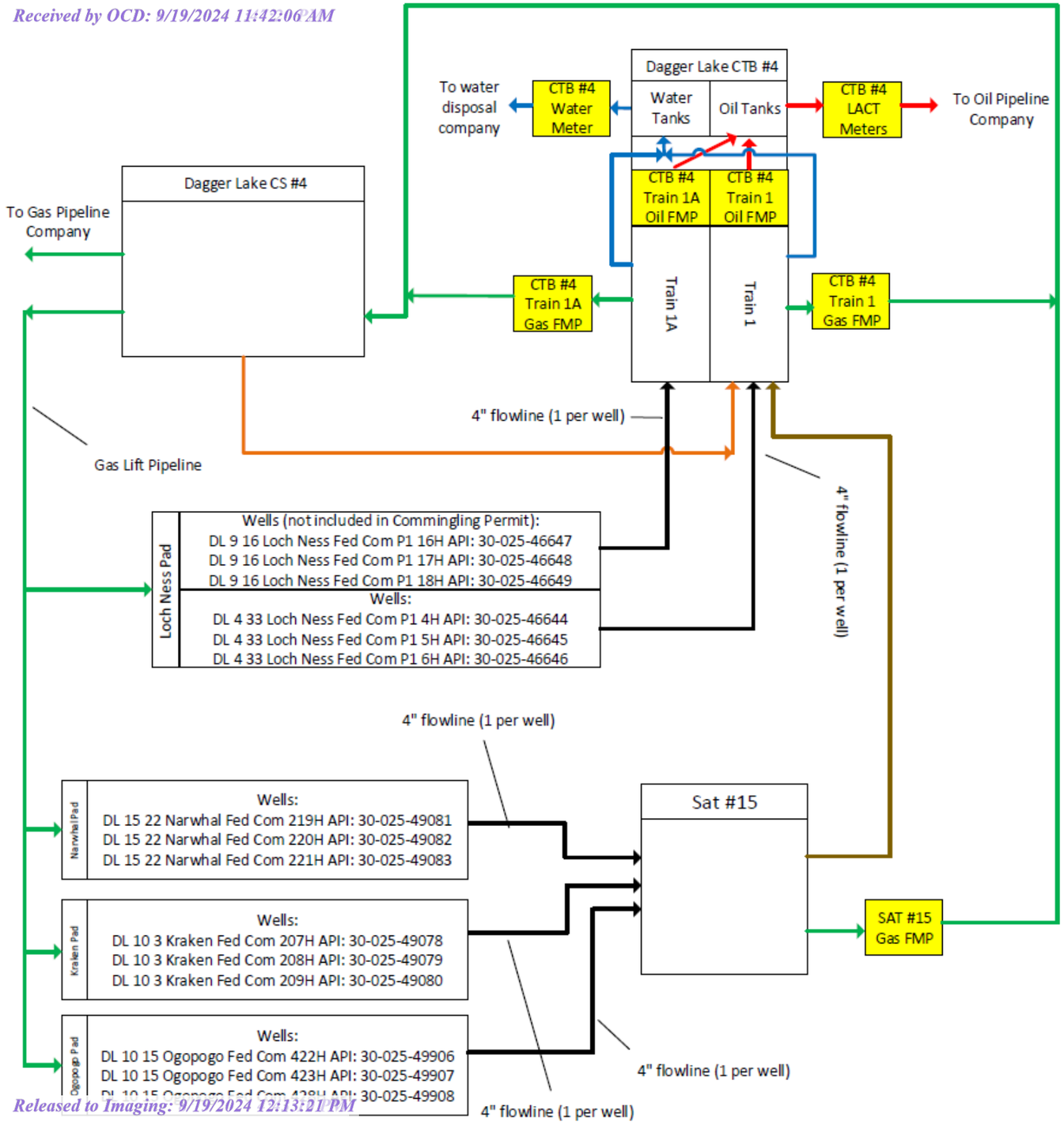


	Well Name	Well Num
1	DL 10 15 OGOPOGO FED COM	422H
2	DL 10 15 OGOPOGO FED COM	423H
3	DL 10 15 OGOPOGO FED COM	424H
4	DL 15 22 NARWHAL FED COM	221H
5	DL 15 22 NARWHAL FED COM	220H
6	DL 15 22 NARWHAL FED COM	219H
7	DL 9 16 LOCH NESS P1 FED COM	018H
8	DL 9 16 LOCH NESS P1 FED COM	017H
9	DL 9 16 LOCH NESS P1 FED COM	016H
10	DL 10 3 KRAKEN FED COM	209H
11	DL 10 3 KRAKEN FED COM	208H
12	DL 10 3 KRAKEN FED COM	207H
13	DL 4 33 LOCH NESS P1 FED COM	006H
14	DL 4 33 LOCH NESS P1 FED COM	005H
15	DL 4 33 LOCH NESS P1 FED COM	004H

Facilities



Block diagram



Legend	
Multi-Phase Flow	
Oil & Water Flow	
Water Flow	
Gas Flow	
Oil Flow	
Condensate Flow	

Chevron U.S.A.

Dagger Lake Development Area

Full Field Block Flow Diagram

Lea County, New Mexico

February 2024

WELL DATA

a) Well diagram that includes the following in both tabular and schematic form:
   i. lease name, well number, location by section, township and range, and footage location within the section;
   ii. each installed casing string with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined;
   iii. a description of the tubing to be used including its size, lining material, and setting depth;
   iv. the name, model, and setting depth of the packer used or a description of any other seal system or assembly used if applicable;
   v. perforation depths; and
   vi. formation tops.

WELL DATA

b) A proposed MASP and supporting data, including:
   i. current average surface pressure under normal operations;
   ii. maximum achievable surface pressure with current infrastructure;
   iii. plan to install additional infrastructure to achieve proposed MASP, if applicable;
   iv. plan to monitor and limit the surface pressure from exceeding the proposed MASP;
   v. confirmation that the proposed MASP with a full fluid column of reservoir brine water will not exert pressure at the top perforation more than ninety percent (90%) of the production casing or liner's burst pressure;
   vi. if the proposed MASP exceeds 0.14 psi/ft, a statement and supporting data that the proposed MASP will not exert pressure at the top perforation more than ninety percent (90%) of the formation parting pressure.

c) A cement bond log (CBL) which demonstrates the placement of cement and cement bond of the production casing and the tie-in of the production casing with the next prior casing.

d) A summary of all MITs performed on the CLGC well with at least one MIT conducted within the prior year using a pressure of at least one hundred ten percent (110%) of the proposed MASP or five hundred (500) psi, whichever is greater, including the results and chart depicting the surface pressure for the duration of the MIT.

Proposed MASP and Supporting Data

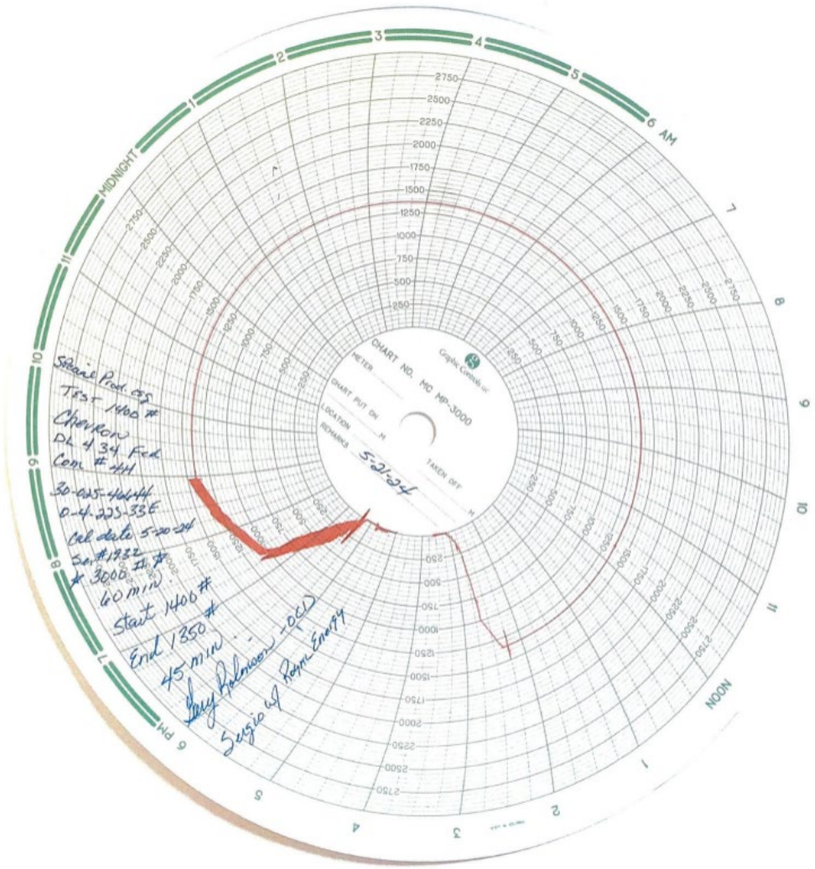
- The proposed average daily injection rate is 5 MMSCF/day with an expected maximum injection rate of 6 MMSCF/day during injection.
- The maximum allowable surface pressure (MASP) for the project wells is 1,250 psi. The current surface pressures under normal operations conditions for the wells is in the range of 800 to 1000 psi.
- Current facility design allows for operating at the proposed MASP, and it is currently not capable of exceeding the proposed MASP and will be monitored by remote location for pressure fluctuations.

MASP Calculations

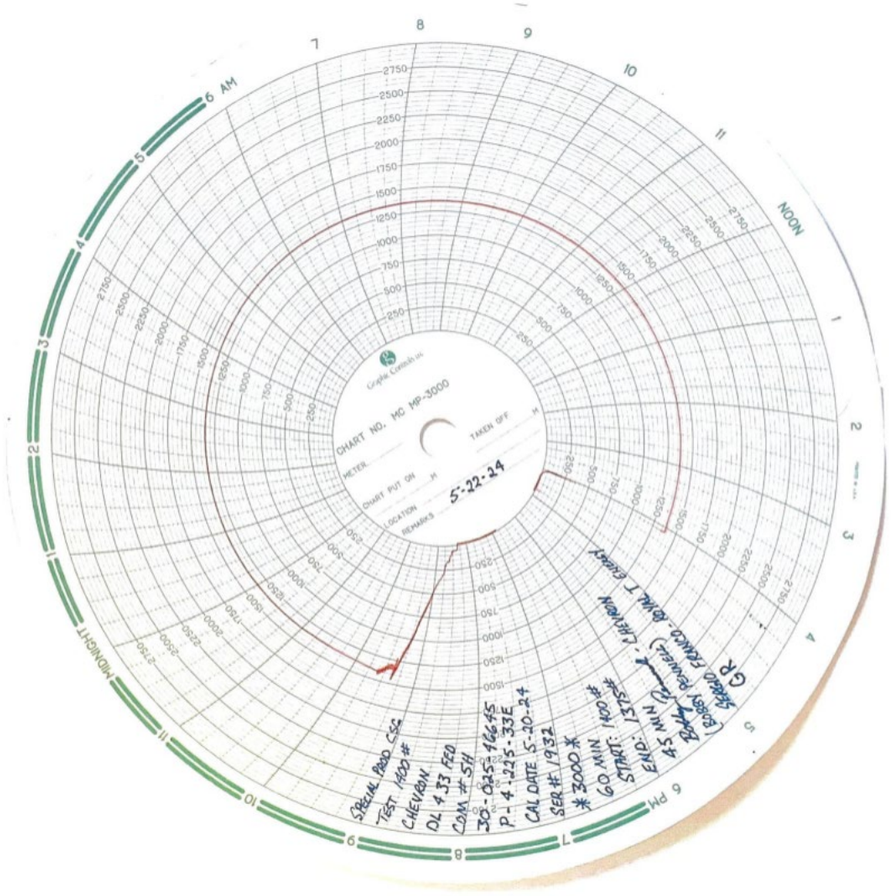
				Operating condition	Proposed MASP	Primary	Secondary	Primary	Secondary		Primary	Secondary	
Well Name	API14	Perf MD, ft	Perf TVD, ft	Current pressures, psi	Pressures, psi	Casing	Casing	Burst, psia	Burst, psia	psi at depth	% of MASP	% of MASP	MASP % to use
DL NARWHAL 219H	30025490810001	10203	9453.66	1058	1250	7" TN110SS	4.5" TN110SS	11220	10690	4395.95	39.2%	41.1%	41.1%
DL NARWHAL 220H	30025490820001	9875	9467.41	901	1250	7" TN110SS	4.5" TN110SS	11220	10690	4402.35	39.2%	41.2%	41.2%
DL NARWHAL 221H	30025490830001	9882	9480.97	925	1250	7" TN110SS	4.5" TN110SS	11220	10690	4408.65	39.3%	41.2%	41.2%
DL LOCH NESS 4H	30025466440001	10258	9558.68	838	1250	5.5" P110	N/A	14520	N/A	4444.79	30.6%	N/A	30.6%
DL LOCH NESS 5H	30025466450001	10501	9785	822	1250	5.5" P110	N/A	14520	N/A	4550.03	31.3%	N/A	31.3%
DL LOCH NESS 6H	30025466460001	10262	9565.68	748	1250	5.5" P110	N/A	14520	N/A	4448.04	30.6%	N/A	30.6%
DL KRAKEN 207H	30025490780001	10048	9453.24	838	1250	7" TN110SS	4.5" TN110SS	11220	10690	4395.76	39.2%	41.1%	41.1%
DL KRAKEN 208H	30025490790001	9978	9468	900	1250	7" TN110SS	4.5" TN110SS	11220	10690	4402.62	39.2%	41.2%	41.2%
DL KRAKEN 209H	30025490800001	9947	9483.67	798	1250	7" TN110SS	4.5" TN110SS	11220	10690	4409.91	39.3%	41.3%	41.3%
DL LOCHNESS 16H	30025466470001	9936	9554.16	853	1250	5.5" P110	N/A	14520	N/A	4442.68	30.6%	N/A	30.6%
DL LOCHNESS 17H	30025466480001	10511	9768.78	879	1250	5.5" P110	N/A	14520	N/A	4542.48	31.3%	N/A	31.3%
DL LOCHNESS 18H	30025466490001	10196	9563.6	748	1250	5.5" P110	N/A	14520	N/A	4447.07	30.6%	N/A	30.6%
DL OGOPOGO 422H	30025499060001	11572	10927.8	921	1250	7" TN110SS	N/A	11220	N/A	5081.43	45.3%	N/A	45.3%
DL OGOPOGO 423H	30025499070001	11271	10697.7	883	1250	7" TN110SS	N/A	11220	N/A	4974.43	44.3%	N/A	44.3%
DL OGOPOGO 424H	30025499080001	11537	10941.4	938	1250	7" TN110SS	N/A	11220	N/A	5087.75	45.3%	N/A	45.3%

MIT charts

Lochness 4H



Lochness 5H



GEOLOGY AND RESERVOIR

a) Data demonstrating that the CLGC area is geographically suitable for the project, including:
   i. general characterization of the formation;
   ii. identification of the confining layers and confirmation of their suitability to prevent vertical movement of the injected gas;
   iii. depth and identity of the next higher and lower oil or gas zone to the formation within the CLGC area; and
   iv. quantification of anticipated horizontal movement of the injected gas.
b) Data demonstrating that the reservoir within the CLGC area is suitable for the proposed project, including:
   i. proposed average and maximum daily rate and volume of gas to be injected;
   ii. estimated stimulated reservoir volume and supporting data for each well within the CLGC area;
   iii. reservoir modeling and a technical review of potential effects on wells adjacent to the CLGC area; and
   iv. review of potential effects on the reservoir caused by the injection of the gas which shall include the consideration of commingling fluids.

Dagger Lake Type Log

★ Proposed Injection Zone

Lower Avalon (AVL): interbedded silica-rich and carbonate-rich mudstone with nano-darcy permeability range.

Second Bone Spring Upper (SBU): silica-rich sandstone, siltstone, and calcareous mudstone with low permeability in nano-darcy range.

● Adjacent Oil & Gas Zones

Brushy Canyon (BCN): conventional reservoir very fine-grained sandstone with permeability in the milli-darcy range.

Upper Avalon (AVU): unconventional reservoir interbedded siliceous mudstone, siltstones and calcareous mudstones.

First Bone Spring Upper (FBU): unconventional reservoir interbedded siliceous mudstone, siltstones and calcareous mudstones.

Second Bone Spring Lower (SBL): fine to very fine grain sandstone and siltstone interbedded with calcareous mudstone.

■ Confining Layers

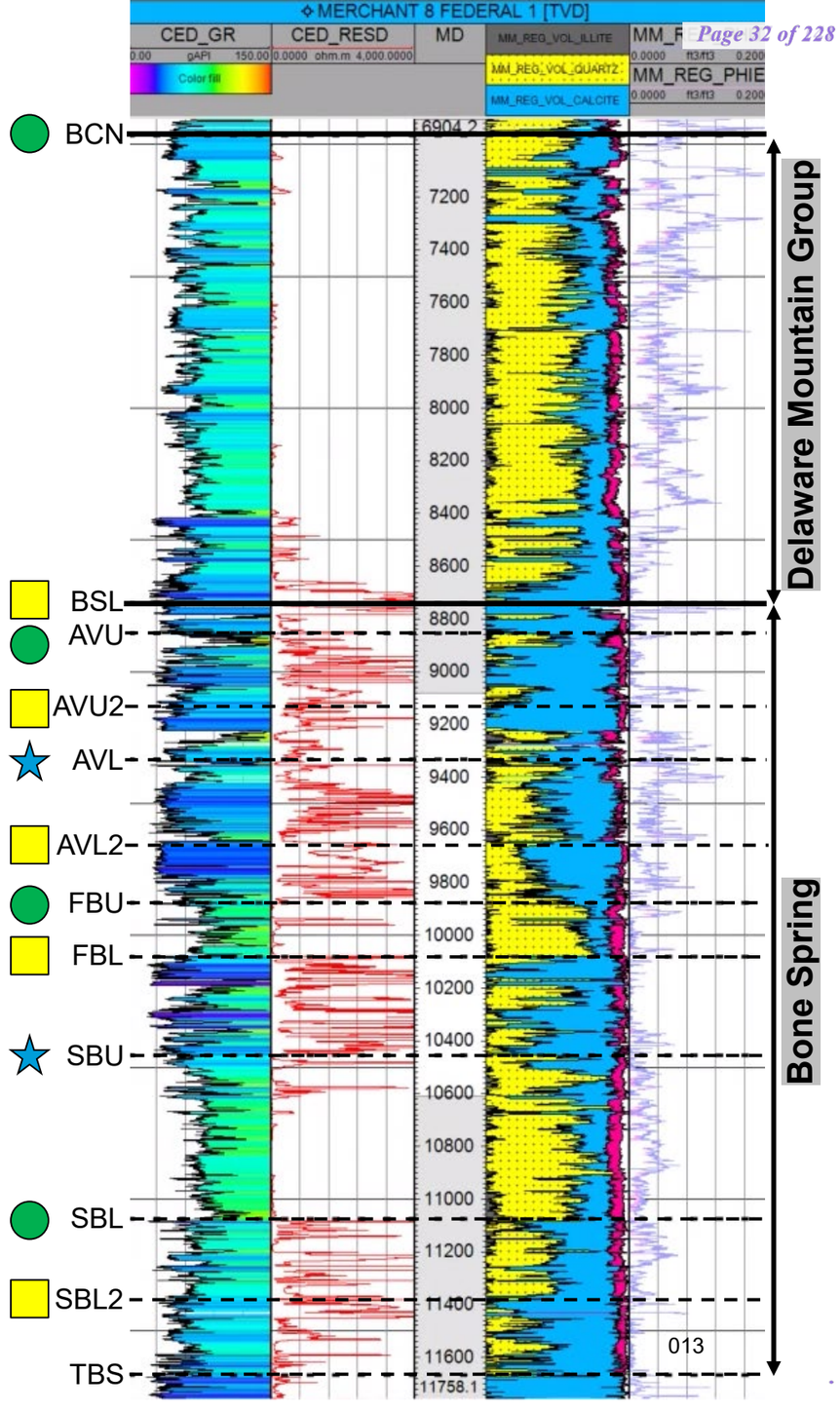
Bone Spring Limestone (BSL): approximately 115’ of tight limestone between Brushy Canyon and Upper Avalon.

Upper Avalon 2 (AVU2): approximately 300’ of tight carbonate interbedded with silica-rich mudstone.

Lower Avalon 2 (AVL2): approximately 200’ of tight carbonate interbedded with silica-rich mudstone.

First Bone Spring Lower (FBL): approximately 370’ of tight calcareous mudstone with silica-rich mudstone.

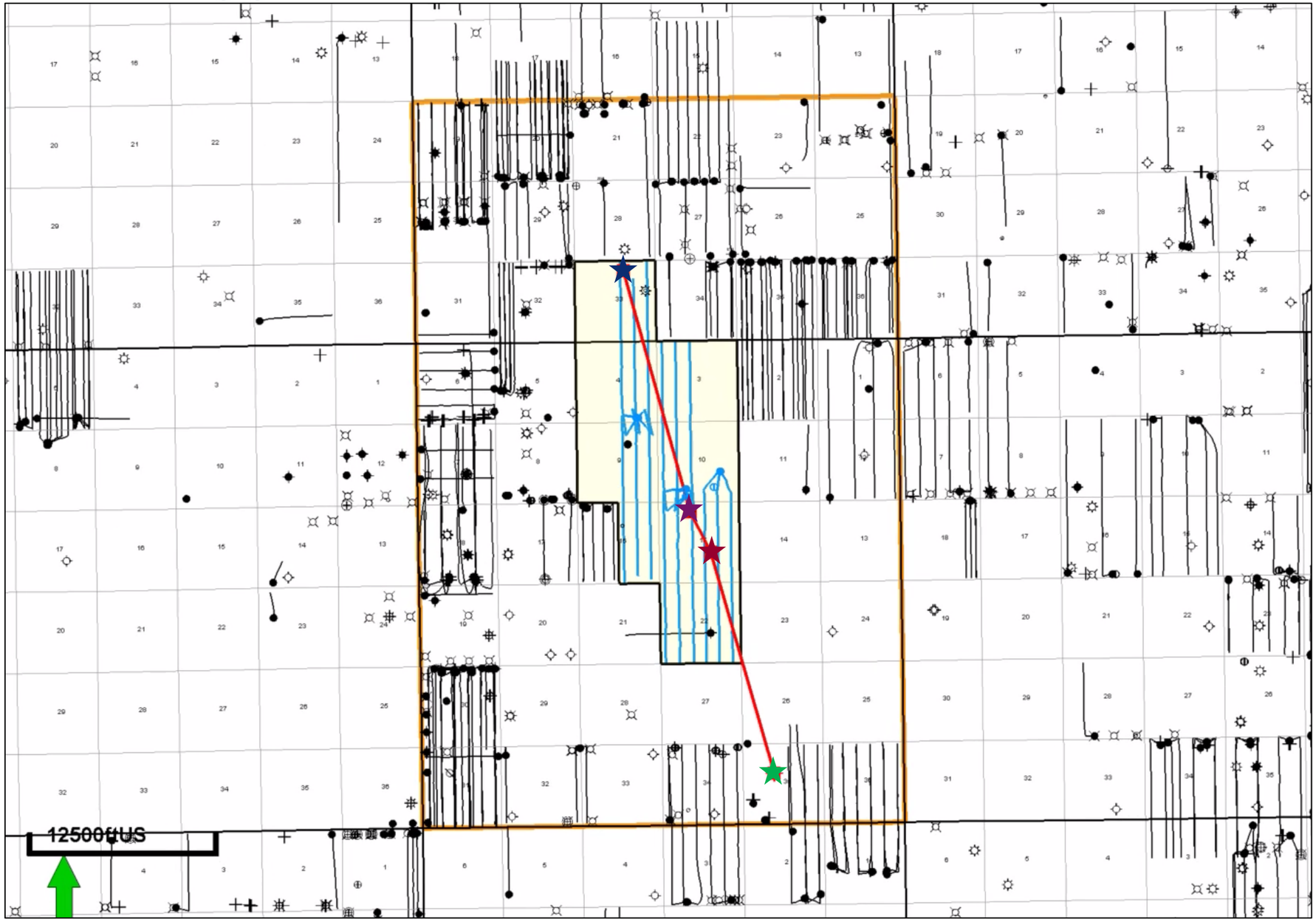
Second Bone Spring Lower 2 (SBL2): approximately 280’ of tight carbonate interbedded with silica-rich mudstone.



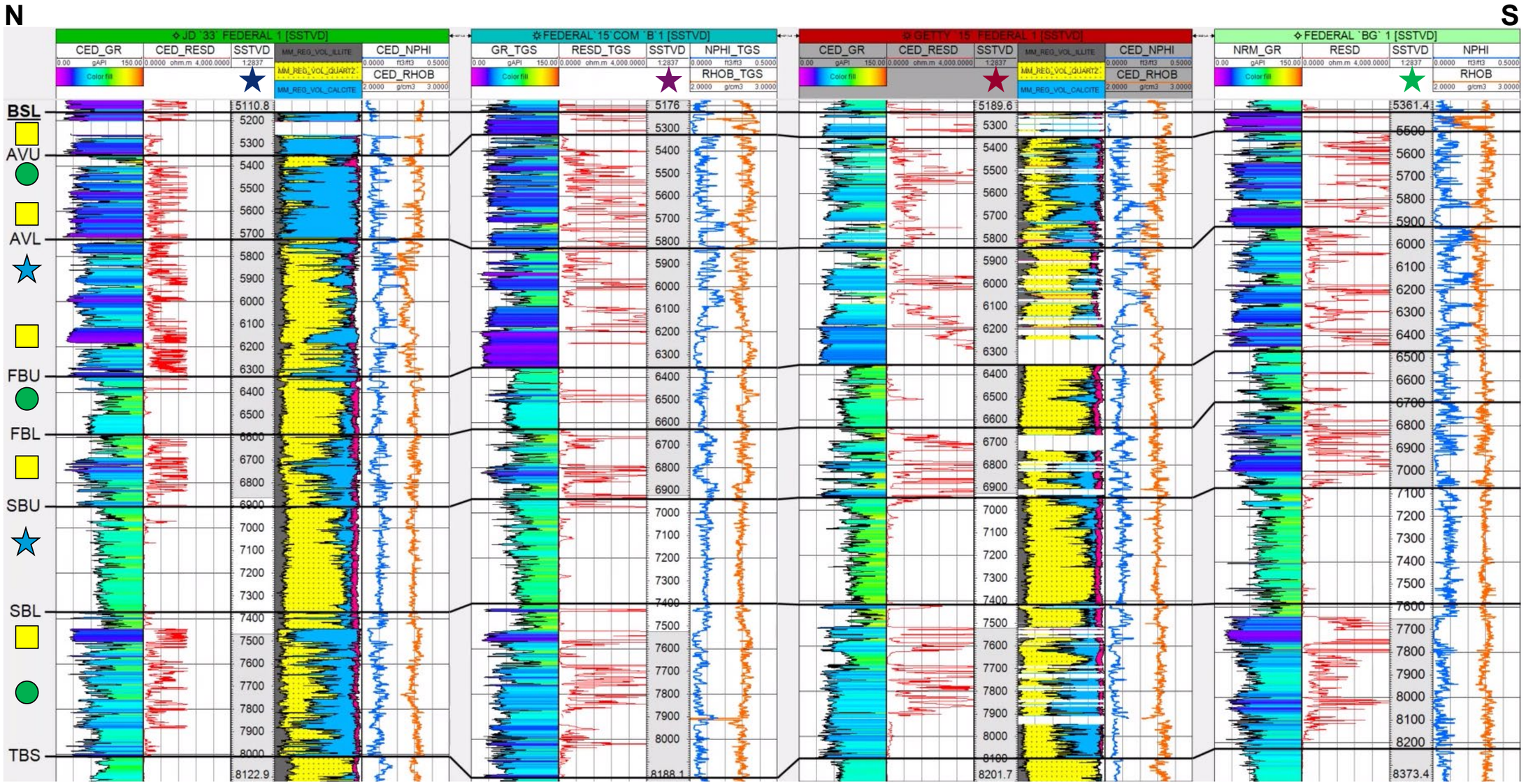
Dagger Lake Cross-Section Index Map

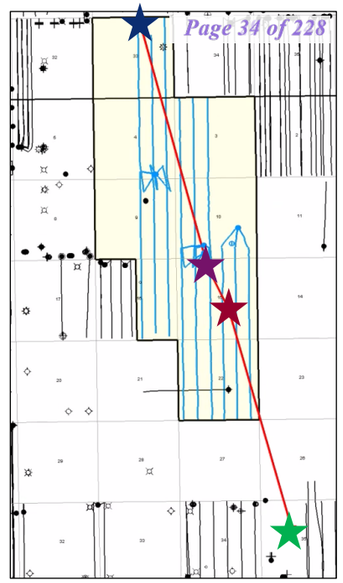
Key

- Injection Wells Trajectories
- Third Party Wells
- Cross-Section
- 2-Mile Radius Outline
- Chevron Acreage



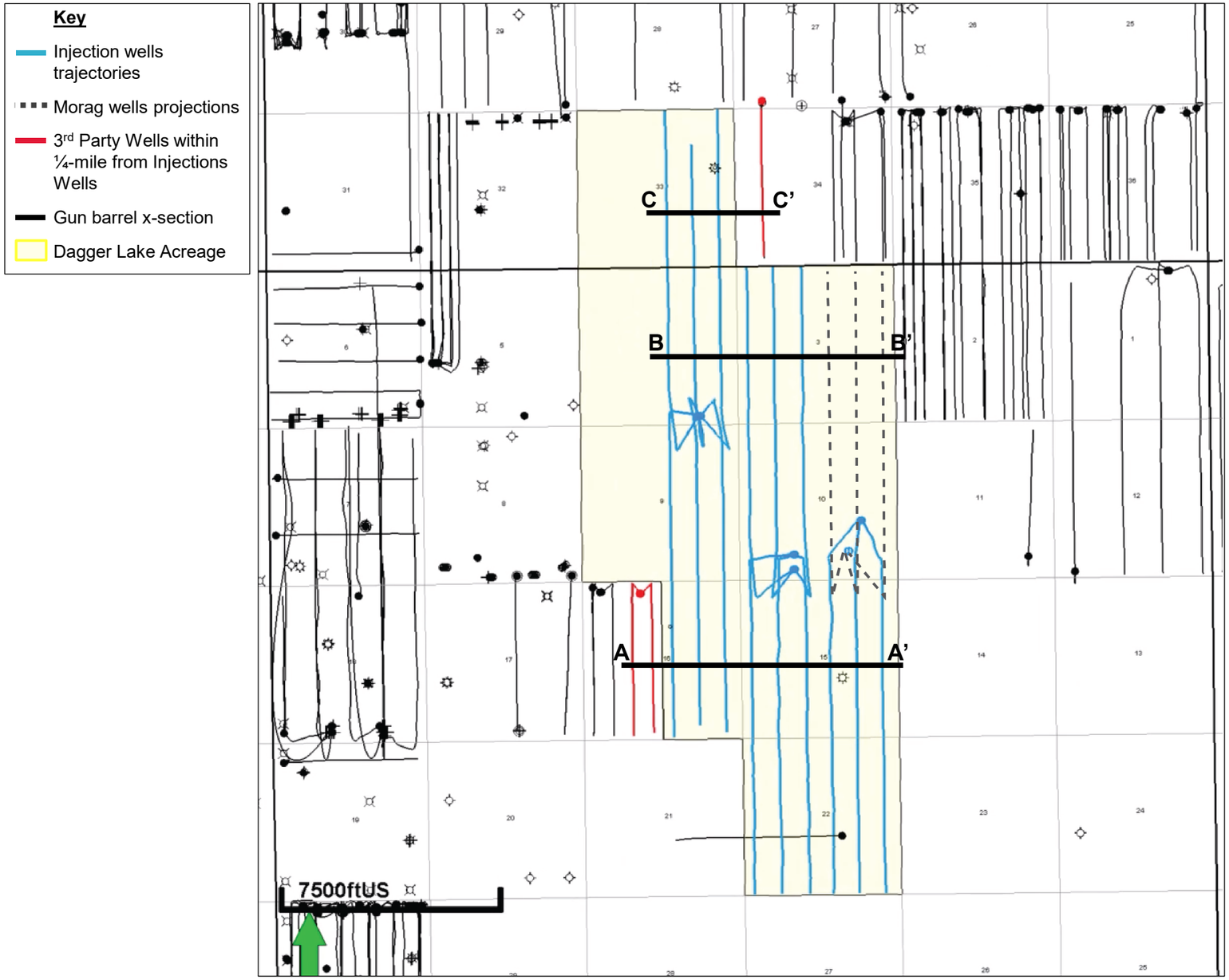
Dagger Lake Cross-Section



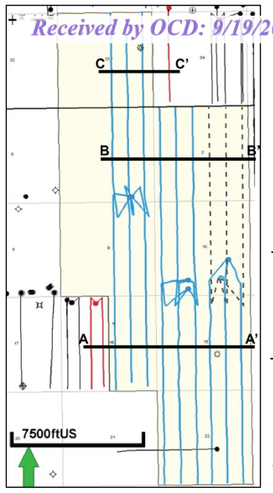


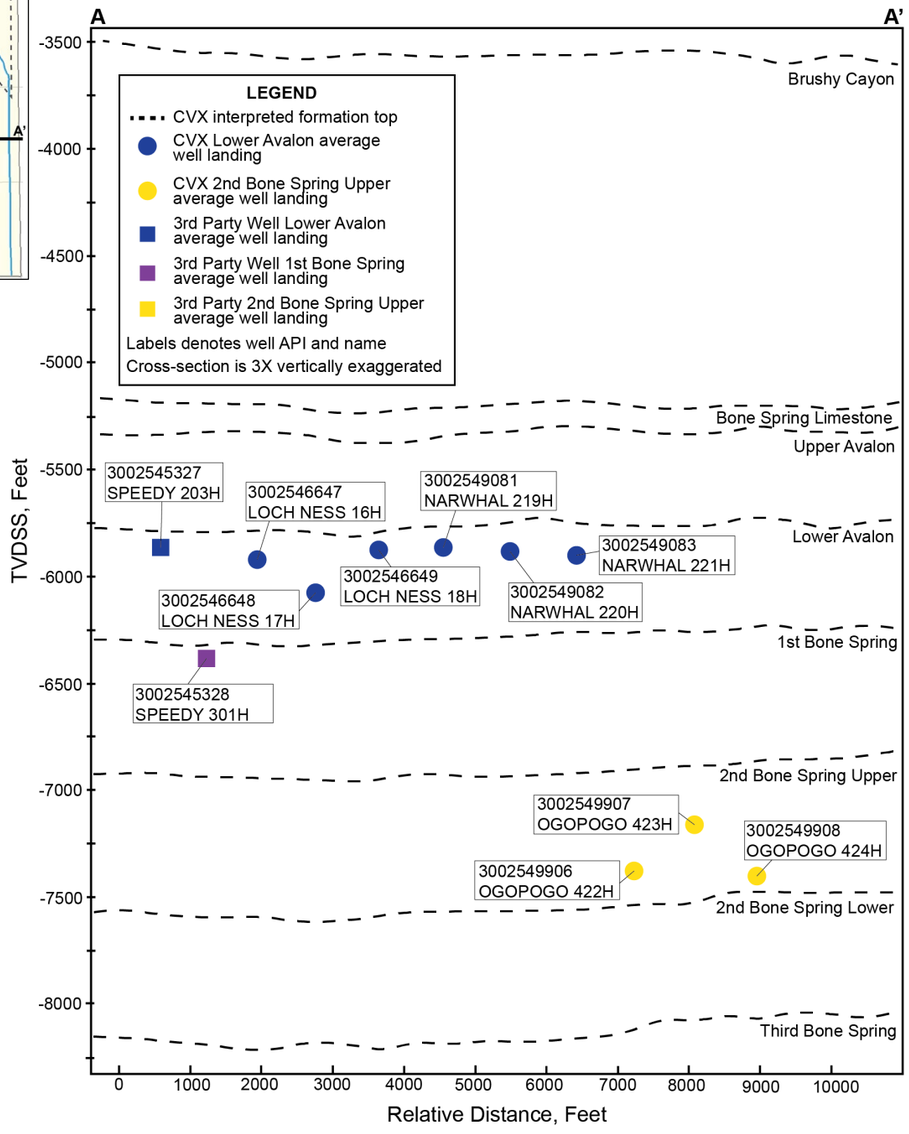
★ Proposed Injection Zone
● Adjacent Oil & Gas Zones
▭ Confining Layers

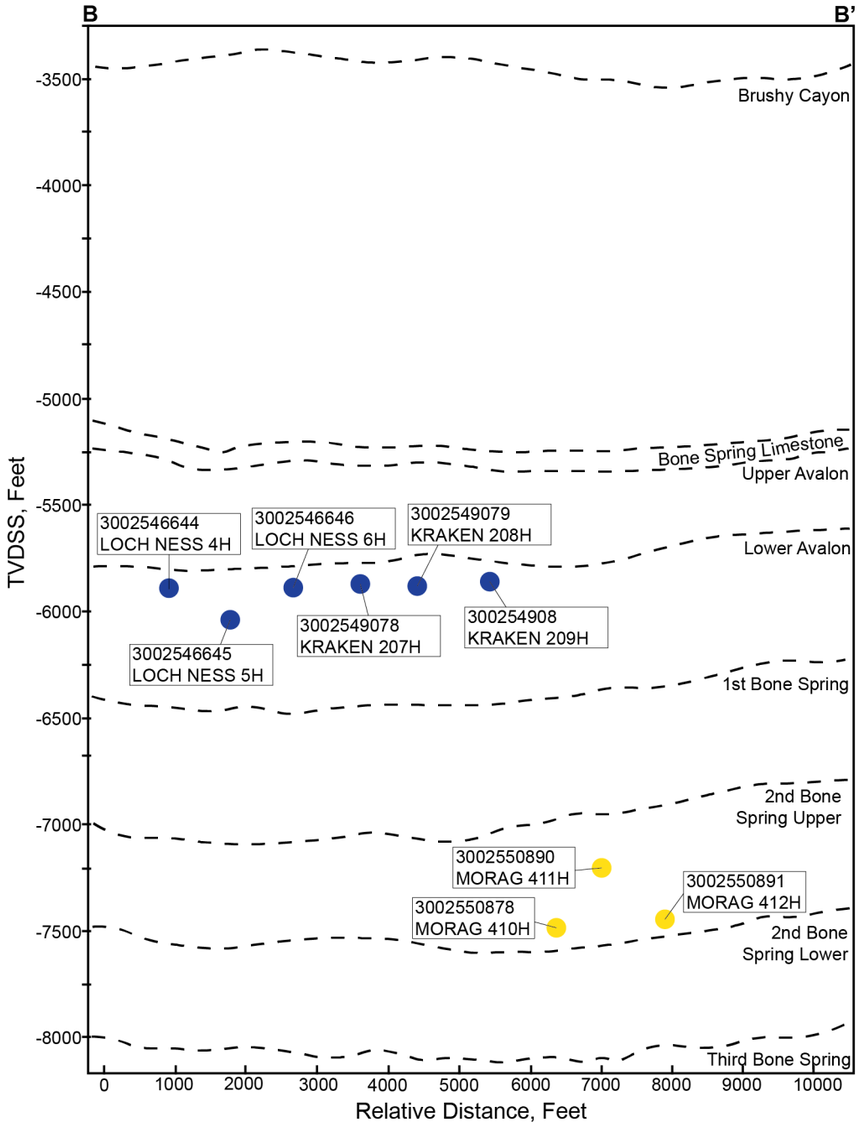
Dagger Lake Gun Barrels

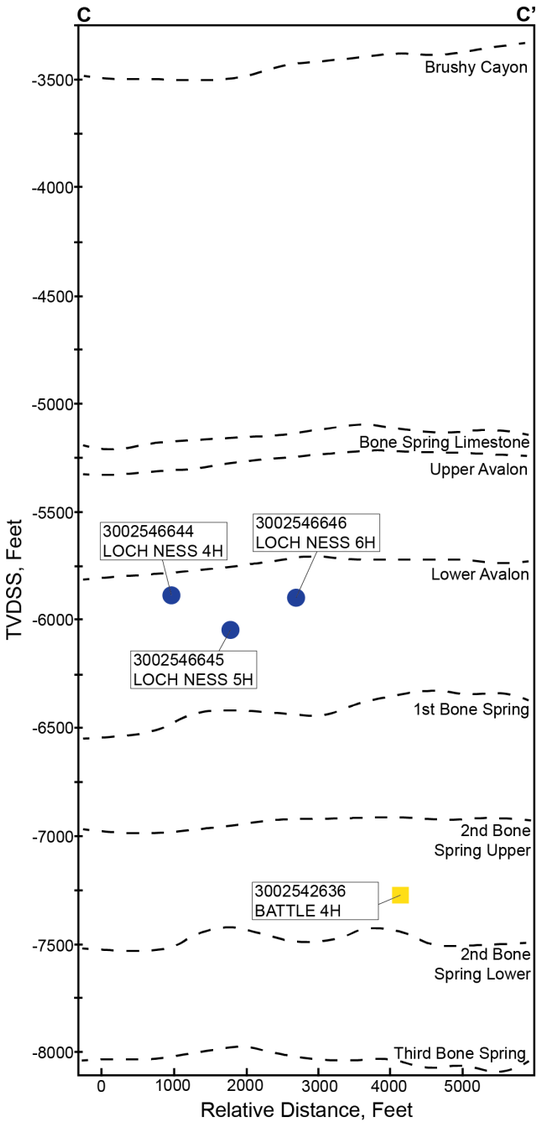


Dagger Lake Gun Barrels





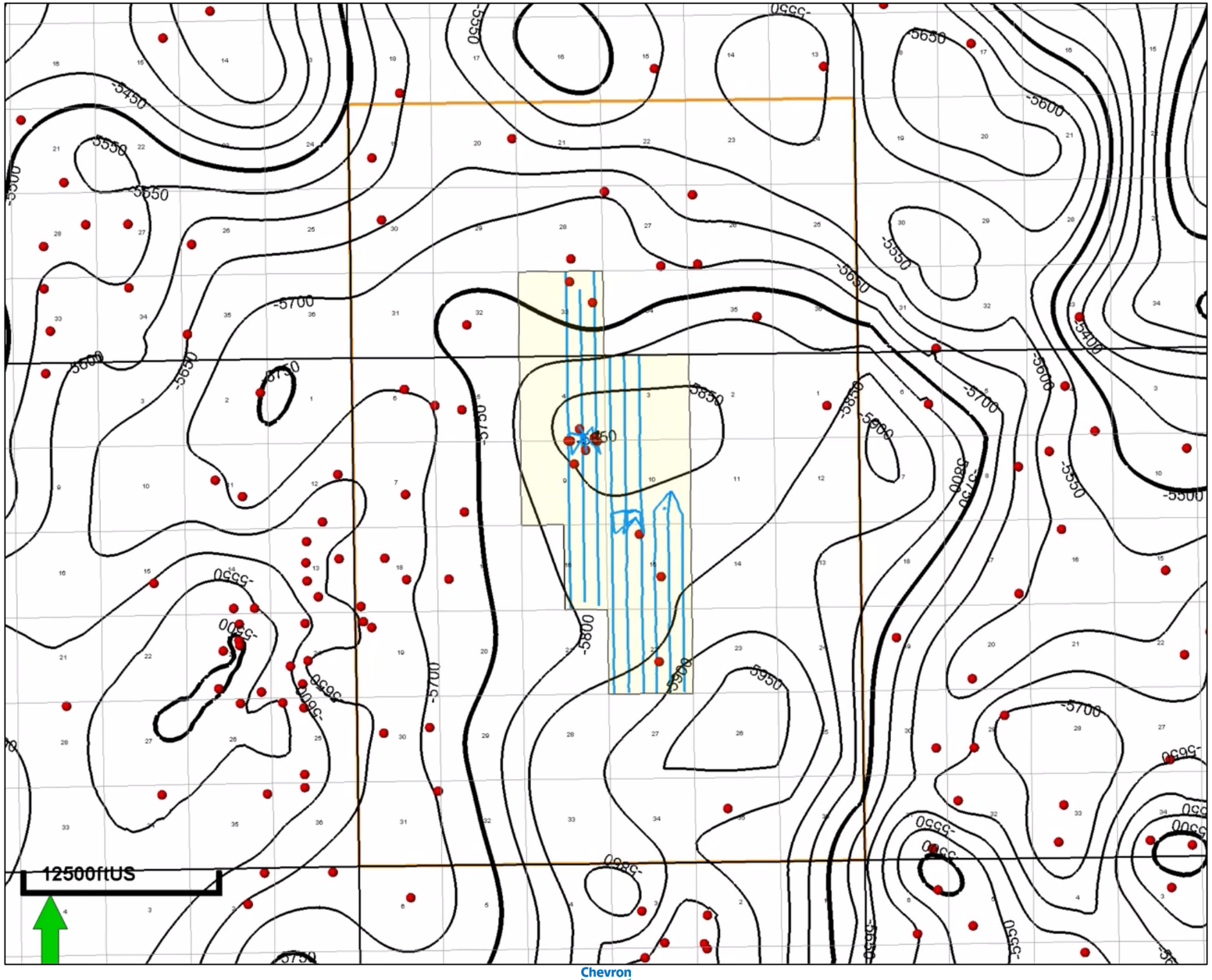




Dagger Lake Structure Map: Top of Lower Avalon (SSTVD)

Key

- Injection Wells Trajectories
- Contour Lines
- Control Points for Lower Avalon Structure Map
- 2-Mile Radius Outline
- Dagger Lake Acreage

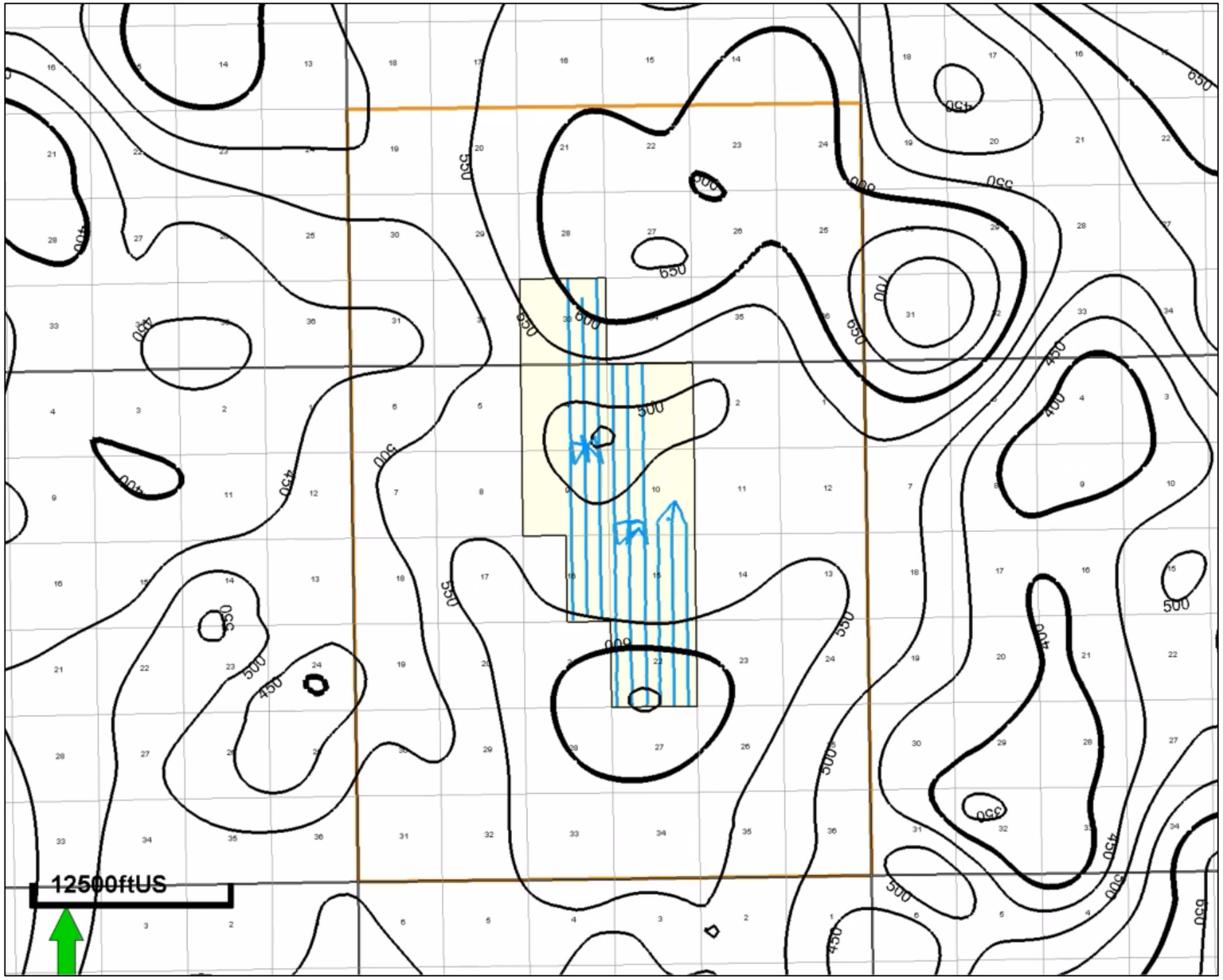


Dagger Lake Thickness Map: Lower Avalon

500’-600’ in thickness

Key

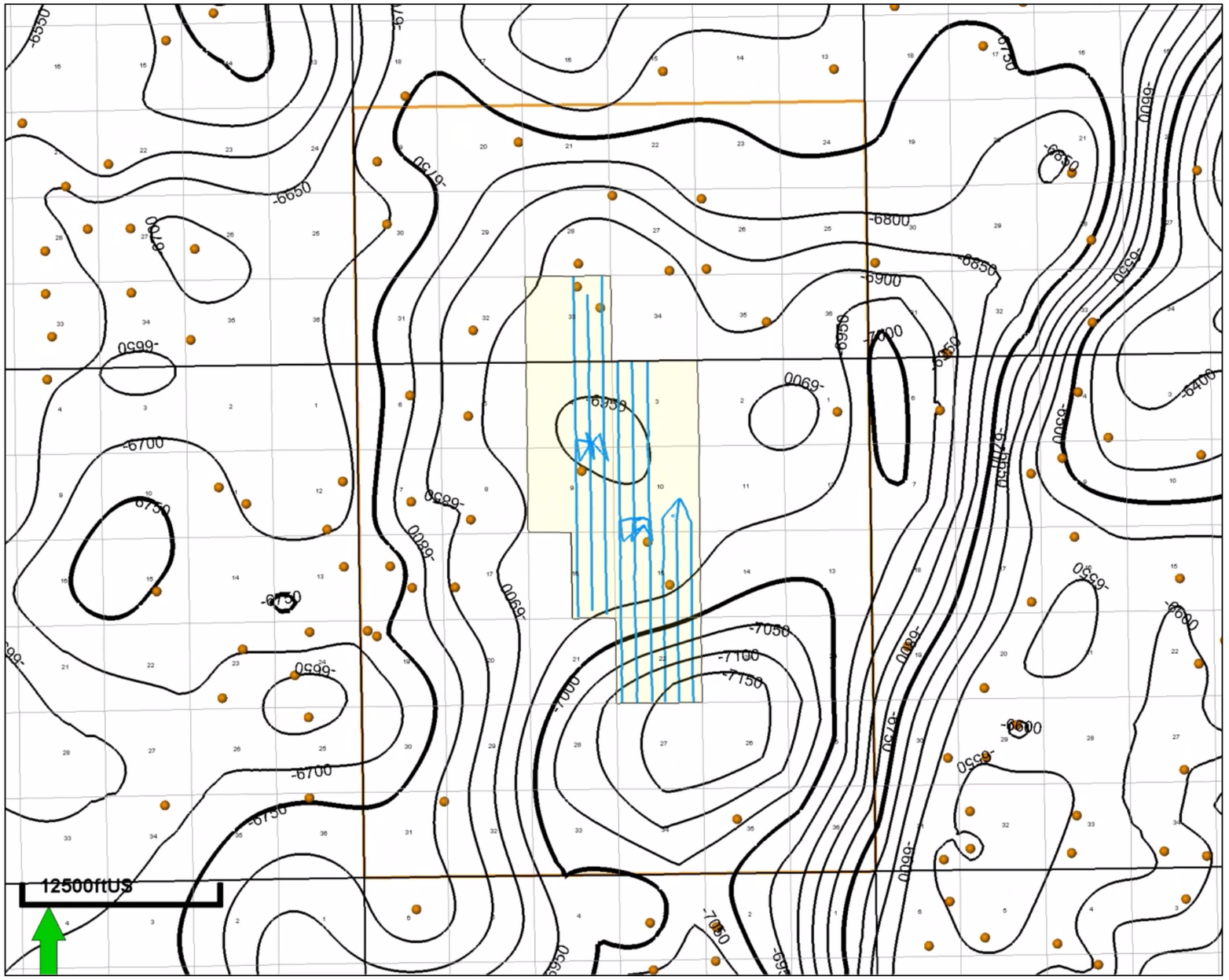
- Injection Wells Trajectories
- Contour Lines
- 2-Mile Radius Outline
- Dagger Lake Acreage



Dagger Lake Structure Map: Top of Second Bone Spring Upper (SSTVD)

Key

- Injection Wells Trajectories
- Contour Lines
- Control Points for 2nd Bone Spring Structure Map
- 2-Mile Radius Outline
- Dagger Lake Acreage

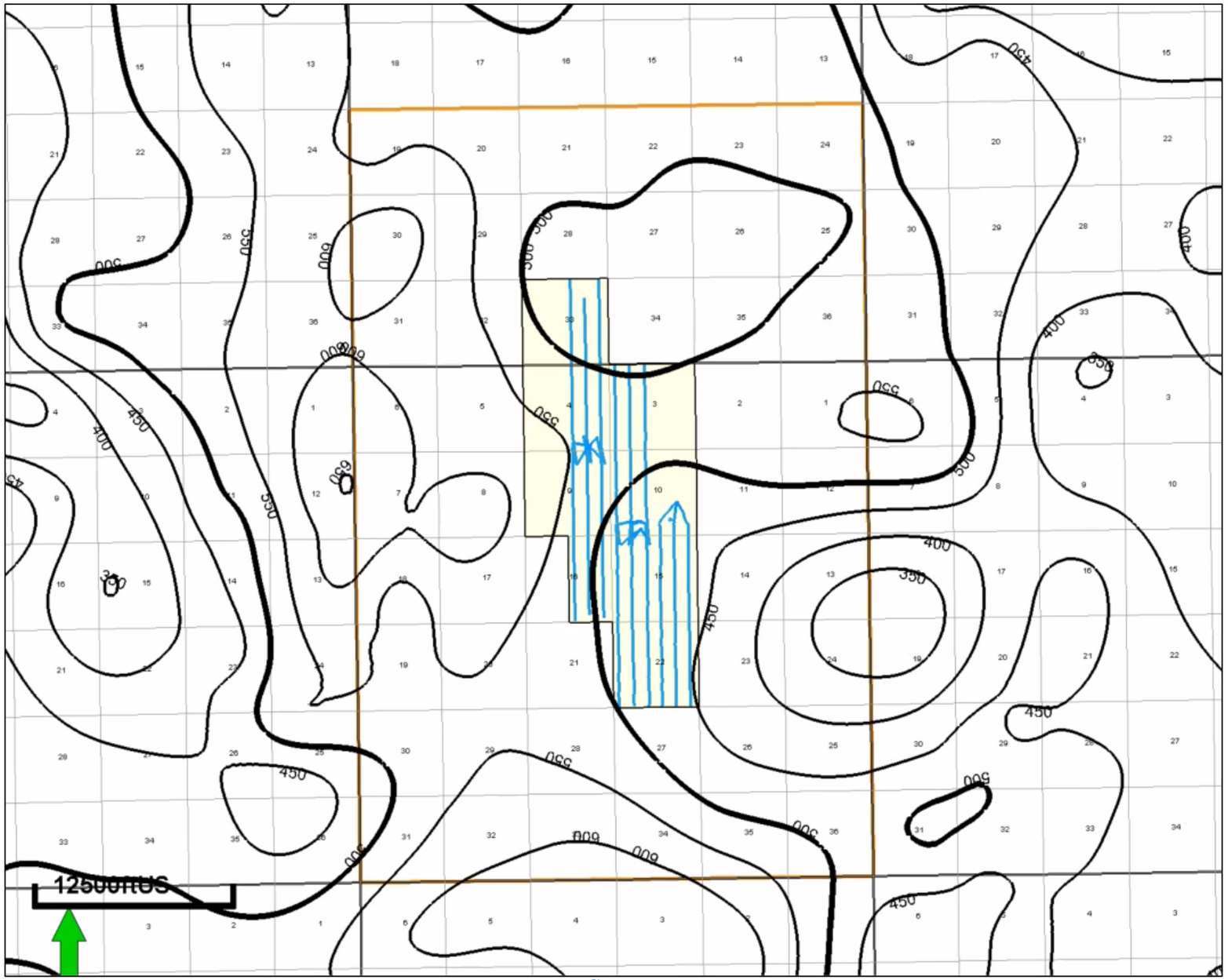


Dagger Lake Thickness Map: Second Bone Spring Upper

450’-500’ in thickness

Key

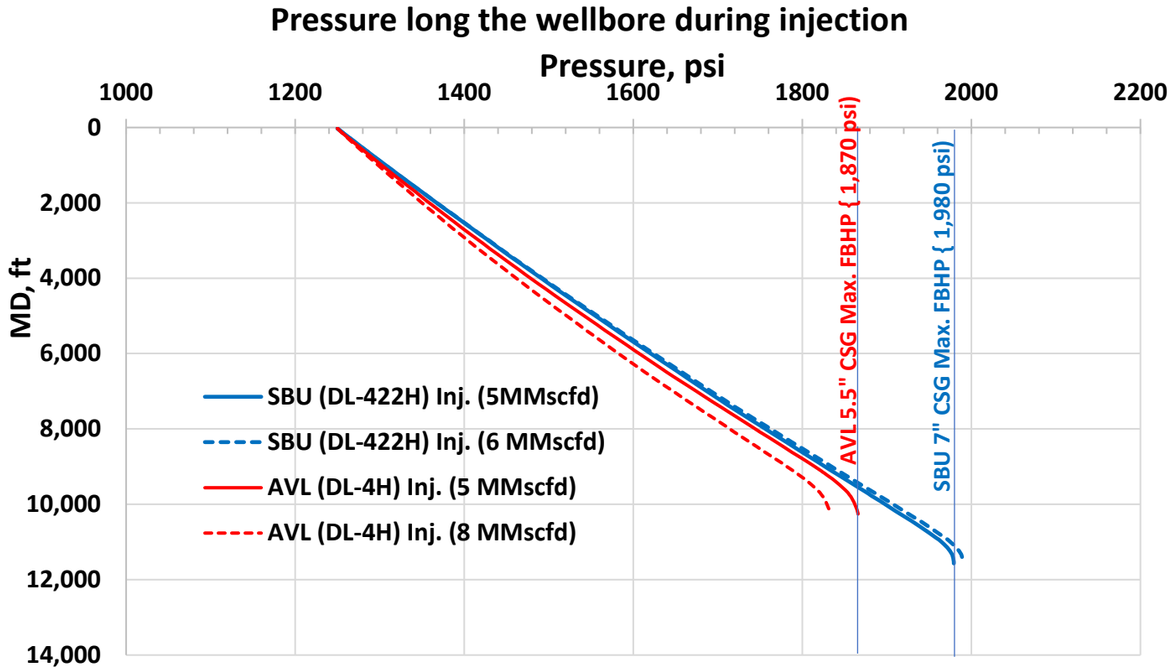
- Injection Wells Trajectories
- Contour Lines
- 2-Mile Radius Outline
- Dagger Lake Acreage

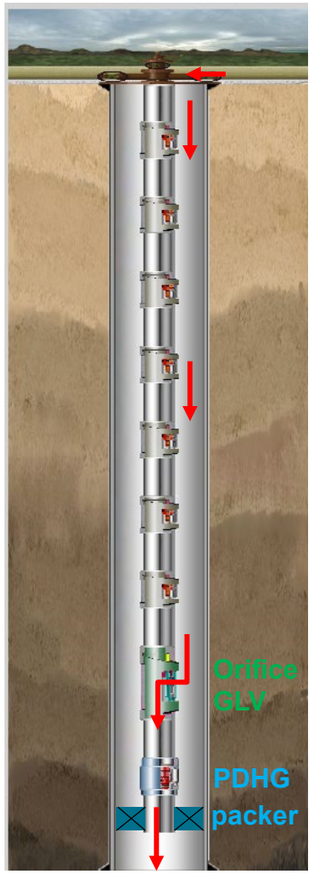


Gas Injection Rate and Maximum BHP

- The proposed injection rate is 5 MMSCFD, with a maximum of 8 MMscfd achievable with the maximum BHP with the maximum wellhead injection pressure of 1,250 psi. The range of injection rates are determined with Horizontal Well Multi-Fracture (HLMF) numerical model (history matched)
- The more the well is depleted with time, the higher the possible injection rate. The longer the injection lasts (1-15 days), the less the injection rate

Available BHP by maximum wellhead injection pressure of 1,250 psi



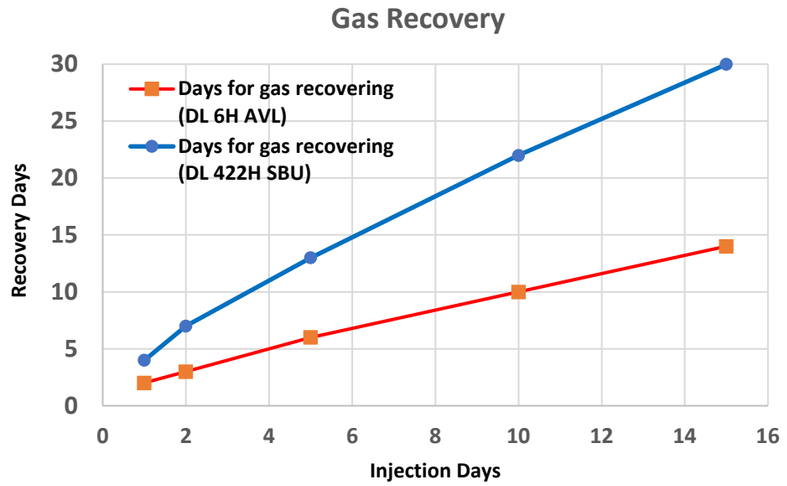


Injection along annulus to utilize gas lift setup.

*The upper GLVs may be changed out with dummy valves to avoid erosion with high injection rate.

Injection volume for CLGC

- With 5 MMscfd injection, the injection volume is 5-75 MMscf per well for 1-15 days of injection
- The total injection volume is 20-300 MMscf with suggested 4 wells that have depleted with high GOR
- Leveraging a material balance approach (last-in, first-out) injection gas recovery will be less than 2 days for a one-day injection event in the AVL, and up to 30 days for a 15-day injection event in SBU



BHP < Max. BHP (1,850 psi for AVL)

HM 5/13/2024
Injection 11/9/2024

DL 6H CLGC (AVL)

Injection days	Injection start on	Injection end on	Injection 100% recovered on	Days for gas recovery (DL 6H SBU)	Injection rate, MMscfd	Cum Injection , MMscf	FBHP by end of injection
1	11/9/2024	11/10/2024	11/17/2024	2	5	5	1586
2	11/9/2024	11/11/2024	11/22/2024	3	5	10	1636
5	11/9/2024	11/14/2024	12/1/2024	6	5	25	1736
10	11/9/2024	11/19/2024	12/15/2024	10	5	50	1840
15	11/9/2024	11/24/2024	1/1/2025	14	4	60	1840

BHP < Max. BHP (1,980 psi for SBU)

HM 5/13/2024
Injection 5/28/2027

DL 422H CLGC (SBU)

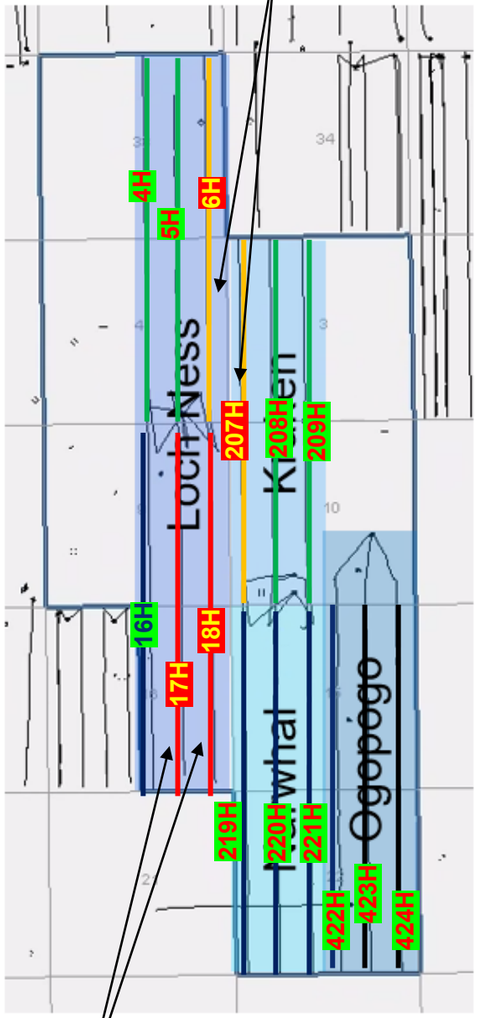
Injection days	Injection start on	Injection end on	Injection 100% recovered on	Days for gas recovery (DL 422H SBU)	Injection rate, MMscfd	Cum Injection , MMscf	FBHP by end of injection
1	5/8/2027	5/9/2027	5/22/2027	4	5	5	1776
2	5/8/2027	5/10/2027	5/30/2027	7	5	10	1799
5	5/8/2027	5/13/2027	6/12/2027	13	5	25	1853
10	5/8/2027	5/18/2027	6/30/2027	22	5	50	1918
15	5/8/2027	5/23/2027	7/14/2027	30	5	75	1968

CLGC Readiness Sequence (15 Wells)

- Yellow label means that wells can be used first for CLCG based on
  - Lower BHP by reservoir depletion
  - Higher GOR
  - Lower oil production
- All 15 wells can be used for CLGC once they are depleted, as shown in the table. The 4 AVL wells are yellow highlighted to handle 20 MMscfd (5 MMscfd each) first, and the rest wells can maintain flowing during 3rd party gas takeaway upset.

Well Name	API	Formation	POP Date	TOP, TVD	Current DHGP (5/15/2	Current FBHP (5/15/24	Date for CLGC readiness	Oil Production, bopd (DCA) 12/31/24)	Gas Production , MMscfd (12/31/24)	Production GOR (DCA trend)
DL LOCH NESS 6H	30025466460001	AVL	06/24/22	9,566	1,070	1,139	5/15/2024	95	2.5	26,316
DL KRAKEN 207H	30,025,490,780,001	AVL	9/26/2022	9,454	1,301	1,371	5/15/2024	106	2.0	18,868
DL KRAKEN 208H	30025490790001	AVL	09/26/22	9,493	1,307	1,403	5/15/2024	137	2.1	15,328
DL KRAKEN 209H	30025490800001	AVL	9/26/2022	9,484		1,463	5/15/2024	175	2.5	14,286
DL LOCHNESS 16H	30025466470001	AVL	06/13/22	9,554	1,360	1,445	5/15/2024	151	2.4	15,894
DL LOCHNESS 17H	30025466480001	AVL	6/15/2022	9,769	1,213	1,228	5/15/2024	145	6.0	41,379
DL LOCHNESS 18H	30025466490001	AVL	06/20/22	9,564		1,600	5/15/2024	170	7.5	44,118
DL NARWHAL 221H	30025490830001	AVL	5/11/2022	9,477	1,553	1,658	5/15/2024	160	2.5	15,625
DL NARWHAL 219H	30025490810001	AVL	05/11/22	9,462		1,825	11/11/2024	115	1.7	14,783
DL NARWHAL 220H	30025490820001	AVL	5/11/2022	9,468	1,615	1,716	12/31/2024	150	1.5	10,000
DL LOCH NESS 4H	30025466440001	AVL	07/01/22	9,559	1,885	2,220	5/15/2025	196	2.5	12,755
DL LOCH NESS 5H	30025466450001	AVL	7/7/2022	9,785	1,806	2,030	5/15/2025	148	3.5	23,649
DL OGOPOGO 422H	30025499060001	SBU	04/27/23	10,943	2,254	2,684	5/10/2027	287	1.0	3,484
DL OGOPOGO 423H	30025499070001	SBU	4/24/2023	10,698	2,058	2,445	5/10/2027	138	0.3	2,174
DL OGOPOGO 424H	30025499080001	SBU	04/26/23	10,928	2,373	2,916	11/6/2027	245	0.5	2,041

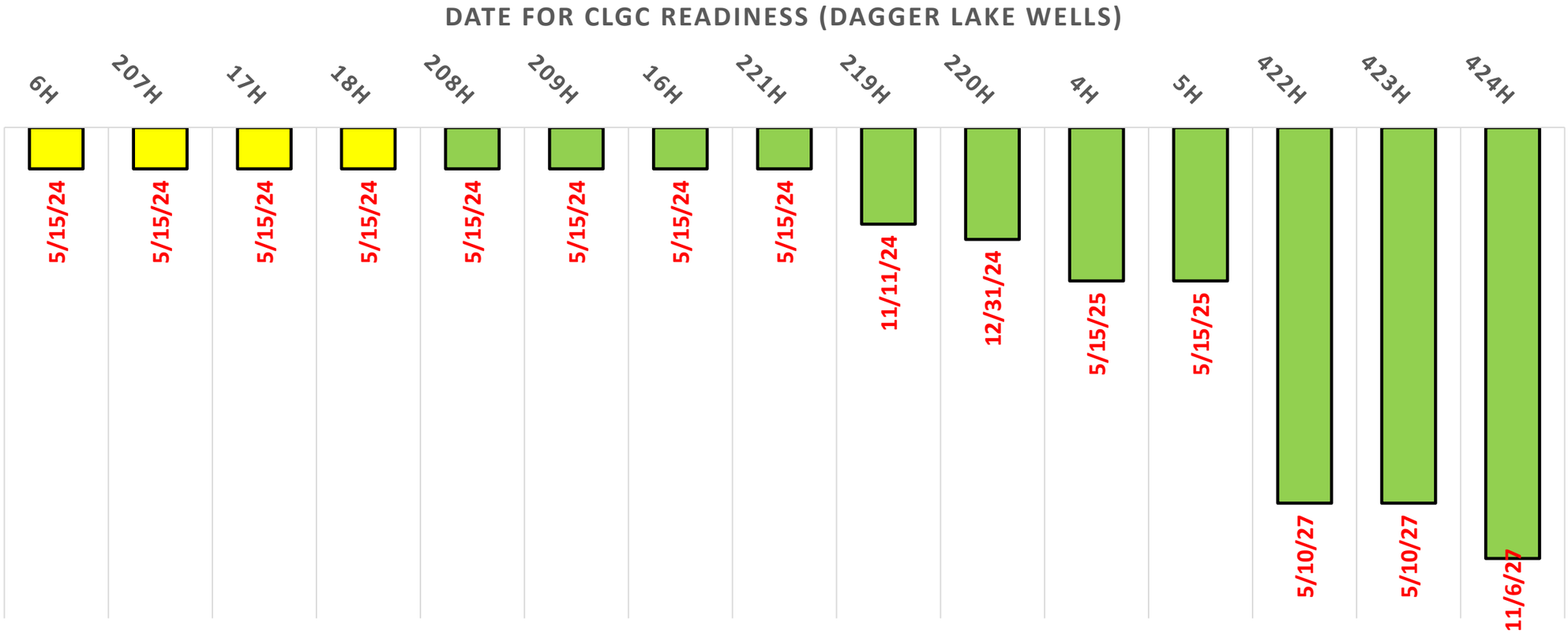
The first CLGC wells



The first CLGC wells

CLGC Readiness (15 Wells)

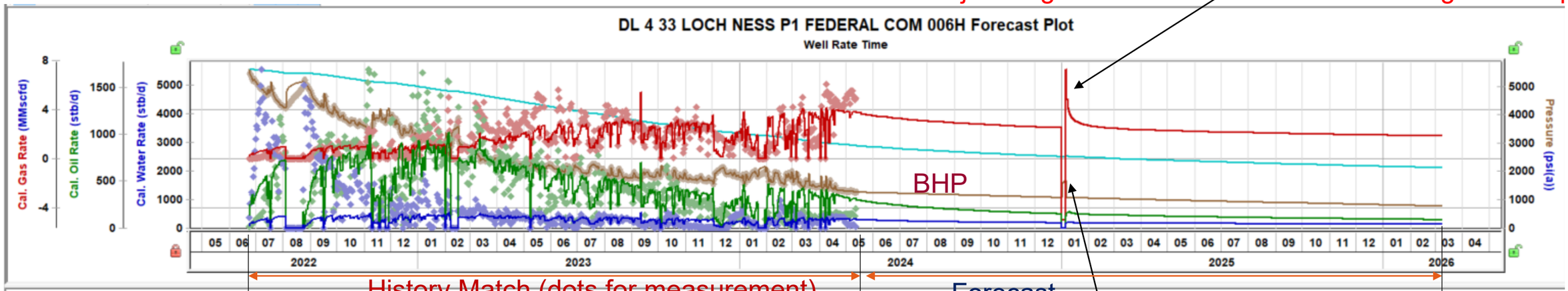
- All 15 wells can be used for CLGC once they are depleted, as shown in the chart. The red text for dates when wells ready for CLGL. Yellow label for wells to be considered first for CLCG.



DL LOCH NESS 6H (AVL): History Match and Forecast

- **This is to show the model used to forecast injection and gas return.**
- **Numerical model input based on RTA analysis and tuned for history match.**

Injected gas returns in a few weeks with high GOR spike.



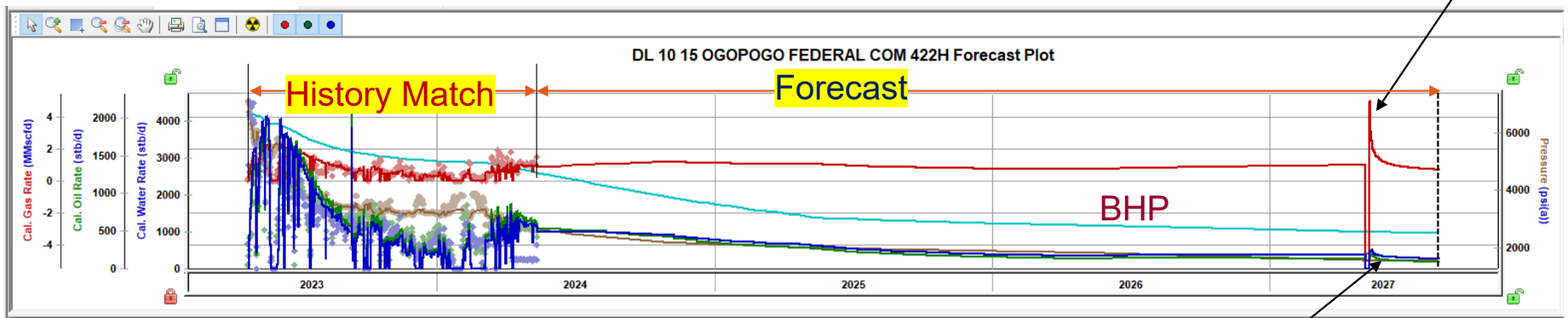
Forecast Options
Select Well: DL 4 33 LOCH NESS P1 FEDERAL COM 006H
Start Date: 05/13/2024 MM/DD/YYYY
Forecast Flowing Pressure: Sandface

	Group		DL 4 33 LOCH NESS P1 FEDERAL COM 006H					
			Control		Sandface Pressure		Gas Inject Rate	
	Duration	Number of Steps	Interpolation	Control Type	Initial	Final	Initial	Final
	d				psi(a)	psi(a)	MMscfd	MMscfd
1	233	40	Ramp	Pressure	1255.70	1064.70		
2	5	5	Step	Gas Inj Rate			5.000	
3	61	60	Ramp	Pressure	1061.70	1014.70		
4	365	36	Ramp	Pressure	1014.70	764.70		

DL OGOPOGO 422H (SBU): History Match and Forecast

- **This is to show the model used to forecast injection and gas return.**
- **Numerical model input based on RTA analysis and tuned for history match.**

Injected gas returns in a few weeks with high GOR spike.



Forecast Options

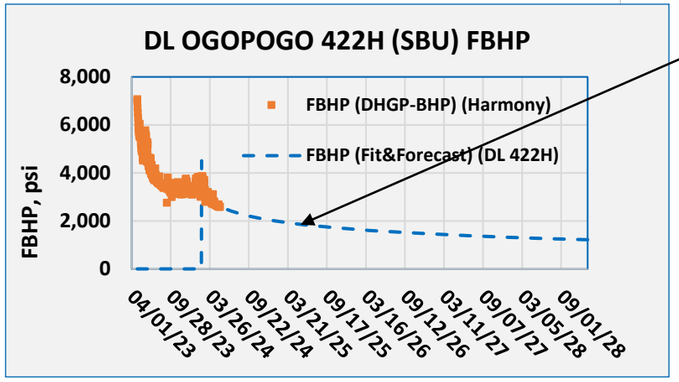
Select Well: DL 10 15 OGOPOGO FEDERAL COM 422H

Start Date: 05/13/2024 MM/DD/YYYY

Forecast Flowing Pressure: Sandface

	Group		DL 10 15 OGOPOGO FEDERAL COM 422H					
			Control		Sandface Pressure		Gas Inject Rate	
	Duration	Number of Steps	Interpolation	Control Type	Initial	Final	Initial	Final
	d				psi(a)	psi(a)	MMscfd	MMscfd
1	30	2	Ramp	Pressure	2631.70	2538.70		
2	60	4	Ramp	Pressure	2538.70	2369.70		
3	90	6	Ramp	Pressure	2369.70	2181.70		
4	180	12	Ramp	Pressure	2181.70	1989.70		
5	365	24	Ramp	Pressure	1989.70	1822.70		
6	365	72	Ramp	Pressure	1822.70	1563.70		
7	5	5	Step	Gas Inj Rate			5.000	
8	90	90	Step	Pressure	1563.70			

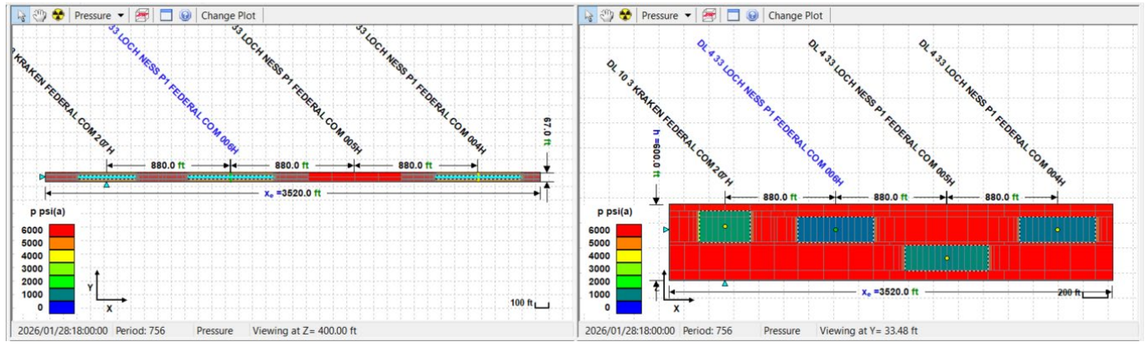
BHP increased to less than 1,850 psi
(less than 1,980 psi max. BHP for SBU).



Dagger Lake SBU wells are relatively new and need to deplete until May 2027 for CLGC.

Anticipated Horizontal Movement of Injected Gas

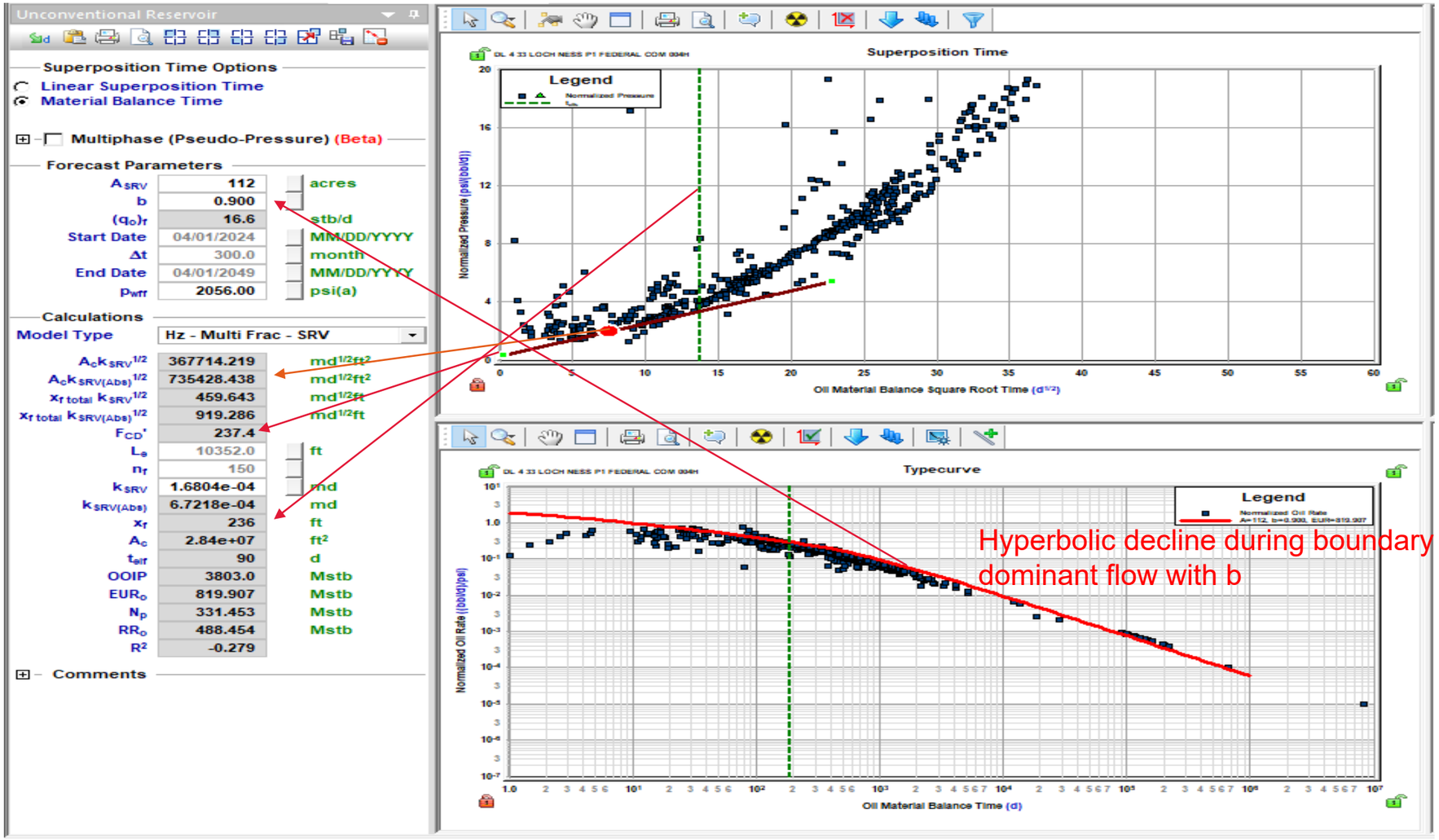
- Multi-well simulation is built to see if any interference between wells by CLGC
- Based on RTA and numerical model, the fractures do not connect with offset wells (fracture half-length less than 350 ft, while the well distance is 440 ft).
- As shown in the 2 charts on the right, the model shows that there won't be any communication and no gas will move to the offset wells.



SRV Derived with RTA- Analytical Model (DL 4H)

SRV, permeability *and* half-length are derived from RTA

1) Match linear flow with HLMF model and end of linear flow (dashed green line)
2) Assume lateral L_h=10,352' and fracture numbers (n_f=150)
3) The effective fracture half length x_f=236 ft
4) $A_c.\sqrt{k}$ (abs) obtained(734,428) and Ac=2(2x_f)(h)(n_f)=650 acre
5) k_{SRV} (abs) obtained (672 nd)
6) Fracture conductivity (237) with skin damage
7) b value of 0.9 to match type curve (normalized rate vs. FMB time) for hyperbolic decline during boundary dominant flow



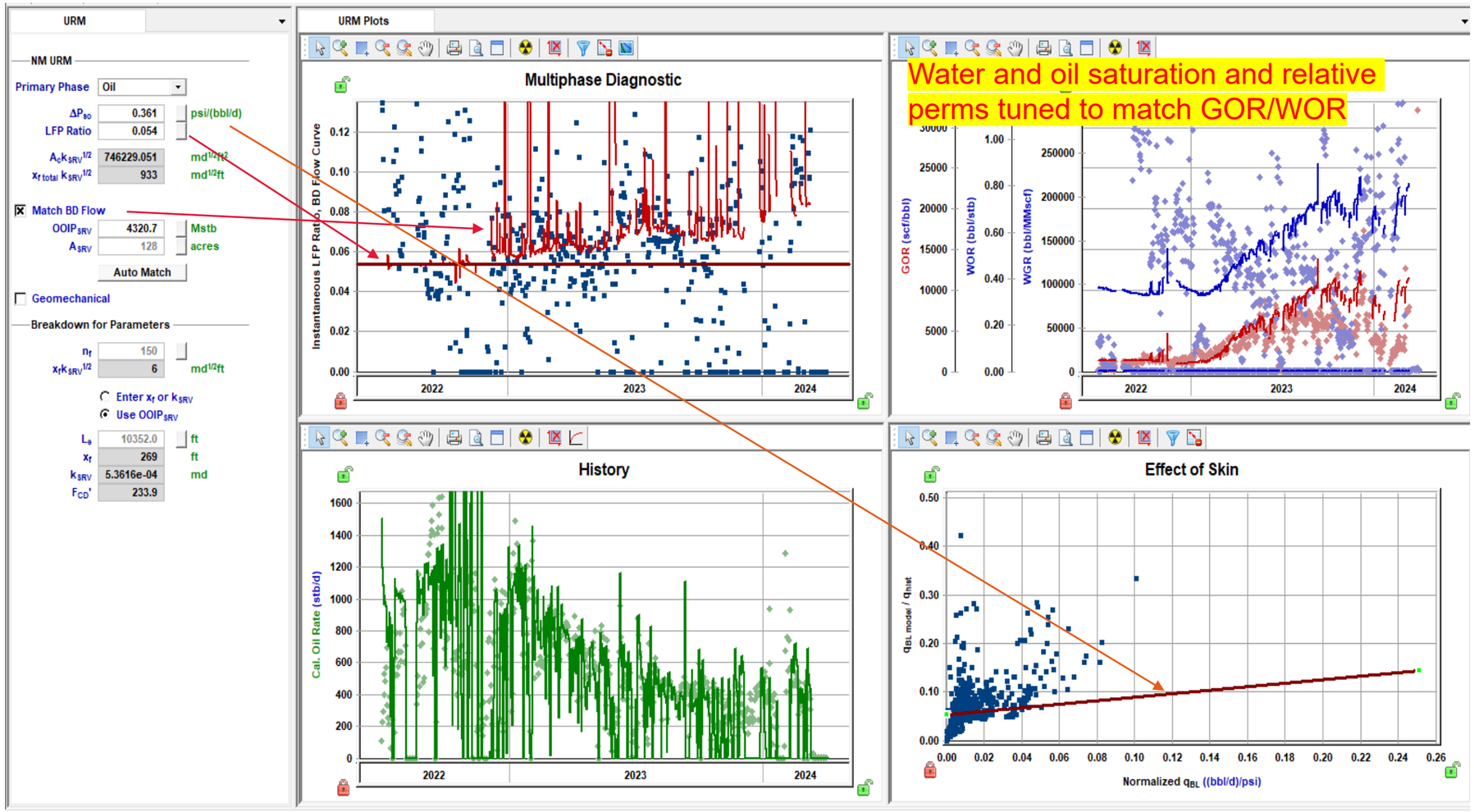
Lh=10,352'=20610-10258, nf=150

- Frac stages = 58, 9 cluster per stag.
- Assume 30% for major fracture.
- Thus, Nf=150.

RTA- Numerical URM (DL 4H)

SRV, permeability *and* half-length are further determined with unconventional resource model (URM)

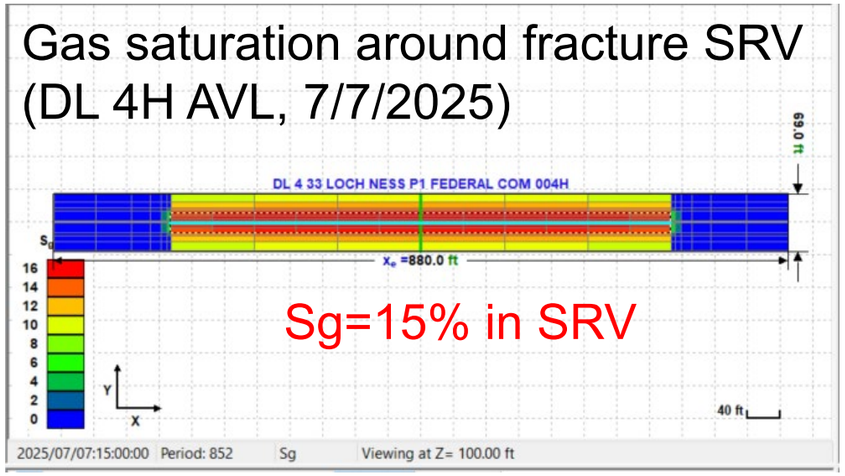
1) This is to consider multiphase flow when pressure drops below saturation pressure.
2) In addition to estimate completion and SRV size and permeability, it helps to find average saturation, and relative perms by matching GOR and WOR
3) The linear flow parameter (LFP or Ac √k) and the size of SRV are derived
4) The effective fracture half length x_f=269 ft
5) k_{SRV} (abs) obtained (536 nd)
6) Fracture conductivity (234) with skin damage

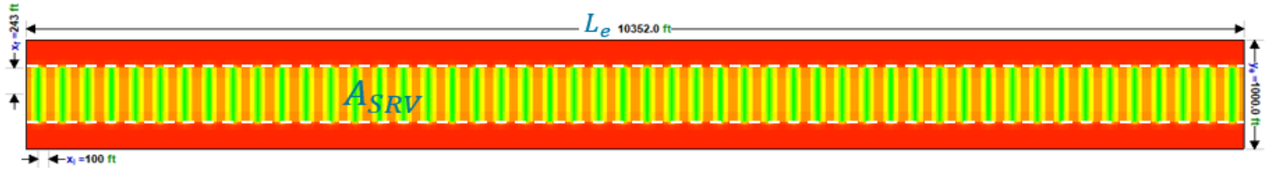


Lh=10,352'=20610-10258, nf=150

Estimated SRV and Supporting Data

- Injection SVR Volume
  - Individual well total fractured SRV in xy plane is ~ 50 acre (numerical model)
  - The total SRV is 60 BCF (numerical model)
  - SRVgas = 9 BCF (Sg=15%). Total injection gas of 75 MMscf (5 MMscfd for 15 days) that is less than 1% of total SRV_gas t.
  - BHP pressure will slightly increase during CLGC





RTA Summary – DL 4H (AVL): All models are consistent

Case #	Model	A_C (YZ), acre	A_C* sqrt(k) (abs), (md^0.5.ft^2)	A_C* sqrt(k), (md^0.5.ft^2)	A_SRV (XZ), acre	K_SRV (abs), nd	K_SRV, nd	Xf, ft	nf	xl, ft	FCD	b	EUR Oil , Mstbo	h, ft	Le, ft	V_SRV, BCF
1	UR-OST	650	734,138	367,069	112	672	168	236	150		237	0.9	820	200	10,352	
2	DCA											0.864	767			
3	Numerical URM	741	747,336		128	536		269	150		234			200	10,352	
4	Numerical Simulation	826	720,000		50	400		300	150	12	250		558	200	10,352	60

Review of Potential Effects of CLGC (AVL)

- This is to evaluate the effect on reservoir by the injection of the gas
- Numerical model is run with injection of 5 MMscfd for 5 days each time, and 12 times in 24 months
- The results show that there is no adverse effects to the reservoir or to production
- Low pressure injection has low SRV pressure that is far below the miscible pressure and will not change fluid PVT

Comparision of EUR: DL 6H (AVL)

	Np (Cum. Oil) (05/13/2024)	EURo (Estimated Ultimate Recovery of Oil)	Rfo (Recovery Factor of Oil)	Gp (Cum. gas) (05/13/2024)	EURg (Estimated Ultimate Recovery of Gas)	Rfg (Recovery Factor of Gas)
	Mstb	Mstb	%	MMscf	MMscf	%
Base Case (Numerical RTA)	278.3	428.95	5.4	1217	4845	46.1
CLGC (Numerical RTA)	278.3	428.54	5.4	1217	4845	46.1
Base Case DCA	278.3	428.90		1217		

CLGC Injection in 2025-2026 (DL 6H, AVL)

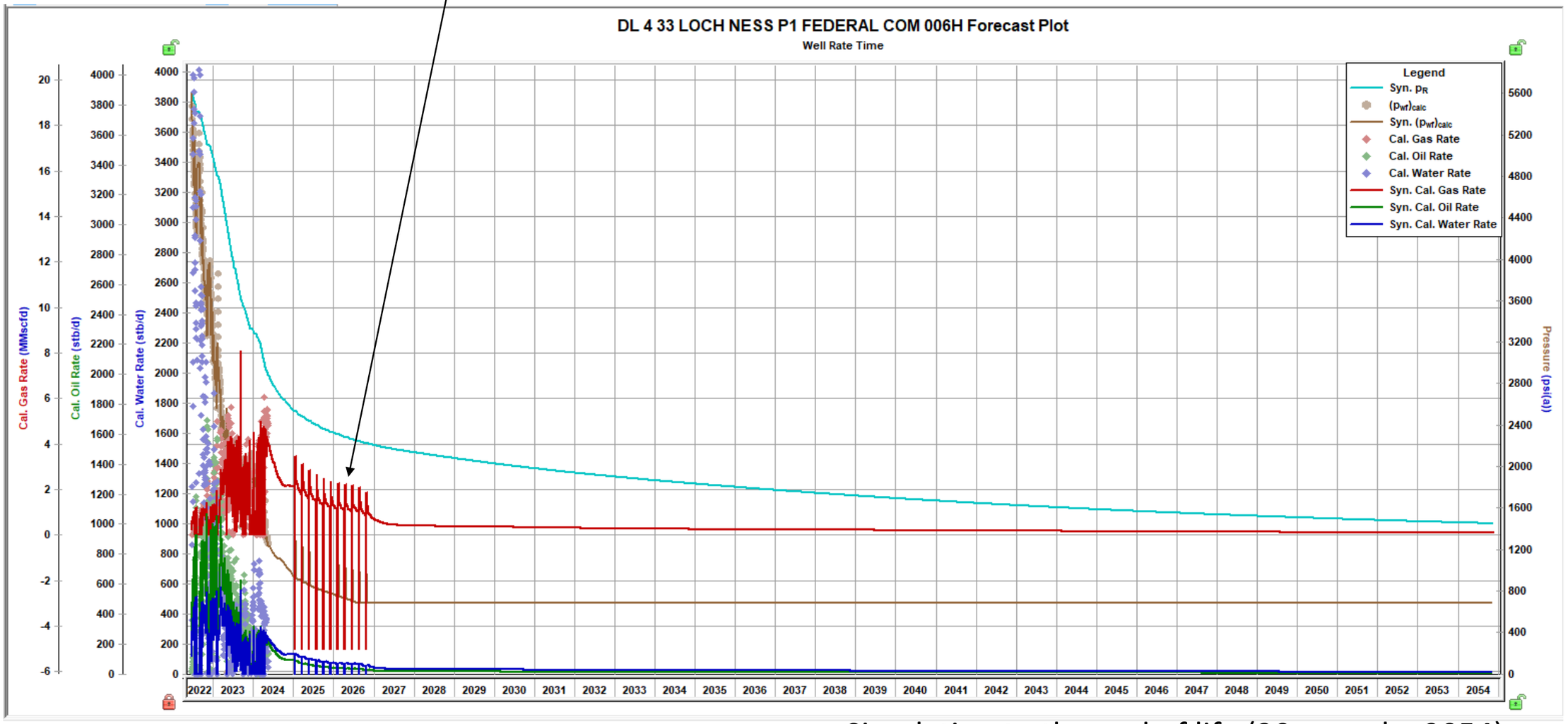
Forecast Options
Select Well: DL 4 33 LOCH NESS P1 FEDERAL COM 006H
Start Date: 05/13/2024 MM/DD/YYYY
Forecast Flowing Pressure: Sandface

	Group		DL 4 33 LOCH NESS P1 FEDERAL COM 006H					
			Control		Sandface Pressure		Gas Inject Rate	
	Duration	Number of Steps	Interpolation	Control Type	Initial	Final	Initial	Final
	month				psi(g)	psi(g)	MMscfd	MMscfd
1	2	12	Ramp	Pressure	1233.00	1132.00		
2	3	18	Ramp	Pressure	1132.00	1047.00		
3	3	18	Ramp	Pressure	1047.00	911.00		
4	0	5	Step	Gas Inj Rate			5.000	
5	2	10	Ramp	Pressure	911.00	876.00		
6	0	5	Step	Gas Inj Rate			5.000	
7	2	10	Ramp	Pressure	876.00	841.00		
8	0	5	Step	Gas Inj Rate			5.000	
9	2	10	Ramp	Pressure	841.00	806.00		
10	0	5	Step	Gas Inj Rate			5.000	
11	2	10	Ramp	Pressure	806.00	783.00		
12	0	5	Step	Gas Inj Rate			5.000	
13	2	10	Ramp	Pressure	783.00	760.00		
14	0	5	Step	Gas Inj Rate			5.000	
15	2	10	Ramp	Pressure	760.00	736.00		
16	0	5	Step	Gas Inj Rate			5.000	
17	2	10	Ramp	Pressure	736.00	712.00		
18	0	5	Step	Gas Inj Rate			5.000	
19	2	10	Ramp	Pressure	712.00	688.50		
20	0	5	Step	Gas Inj Rate			5.000	
21	2	10	Ramp	Pressure	688.50	666.00		
22	0	5	Step	Gas Inj Rate			5.000	
23	2	10	Step	Pressure	666.00			
24	0	5	Step	Gas Inj Rate			5.000	
25	336	1680	Step	Pressure	666.00			

5 MMscfd injection for 5 days, repeat in every 2 months

Review of Potential Effects of CLGC (AVL)

5 MMscf injection for 5 days, repeat in every 2 months (DL 6H)



Simulation to the end of life (30 years by 2054)

Review of Potential Effects of CLGC (SBU)

- This is to evaluate the effect on reservoir by the injection of the gas
- Numerical model is run with injection of 5 MMscfd for 5 days each time, and 12 times in 24 months
- The results show that there is no adverse effects to the reservoir or to production
- Low pressure injection has low SRV pressure that is far below the miscible pressure and will not change fluid PVT

Comparision of EUR: DL 422H (SBU)

	Oil			Gas		
	Np (Cum. Oil) (05/13/2024)	EURo (Estimated Ultimate Recovery of Oil)	Rfo (Recovery Factor of Oil)	Gp (Cum. gas) (05/13/2024)	EURg (Estimated Ultimate Recovery of Gas)	Rfg (Recovery Factor of Gas)
	Mstb	Mstb	%	MMscf	MMscf	%
Base Case (Numerical RTA)	223.4	665.70	7.8	263	3515	35.2
CLGC (Numerical RTA)	223.4	665.99	7.8	263	3513	35.2
Base Case DCA	223.4	798.00		263		

CLGC Injection in 2026-2028 (DL 422H, SBU)

Select Well: DL 10 15 OGOPOGO FEDERAL COM 422H

Start Date: 05/13/2024 MM/DD/YYYY

Forecast Flowing Pressure: Sandface

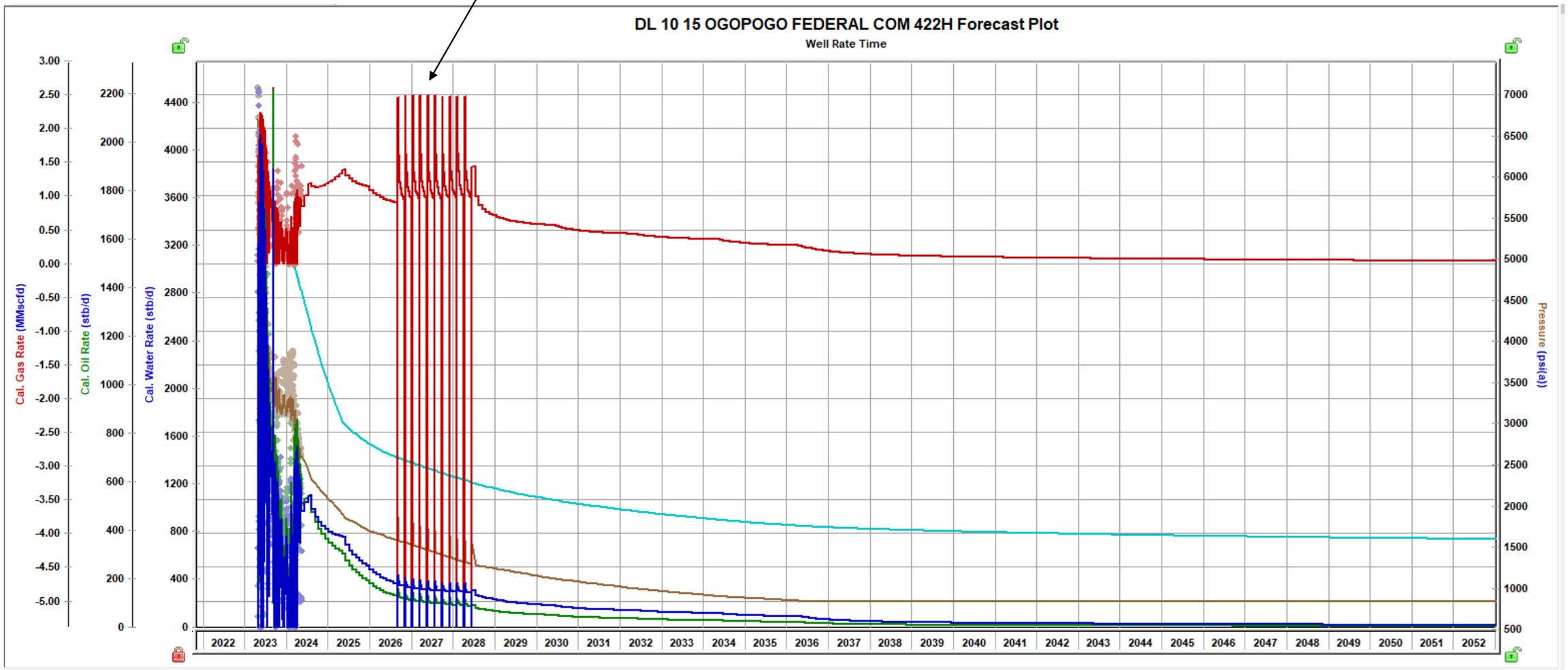
DL 10 15 OGOPOGO FEDERAL COM 422H

	Group		Control		Sandface Pressure		Gas Inject Rate	
	Duration	Number of Steps	Interpolation	Control Type	Initial	Final	Initial	Final
	month				psi(g)	psi(g)	MMscfd	MMscfd
1	1	1	Ramp	Pressure	2617.00	2532.00		
2	2	2	Ramp	Pressure	2532.00	2306.00		
3	4	4	Ramp	Pressure	2306.00	2115.00		
4	6	6	Ramp	Pressure	2115.00	1839.00		
5	7	7	Ramp	Pressure	1839.00	1684.00		
6	8	8	Ramp	Pressure	1684.00	1568.00		
7	0	5	Step	Gas Inj Rate			5.000	
8	2	10	Ramp	Pressure	1568.00	1538.00		
9	0	5	Step	Gas Inj Rate			5.000	
10	2	10	Ramp	Pressure	1538.00	1508.00		
11	0	5	Step	Gas Inj Rate			5.000	
12	2	10	Ramp	Pressure	1508.00	1478.00		
13	0	10	Step	Gas Inj Rate			5.000	
14	2	10	Ramp	Pressure	1478.00	1449.00		
15	0	10	Step	Gas Inj Rate			5.000	
16	2	10	Ramp	Pressure	1449.00	1419.00		
17	0	10	Step	Gas Inj Rate			5.000	
18	2	10	Ramp	Pressure	1419.00	1390.00		
19	0	10	Step	Gas Inj Rate			5.000	
20	2	10	Ramp	Pressure	1390.00	1361.00		
21	0	10	Step	Gas Inj Rate			5.000	
22	2	10	Ramp	Pressure	1361.00	1331.00		
23	0	10	Step	Gas Inj Rate			5.000	
24	2	10	Ramp	Pressure	1331.00	1302.00		
25	0	10	Step	Gas Inj Rate			5.000	
26	2	10	Ramp	Pressure	1302.00	1275.00		
27	0	10	Step	Gas Inj Rate			5.000	
28	24	24	Ramp	Pressure	1272.00	1098.00		

5 MMscfd injection for 5 days, repeat in every 2 months

Review of Potential Effects of CLGC (SBU)

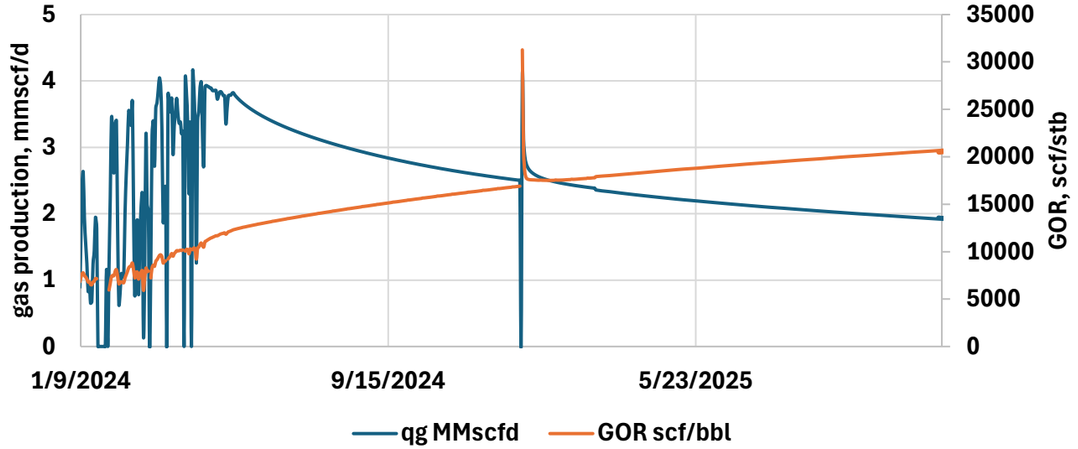
5 MMscf injection for 5 days, repeat in every 2 months (DL 422H)

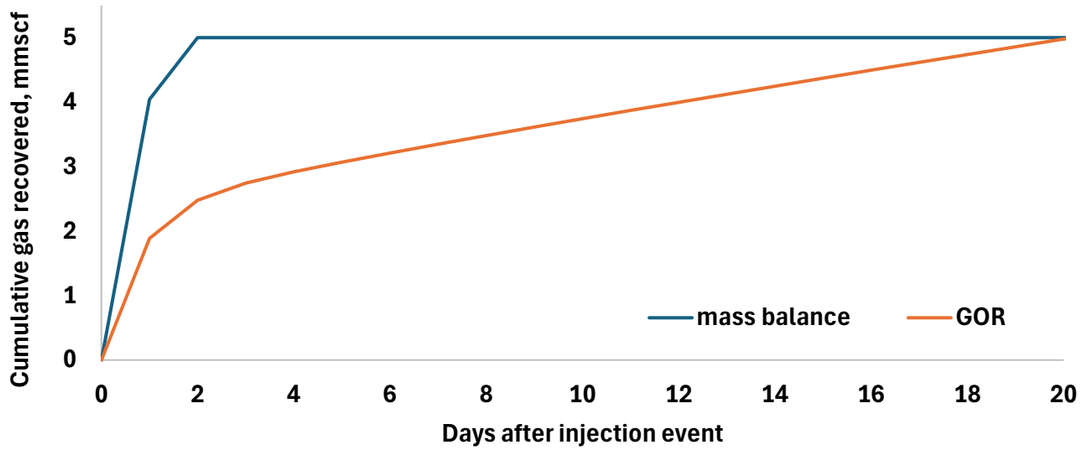


Simulation to the end of life (30 years by 2054)

Gas Accounting Example

- Example case to quantify impact of allocation method on the gas recovery dynamics during closed loop gas capture based on reservoir simulation
- Inject 5mmscf/d over a 1-day period (total gas injected: 5mmscf)
- Methodologies considered:
  - Mass balance: first 5mmscf produced is taken as re-injected gas; additional gas is taken as native
  - GOR: pre-injection GOR baseline is defined; native gas is calculated as the product of the baseline GOR times the oil production post injection event; re-injected gas is defined as the difference between the total produced gas and the calculated native gas
- Findings: mass balance accounting resulted in the re-injected gas to be recovered within 2 days, while GOR accounting showed the gas recovered within 20 days
- Project team proposes to leverage a **mass balance methodology** for injection events **less than 7 days**, and a **GOR methodology** for injection events **greater than 7 days**





GEOLOGY AND RESERVOIR

c) Review of the source gas, including:

i. the initial list of well(s) from which the source gas is derived;

ii. compositional analysis, including concentration values for H2S and CO2;

iii. if the gas composition may cause corrosion, description of the corrosion prevention plan, including the installation of a packer.

Gas Analysis Summary

- All the Dagger Lake gas system sells gas to Targa and Mark West.
  - All producing wells flow to the DLK4A CTB
  - Gas flows into the low-pressure gas pipeline to the Dagger Lake Compressor Station.
- Gas analysis is provided for the gas lift source gas downstream the Dagger Lake Compressor Station.

List of source gas wells

Wells				
Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-46644	DL 4 33 Loch Ness P1 Federal Com #4H	E/2 E/2	33-21S-33E 4-22S-33E	51687
30-025-46645	DL 4 33 Loch Ness P1 Federal Com #5H	E/2 E/2	33-21S-33E 4-22S-33E	51687
30-025-46646	DL 4 33 Loch Ness P1 Federal Com #6H	E/2 E/2	33-21S-33E 4-22S-33E	51687
30-025-46647	DL 9 16 Loch Ness P1 Federal Com #16H	E/2 E/2	9-22S-33E 16-22S-33E	51687
30-025-46648	DL 9 16 Loch Ness P1 Federal Com #17H	E/2 E/2	9-22S-33E 16-22S-33E	51687
30-025-46649	DL 9 16 Loch Ness P1 Federal Com #18H	E/2 E/2	9-22S-33E 16-22S-33E	51687
30-025-49078	DL 10 3 Kraken Federal Com #207H	W/2 W/2	3-22S-33E 10-22S-33E	97846
30-025-49079	DL 10 3 Kraken Federal Com #208H	W/2 W/2	3-22S-33E 10-22S-33E	97846
30-025-49080	DL 10 3 Kraken Federal Com #209H	W/2 W/2	3-22S-33E 10-22S-33E	97846
30-025-49081	DL 15 22 Narwhal Federal Com #219H	W/2 W/2	15-22S-33E 22-22S-33E	97846
30-025-49082	DL 15 22 Narwhal Federal Com #220H	W/2 W/2	15-22S-33E 22-22S-33E	97846
30-025-49083	DL 15 22 Narwhal Federal Com #221H	W/2 W/2	15-22S-33E 22-22S-33E	97846
30-025-49906	DL 10 15 Ogopogo Federal Com #422H	E/2 E/2	15-22S-33E 22-22S-33E	97846
30-025-49907	DL 10 15 Ogopogo Federal Com #423H	E/2 E/2	15-22S-33E 22-22S-33E	97846
30-025-49908	DL 10 15 Ogopogo Federal Com #424H	E/2 E/2	15-22S-33E 22-22S-33E	97846
30-025-50878	DL 10 3 Morag Federal Com #410H	E/2 E/2	3-22S-33E 10-22S-33E	97846
30-025-50890	DL 10 3 Morag Federal Com #411H	E/2 E/2	3-22S-33E 10-22S-33E	97846
30-025-50891	DL 10 3 Morag Federal Com #412H	E/2 E/2	3-22S-33E 10-22S-33E	97846

LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

Sample Point Code	Sample Point Name	Sample Point Location
14277G	3300250044	DLK MW Ck #1

Source Laboratory	Lab File No	Container Identity	Sampler
Laboratory Services	2024088197	0661	JAZMIN J - Spot

District	Area Name	Field Name	Facility Name
USA	USA	USA	New Mexico

Date Sampled	Date Effective	Date Received	Date Reported
Apr 4, 2024 10:26	Apr 4, 2024 10:26	Apr 9, 2024 14:13	Apr 10, 2024

Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
69.00	7,935.00	Admin	1214 @ 105

Operator	Lab Source Description
Chevron Usa, Inc.	NG

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	3.2170	3.21656	
CO2 (CO2)	12.3420	12.34242	
Methane (C1)	67.6330	67.63236	
Ethane (C2)	8.5830	8.58277	2.2950
Propane (C3)	4.4250	4.42547	1.2190
I-Butane (IC4)	0.5790	0.57895	0.1890
N-Butane (NC4)	1.4570	1.45657	0.4590
I-Pentane (IC5)	0.4860	0.48639	0.1780
N-Pentane (NC5)	0.5120	0.51245	0.1860
Hexanes Plus (C6+)	0.7660	0.76606	0.3320
TOTAL	100.0000	100.0000	4.8580

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Apr 8, 2024

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Â°F		14.73 PSI @ 60.00 Â°F	
Dry	Saturated	Dry	Saturated
1,095.7	1,078.0000	1,098.2	1,080.5

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.8430	0.8400

Molecular Weight
24.3322

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S
3 PPM

PROTREND STATUS:
Passed By Validator on Apr 10, 2024

DATA SOURCE:
Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Ashley Russell

VALIDATOR COMMENTS:
OK

Corrosion Prevention Plan

Existing Corrosion Prevention Plan:

- Produced gas is processed through a gas dehydration to remove water and an H2S stripping system to remove H2S.
- Corrosion inhibitor is added to the system downstream of the gas dehydration unit.
- Fluid samples are taken regularly and checked for Fe, Mn, and residual corrosion inhibitor in produced fluids.
- Continuously monitor and adjust the chemical treatment over the life of the wells.
- Current monitoring program includes:
  - Corrosion couples ─ monthly
  - Bacteria counts ─ SRB / APB monthly
  - Oxygen checks at CTBs ─ monthly
  - Scale inhibitor residuals ─ monthly
  - Complete water analysis at CTBs ─ monthly
  - Oil and grease to predict potential paraffin threats ─ annually

CHEVRON will continue the existing corrosion prevention plan in place for the gas lift system due to the similar nature of the gas storage operations.

- Fluid samples will be taken prior to injection to establish a baseline analysis.
- After a storage event, fluid samples will be taken to check for Fe, Mn, and residual corrosion inhibitor in the produced fluids.
- Continuously monitor and adjust the chemical treatment over the life of the project.

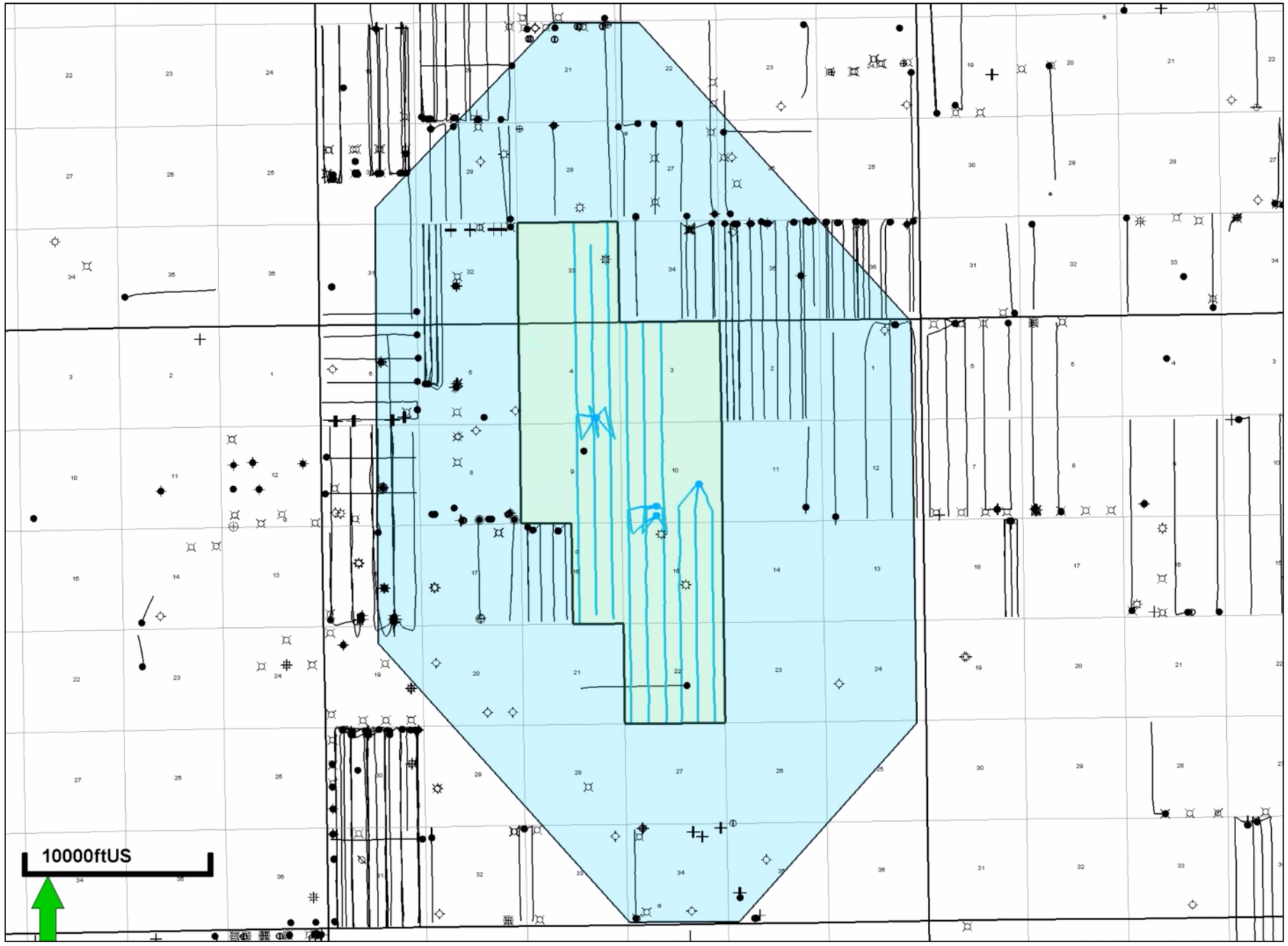
AREA OF REVIEW (AOR)

a) Lease map depicting:
   i. each CLGC well including its surface location and lateral;
   ii. surface location and lateral of every well within two (2) miles of the surface location or lateral of each CLGC well;
   iii. leases within two (2) miles of the surface location or lateral of each CLGC well; and
   iv. an outline identifying the area of review which shall be determined by measuring one-half (1/2) mile from each CLGC well including the surface location, the first take point, the terminus, and the lateral segment of the well AOR.
b) Tabulation of data for all wells of public record that penetrates either the proposed injection zone or the confining layer within the AOR, including:
   i. a description of each well's type and construction;
   ii. date drilled, location, and depth of each well; and
   iii. completion date, completion interval record of completion, and tops of cement.

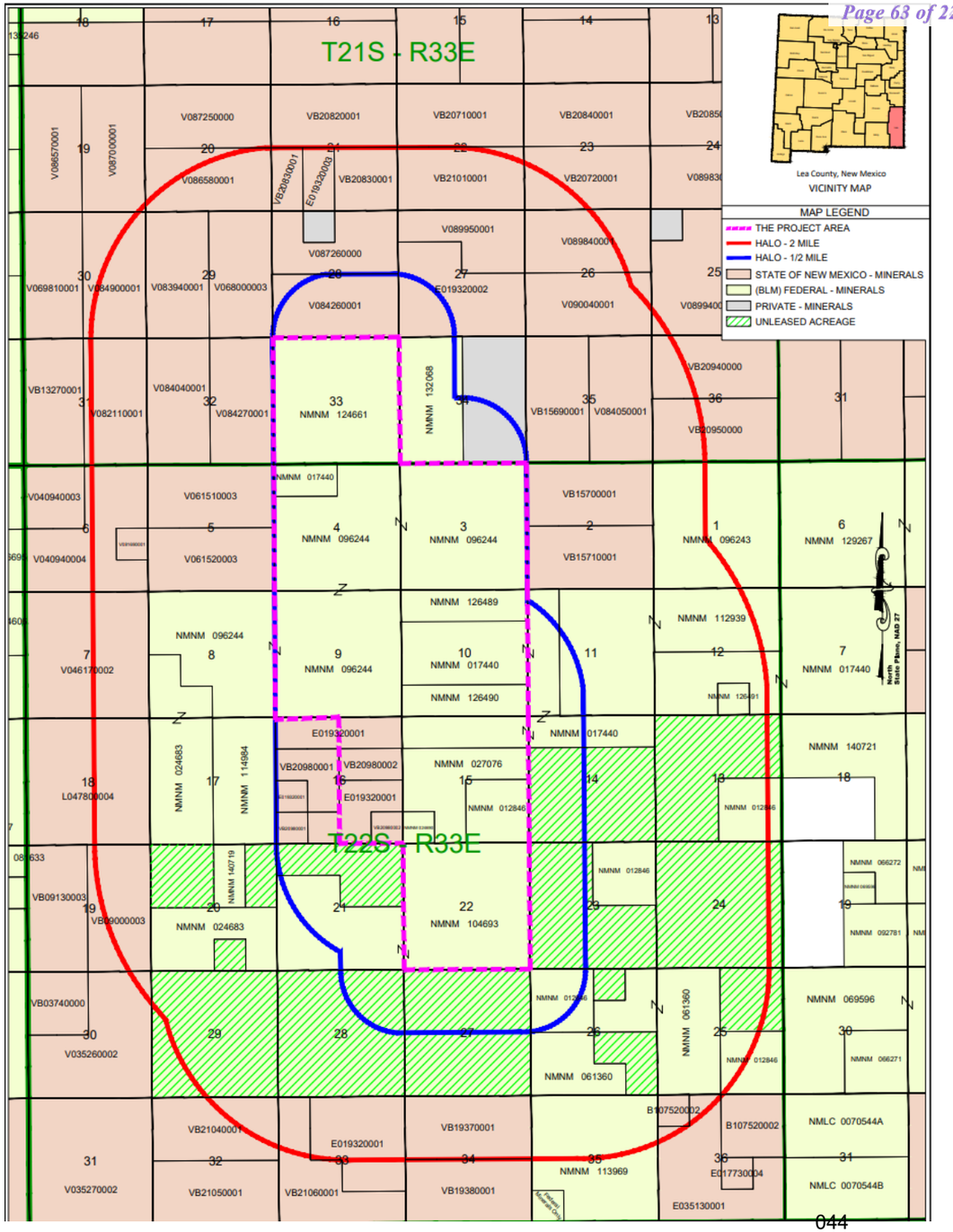
2-Mile Dagger Lake AOR Map

Key

- Injection wells trajectories
- 2-mile outline
- Dagger Lake Acreage



Lease Map


T21S - R33E
T22S - R33E
Lea County, New Mexico
VICINITY MAP
MAP LEGEND
THE PROJECT AREA
HALO - 2 MILE
HALO - 1/2 MILE
STATE OF NEW MEXICO - MINERALS
(BLM) FEDERAL - MINERALS
PRIVATE - MINERALS
UNLEASED ACREAGE
North State Plane, NAD 27

Chevron Americas Commercial and Land
A Division of Chevron U.S.A. Inc.

Dagger Lake CLGC NMOCD Application Map

Chevron MCBU New Mexico AD

Date: 8/9/2024

Bureau of Land Management (BLM)

State

Private or Unknown

2 Mile AOR

1/2 Mile AOR

The Project Area

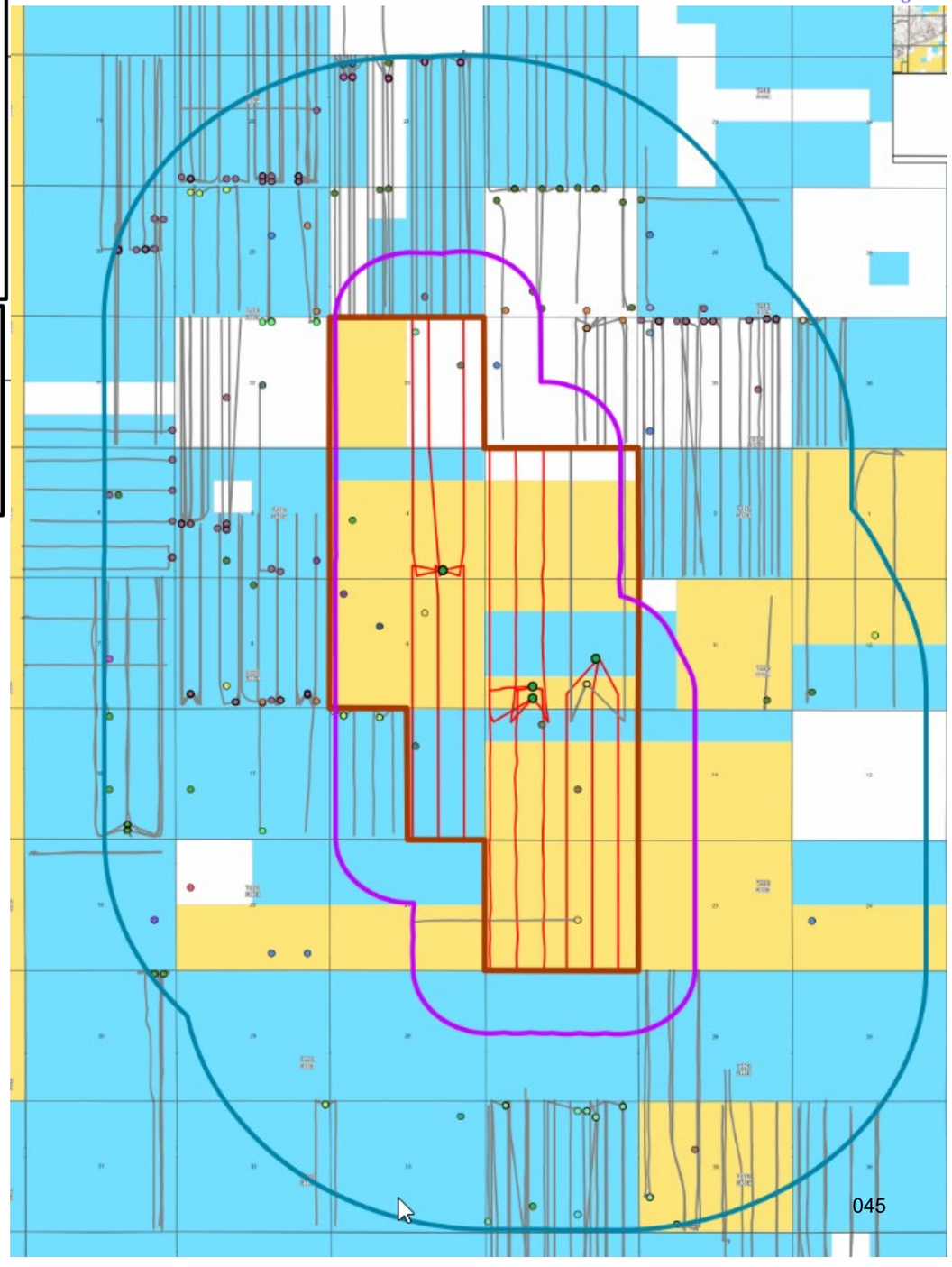
Other Operator Well Paths in 2 Mile AOR

CLGC Wells

CLGC Well Paths

Operator in 2 Mile AOR

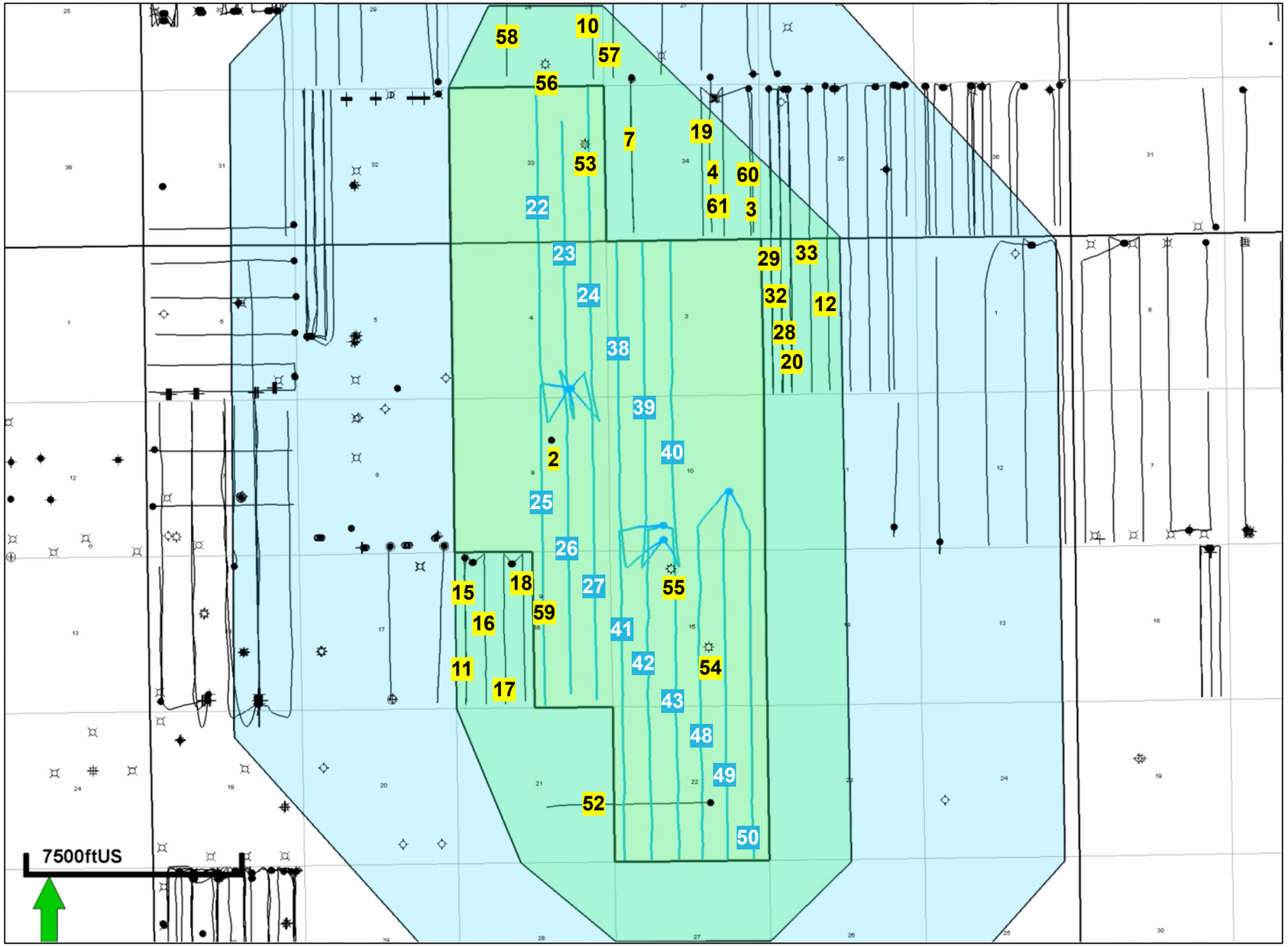
- AMOCO PROD. CO.
- BC OPERATING INC
- C W TRAINER
- CHARLES P MILLER
- CHESAPEAKE
- CHEVRON
- CIVITAS RESOURCES
- CONOCOPHILLIPS
- COTERRA ENERGY
- DAVIS & COLLINS
- DEVON
- DKL FIELD SERVICES, LLC
- DUAL PRODUCTION INC.
- EOG
- EXXON
- HUDSON & HUDSON
- MARATHON
- MARSHALL & WINSTON
- MATADOR RESOURCES
- OCCIDENTAL
- PRE-ONGARD WELL OPERATOR
- R B FARRIS
- RAYBAW OPERATING, LLC
- ALL OTHER VALUES



1/2 Mile Radius Dagger Lake AOR Map

Key

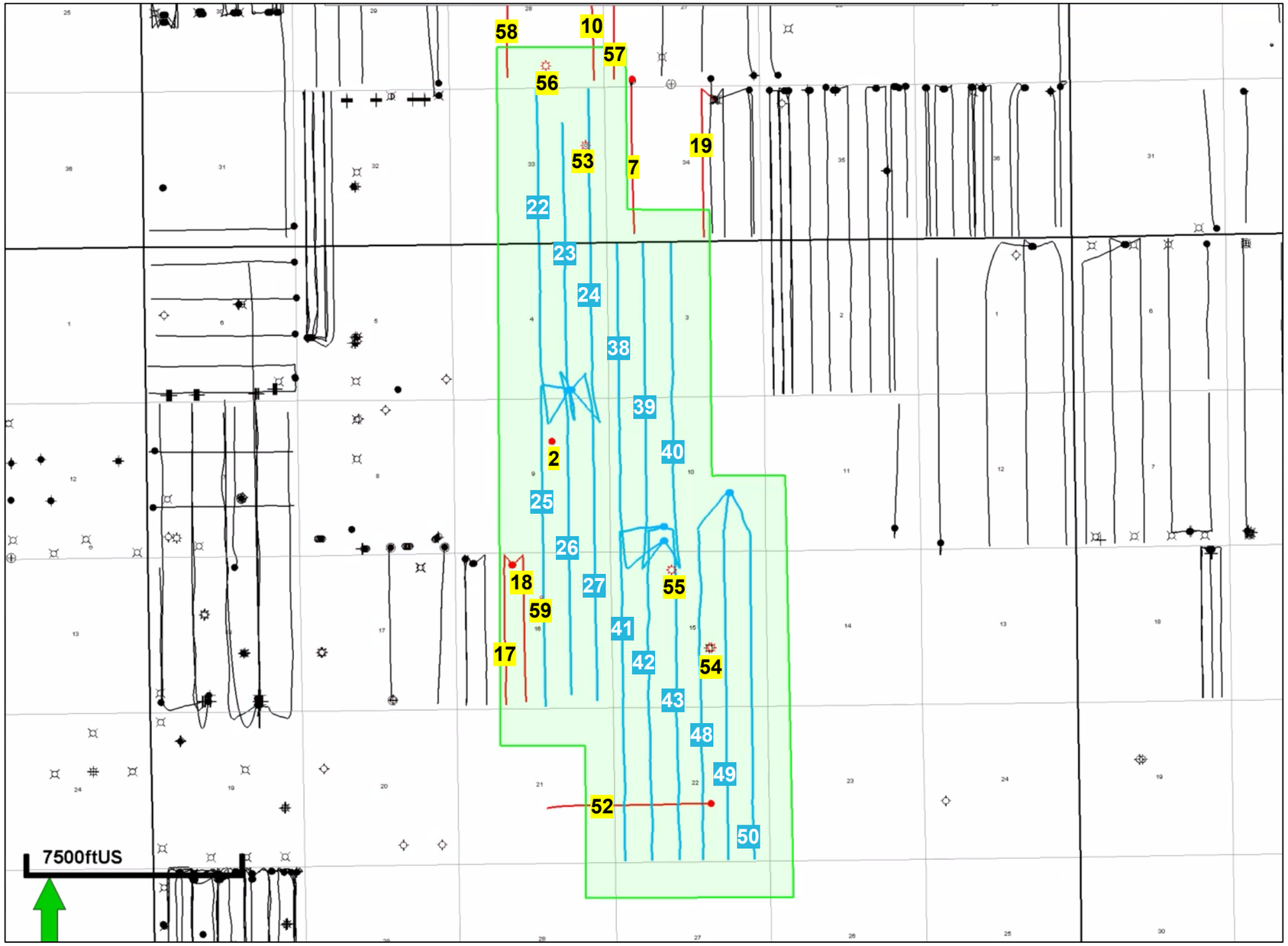
- Injection wells trajectories
- 3rd party wells
- ½-mile outline
- 2-mile outline
- Dagger Lake acreage
- 1 Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet
- 1 Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet



1/4 Mile Radius Dagger Lake AOR Map

Key

- Injection wells trajectories
- 3rd party wells
- 3rd party wells with similar landings within ¼-mile
- ¼-mile outline
- 1 — Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet
- 1 — Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet



AREA OF REVIEW (AOR)

c) Schematic for each plugged and abandoned or temporary abandoned well that penetrates either the proposed injection zone or the confining layer within the AOR, including:

i. lease name, well number, location by section, township and range, and footage location within the section;

ii. current casing configuration including tops of cement and how such top was determined; and

iii. description of any plugs, including setting depths, sacks of cement used, and estimated top of cement.

OPERATIONS AND SAFETY

a) Summary of the operational plan to ensure safe operation and efficient response in the event of emergency, including SCADA system to monitor and collect relevant data, including:

i. for each CLGC well, the oil and gas production and injection flow rates, tubing pressure, and annulus pressure for all casing strings;

ii. for each well required by OCD, which may include wells located within one-quarter (¼) mile of each CLGC well producing from the same formation, the oil and gas production and injection flow rates and production casing pressure.

Summary of Operational Plan

- CHEVRON will monitor the oil and gas production and injection flow rates, tubing pressure, and annulus pressure for all casing strings for each CLGC well. The details of the operational plan are provided in Exhibit #. The plan includes automated safety devices under the control of a supervisory control and data acquisition (SCADA) system.
- Each CLGC well will be continuously monitored following an injection event, as required by recent Division CLGC orders.

WELLSITE CLGC

CHEVRON will monitor the following items on each Closed Loop Gas Capture well via SCADA system:

I. Injection flowrate and volume
   a) Instantaneous rate
   b) Total injection volume by day
II. Tubing pressure
III. Casing pressure for all strings
IV. Safety devices
   a) Pressure kills have an automated kill sequence that is initiated by the SCADA system readings.
   b) Injection pressure kills on the injection path at wellhead.
   c) Relief Valves for both production and gas storage/injection streams to prevent overpressure (not monitored via SCADA other than pressure trend).
   d) Control of injection rate and pressures via control valve at each well injection stream.
   e) Control of production stream via automated choke valves to ensure controlled production and prevent over pressurization of flowline.

CENTRAL TANK BATTERY (CTB)

CHEVRON will monitor the following items at our CTBs via SCADA system:

I. Production rates (oil, gas & water)
II. Safety devices
   a) Flares at the CTB.
   b) Injection pressure kills on production/gas storage stream of injection.
   c) Emergency shutdown (ESD) of wells that are local and remote for automatic shutdowns to save the system.
   d) Control of injection rate and pressures via control valve at each well injection stream.

GAS COMPRESSOR STATION (CS)

CHEVRON will monitor the following items at CSs via SCADA system:

I. Safety devices
   a) Discharge/injection pressure kills of each compressor and for the station.
   b) Relief Valves on 3rd stage of compressors, to prevent over pressurization (not monitored via SCADA other than pressure trend).
   c) Station recycle valves (that recycle discharge pressure back to suction) if the pressure is getting too high for the compressor or station.

II. Standardized automated choke valves.

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA)

CHEVRON SCADA system consists of Programmable Logic Controller (PLCs) at each wellsite, CTB, and compressor station.

I. The PLCs will activate immediately (within seconds or minutes) as programmed to automatically save the system as required; for the system and certain device shutdown(s).

II. The High Alarms and High-High Alarms will be logged and registered in the SCADA system. The system will notify the production techs to acknowledge the alarm and act.

ENVIRONMENTAL/SPILL RESPONSE

CHEVRON will report and track any spill recordable and non-recordable.

I. Any spill or gas release will be reported by operations per regulations to make the report of spill/release. The fluid type and release amount will be disclosed along with location details; and whether it is a recordable or non-recordable spill.

II. Liquids will be contained and isolated and vacuum trucks will be utilized to recover and record the amount of liquid recovered. Additional reclamation will be coordinated to ensure proper recovery of contaminated spills.

AFFIRMATIVE STATEMENTS

a) Affirmative statement that the operator examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the disposal zone and any underground source of drinking water.

b) Affirmative statement that the operator examined the available geologic and engineering data and determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the project.

Closed Loop Gas Capture (CLGC) Project in Dagger Lake

Affirmative Statement I

The operator examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the disposal zone and any underground source of drinking water.

Elson Core, Geologist

6/25/2024
Date

Yula Tang, Reservoir Engineer

6/25/2024
Date

Closed Loop Gas Capture (CLGC) Project in Dagger Lake

Affirmative Statement II

The operator examined the available geologic and engineering data and determined 1) the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the project and 2) the gas composition will not damage the reservoir.

Yula Tang, Reservoir Engineer

6/25/2024

Date

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1625 N. French Dr., Hobbs, NM 88240
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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 August 1, 2011
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[X] AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546644	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326765	DL 4 33 FED COM	4H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3634'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	22 SOUTH	33 EAST, N.M.P.M.		264'	SOUTH	1347'	EAST	LEA

[11] 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
B	33	21 SOUTH	33 EAST, N.M.P.M.		24'	NORTH	2302'	EAST	LEA

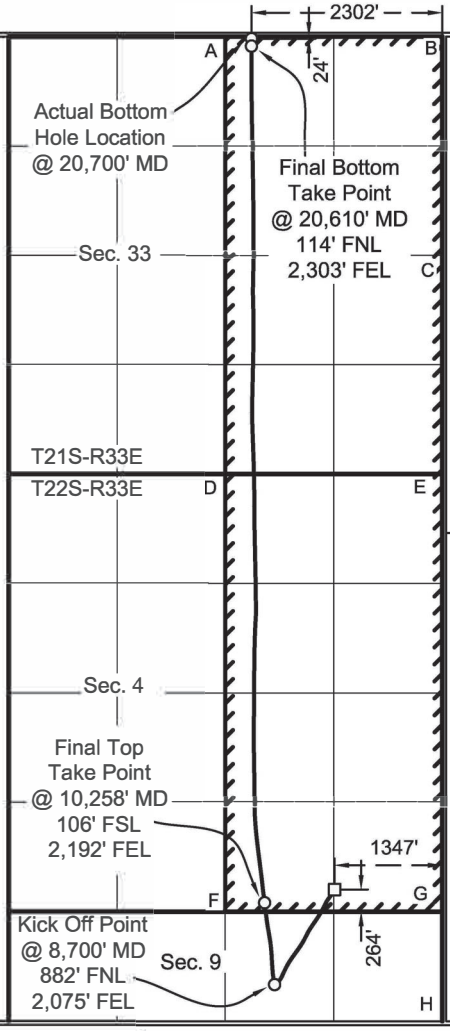
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

ACTUAL BHL		
X=	733,669'	NAD 27
Y=	525,488'	
LAT.	32.442401° N	
LONG.	103.575900° W	
X=	774,851'	NAD83/86
Y=	525,549'	
LAT.	32.442524° N	
LONG.	103.576387° W	
FINAL BOTTOM TAKE POINT		
X=	733,669'	NAD 27
Y=	525,398'	
LAT.	32.442154° N	
LONG.	103.575902° W	
X=	774,851'	NAD83/86
Y=	525,459'	
LAT.	32.442277° N	
LONG.	103.576388° W	
FINAL TOP TAKE POINT		
X=	733,868'	NAD 27
Y=	515,058'	
LAT.	32.413728° N	
LONG.	103.575496° W	
X=	775,050'	NAD83/86
Y=	515,118'	
LAT.	32.413852° N	
LONG.	103.575981° W	
KICK OFF POINT		
X=	733,992'	NAD 27
Y=	514,071'	
LAT.	32.411013° N	
LONG.	103.575115° W	
X=	775,174'	NAD83/86
Y=	514,131'	
LAT.	32.411136° N	
LONG.	103.575600° W	
DL 4 33 LOCH NESS P1 FED COM 4H WELL (AS-STAKED)		
X=	734,712'	NAD 27
Y=	515,221'	
LAT.	32.414161° N	
LONG.	103.572756° W	
X=	775,894'	NAD83/86
Y=	515,282'	
LAT.	32.414284° N	
LONG.	103.573242° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=525510.15, X=733334.94
B - Y=525523.39, X=735970.99
C - Y=522884.59, X=735996.98
D - Y=520233.70, X=733383.21
E - Y=520252.31, X=736025.52
F - Y=514948.69, X=733418.21
G - Y=514965.47, X=736060.36
H - Y=513645.07, X=736071.01



[17] 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.

Cindy Herrera-Murillo — 12/1/2022
Signature — Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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 of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
05/11/2022
PROFESSIONAL SURVEYOR

Certificate Number

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☒ AMENDED REPORT
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WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546645	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326765	DL 4 33 FED COM	5H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3633'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	22 SOUTH	33 EAST, N.M.P.M.		264'	SOUTH	1297'	EAST	LEA

[11] 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
B	33	21 SOUTH	33 EAST, N.M.P.M.		1170'	NORTH	1437'	EAST	LEA

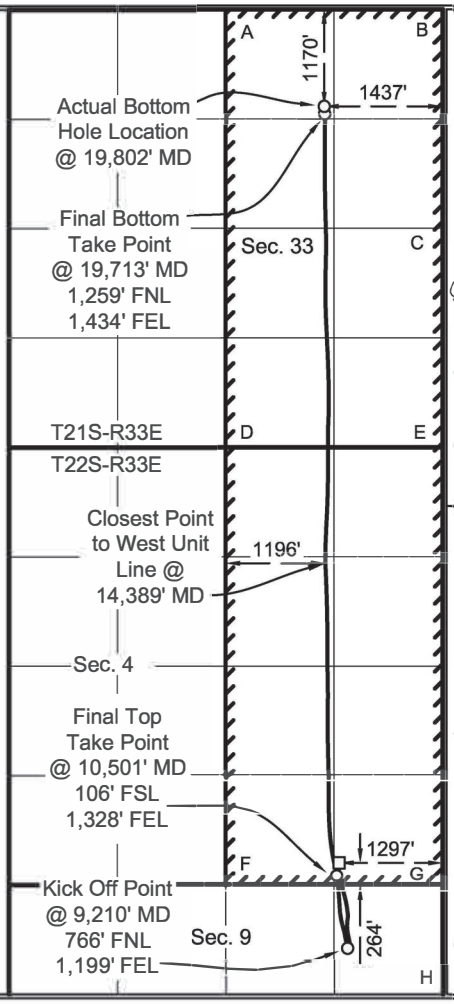
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	DEFINING		

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.

[16]

ACTUAL BHL		
X=	734,546'	NAD 27
Y=	524,346'	
LAT.	32.439246° N	
LONG.	103.573084° W	
X=	775,728'	NAD83/86
Y=	524,407'	
LAT.	32.439369° N	
LONG.	103.573570° W	
FINAL BOTTOM TAKE POINT		
X=	734,550'	NAD 27
Y=	524,257'	
LAT.	32.439002° N	
LONG.	103.573073° W	
X=	775,732'	NAD83/86
Y=	524,318'	
LAT.	32.439125° N	
LONG.	103.573559° W	
FINAL TOP TAKE POINT		
X=	734,732'	NAD 27
Y=	515,063'	
LAT.	32.413726° N	
LONG.	103.572695° W	
X=	775,914'	NAD83/86
Y=	515,124'	
LAT.	32.413849° N	
LONG.	103.573180° W	
KICK OFF POINT		
X=	734,868'	NAD 27
Y=	514,192'	
LAT.	32.411329° N	
LONG.	103.572275° W	
X=	776,050'	NAD83/86
Y=	514,253'	
LAT.	32.411452° N	
LONG.	103.572760° W	
DL 4 33 LOCH NESS P1 FED COM 5H WELL (AS-STAKED)		
X=	734,762'	NAD 27
Y=	515,221'	
LAT.	32.414160 N	
LONG.	103.572594 W	
X=	775,944'	NAD83/86
Y=	515,282'	
LAT.	32.414283° N	
LONG.	103.573080° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=525510.15, X=733334.94
B - Y=525523.39, X=735970.99
C - Y=522884.59, X=735996.98
D - Y=520233.70, X=733383.21
E - Y=520252.31, X=736025.52
F - Y=514948.69, X=733418.21
G - Y=514965.47, X=736060.36
H - Y=513645.07, X=736071.01



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Cindy Herrera-Murillo — 12/1/2022
Signature — Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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 of Survey

Signature and Seal of Professional Surveyor

ROBERT L. LASTRAPES
NEW MEXICO
23006
05/11/2022
PROFESSIONAL SURVEYOR

Certificate Number

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WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546646	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326765	DL 4 33 FED COM	6H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3632'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	22 SOUTH	33 EAST, N.M.P.M.		264'	SOUTH	1247'	EAST	LEA

[11] 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
A	33	21 SOUTH	33 EAST, N.M.P.M.		27'	NORTH	543'	EAST	LEA

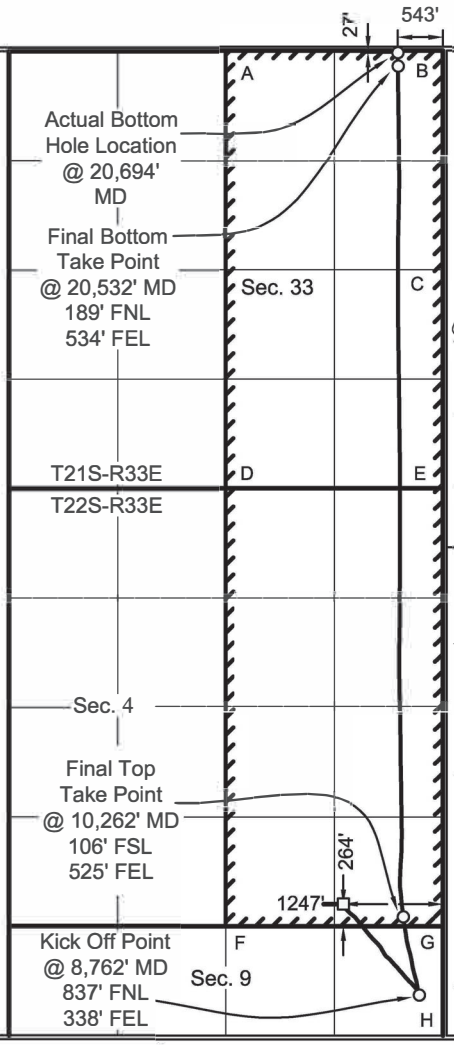
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

16

ACTUAL BHL		
X= 735,428'		
Y= 525,494'		NAD 27
LAT. 32.442384° N		
LONG. 103.570198° W		
X= 776,610'		
Y= 525,555'		NAD83/86
LAT. 32.442507° N		
LONG. 103.570684° W		
FINAL BOTTOM TAKE POINT		
X= 735,430'		
Y= 525,332'		NAD 27
LAT. 32.441938° N		
LONG. 103.570195° W		
X= 776,612'		
Y= 525,393'		NAD83/86
LAT. 32.442062° N		
LONG. 103.570681° W		
FINAL TOP TAKE POINT		
X= 735,535'		
Y= 515,068'		NAD 27
LAT. 32.413724° N		
LONG. 103.570093° W		
X= 776,717'		
Y= 515,129'		NAD83/86
LAT. 32.413848° N		
LONG. 103.570578° W		
KICK OFF POINT		
X= 735,730'		
Y= 514,127'		NAD 27
LAT. 32.411133° N		
LONG. 103.569484° W		
X= 776,912'		
Y= 514,187'		NAD83/86
LAT. 32.411256° N		
LONG. 103.569969° W		
DL 4 33 LOCH NESS P1 FED COM 6H WELL (AS-STAKED)		
X= 734,812'		
Y= 515,222'		NAD 27
LAT. 32.414161° N		
LONG. 103.572432° W		
X= 775,994'		
Y= 515,283'		NAD83/86
LAT. 32.414284° N		
LONG. 103.572918° W		

CORNER COORDINATES TABLE (NAD 27)
A - Y=525510.15, X=733334.94
B - Y=525523.39, X=735970.99
C - Y=522884.59, X=735996.98
D - Y=520233.70, X=733383.21
E - Y=520252.31, X=736025.52
F - Y=514948.69, X=733418.21
G - Y=514965.47, X=736060.36
H - Y=513645.07, X=736071.01



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Cindy Herrera-Murillo 12/1/2022
Signature Date

Cindy Herrera-Murillo
Printed Name

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E-mail Address

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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.

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Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 05/11/2022

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AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546647	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326766	DL 9 16 FED COM	16H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3634'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	22 SOUTH	33 EAST, N.M.P.M.		264	SOUTH	1372'	EAST	LEA

[11] 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	16	22 SOUTH	33 EAST, N.M.P.M.		25'	SOUTH	2310'	EAST	LEA

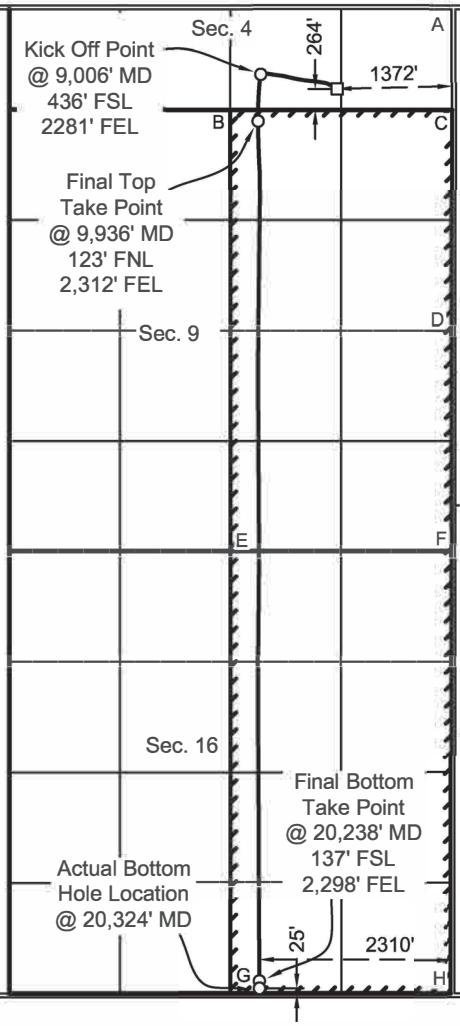
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 9 16 LOCH NESS P1 FED COM 16H WELL (AS-STAKED)	
X= 734,687'	NAD 27
Y= 515,221'	
LAT. 32.414161° N	
LONG. 103.572837° W	
X= 775,869'	NAD83/86
Y= 515,282'	
LAT. 32.414284° N	
LONG. 103.573323° W	
KICK OFF POINT	
X= 733,776'	NAD 27
Y= 515,387'	
LAT. 32.414635° N	
LONG. 103.575785° W	
X= 774,958'	NAD83/86
Y= 515,448'	
LAT. 32.414758° N	
LONG. 103.576270° W	
FINAL TOP TAKE POINT	
X= 733,749'	NAD 27
Y= 514,828'	
LAT. 32.413099° N	
LONG. 103.575885° W	
X= 774,932'	NAD83/86
Y= 514,889'	
LAT. 32.413223° N	
LONG. 103.576370° W	
FINAL BOTTOM TAKE POINT	
X= 733,845'	NAD 27
Y= 504,532'	
LAT. 32.384798° N	
LONG. 103.575809° W	
X= 775,028'	NAD83/86
Y= 504,593'	
LAT. 32.384921° N	
LONG. 103.576294° W	
ACTUAL BHL	
X= 733,847'	NAD 27
Y= 504,446'	
LAT. 32.384562° N	
LONG. 103.575807° W	
X= 775,029'	NAD83/86
Y= 504,507'	
LAT. 32.384685° N	
LONG. 103.576291° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=517604.12, X=736041.63
B - Y=514948.69, X=733418.21
C - Y=514965.47, X=736060.36
D - Y=512324.66, X=736081.66
E - Y=509672.38, X=733453.10
F - Y=509685.81, X=736102.72
G - Y=504393.66, X=733496.88
H - Y=504406.30, X=736144.86



[17] 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.

Cindy Herrera-Murillo — 12/1/2022
Signature — Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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 of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR
05/11/2022

Certificate Number

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, NM 87505

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

☒ AMENDED REPORT

AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546648	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326766	DL 9 16 FED COM	17H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3634'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	22 SOUTH	33 EAST, N.M.P.M.		264'	SOUTH	1322'	EAST	LEA

[11] 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	16	22 SOUTH	33 EAST, N.M.P.M.		431'	SOUTH	1415'	EAST	LEA

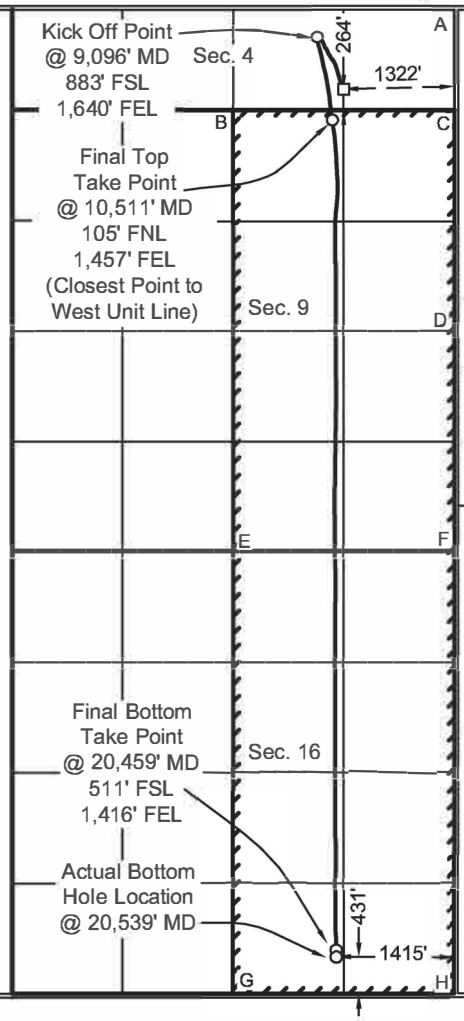
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	DEFINING		

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.

[16]

DL 9 16 LOCH NESS P1 FED COM 17H WELL (AS-STAKED)	
X= 734,737'	NAD 27
Y= 515,221'	
LAT. 32.414161° N	
LONG. 103.572675 W	
X= 775,919'	NAD83/86
Y= 515,282'	
LAT. 32.414284° N	
LONG. 103.573161 W	
KICK OFF POINT	
X= 734,414'	NAD 27
Y= 515,839'	
LAT. 32.415864° N	
LONG. 103.573707° W	
X= 775,596'	NAD83/86
Y= 515,899'	
LAT. 32.415987° N	
LONG. 103.574193° W	
FINAL TOP TAKE POINT	
X= 734,604'	NAD 27
Y= 514,851'	
LAT. 32.413147° N	
LONG. 103.573114° W	
X= 775,786'	NAD83/86
Y= 514,912'	
LAT. 32.413270° N	
LONG. 103.573600° W	
FINAL BOTTOM TAKE POINT	
X= 734,725'	NAD 27
Y= 504,911'	
LAT. 32.385822° N	
LONG. 103.572952° W	
X= 775,907'	NAD83/86
Y= 504,971'	
LAT. 32.385945° N	
LONG. 103.573437° W	
ACTUAL BHL	
X= 734,727'	NAD 27
Y= 504,831'	
LAT. 32.385602° N	
LONG. 103.572948° W	
X= 775,909'	NAD83/86
Y= 504,892'	
LAT. 32.385725° N	
LONG. 103.573432° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=517604.12, X=736041.63
B - Y=514948.69, X=733418.21
C - Y=514965.47, X=736060.36
D - Y=512324.66, X=736081.66
E - Y=509672.38, X=733453.10
F - Y=509685.81, X=736102.72
G - Y=504393.66, X=733496.88
H - Y=504406.30, X=736144.86



[17] 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.

Cindy Herrera-Murillo 12/1/2022
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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 of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
05/11/2022
PROFESSIONAL SURVEYOR

Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
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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, NM 87505

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

☒ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002546649	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
326766	DL 9 16 FED COM	18H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3633'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	22 SOUTH	33 EAST, N.M.P.M.		264'	SOUTH	1272'	EAST	LEA

[11] 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
P	16	22 SOUTH	33 EAST, N.M.P.M.		214'	SOUTH	532'	EAST	LEA

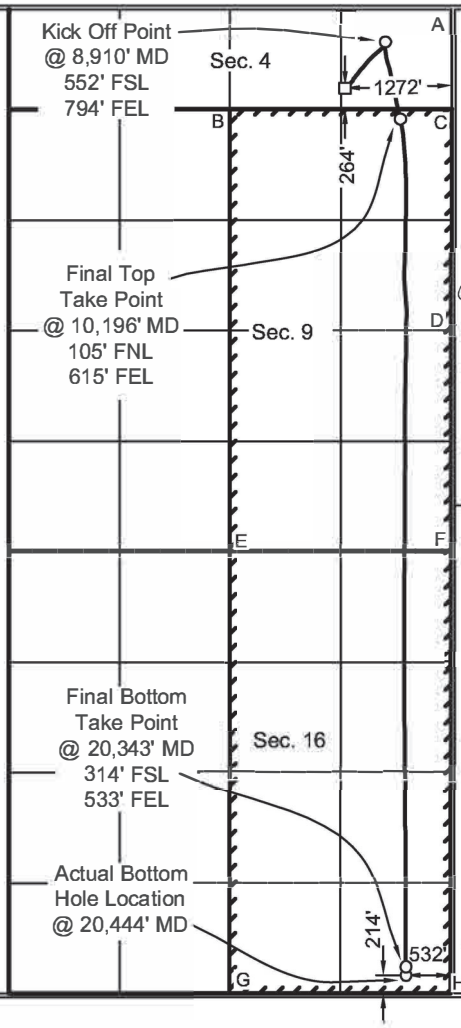
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 9 16 LOCH NESS P1 FED COM 18H WELL (AS-STAKED)		
X=	734,787'	NAD 27
Y=	515,222'	
LAT.	32.414161° N	
LONG.	103.572513° W	
X=	775,969'	NAD83/86
Y=	515,282'	
LAT.	32.414284° N	
LONG.	103.572999 W	
KICK OFF POINT		
X=	735,261'	NAD 27
Y=	515,777'	
LAT.	32.415678° N	
LONG.	103.570965° W	
X=	776,443'	NAD83/86
Y=	515,838'	
LAT.	32.415802° N	
LONG.	103.571450° W	
FINAL TOP TAKE POINT		
X=	735,446'	NAD 27
Y=	514,857'	
LAT.	32.413146° N	
LONG.	103.570386° W	
X=	776,629'	NAD83/86
Y=	514,918'	
LAT.	32.413269° N	
LONG.	103.570871° W	
FINAL BOTTOM TAKE POINT		
X=	735,609'	NAD 27
Y=	504,718'	
LAT.	32.385274° N	
LONG.	103.570091° W	
X=	776,792'	NAD83/86
Y=	504,779'	
LAT.	32.385398° N	
LONG.	103.570575° W	
ACTUAL BHL		
X=	735,611'	NAD 27
Y=	504,617'	
LAT.	32.384997° N	
LONG.	103.570088° W	
X=	776,794'	NAD83/86
Y=	504,678'	
LAT.	32.385120° N	
LONG.	103.570572° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=517604.12, X=736041.63
B - Y=514948.69, X=733418.21
C - Y=514965.47, X=736060.36
D - Y=512324.66, X=736081.66
E - Y=509672.38, X=733453.10
F - Y=509685.81, X=736102.72
G - Y=504393.66, X=733496.88
H - Y=504406.30, X=736144.86



[17] 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.

Cindy Herrera-Murillo 12/1/2022
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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 of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 05/11/2022

Certificate Number

District I
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District II
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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, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549078	51687	RED TANK; BONE SPRINGS EAST

[4] Property Code	[5] Property Name	[6] Well Number
331068	DL 10 3 FED COM	207H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3558'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		370'	SOUTH	1790'	WEST	LEA

[11] 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
D	3	22 SOUTH	33 EAST, N.M.P.M.		68'	NORTH	341'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 10 3 FED COM NO. 207H WELL
X = 737,890' (NAD27 NM E)
Y = 510,067'
LAT. 32.399931° N (NAD27)
LONG. 103.562580° W
X = 779,072' (NAD83/2011 NM E)
Y = 510,127'
LAT. 32.400052° N (NAD83/2011)
LONG. 103.563064° W

FIRST TAKE POINT
X = 736,549' (NAD27 NM E)
Y = 509,722'
LAT. 32.399009° N (NAD27)
LONG. 103.566930° W
X = 777,732' (NAD83/2011 NM E)
Y = 509,782'
LAT. 32.399131° N (NAD83/2011)
LONG. 103.567415° W

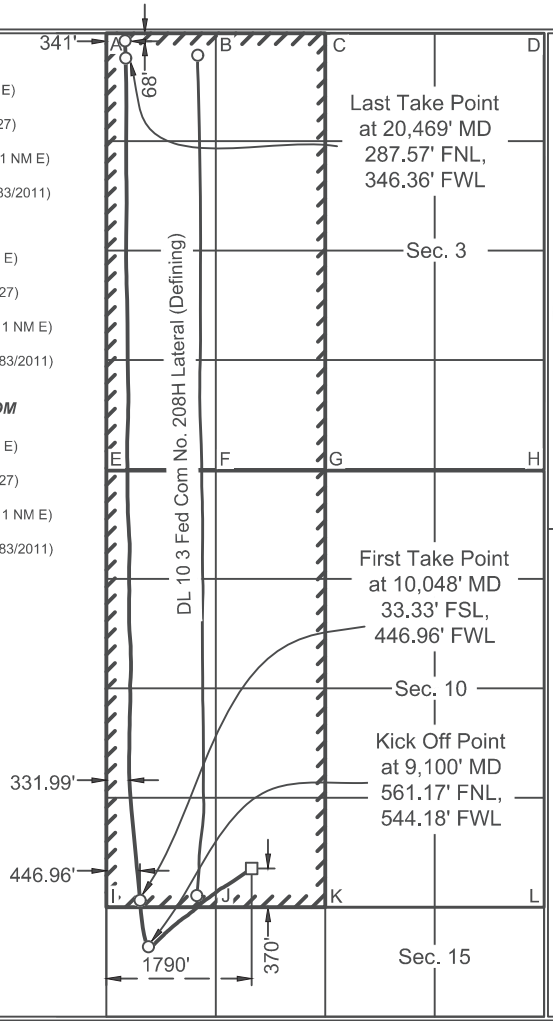
KICK OFF POINT
X = 736,651' (NAD27 NM E)
Y = 509,128'
LAT. 32.397375° N (NAD27)
LONG. 103.566613° W
X = 777,834' (NAD83/2011 NM E)
Y = 509,188'
LAT. 32.397496° N (NAD83/2011)
LONG. 103.567098° W

LAST TAKE POINT
X = 736,374' (NAD27 NM E)
Y = 519,967'
LAT. 32.427174° N (NAD27)
LONG. 103.567262° W
X = 777,556' (NAD83/2011 NM E)
Y = 520,027'
LAT. 32.427295° N (NAD83/2011)
LONG. 103.567747° W

AS-DRILLED BOTTOM HOLE LOCATION
X = 736,367' (NAD27 NM E)
Y = 520,187'
LAT. 32.427777° N (NAD27)
LONG. 103.567278° W
X = 777,549' (NAD83/2011 NM E)
Y = 520,247'
LAT. 32.427898° N (NAD83/2011)
LONG. 103.567763° W

CORNER COORDINATES TABLE (NAD 27)

A - X=736025.52, Y=520252.31
B - X=737346.67, Y=520261.62
C - X=738667.82, Y=520270.92
D - X=741306.31, Y=520276.31
E - X=736060.36, Y=514965.47
F - X=737381.93, Y=514973.52
G - X=738703.50, Y=514981.57
H - X=741345.26, Y=514996.96
I - X=736102.72, Y=509685.81
J - X=737422.67, Y=509693.78
K - X=738742.61, Y=509701.75
L - X=741384.61, Y=509713.53



[17] OPERATOR CERTIFICATION

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Cindy Herrera-Murillo — Signature
01/31/2023 — Date
Cindy Herera-Murillo — Printed Name
Cherreramurillo@chevron.com — E-mail Address

[18] 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.

08/24/2021 — Date of Survey
Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN
NEW MEXICO
22921
PROFESSIONAL SURVEYOR

01/16/2023 — Certificate Number

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
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State of New Mexico
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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Revised August 1, 2011
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☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549079	51687	RED TANK; BONE SPRINGS EAST

[4] Property Code	[5] Property Name	[6] Well Number
331068	DL 10 3 FED COM	208H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3557'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		370'	SOUTH	1815'	WEST	LEA

[11] 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
D	3	22 SOUTH	33 EAST, N.M.P.M.		40'	NORTH	1225'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	DEFINING		

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.

[16]

DL 10 3 FED COM NO. 208H WELL
X = 737,915' (NAD27 NM E)
Y = 510,067'
LAT. 32.399930° N (NAD27)
LONG. 103.562499° W
X = 779,097' (NAD83/86 NM E)
Y = 510,127'
LAT. 32.400054° N (NAD83/86)
LONG. 103.562983° W

FIRST TAKE POINT
X = 737,241' (NAD27 NM E)
Y = 509,726'
LAT. 32.399007° N (NAD27)
LONG. 103.564689° W
X = 778,424' (NAD83/2011 NM E)
Y = 509,786'
LAT. 32.399129° N (NAD83/2011)
LONG. 103.565173° W

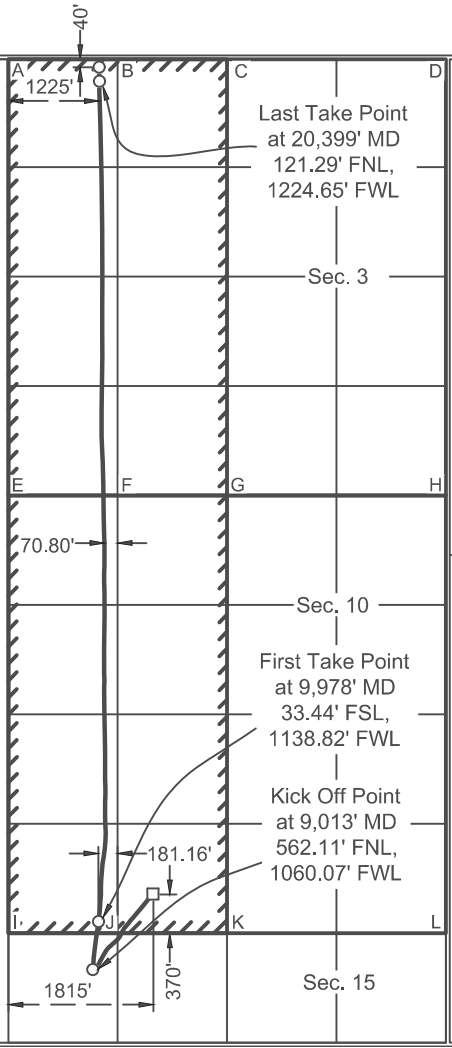
KICK OFF POINT
X = 737,167' (NAD27 NM E)
Y = 509,130'
LAT. 32.397371° N (NAD27)
LONG. 103.564942° W
X = 778,350' (NAD83/2011 NM E)
Y = 509,190'
LAT. 32.397492° N (NAD83/2011)
LONG. 103.565427° W

LAST TAKE POINT
X = 737,251' (NAD27 NM E)
Y = 520,140'
LAT. 32.427630° N (NAD27)
LONG. 103.564415° W
X = 778,433' (NAD83/2011 NM E)
Y = 520,200'
LAT. 32.427752° N (NAD83/2011)
LONG. 103.564900° W

AS-DRILLED BOTTOM HOLE LOCATION
X = 737,251' (NAD27 NM E)
Y = 520,221'
LAT. 32.427853° N (NAD27)
LONG. 103.564412° W
X = 778,433' (NAD83/2011 NM E)
Y = 520,281'
LAT. 32.427974° N (NAD83/2011)
LONG. 103.564897° W

CORNER COORDINATES TABLE (NAD 27)

A - X=736025.52, Y=520252.31
B - X=737346.67, Y=520261.62
C - X=738667.82, Y=520270.92
D - X=741306.31, Y=520276.31
E - X=736060.36, Y=514965.47
F - X=737381.93, Y=514973.52
G - X=738703.50, Y=514981.57
H - X=741345.26, Y=514996.96
I - X=736102.72, Y=509685.81
J - X=737422.67, Y=509693.78
K - X=738742.61, Y=509701.75
L - X=741384.61, Y=509713.53



[17] 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.

Cindy Herrera-Murillo 01/26/2023
Signature Date

Cindy Herrera-Murillo
Printed Name

Cherreramurillo@chevron.com
E-mail Address

[18] 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.

08/24/2021
Date of Survey

Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN NEW MEXICO 22921 PROFESSIONAL SURVEYOR

01/16/2023
Certificate Number

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Santa Fe, NM 87505

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As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549080	51687	RED TANK; BONE SPRINGS EAST

[4] Property Code	[5] Property Name	[6] Well Number
331068	DL 10 3 FED COM	209H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3557'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		370'	SOUTH	1840'	WEST	LEA

[11] 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
C	3	22 SOUTH	33 EAST, N.M.P.M.		40'	NORTH	2179	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 10 3 FED COM NO. 209H WELL
X = 737,940' (NAD27 NM E)
Y = 510,067'
LAT. 32.399930° N (NAD27)
LONG. 103.562418° W
X = 779,122' (NAD83/86 NM E)
Y = 510,128'
LAT. 32.400054° N (NAD83/86)
LONG. 103.562902° W

FIRST TAKE POINT
X = 738,373' (NAD27 NM E)
Y = 509,735'
LAT. 32.399010° N (NAD27)
LONG. 103.561023° W
X = 779,555' (NAD83/2011 NM E)
Y = 509,795'
LAT. 32.399132° N (NAD83/2011)
LONG. 103.561507° W

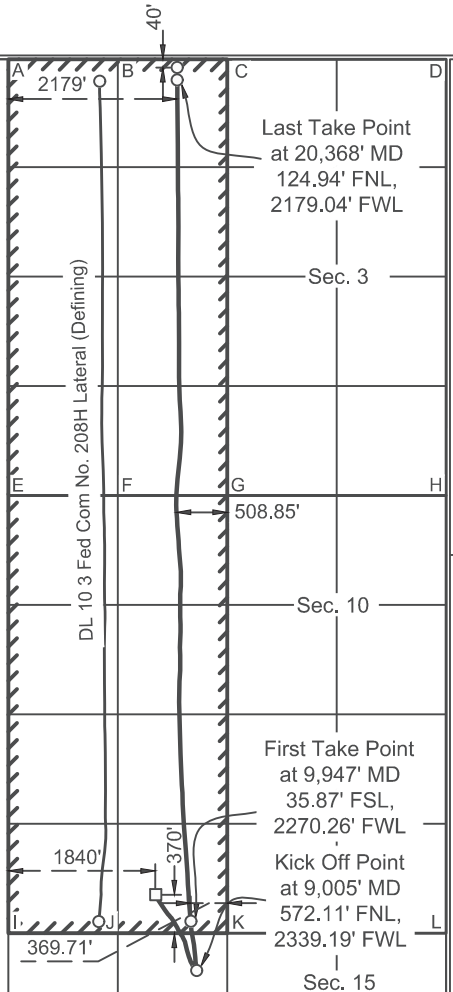
KICK OFF POINT
X = 738,446' (NAD27 NM E)
Y = 509,128'
LAT. 32.397339° N (NAD27)
LONG. 103.560798° W
X = 779,629' (NAD83/2011 NM E)
Y = 509,188'
LAT. 32.397460° N (NAD83/2011)
LONG. 103.561282° W

LAST TAKE POINT
X = 738,205' (NAD27 NM E)
Y = 520,143'
LAT. 32.427620° N (NAD27)
LONG. 103.561322° W
X = 779,388' (NAD83/2011 NM E)
Y = 520,203'
LAT. 32.427741° N (NAD83/2011)
LONG. 103.561807° W

AS-DRILLED BOTTOM HOLE LOCATION
X = 738,205' (NAD27 NM E)
Y = 520,227'
LAT. 32.427853° N (NAD27)
LONG. 103.561322° W
X = 779,387' (NAD83/2011 NM E)
Y = 520,288'
LAT. 32.427974° N (NAD83/2011)
LONG. 103.561807° W

CORNER COORDINATES TABLE (NAD 27)

A - X=736025.52, Y=520252.31
B - X=737346.67, Y=520261.62
C - X=738667.82, Y=520270.92
D - X=741306.31, Y=520276.31
E - X=736060.36, Y=514965.47
F - X=737381.93, Y=514973.52
G - X=738703.50, Y=514981.57
H - X=741345.26, Y=514996.96
I - X=736102.72, Y=509685.81
J - X=737422.67, Y=509693.78
K - X=738742.61, Y=509701.75
L - X=741384.61, Y=509713.53



[17] 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.

Cindy Herrera-Murillo — 01/26/2023
Signature — Date

Cindy Herrera-Murillo
Printed Name

Cherreramurillo@chevron.com
E-mail Address

[18] 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.

08/24/2021
Date of Survey

Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN
NEW MEXICO
22921
PROFESSIONAL SURVEYOR

01/16/2023
Certificate Number

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
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District IV
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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 August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549906	97846	WC-025 G-06 S223322J; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	DL 10 15 OGOPOGO FED COM	422H

[7] OGRID No.	[8] Operator Name	[9] Elevation
	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	22 SOUTH	33 EAST, N.M.P.M.		1986'	SOUTH	1238'	EAST	LEA

[11] 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	22	22 SOUTH	33 EAST, N.M.P.M.		42'	SOUTH	2297'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 10 15 OGOPOGO FED COM NO. 422H WELL
X = 740,131' (NAD27 NM E)
Y = 511,694'
LAT. 32.404358° N (NAD27)
LONG. 103.555281° W
X = 781,313' (NAD83/2011 NM E)
Y = 511,754'
LAT. 32.404482° N (NAD83/2011)
LONG. 103.555766° W

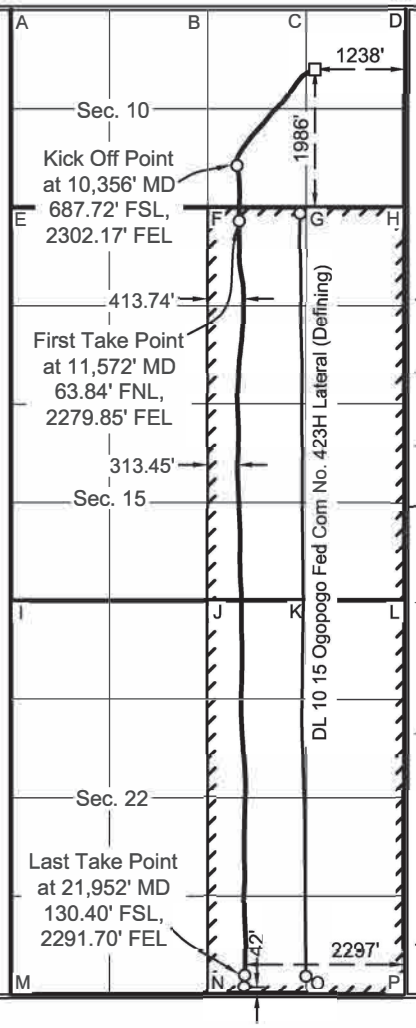
FIRST TAKE POINT
X = 739,105' (NAD27 NM E)
Y = 509,640'
LAT. 32.398732° N (NAD27)
LONG. 103.558652° W
X = 780,288' (NAD83/2011 NM E)
Y = 509,699'
LAT. 32.398854° N (NAD83/2011)
LONG. 103.559136° W

KICK OFF POINT
X = 739,077' (NAD27 NM E)
Y = 510,391'
LAT. 32.400798° N (NAD27)
LONG. 103.558726° W
X = 780,259' (NAD83/2011 NM E)
Y = 510,451'
LAT. 32.400920° N (NAD83/2011)
LONG. 103.559210° W

LAST TAKE POINT
X = 739,170' (NAD27 NM E)
Y = 499,276'
LAT. 32.370244° N (NAD27)
LONG. 103.558686° W
X = 780,353' (NAD83/2011 NM E)
Y = 499,335'
LAT. 32.370366° N (NAD83/2011)
LONG. 103.559169° W

AS-DRILLED BOTTOM HOLE LOCATION
X = 739,165' (NAD27 NM E)
Y = 499,187'
LAT. 32.370001° N (NAD27)
LONG. 103.558702° W
X = 780,348' (NAD83/2011 NM E)
Y = 499,247'
LAT. 32.370123° N (NAD83/2011)
LONG. 103.559185° W

CORNER COORDINATES
TABLE (NAD 27)
A - X=736081.66, Y=512324.66
B - X=738723.06, Y=512341.28
C - X=740043.24, Y=512349.58
D - X=741363.42, Y=512357.89
E - X=736102.72, Y=509685.81
F - X=738742.61, Y=509701.75
G - X=740063.61, Y=509707.64
H - X=741384.61, Y=509713.53
I - X=736144.86, Y=504406.30
J - X=738784.10, Y=504419.02
K - X=740099.78, Y=504428.27
L - X=741415.47, Y=504437.51
M - X=736187.53, Y=499128.78
N - X=738823.86, Y=499143.28
O - X=740143.20, Y=499150.77
P - X=741462.53, Y=499158.27



[17] 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.

Cindy Herrera-Murillo 5/1/2023
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] 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.

06/24/2020
Date of Survey

Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN
NEW MEXICO
22921
PROFESSIONAL SURVEYOR
01/16/2023

Certificate Number

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Santa Fe, NM 87505

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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549907	97846	WC-025 G-06 S223322J; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	DL 10 15 OGOPOGO FED COM	423H

[7] OGRID No.	[8] Operator Name	[9] Elevation
	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	22 SOUTH	33 EAST, N.M.P.M.		1986'	SOUTH	1213'	EAST	LEA

[11] 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	22	22 SOUTH	33 EAST, N.M.P.M.		39'	SOUTH	1427'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	DEFINING		

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.

[16]

DL 10 15 OGOPOGO FED COM NO. 423H WELL
X = 740,156' (NAD27 NM E)
Y = 511,694'
LAT. 32.404358° N (NAD27)
LONG. 103.555199° W
X = 781,339' (NAD83/2011 NM E)
Y = 511,754'
LAT. 32.404480° N (NAD83/2011)
LONG. 103.555684° W

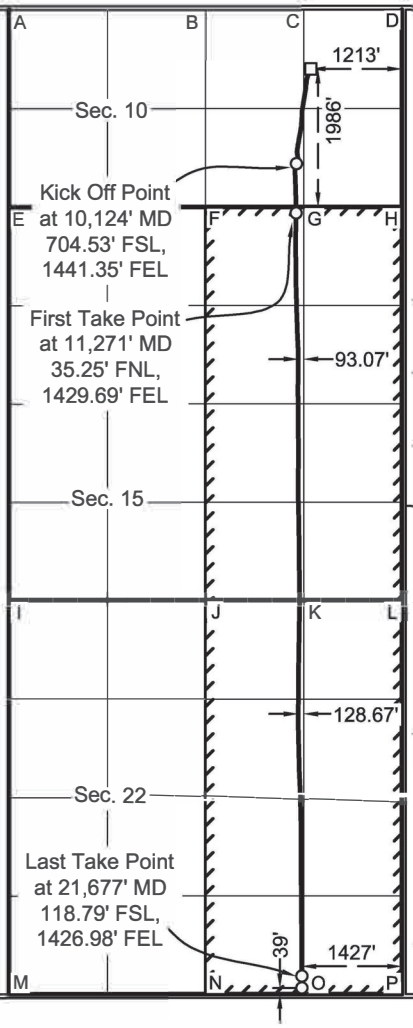
FIRST TAKE POINT
X = 739,955' (NAD27 NM E)
Y = 509,672'
LAT. 32.398804° N (NAD27)
LONG. 103.555898° W
X = 781,138' (NAD83/2011 NM E)
Y = 509,732'
LAT. 32.398926° N (NAD83/2011)
LONG. 103.556382° W

KICK OFF POINT
X = 739,938' (NAD27 NM E)
Y = 510,412'
LAT. 32.400838° N (NAD27)
LONG. 103.555937° W
X = 781,120' (NAD83/2011 NM E)
Y = 510,472'
LAT. 32.400959° N (NAD83/2011)
LONG. 103.556421° W

LAST TAKE POINT
X = 740,035' (NAD27 NM E)
Y = 499,269'
LAT. 32.370209° N (NAD27)
LONG. 103.555885° W
X = 781,218' (NAD83/2011 NM E)
Y = 499,329'
LAT. 32.370330° N (NAD83/2011)
LONG. 103.556368° W

AS-DRILLED BOTTOM HOLE LOCATION
X = 740,035' (NAD27 NM E)
Y = 499,189'
LAT. 32.369990° N (NAD27)
LONG. 103.555884° W
X = 781,218' (NAD83/2011 NM E)
Y = 499,249'
LAT. 32.370111° N (NAD83/2011)
LONG. 103.556368° W

CORNER COORDINATES TABLE (NAD 27)
A - X=736081.66, Y=512324.66
B - X=738723.06, Y=512341.28
C - X=740043.24, Y=512349.58
D - X=741363.42, Y=512357.89
E - X=736102.72, Y=509685.81
F - X=738742.61, Y=509701.75
G - X=740063.61, Y=509707.64
H - X=741384.61, Y=509713.53
I - X=736144.86, Y=504406.30
J - X=738784.10, Y=504419.02
K - X=740099.78, Y=504428.27
L - X=741415.47, Y=504437.51
M - X=736187.53, Y=499128.78
N - X=738823.86, Y=499143.28
O - X=740143.20, Y=499150.77
P - X=741462.53, Y=499158.27



[17] 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.

Signature Date

Printed Name

E-mail Address

[18] 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.

06/24/2020
Date of Survey

Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN
NEW MEXICO
22921
PROFESSIONAL SURVEYOR
01/16/2023

Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549908	97846	WC-025 G-06 S223322J; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	DL 10 15 OGOPOGO FED COM	424H

[7] OGRID No.	[8] Operator Name	[9] Elevation
	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	22 SOUTH	33 EAST, N.M.P.M.		1986'	SOUTH	1188'	EAST	LEA

[11] 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
P	22	22 SOUTH	33 EAST, N.M.P.M.		42'	SOUTH	535'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 10 15 OGOPOGO FED COM NO. 424H WELL
X = 740,181' (NAD27 NM E)
Y = 511,694'
LAT. 32.404358° N (NAD27)
LONG. 103.555119° W
X = 781,363' (NAD83/2011 NM E)
Y = 511,754'
LAT. 32.404479° N (NAD83/2011)
LONG. 103.555604° W

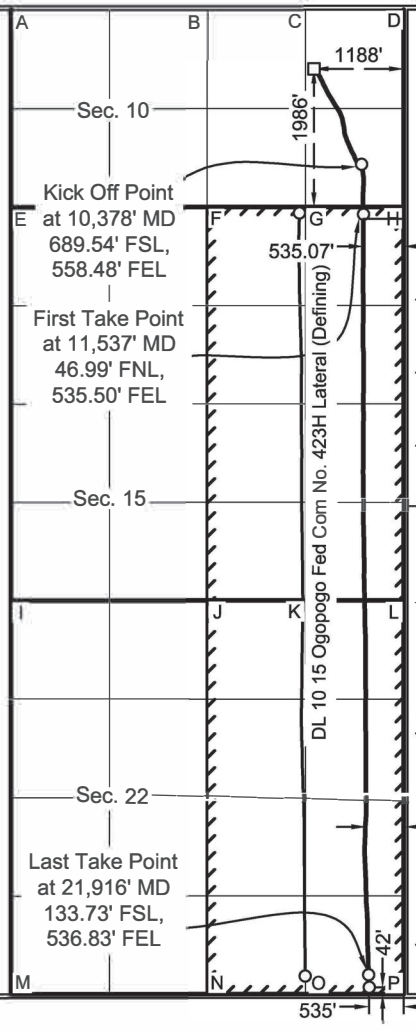
FIRST TAKE POINT
X = 740,849' (NAD27 NM E)
Y = 509,664'
LAT. 32.398765° N (NAD27)
LONG. 103.553001° W
X = 782,032' (NAD83/2011 NM E)
Y = 509,724'
LAT. 32.398887° N (NAD83/2011)
LONG. 103.553485° W

KICK OFF POINT
X = 740,821' (NAD27 NM E)
Y = 510,401'
LAT. 32.400790° N (NAD27)
LONG. 103.553077° W
X = 782,003' (NAD83/2011 NM E)
Y = 510,460'
LAT. 32.400911° N (NAD83/2011)
LONG. 103.553561° W

LAST TAKE POINT
X = 740,925' (NAD27 NM E)
Y = 499,289'
LAT. 32.370246° N (NAD27)
LONG. 103.553002° W
X = 782,108' (NAD83/2011 NM E)
Y = 499,349'
LAT. 32.370367° N (NAD83/2011)
LONG. 103.553485° W

AS DRILLED BOTTOM HOLE LOCATION
X = 740,927' (NAD27 NM E)
Y = 499,197'
LAT. 32.369994° N (NAD27)
LONG. 103.552997° W
X = 782,110' (NAD83/2011 NM E)
Y = 499,257'
LAT. 32.370115° N (NAD83/2011)
LONG. 103.553480° W

CORNER COORDINATES
TABLE (NAD 27)
A - X=736081.66, Y=512324.66
B - X=738723.06, Y=512341.28
C - X=740043.24, Y=512349.58
D - X=741363.42, Y=512357.89
E - X=736102.72, Y=509685.81
F - X=738742.61, Y=509701.75
G - X=740063.61, Y=509707.64
H - X=741384.61, Y=509713.53
I - X=736144.86, Y=504406.30
J - X=738784.10, Y=504419.02
K - X=740099.78, Y=504428.27
L - X=741415.47, Y=504437.51
M - X=736187.53, Y=499128.78
N - X=738823.86, Y=499143.28
O - X=740143.20, Y=499150.77
P - X=741462.53, Y=499158.27



[17] 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.

Signature Date

Printed Name

E-mail Address

[18] 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.

06/24/2020
Date of Survey

Signature and Seal of Professional Surveyor:

STEVEN M. COLEMAN
NEW MEXICO
22921
PROFESSIONAL SURVEYOR

01/16/2023
Certificate Number

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OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549081	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
	DL 15 22 NARWHAL FED COM	219H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1790'	WEST	LEA

[11] Bottom Hole Location If Different From Surface

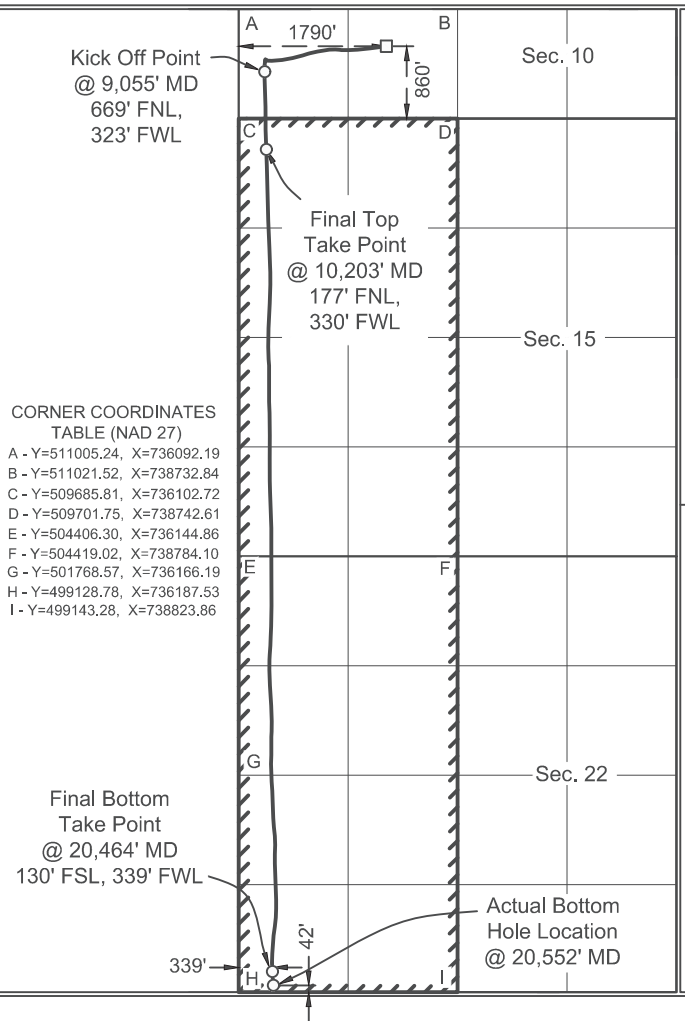
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	22 SOUTH	33 EAST, N.M.P.M.		42'	SOUTH	339'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 15 22 NARWHAL FED COM NO. 219H WELL (AS-STAKED)		
X=	737,886'	NAD 27
Y=	510,557'	
LAT.	32.401278° N	
LONG.	103.562581° W	
X=	779,068'	NAD83/86
Y=	510,618'	
LAT.	32.401402° N	
LONG.	103.563065° W	
KICK OFF POINT		
X=	736,420'	NAD 27
Y=	510,357'	
LAT.	32.400757° N	
LONG.	103.567333° W	
X=	777,603'	NAD83/86
Y=	510,417'	
LAT.	32.400880° N	
LONG.	103.567818° W	
FINAL TOP TAKE POINT		
X=	736,434'	NAD 27
Y=	509,510'	
LAT.	32.398430° N	
LONG.	103.567308° W	
X=	777,617'	NAD83/86
Y=	509,571'	
LAT.	32.398554° N	
LONG.	103.567792° W	
FINAL BOTTOM TAKE POINT		
X=	736,525'	NAD 27
Y=	499,260'	
LAT.	32.370254° N	
LONG.	103.567250° W	
X=	777,708'	NAD83/86
Y=	499,321'	
LAT.	32.370378° N	
LONG.	103.567734° W	
ACTUAL BHL		
X=	736,526'	NAD 27
Y=	499,172'	
LAT.	32.370013° N	
LONG.	103.567250° W	
X=	777,709'	NAD83/86
Y=	499,233'	
LAT.	32.370136° N	
LONG.	103.567733° W	



CORNER COORDINATES TABLE (NAD 27)
A - Y=511005.24, X=736092.19
B - Y=511021.52, X=738732.84
C - Y=509685.81, X=736102.72
D - Y=509701.75, X=738742.61
E - Y=504406.30, X=736144.86
F - Y=504419.02, X=738784.10
G - Y=501768.57, X=736166.19
H - Y=499128.78, X=736187.53
I - Y=499143.28, X=738823.86

[17] 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.

Carol Adler 3/30/2022
Signature Date

Carol Adler
Printed Name

caroladler@chevron.com
E-mail Address

[18] 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.

09/25/2019
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 03/21/2022

Certificate Number

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, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549082	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
	DL 15 22 NARWHAL FED COM	220H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1815'	WEST	LEA

[11] Bottom Hole Location If Different From Surface

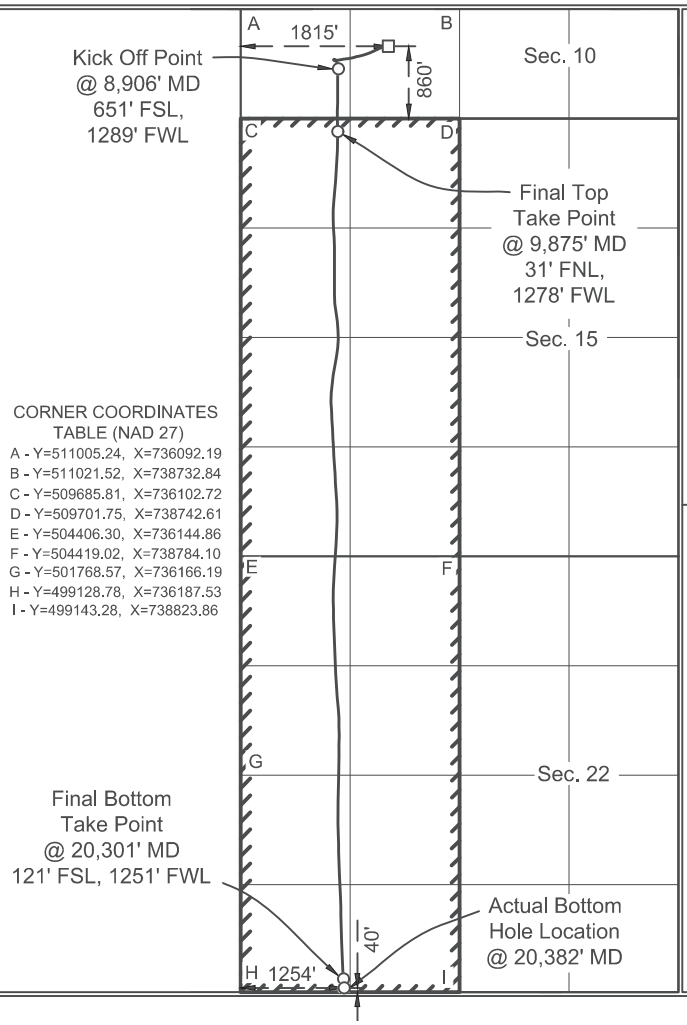
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	22 SOUTH	33 EAST, N.M.P.M.		40'	SOUTH	1254'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	DEFINING		

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.

[16]

DL 15 22 NARWHAL FED COM NO. 220H WELL (AS-STAKED)		
X=	737,911'	NAD 27
Y=	510,557'	
LAT.	32.401277° N	
LONG.	103.562500° W	
X=	779,093'	NAD83/86
Y=	510,617'	
LAT.	32.401401° N	
LONG.	103.562984° W	
KICK OFF POINT		
X=	737,386'	NAD 27
Y=	510,344'	
LAT.	32.400703° N	
LONG.	103.564204° W	
X=	778,569'	NAD83/86
Y=	510,405'	
LAT.	32.400827° N	
LONG.	103.564689° W	
FINAL TOP TAKE POINT		
X=	737,381'	NAD 27
Y=	509,662'	
LAT.	32.398830° N	
LONG.	103.564238° W	
X=	778,563'	NAD83/86
Y=	509,723'	
LAT.	32.398953° N	
LONG.	103.564722° W	
FINAL BOTTOM TAKE POINT		
X=	737,437'	NAD 27
Y=	499,256'	
LAT.	32.370226° N	
LONG.	103.564298° W	
X=	778,620'	NAD83/86
Y=	499,317'	
LAT.	32.370349° N	
LONG.	103.564781° W	
ACTUAL BHL		
X=	737,441'	NAD 27
Y=	499,176'	
LAT.	32.370003° N	
LONG.	103.564287° W	
X=	778,624'	NAD83/86
Y=	499,236'	
LAT.	32.370127° N	
LONG.	103.564771° W	



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D - Y=509701.75, X=738742.61
E - Y=504406.30, X=736144.86
F - Y=504419.02, X=738784.10
G - Y=501768.57, X=736166.19
H - Y=499128.78, X=736187.53
I - Y=499143.28, X=738823.86

[17] 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.

Carol Adler — Signature — 3/30/2022 — Date

Carol Adler — Printed Name

caroladler@chevron.com — E-mail Address

[18] 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.

09/25/2019 — Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES — NEW MEXICO — 23006 — PROFESSIONAL SURVEYOR — 03/21/2022

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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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
3002549083	51687	RED TANK; BONE SPRING, EAST

[4] Property Code	[5] Property Name	[6] Well Number
	DL 15 22 NARWHAL FED COM	221H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3563'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1840'	WEST	LEA

[11] 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
N	22	22 SOUTH	33 EAST, N.M.P.M.		44'	SOUTH	2178'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640	INFILL		

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.

[16]

DL 15 22 NARWHAL FED COM NO. 221H WELL (AS-STAKED)		
X=	737,936'	NAD 27
Y=	510,557'	
LAT.	32.401277° N	
LONG.	103.562419° W	
X=	779,118'	NAD83/86
Y=	510,618'	
LAT.	32.401401° N	
LONG.	103.562903° W	
KICK OFF POINT		
X=	738,232'	NAD 27
Y=	510,334'	
LAT.	32.400658° N	
LONG.	103.561466° W	
X=	779,414'	NAD83/86
Y=	510,394'	
LAT.	32.400782° N	
LONG.	103.561950° W	
FINAL TOP TAKE POINT		
X=	738,263'	NAD 27
Y=	509,669'	
LAT.	32.398831° N	
LONG.	103.561380° W	
X=	779,445'	NAD83/86
Y=	509,730'	
LAT.	32.398954° N	
LONG.	103.561864° W	
FINAL BOTTOM TAKE POINT		
X=	738,371'	NAD 27
Y=	499,264'	
LAT.	32.370229° N	
LONG.	103.561272° W	
X=	779,554'	NAD83/86
Y=	499,325'	
LAT.	32.370353° N	
LONG.	103.561755° W	
ACTUAL BHL		
X=	738,365'	NAD 27
Y=	499,185'	
LAT.	32.370010° N	
LONG.	103.561293° W	
X=	779,548'	NAD83/86
Y=	499,245'	
LAT.	32.370133° N	
LONG.	103.561777° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=511005.24, X=736092.19
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D - Y=509701.75, X=738742.61
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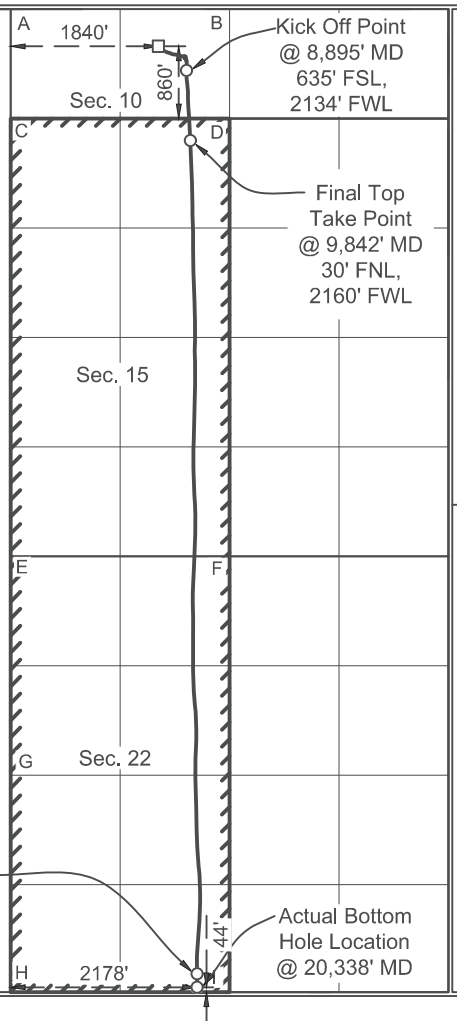
F - Y=504419.02, X=738784.10
G - Y=501768.57, X=736166.19
H - Y=499128.78, X=736187.53
I - Y=499143.28, X=738823.86



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Carol Adler — Signature — 3/30/2022 — Date

Carol Adler
Printed Name

caroladler@chevron.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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09/25/2019
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR
03/21/2022

Certificate Number

Dagger Lake Wells

Basin	Field	Development area	CTB	Well Name	API
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 422H	30025499060001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 423H	30025499070001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 424H	30025499080001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 207H	30025490780001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 208H	30025490790001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 209H	30025490800001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 219H	30025490810001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 220H	30025490820001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 221H	30025490830001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 4H	30025466440001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 5H	30025466450001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 6H	30025466460001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 16H	30025466470001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 17H	30025466480001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 18H	30025466490001

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 422H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 422H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 422H

Area	Surface UWI	Well Type
Delaware Basin	3002549906	Oil Producer

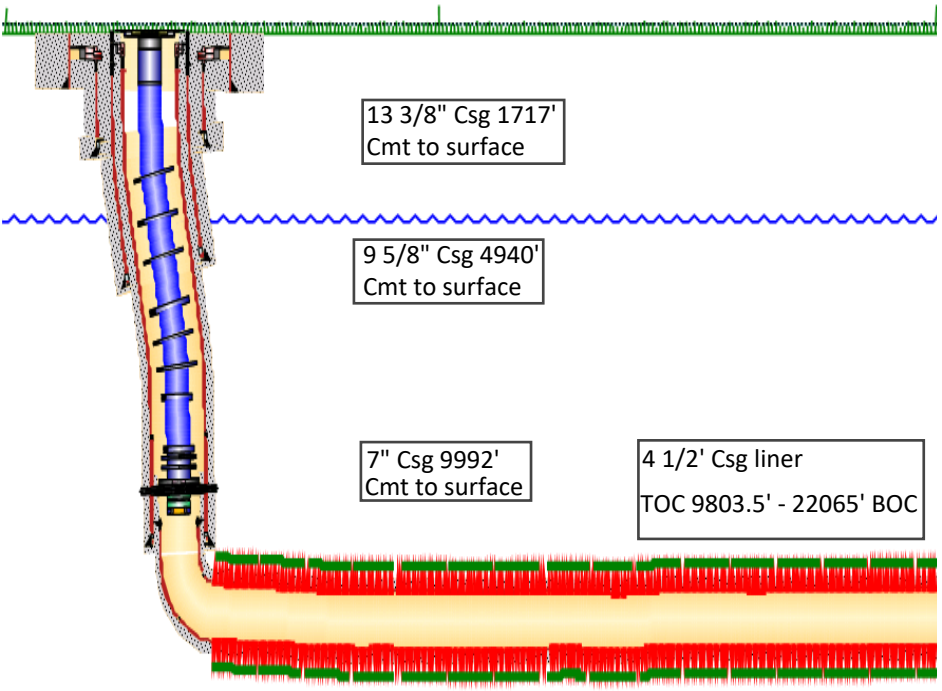
Latitude	Longitude
32.404482	-103.555766

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1238'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 422H



Pool: WC-025 G-06 S223322J
Bone spring perfs 11572' to 21,963'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	643 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	988 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,572 MD to 21,963' MD perforated

SLIDE 2 *DL 10 15 OGOPOGO FED COM 422H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9803.3' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 765 sx. Method: CALC

Packer Setting Depth: 9782.3' MD

Top of Cement: 9803.5' MD Bottom of Cmt: 22,065' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9960' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 423H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 423H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 423H

Area	Surface UWI	Well Type
Delaware Basin	3002549907	Oil Producer

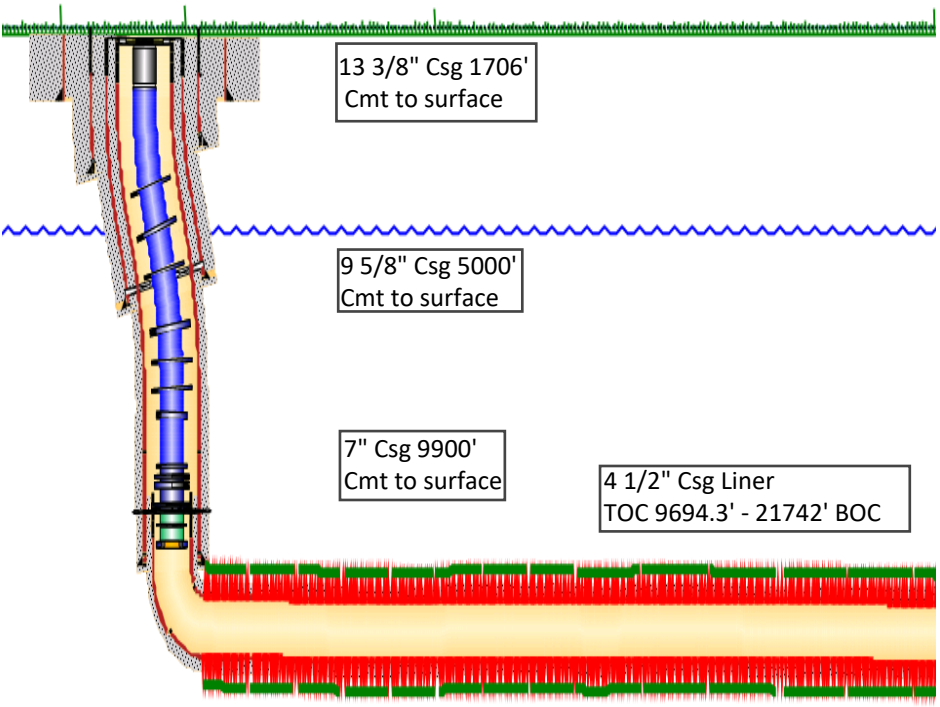
Latitude	Longitude
32.404482	-103.555685

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1213'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 423H



*Note - Diagram not to scale

Pool: WC-025 G-06 S223322J
Bone Springs perfs: 11,271' to 21,677'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	643 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	984 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,271 MD to 21,677 MD perforated

SLIDE 2 *DL 10 15 OGOPOGO FED COM 423H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9734.1 MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 749 sx. Method: CALC

Packer Setting Depth: 9,711.1 MD

Top of Cement: 9694.3' MD Bottom of Cmt: 21,742' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9960' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 424H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 424H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 424H

Area	Surface UWI	Well Type
Delaware Basin	3002549908	Oil Producer

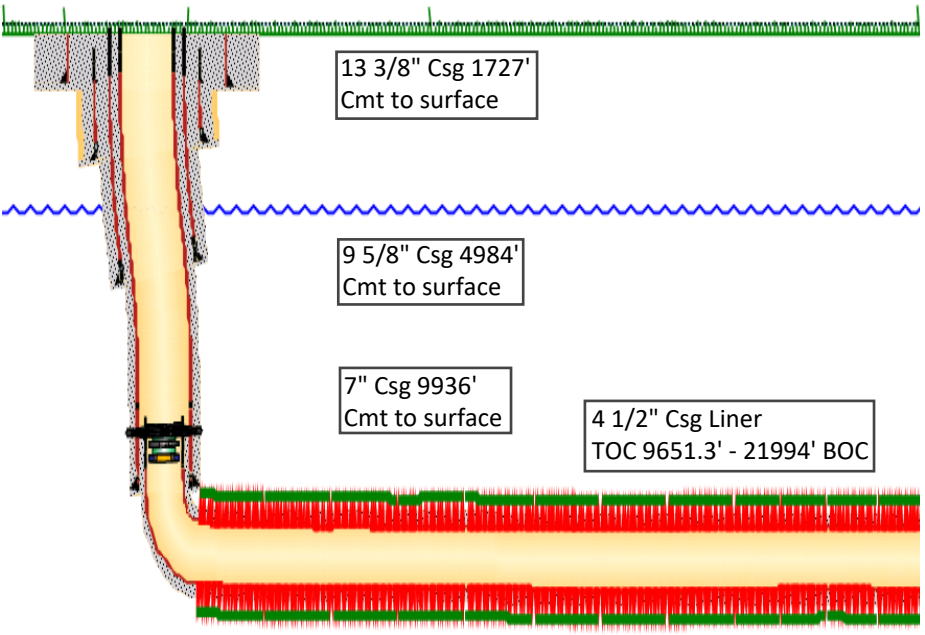
Latitude	Longitude
32.404481	-103.555604

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1188'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 424H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 11,537' to 21,927'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	634 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	980 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,537' MD to 21,927' MD perforated

SLIDE 2 *DL 10 15 OGOPOGO FED COM 424H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9680.8' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 768 sx. Method: CALC

Packer Setting Depth: 9659.3' MD

Top of Cement: 9651.3' MD Bottom of Cmt: 21994' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9965' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 207H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 207H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 207H

Area	Surface UWI	Well Type
Delaware Basin	3002549078	Oil Producer

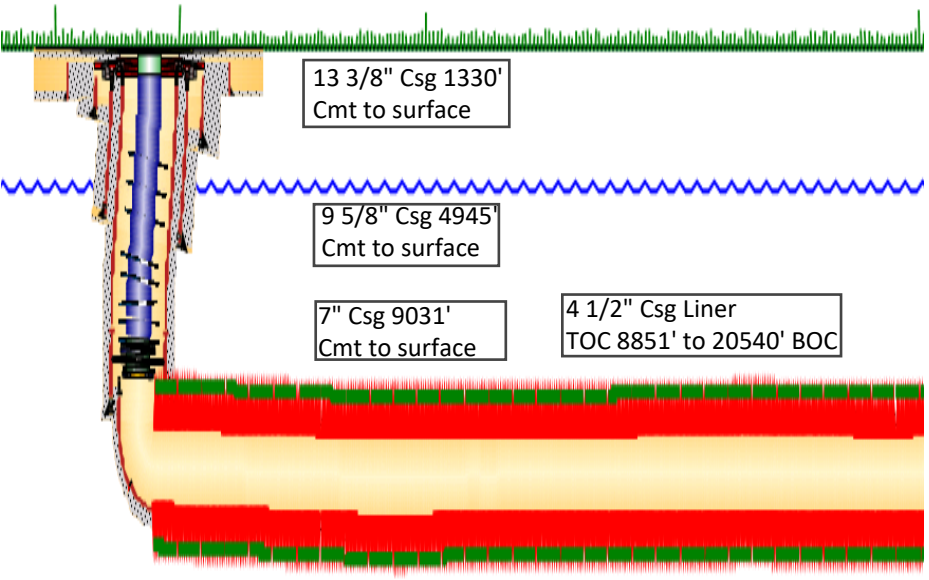
Latitude	Longitude
32.400054	-103.563064

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1790"	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 207H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10,048' to 20,469'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	772 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	722 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,048' to 20,469' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 207H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8849.3' MD

Production CSG Liner: CMT

Type of packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 769 sx. Method: CALC

Packer Setting Depth: 8828.3' MD

Top of Cement: 8851' MD Bottom of Cmt: 20540' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8931' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 208H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 208H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 208H

Area	Surface UWI	Well Type
Delaware Basin	3002549079	Oil Producer

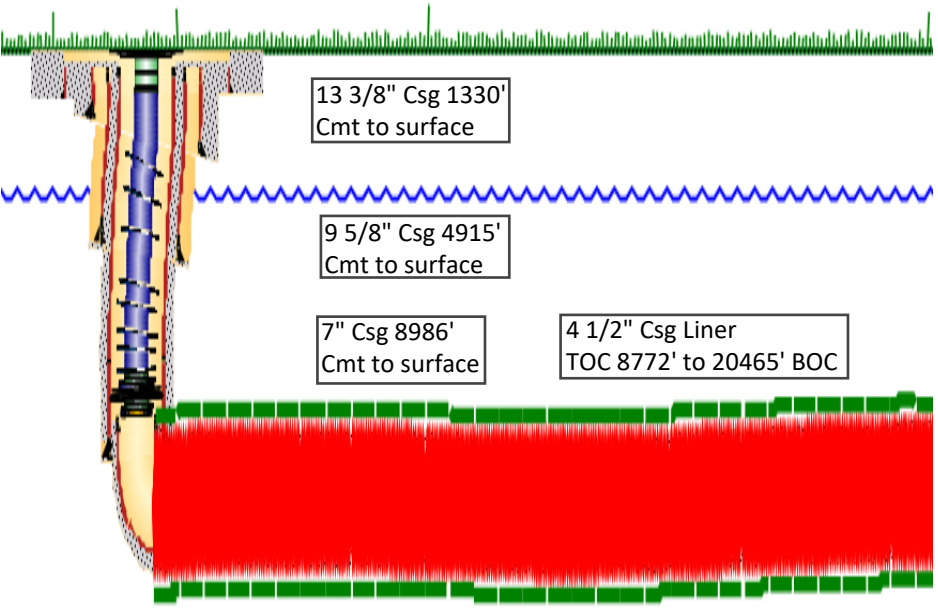
Latitude	Longitude
32.400054	-103.562983

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1815'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 208H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9978' to 20399'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	720 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9978' to 20399' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 208H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8771.0' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8750.0' MD

Top of Cement: 8772' MD Bottom of Cmt: 20465' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8933' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 209H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 209H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 209H

Area	Surface UWI	Well Type
Delaware Basin	3002549080	Oil Producer

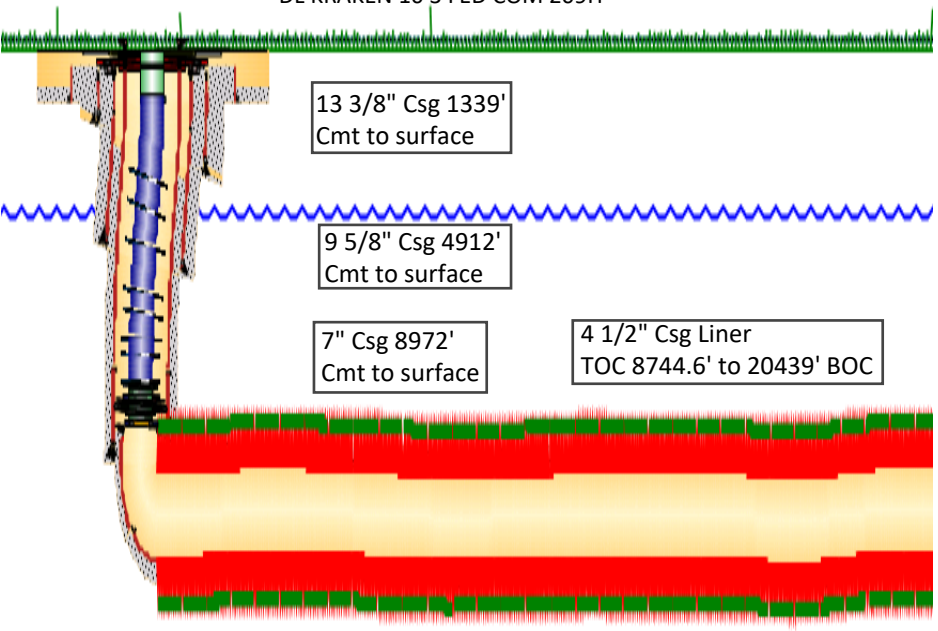
Latitude	Longitude
32.400054	-103.562902

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1840'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 209H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9947' to 20368'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	850 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	717 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9947' to 20368' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 209H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8743.4' MD

Production CSG Liner: CMT

Hole Size: 6 1/8" Casing Size: 4 1/2"

Type of Packer: Peak Completion Technologies AS1X

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8722.3' MD

Top of Cement: 8744.6' MD Bottom of Cmt: 20439' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8952' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 219H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 219H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 219H

Area	Surface UWI	Well Type
Delaware Basin	3002549081	Oil Producer

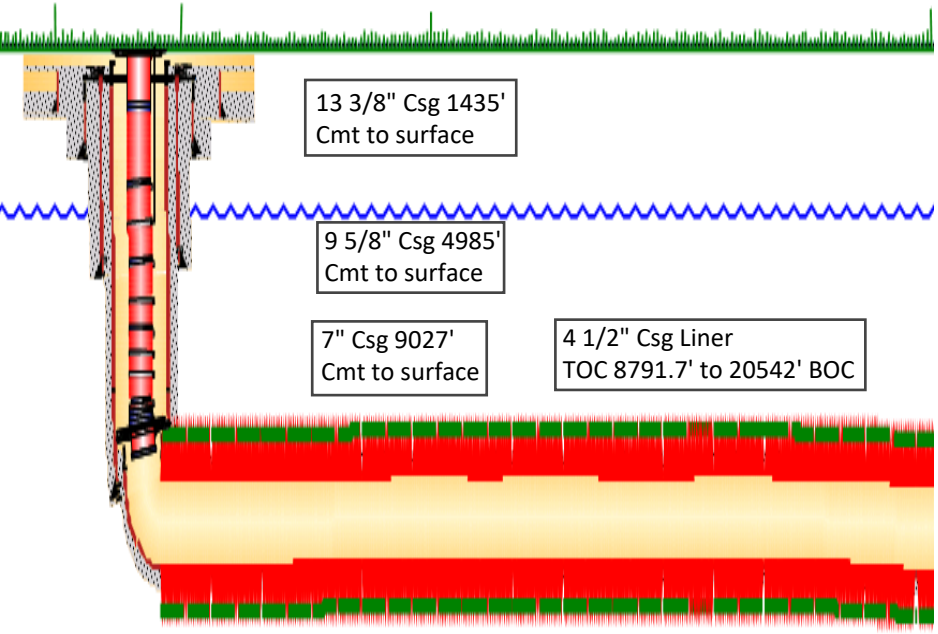
Latitude	Longitude
32.401402	-103.563065

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1790'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 15 22 NARWHAL FED COM 219H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10202.5' to 20471.5'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1114 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1197 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	819 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10202.5' to 20471.5' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 15 22 NARWHAL FED COM 219H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8793.7 ' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 773 sx. Method: CALC

Packer Setting Depth: 8773.0' MD

Top of Cement: 8791.7' MD Bottom of Cmt: 20542' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8296' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 220H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 220H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 220H

Area	Surface UWI	Well Type
Delaware Basin	3002549082	Oil Producer

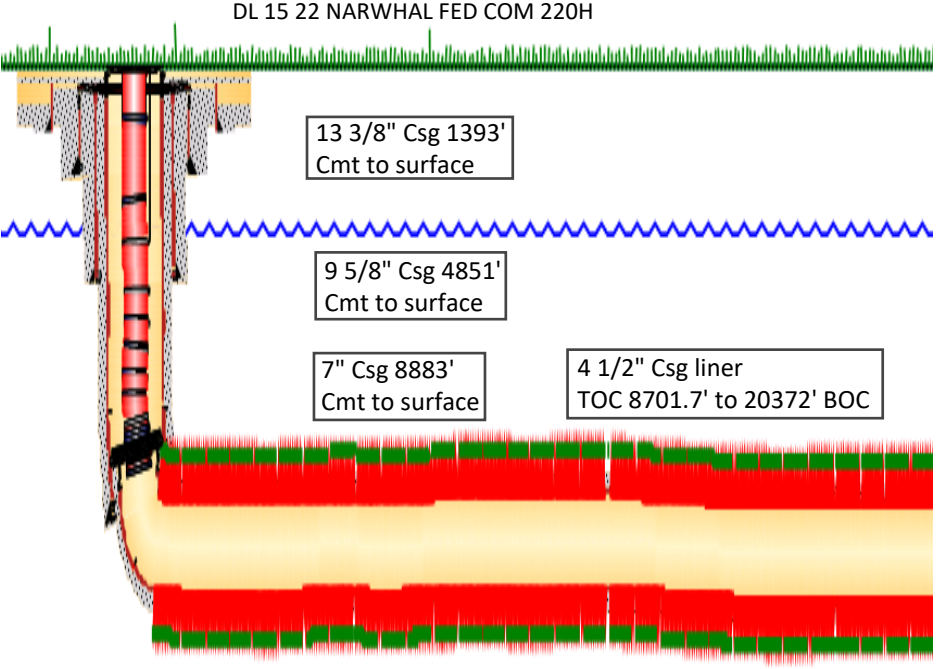
Latitude	Longitude
32.401401	-103.562984

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1815'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 15 22 NARWHAL FED COM 220H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9874.7' to 20301.4'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1114 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	928 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 - 3/4"	Casing Size:	7"
Cemented with:	806 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9874.7' to 20301.4' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 15 22 NARWHAL FED COM 220H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8715.4 ' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 764 sx. Method: CALC

Packer Setting Depth: 8695.0' MD

Top of Cement: 8701.7' MD Bottom of Cmt: 20372' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8965' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 221H

Operator: CHEVRON U S A INC

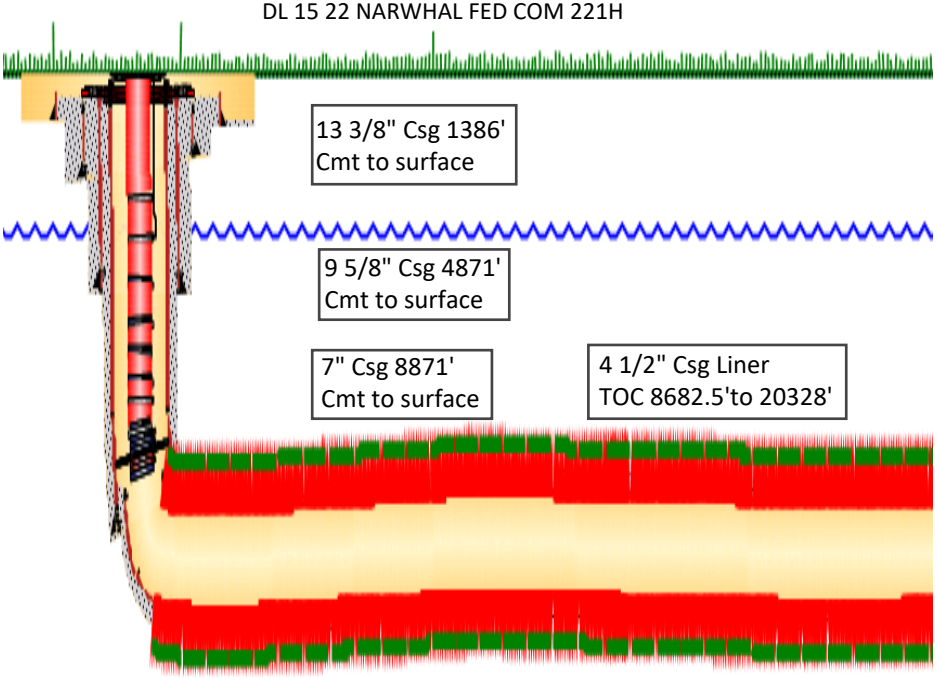
Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 221H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 221H

Area	Surface UWI	Well Type	
Delaware Basin	3002549083	Oil Producer	
Latitude		Longitude	
32.401401		-103.562903	
North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1840'	WEST
Township	Range	Section	
22S	33E	10	

Wellbore Schematic

DL 15 22 NARWHAL FED COM 221H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9842.2' to 20257.5'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1225 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	907 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	803 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9842.2' to 20257.5' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 15 22 NARWHAL FED COM 221H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8679.3 ' MD

Production CSG Liner: CMT

Hole Size: 6 1/8" Casing Size: 4 1/2"

Type of Packer: Peak Completion Technologies AS1X

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8658.9' MD

Top of Cement: 8682.5' MD Bottom of Cmt: 20328' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8967' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 4H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 4H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 4H

Area	Surface UWI	Well Type
Delaware Basin	3002546644	Oil Producer

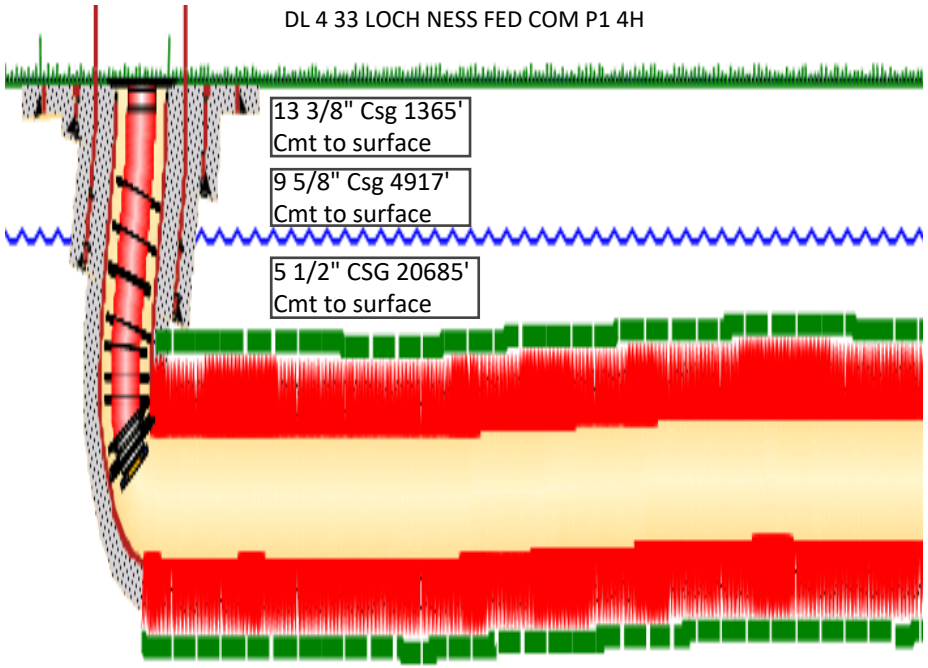
Latitude	Longitude
32.414283	-103.573242

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1347'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 4H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10258.2' to 20610.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10258.2' to 20610.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 4H*

Tubing: 2 7/8" Set Depth: 9189.9 ' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9161' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9002' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 5H

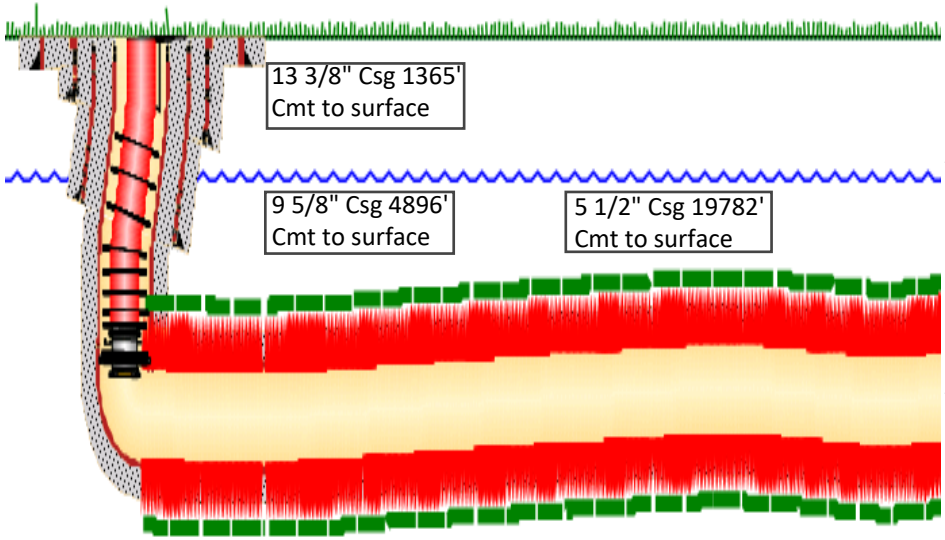
Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 5H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 5H			
Area: Delaware Basin	Surface UWI: 3002546645	Well Type: Oil Producer	
Latitude: 32.414283	Longitude: -103.57308		
North/South Distance (ft): 264'	North/South Reference: SOUTH	East/West Distance (ft): 1297'	East/West Reference: EAST
Township: 22S	Range: 33E	Section: 4	

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 5H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10501.2' to 19713.0'

Well Construction Data

Surface Casing

Hole Size: 16" Casing Size: 13 3/8"
Cemented with: 856 sx. Method Determined: CIRC
Top of Cement: SURF

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8"
Cemented with: 1548 sx. Method Determined: CIRC
Top of Cement: SURF

Production Casing

Hole Size: 8 1/2" Casing Size: 5 1/2"
Cemented with: 2720 sx. Method Determined: CIRC
Top of Cement: SURF

Injection Interval

10501.2' to 19713.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 5H*

Tubing: 2 7/8" Set Depth: 9128.9' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9108' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9003' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 6H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 6H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 6H

Area	Surface UWI	Well Type
Delaware Basin	3002546646	Oil Producer

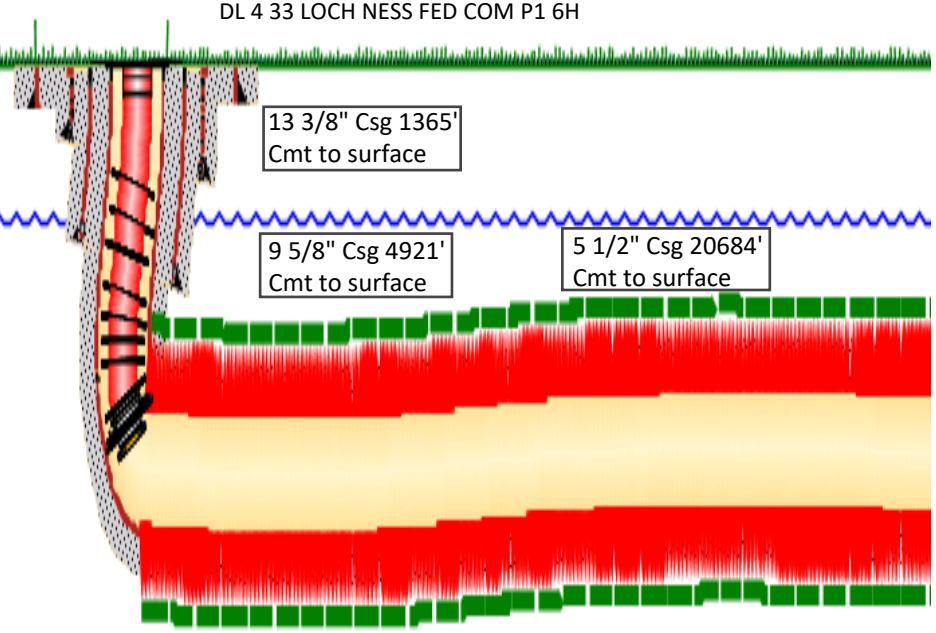
Latitude	Longitude
32.414284	-103.572918

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1247'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 6H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10262.0' to 20571.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	856 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1998 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3134 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10262.0' to 20571.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 6H*

Tubing: 2 7/8" Set Depth: 9191.0' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9170.0' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9025' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 16H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 16H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 16H

Area	Surface UWI	Well Type
Delaware Basin	3002546647	Oil Producer

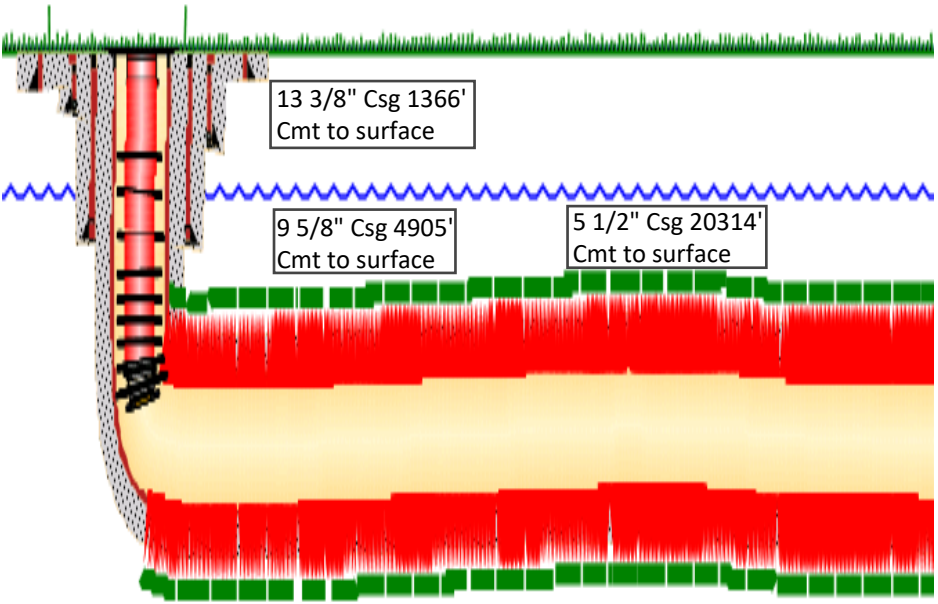
Latitude	Longitude
32.414282	-103.573323

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
263'	SOUTH	1372'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 16H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9936.0' to 20245.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9936.0'' to 20245.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 16H*

Tubing: 2 7/8" Set Depth: 9111.4' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9096.5' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8997' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 17H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 17H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 17H

Area	Surface UWI	Well Type
Delaware Basin	3002546648	Oil Producer

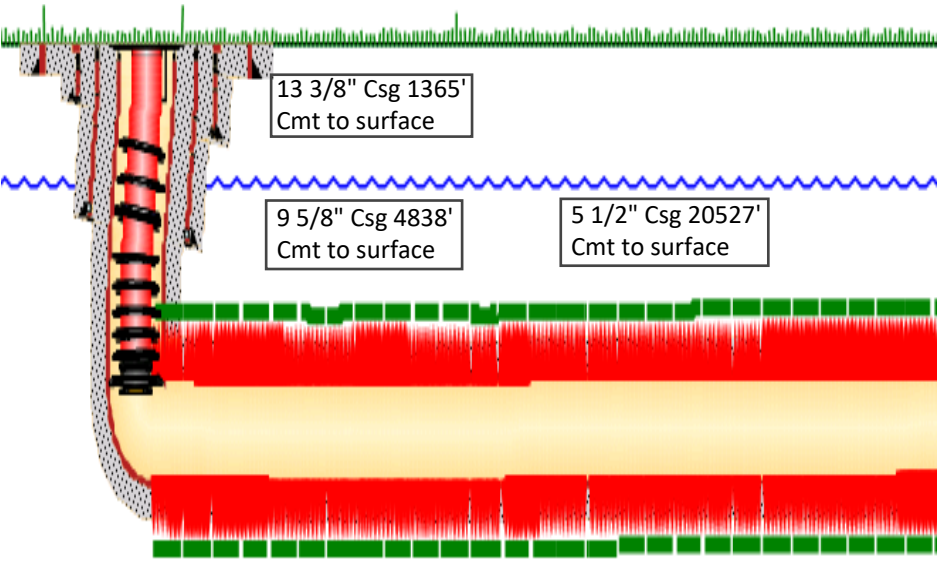
Latitude	Longitude
32.414283	-103.573161

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1322'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 17H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10511.4' to 20458.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10511.4' to 20458.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 17H*

Tubing: 2 7/8" Set Depth: 9075.9' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9055.5' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9017' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 18H

Operator: CHEVRON U S A INC

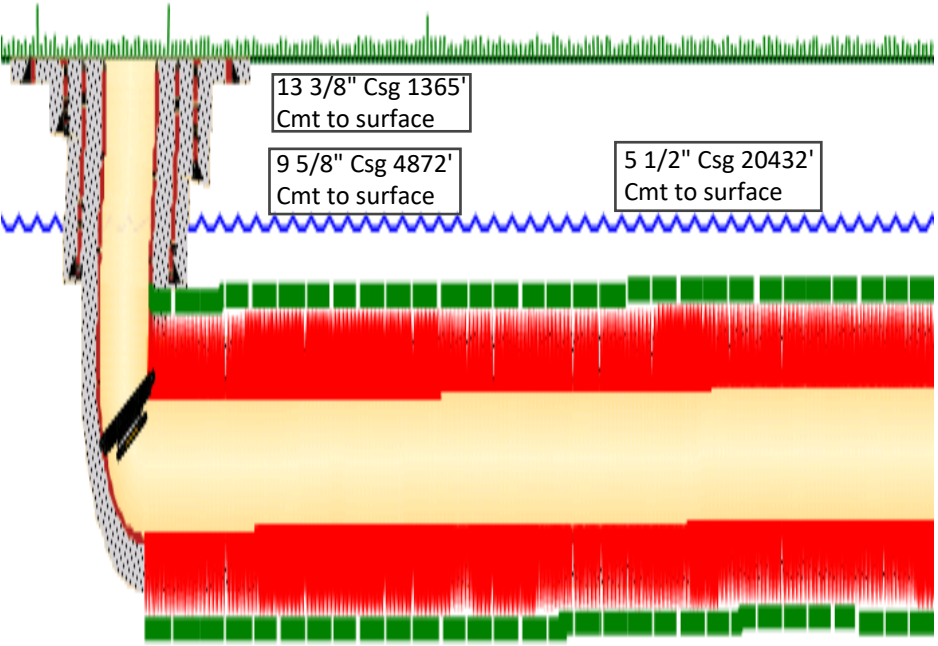
Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 18H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 18H

Area	Surface UWI	Well Type	
Delaware Basin	3002546649	Oil Producer	
Latitude		**Longitude**	
32.414282		-103.572999	
North/South Distance (ft)	**North/South Reference**	**East/West Distance (ft)**	**East/West Reference**
264'	SOUTH	1272'	EAST
Township	**Range**	**Section**	
22S	33E	4	

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 18H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10195.6' to 20363.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	856 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1572 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3150 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10195.6' to 20363.0' MD perforated

*Note - Diagram not to scale

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 18H*

Tubing: 2 7/8" Set Depth: 9081.6' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9060.7' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9016' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

Ref.	API	Current Operator	Lease Name and Well Number	Well Type	Status	Surface Location	Date Drilled	Completion Date	Csg Depth	Hole Size (in)	CSG Size (in)	Set At (ft) TOC - BOC	Sx Cmt	Method Determined	Completion Interval (ft)	Total Depth (MD)	TVD (TVDSS)	Current Pool	State	County
22	30025466440000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 4H	Oil	Active	264 FSL, 1347 FEL , 22S, 33E, 4 SW SE	4/29/2020	7/1/2022	20685'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4917' 0' - 20685' 9189'	855 1548 3102	Circ Circ Circ	10258' - 20610'	20700	9581	BONE SPRING	NM	LEA
23	30025466450000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 5H	Oil	Active	264 FSL, 1297 FEL , 22S, 33E, 4 SE SE	6/30/2020	7/1/2022	19782'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4896' 0' - 19782' 9128'	856 1548 2720	Circ Circ Circ	10501' - 19713'	19802	9595	BONE SPRING	NM	LEA
24	30025466460000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 6H	Oil	Active	264 FSL, 1247 FEL , 22S, 33E, 4 SE SE	3/7/2020	6/1/2022	20684'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4921' 0' - 20684' 9191'	856 1998 3134	Circ Circ Circ	10262' - 20571'	20694	9572	BONE SPRING	NM	LEA
25	30025466470000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 16H	Oil	Active	263 FSL, 1372 FEL , 22S, 33E, 4 SW SE	4/9/2022	2/2/2024	20314'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1366' 0' - 4905' 0' - 20314' 9111'	855 1548 3102	Circ Circ Circ	9936' - 20245'	20324	9510	BONE SPRING	NM	LEA
26	30025466480000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 17H	Oil	Active	264 FSL, 1322 FEL , 22S, 33E, 4 SW SE	5/24/2020	6/1/2022	20527'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4838' 0' - 20527' 9075'	855 1548 3102	Circ Circ Circ	10514' - 20458'	20539	9654	BONE SPRING	NM	LEA
27	30025466490000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 18H	Oil	Active	264 FSL, 1272 FEL , 22S, 33E, 4 SE SE	5/24/2020	########	20432'	16.000 12.250 8.500	Surface-13.375 Intermediate-9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4872' 0' - 20432' 9081'	856 1572 3150	Circ Circ Circ	10195' - 20363'	20444	9483	BONE SPRING	NM	LEA

38	30025490780000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 207H	Oil	Active	370 FSL, 1790 FWL, 22S, 33E, 10 SE SW	11/22/2021	1/1/2023	20540'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4945' 0' - 9031' 8851' - 20540' 8849'	1126 772 722 769	Circ Circ Circ Calc	10048' - 20469'	20551	9449	BONE SPRING	NM	LEA
39	30025490790000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 208H	Oil	Active	370 FSL, 1815 FWL, 22S, 33E, 10 SE SW	10/31/2021	1/1/2023	20460'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4915' 0' - 8986' 8772' - 20460' 8771'	1126 852 720 763	Circ Circ Circ Calc	9978' - 20399'	20480	9462	BONE SPRING	NM	LEA
40	30025490800000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 209H	Oil	Active	370 FSL, 1840 FWL, 22S, 33E, 10 SE SW	10/31/2021	9/1/2022	20439'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1339' 0' - 4912' 0' - 8972' 8744' - 20439' 8743'	1126 850 717 763	Circ Circ Circ Calc	9947' - 20368'	20453	9438	BONE SPRING	NM	LEA
41	30025490810000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 219H	Oil	Active	860 FSL, 1790 FWL, 22S, 33E, 10 SE SW	1/1/2022	5/1/2022	20542'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1435' 0' - 4985' 0' - 9027' 8791' - 20542' 8793'	1114 1197 819 773	Circ Circ Circ Calc	10202' - 20471'	20552	9429	BONE SPRING	NM	LEA
42	30025490820000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 220H	Oil	Active	860 FSL, 1815 FWL, 22S, 33E, 10 SE SW	1/11/2022	5/1/2022	20372'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1393' 0' - 4851' 0' - 8883' 8701' - 20372' 8715'	1114 928 806 764	Circ Circ Circ Calc	9874' - 20301'	20382	9498	BONE SPRING	NM	LEA
43	30025490830000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 221H	Oil	Active	860 FSL, 1840 FWL, 22S, 33E, 10 SE SW	1/19/2022	5/1/2022	20328'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1386' 0' - 4871' 0' - 8871' 8682' - 20328' 8679'	1225 907 803 763	Circ Circ Circ Calc	9842' - 20257'	20338	9528	BONE SPRING	NM	LEA

48	30025499060000	CHEVRON U S A INC	DL 10 15 OGOPOG O FED COM 422H	Oil	Active	1986 FSL, 1238 FEL , 22S, 33E, 10 NE SE	7/11/2022	########	22065'	17.500 12.250 8.750 6.125	Surface-13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production-4.500 Tubing-2.875	0' - 1717' 0' - 4940' 0' - 9992' 9803' - 22065' 9803'	643 852 988 765	Circ Circ Circ Calc	11572' - 21963'	22041	10984	BONE SPRING	NM	LEA
49	30025499070000	CHEVRON U S A INC	DL 10 15 OGOPOG O FED COM 423H	Oil	Active	1986 FSL, 1213 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21742'	17.500 12.250 8.750 6.125	Surface-13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production-4.500 Tubing-2.875	0' - 1706' 0' - 5000' 0' - 9900' 9694' - 21742' 9743'	643 852 984 749	Circ Circ Circ Calc	11271' - 21677'	21757	10764	BONE SPRING	NM	LEA
50	30025499080000	CHEVRON U S A INC	DL 10 15 OGOPOG O FED COM 424H	Oil	Active	1986 FSL, 1188 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21994'	17.500 12.250 8.750 6.125	Surface-13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production-4.500 Tubing-2.875	0' - 1727' 0' - 4984' 0' - 9936' 9561' - 21994' 9680'	634 852 980 768	Circ Circ Circ Calc	11537' - 21927'	22008	11015	BONE SPRING	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

Ref.	API	Current Operator	Lease Name and Well Number	Well Type	Status	Surface Location	Date Drilled	Completion Date	Csg Depth	Hole Size (in)	CSG Size (in)	Set At (ft) TOC - BOC	Sx Cmt	Method Determined	Completion Interval (ft)	Total Depth (MD)	TVD (TVDSS)	urrent Poo	State	County
1	30025271530002	RAYBAW OPERATING LLC	FED 15 COM A 001	Oil	Active	1980 FSL, 1980 FEL , 22S, 33E, 15 NW SE	12/12/1980	1/1/1982	15200'	17.500 12.250 8.500 6.125	Surface-13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production-4.500 Tubing-2.375	0' - 1130' 0' - 1600' 0' - 11500' 11200' - 15200' 11140'	1100 2050 1591 700	Circ Circ Circ Unknown	10911' - 1011	15200	15200	MORROW	NM	LEA
2	30025365830001	CHEVRON U S A INC	LIVESTOCK FEDERAL 9 2	Oil	Active	1450 FNL, 1950 FEL , 22S, 33E, 9 SW NE	4/3/2004	8/15/2004	15400'	17.5 12.250 8.750 6.125	Surface-13.375 Intermediate- 9.625 Production-7.0 Liner- 4.5 Tubing-2.375	0' - 1132' 0' - 4645' 0' - 12120' 0' - 15400' 13645'	950 1250 1700 325	Circ Circ Circ Circ	10898' - 10970'	15400	15345	MORROW	NM	LEA
3	30025413640100	MARATHON OIL PERMIAN LLC	BATTLE 001H	Oil	Active	160 FNL, 360 FEL , 21S, 33E, 34	8/21/2014	10/8/2014	15561'	17.5 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1670' 188' - 5033' 4300' - 15561' 10450'	1570 1360 1950	Circ Calc Theory	11333' - 15362'	16044	11011	BONE SPRI	NM	LEA
4	30025420090100	MARATHON OIL PERMIAN LLC	BATTLE 002H	Oil	Active	240 FSL, 1660 FEL , 21S, 33E, 27	2/24/2015	7/1/2015	16946'	16.00 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1711' 300' - 5330' 2808' - 16946' 11272'	1073 2525 1530	Unknown Oth Unknown	12330' - 16849'	16850	12017	BONE SPRI	NM	LEA
5	30025420660000	MARATHON OIL PERMIAN LLC	ABE STATE 002H	Oil	Active	185 FSL, 360 FEL , 21S, 33E, 29	9/8/2014	1/15/2015	16695'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1710' 0' - 5156' 0' - 16695' 11342'	855 610 2705	Circ Unknown Unknown	12191' - 16553'	16850	11847	BONE SPRI	NM	LEA
6	30025422300000	MARATHON OIL PERMIAN LLC	ABE STATE 003H	Oil	Active	240 FNL, 360 FEL , 21S, 33E, 32	10/28/2016	2/3/2017	16155'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1702' 0' - 5340' 0' - 16155' 11044'	1350 1654 2550	Circ Unknown Circ	11536' - 16064'	15950	11009	BONE SPRI	NM	LEA
7	30025426360000	MARATHON OIL PERMIAN LLC	BATTLE 34 FEDERAL 004H	Oil	Active	191 FSL, 960 FWL , 21S, 33E, 27 SW SW	6/6/2017	7/26/2017	15953'	24.000 17.500 12.500 8.750	Surface-20.000 Intermediate 1- 13.375 Intermediate 2- 9.625 Surface-5.500 Tubing-2.875	0' - 1633' 0' - 3553' 0' - 5350' 0' - 15953' 10821'	2350 2480 1042 1830	Unknown Unknown Unknown Unknown	11203' - 15663'	16728	10974	BONE SPRI	NM	LEA
8	30025431370000	MARATHON OIL PERMIAN LLC	CHILI PARLOR 17 FEDERAL 002H	Oil	Active	240 FSL, 360 FEL , 22S, 33E, 8 SE SE	10/5/2016	2/18/2017	15945'	26.000 17.500 8.750	Surface-20.000 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 795' 0' - 4631' Unknown - 15945' 10170'	1390 3590 1610	Circ Circ Unknown	11294' - 15825'	16864	10962	BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

9	30025431380000	MARATHON OIL PERMIAN LLC	CHILI PARLOR 17 FEDERAL COM 003H	Oil	Active	240 FSL, 2200 FEL , 22S, 33E, 8 SW SE	7/29/2017	10/27/2017	15737'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	29' - 1086' 29' - 4794' 29' - 15737' Unknown	1365 2200 2924	Circ Circ Unknown	Unknown - Unknown	15913	10852	BONE SPRI	NM	LEA
10	30025431790100	COG OPERATING LLC	RASPBERRY STATE COM 001H	Oil	Active	330 FSL, 200 FEL , 21S, 33E, 27	6/30/2016	10/4/2016	21022'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1812' 0' - 5448' 0' - 21022' 10343'	1300 1775 4200	Unknown Unknown Unknown	11121' - 20860'	20900	10918	BONE SPRI	NM	LEA
11	30025435860100	EOG RESOURCES INC	SPEEDY 16 STATE COM 501H	Oil	Active	173 FNL, 332 FWL , 22S, 33E, 16	3/18/2017	4/28/2017	14209'	17.500 12.250 12.250 8.750	Surface-13.375 Intermediate 1- 9.625 Intermediate 2- 9.625 Production-5.500 Tubing-2.875	0' - 1135' 0' - 4000' 0' - 4800' 4350' - 14209' 10964'	1025 1300 1300 2225	Circ Circ Calc Unknown	11096' - 15547'	14209	10899	BONE SPRI	NM	LEA
12	30025439090000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 503H	Oil	Active	100 FNL, 2250 FWL , 21S, 33E, 35	10/19/2017	3/14/2018	20858'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	1380' - 1761' 4294' - 5369' 10405' - 20858' 10303'	1375 1200 3880	Circ Circ Unknown	11200' - 20731'	22000	10985	BONE SPRI	NM	LEA
13	30025440430000	MARATHON OIL PERMIAN LLC	ABE STATE 001H	Oil	New	240 FNL, 1980 FEL , 21S, 33E, 32 NW NE	12/30/2017	1/27/2018	15978'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1677' 0' - 5065' 0' - 15978' Unknown	1574 1452 3418	Circ Circ Unknown	Unknown - Unknown	16110	11001	BONE SPRI	NM	LEA
14	30025450840000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 601H	Oil	Active	180 FNL, 330 FWL , 21S, 33E, 35	9/16/2018	11/9/2018	22111'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	1368' - 1740' 4146' - 5195' 11348' - 22111' Unknown	950 1410 3085	Circ Circ Unknown	11969' - 219	22027	12131	BONE SPRI	NM	LEA
15	30025453250000	EOG RESOURCES INC	SPEEDY 16 STATE COM 201H	Oil	Active	326 FNL, 581 FWL , 22S, 33E, 16	12/10/2018	12/4/2019	14238'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1112' 0' - 4730' 4224' - 14238' 8745'	1270 1495 1810	Circ Circ Unknown	9755' - 14238	14362	9421	BONE SPRI	NM	LEA
16	30025453260000	EOG RESOURCES INC	SPEEDY 16 STATE COM 202H	Oil	Active	326 FNL, 614 FWL , 22S, 33E, 16	12/20/2018	2/7/2020	14286'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1128' 0' - 4734' 3140' - 14286' 8931'	1270 1495 1805	Circ Circ Unknown	9655' - 14303	14364	9405	BONE SPRI	NM	LEA
17	30025453270000	EOG RESOURCES INC	SPEEDY 16 STATE COM 203H	Oil	Active	389 FNL, 1912 FWL , 22S, 33E, 16	12/14/2018	12/8/2019	14274'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1175' 0' - 4738' 3818' - 14274' 8933'	1095 1560 1990	Circ Circ Unknown	9645' - 14260	14350	9424	BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

18	30025453280000	EOG RESOURCES INC	SPEEDY 16 STATE COM 301H	Oil	Active	389 FNL, 1945 FWL , 22S, 33E, 16	12/5/2018	12/7/2019	14640'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1175' 0' - 4757' 4260' - 14640' 9533'	1195 1285 1860	Circ Circ Unknown	10216' - 1462	14796	9965	BONE SPRI	NM	LEA
19	30025453550000	MARATHON OIL PERMIAN LLC	BATTLE 34 SB FEE 015H	Oil	New	482 FNL, 1555 FEL , 21S, 33E, 34	7/26/2019	2/26/2024	15835'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1579' 0' - 5123' 0' - 15835' Unknown	1465 2116 2981	Circ Circ Unknown	Unknown - Unknown	15875		BONE SPRI	NM	LEA
20	30025454480000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 602H	Oil	Active	200 FNL, 990 FWL , 21S, 33E, 35	2/2/2019	3/16/2019	21827'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1718' 4164' - 5233' 11159'-21827' Unknown	920 1615 2925	Circ Circ Unknown	11955' - 2175	21875	11880	BONE SPRI	NM	LEA
21	30025463630000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 551H	Oil	New	200 FNL, 950 FWL , 21S, 33E, 35	10/6/2019	11/1/2019	21441'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1722' 0' - 5242' 1764' - 21441' Unknown	819 1330 2985	Circ Unknown Unknown	Unknown - Unknown	21785	11404	BONE SPRI	NM	LEA
22	30025466440000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 4H	Oil	Active	264 FSL, 1347 FEL , 22S, 33E, 4 SW SE	4/29/2020	7/1/2022	20685'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4917' 0' - 20685' 9189'	855 1548 3102	Circ Circ Circ	10258' - 2061	20700	9581	BONE SPRI	NM	LEA
23	30025466450000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 5H	Oil	Active	264 FSL, 1297 FEL , 22S, 33E, 4 SE SE	6/30/2020	7/1/2022	19782'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4896' 0' - 19782' 9128'	856 1548 2720	Circ Circ Circ	10501' - 1971	19802	9595	BONE SPRI	NM	LEA
24	30025466460000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 6H	Oil	Active	264 FSL, 1247 FEL , 22S, 33E, 4 SE SE	3/7/2020	6/1/2022	20684'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4921' 0' - 20684' 9191'	856 1998 3134	Circ Circ Circ	10262' - 2057	20694	9572	BONE SPRI	NM	LEA
25	30025466470000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 16H	Oil	Active	263 FSL, 1372 FEL , 22S, 33E, 4 SW SE	4/9/2022	2/2/2024	20314'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1366' 0' - 4905' 0' - 20314' 9111'	855 1548 3102	Circ Circ Circ	9936' - 20245	20324	9510	BONE SPRI	NM	LEA
26	30025466480000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 17H	Oil	Active	264 FSL, 1322 FEL , 22S, 33E, 4 SW SE	5/24/2020	6/1/2022	20527'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4838' 0' - 20527' 9075'	855 1548 3102	Circ Circ Circ	10514' - 2045	20539	9654	BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

27	30025466490000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 18H	Oil	Active	264 FSL, 1272 FEL , 22S, 33E, 4 SE SE	5/24/2020	6/20/2022	20432'	16.000 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1365' 0' - 4872' 0' - 20432' 9081'	856 1572 3150	Circ Circ Circ	10195' - 2036	20444	9483	BONE SPRI	NM	LEA
28	30025466950000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 301H	Oil	Active	200 FNL, 910 FWL , 21S, 33E, 35	2/11/2020	1/16/2021	20306'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1706' 0' - 5348' 16244' - 20306' Unknown	820 1330 2935	Circ Circ Circ	10445' - 2020	20203	10115	BONE SPRI	NM	LEA
29	30025466960000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 501H	Oil	Active	200 FNL, 830 FWL , 21S, 33E, 35	3/6/2020	12/1/2020	21142'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1743' 0' - 5324' 0' - 21142' Unknown	820 1330 2885	Circ Circ Circ	Unknown - Unknown	20665	11155	BONE SPRI	NM	LEA
30	30025466970000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 511H	Oil	New	200 FNL, 2504 FWL , 21S, 33E, 35	4/6/2020	12/1/2020	1802'	17.5	Surface-13.3	0' - 1802'	835	Circ	Unknown - Unknown	20840	10484	BONE SPRI	NM	LEA
31	30025466980000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 553H	Oil	Active	200 FNL, 2537 FWL , 21S, 33E, 35	4/10/2020	12/1/2020	21484'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1803' 0' - 5301' 9987' - 21484' Unknown	835 850 2955	Circ Circ Unknown	Unknown - Unknown	21421	11329	BONE SPRI	NM	LEA
32	30025467000000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 509H	Oil	Active	200 FNL, 870 FWL , 21S, 33E, 35	2/19/2020	12/28/2020	20722'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1743' 3805' - 5324' 0' - 20722' 10005'	820 1330 2935	Circ Circ Circ	10859' - 2063	22318	10809	BONE SPRI	NM	LEA
33	30025467020000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 510H	Oil	Active	200 FNL, 1654 FWL , 21S, 33E, 35	2/21/2020	12/29/2020	20737'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-2.875	0' - 1799' 3923' - 5337' 2189' - 20737' 10696'	835 1335 2985	Circ Circ Circ	10988' - 2064	22132	10769	BONE SPRI	NM	LEA
34	30025467030000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 552H	Oil	New	200 FNL, 1687 FWL , 21S, 33E, 35	3/9/2020	12/1/2020	21538'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1800' 0' - 5324' 17230' - 21538' Unknown	835 1335 3050	Circ Circ Unknown	Unknown - Unknown	22131	11397	BONE SPRI	NM	LEA
35	30025467040000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 603H	Oil	New	200 FNL, 1720 FWL , 21S, 33E, 35	3/18/2020	3/28/2020	22225'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1803' 0' - 5343' 17780' - 22225' Unknown	835 1335 3100	Circ Circ Unknown	Unknown - Unknown	22133	12128	BONE SPRI	NM	LEA
36	30025474230000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 604Y	Oil	New	200 FNL, 2608 FWL , 21S, 33E, 35 NW	7/30/2020	8/9/2020	22116'	17.500 12.250 8.500	Surface-13.375 Intermediate- 9.625 Production-5.500 Tubing-Unknown	0' - 1793' 0' - 5275' 17692' - 22116' Unknown	835 790 3085	Circ Circ Unknown	Unknown - Unknown	22081	12120	BONE SPRI	NM	LEA
37	30025488340000	MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 606H	Oil	New	280 FSL, 1576 FEL , 22S, 33E, 8 SW SE	4/20/2023		Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

38	30025490780000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 207H	Oil	Active	370 FSL, 1790 FWL , 22S, 33E, 10 SE SW	11/22/2021	1/1/2023	20540'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4945' 0' - 9031' 8851' - 20540' 8849'	1126 772 722 769	Circ Circ Circ Calc	10048' - 2046	20551	9449	BONE SPRI	NM	LEA
39	30025490790000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 208H	Oil	Active	370 FSL, 1815 FWL , 22S, 33E, 10 SE SW	10/31/2021	1/1/2023	20460'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4915' 0' - 8986' 8772' - 20460' 8771'	1126 852 720 763	Circ Circ Circ Calc	9978' - 20399	20480	9462	BONE SPRI	NM	LEA
40	30025490800000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 209H	Oil	Active	370 FSL, 1840 FWL , 22S, 33E, 10 SE SW	10/31/2021	9/1/2022	20439'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1339' 0' - 4912' 0' - 8972' 8744' - 20439' 8743'	1126 850 717 763	Circ Circ Circ Calc	9947' - 20368	20453	9438	BONE SPRI	NM	LEA
41	30025490810000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 219H	Oil	Active	860 FSL, 1790 FWL , 22S, 33E, 10 SE SW	1/1/2022	5/1/2022	20542'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1435' 0' - 4985' 0' - 9027' 8791' - 20542' 8793'	1114 1197 819 773	Circ Circ Circ Calc	10202' - 2047	20552	9429	BONE SPRI	NM	LEA
42	30025490820000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 220H	Oil	Active	860 FSL, 1815 FWL , 22S, 33E, 10 SE SW	1/11/2022	5/1/2022	20372'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1393' 0' - 4851' 0' - 8883' 8701' - 20372' 8715'	1114 928 806 764	Circ Circ Circ Calc	9874' - 20301	20382	9498	BONE SPRI	NM	LEA
43	30025490830000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 221H	Oil	Active	860 FSL, 1840 FWL , 22S, 33E, 10 SE SW	1/19/2022	5/1/2022	20328'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1386' 0' - 4871' 0' - 8871' 8682' - 20328' 8679'	1225 907 803 763	Circ Circ Circ Calc	9842' - 20257	20338	9528	BONE SPRI	NM	LEA
44	30025492710000	MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 510H	Oil	New	280 FSL, 1642 FEL , 22S, 33E, 8 SW SE			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			BONE SPRI	NM	LEA
45	30025495570000	MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 512H	Oil	New	280 FSL, 1609 FEL , 22S, 33E, 8 SW SE			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			BONE SPRI	NM	LEA
46	30025495610000	MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 556H	Oil	New	280 FSL, 1675 FEL , 22S, 33E, 8 SW SE			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			BONE SPRI	NM	LEA
47	30025496100000	MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 564H	Oil	New	280 FSL, 1543 FEL , 22S, 33E, 8 SW SE			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			BONE SPRI	NM	LEA
48	30025499060000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 422H	Oil	Active	1986 FSL, 1238 FEL , 22S, 33E, 10 NE SE	7/11/2022	4/26/2023	22065'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1717' 0' - 4940' 0' - 9992' 9803' - 22065' 9803'	643 852 988 765	Circ Circ Circ Calc	11572' - 2196	22041	10984	BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

49	30025499070000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 423H	Oil	Active	1986 FSL, 1213 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21742'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1706' 0' - 5000' 0' - 9900' 9694' - 21742' 9743'	643 852 984 749	Circ Circ Circ Calc	11271' - 2167	21757	10764	BONE SPRI	NM	LEA
50	30025499080000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 424H	Oil	Active	1986 FSL, 1188 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21994'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1727' 0' - 4984' 0' - 9936' 9561' - 21994' 9680'	634 852 980 768	Circ Circ Circ Calc	11537' - 2192	22008	11015	BONE SPRI	NM	LEA
51	30025333410000	MARBOB ENERGY CORP	CHEAPER THAN KIDS FEDERAL 001			*SAME WELL AS REF #52*														
52	30025333410001	CHEVRON U S A INC	BARGAIN BQA FEDERAL 001H	Oil	PA	1980 FSL, 1980 FEL, 22S, 33E, 22 NW SE	5/27/1996	5/30/1996	4906'	13.375 8.625	Surface- 13.375 Production - 8.625 Tubing - 2.875	0' - 624' 0' - 4906' 9020'	700 1850	Circ Circ	9949' - 14940	15010	9517	BONE SPRI	NM	LEA
53	30025244380000	RAYBAW OPERATING LLC	PEARSON SWD #001	SWD	Active	1980 FNL, 660 FEL, 21S, 33E, 33	5/30/1973	12/23/1973	14820'	17.500 12.250 8.500 6.500	Surface- 13.375 Intermediat e- 9.625 Production- 7.625 Liner- 5.500	0' - 330' 0' - 5035' 0' - 11098' 0' - 14820'	300 2150 575 800	Unknown	5790' - 6635'	14983	14983	CHERRY CA	NM	LEA
54	30025271530000	RAYBAW OPERATING LLC	GETTY `15` FEDERAL 001			*SAME WELL AS REF #1*														
55	30025280960000	RAYBAW OPERATING LLC	FEDERAL`15`COM `B` 1	Gas	Active	660 FNL, 1980 FWL, 22S, 33E, 15	12/17/1982	12/30/1982	11500'	13.375 9.625 7.000	Surface- 13.375 Intermediat e- 9.625 Production- 7.000 Tubing- 2.375	0' - 1100' 0' - 5460' 0' - 11500' 14194'	1075 4000 1860	Unknown	14344' - 1459	15092	15092	MORROW	NM	LEA
56	30025330610000	MATADOR PRODUCTION CO	ABE UNIT 1	Oil	Active	760 FSL, 1980 FEL, 21S, 33E, 28	8/25/1995	11/30/1995	15098'	13.375 9.625 7.000 4.500	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1650' 0' - 5219' 0' - 12221' 0' - 15098' 14121'	1800 2300 1110 275	Unknown	14163' - 1417	15100	15100	ATOKA MO	NM	LEA
57	30025420620000	COG OPERATING LLC	PYGMY 27 STATE 2H	Oil	Active	190 FNL, 1980 FWL, 21S, 33E, 27	3/17/2015	5/26/2015	14830'	17.500 12.250 8.750	Surface- 13.375 Intermediat e- 9.625 Production- 5.500 Tubing- 2.875	0' - 1848' 0' - 5626' 0' - 14830' 9651'	1175 3661 2230	Circ Circ	10437' - 1447	14835	10259	BONE SPRI	NM	LEA
58	30025429040000	COG OPERATING LLC	WARBLER STATE COM 002Y	Oil	Active	195 FNL, 2010 FWL, 21S, 33E, 28 NE NW	11/29/2015	4/29/2016	15315'	20.000 14.750 10.625 7.785	Surface- 16.000 Intermediat e 1- 11.750 Intermediat e 2- 8.625 Production- 5.500 Tubing- 2.875	0' - 1748' 0' - 3510' 3186' - 5330' 0' - 15315' 10337'	1350 1575 2035 2150	Unknown	11082' - 1522	15362	10963	BONE SPRI	NM	LEA

DLKCLCG Halfmile AOR Csg Info Tab

59	30025441440000	DKL Field Services, LLC	DOODLE BUG SWD STATE 001	SWD	Active	1498 FNL, 2390 FEL, 22S, 33E, 16	2/26/2020	10/30/2020	16687'	26.000 17.500 12.250 8.750	Surface-20.000 Intermediate 1- 13.375 Intermediate 2- 9.625 Production-7.625	0' - 1129' 0' - 5058' 0' - 12055' 0' - 16687'	2145 4060 2275 410	Circ Circ Circ Circ	Unknown	17200	17200	DEVONIAN	NM	LEA
60	30025453560000	MARATHON OIL PERMIAN LLC	BATTLE 34 AV FEE 017H	Oil	New	479 FNL, 1495 FEL, 21S, 33E, 34	6/25/2019		14493'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500	0' - 1603' 500' - 5110' 0' - 14493'	1630 2115 2670	Circ Oth	Unknown	14502	9618	BONE SPRI	NM	LEA
61	30025457920000	MARATHON OIL PERMIAN LLC	BATTLE 34 AV FEE 025H	Oil	New	480 FNL, 1525 FEL, 21S, 33E, 34	7/12/2019		14394'	17.500 12.250 8.750	Surface-13.375 Intermediate- 9.625 Production-5.500	0' - 1604' 0' - 5127' 0' - 14394'	1630 1860 2685	Circ Circ	Unknown	14409	9626	BONE SPRI	NM	LEA

PA Well Info Tab

Ref.	API	Current Operator	Lease Name and Well Number	Well Type	Status	Surface Location	Final Drill Date	Comp Date	Abnd Date	Total Depth (MD)	TVD (TVDSS)	Csg Depth	Csg Size	Form at TD Name	State	County
1	30025255850000	TEXAS PACIFIC OIL CO	REED FEDERAL 1	OIL	DRY & ABANDONED	2310 FSL, 800 FWL, 22S, 33E, 4		1977-09-07	1977-09-07	5100		4926	5 1/2 IN	DELAWARE	NM	LEA
2	30025280970000	YATES PETROLEUM CORP	PRONGHORN `AC2` FEDERAL 1	OIL	D&A-G	1980 FSL, 660 FWL, 22S, 33E, 29 NW SW	1985-12-20	1985-12-22	1985-12-22	5700		40	20 IN	DELAWARE	NM	LEA
3	30025316530000	ADVANCE ENERGY PARTNERS HAT MESA LLC	DAGGER LAKE STATE 001	OIL	PA-OIL	330 FSL, 1980 FEL, 22S, 33E, 5 SW SE	1992-08-26	1992-10-06	11/20/2020	8810		622	13 3/8 IN	BONE SPRING	NM	LEA
4	30025318850000	MERIDIAN OIL INC	DAGGER LAKE `8` FEDERAL 1	OIL	DRY & ABANDONED	660 FNL, 1980 FWL, 22S, 33E, 8 NE NW	1993-02-06	1993-02-06		5150		633	8 5/8 IN	DELAWARE	NM	LEA
5	30025328300000	MERIDIAN OIL INC	DAGGER LAKE `8` FEDERAL 2	OIL	DRY & ABANDONED	330 FNL, 2310 FEL, 22S, 33E, 8		1995-01-27	1995-01-27	5150		622	8 5/8 IN	DELAWARE	NM	LEA
6	30025330110000	OXY USA INC	RED TANK `30` STATE 001	OIL	ABD-OW	990 FSL, 330 FWL, 22S, 33E, 30 SW SW	1995-08-04	1995-08-12	2019-11-04	9020		807	13 3/8 IN	BONE SPRING	NM	LEA
7	30025330820000	OXY USA INC	RED TANK `31` STATE 1	OIL	ABD-OW	330 FNL, 330 FWL, 22S, 33E, 31	1995-10-07	1995-10-22	2017-03-21	9010		816	10 3/4 IN	BONE SPRING	NM	LEA
8	30025333410000	CHEVRON U S A INC	BARGAIN BQA FEDERAL #001H	OIL	DRY & ABANDONED	1980 FSL, 1980 FEL, 22S, 33E, 22 NW SE	1996-05-27	1996-05-30	2022-06-27	15010	9517	4906	8 5/8 IN	BONE SPRING	NM	LEA
9	30025334310000	OXY USA INC	RED TANK 31 STATE 002	OIL	ABD-OW	1650 FNL, 330 FWL, 22S, 33E, 31 SW NW	2000-04-21	2000-05-12	2022-07-06	9050		822	10 3/4 IN	BONE SPRING	NM	LEA
10	30025334350000	YATES PETROLEUM CORP	CHERWIN `AIW` FEDERAL 1	OIL	DRY & ABANDONED	2310 FNL, 2310 FEL, 22S, 33E, 12	1996-06-05	1996-06-06	1996-06-06	9160		1666	11 3/4 IN	DELAWARE	NM	LEA
11	30025335800000	OXY USA INC	RED TANK 31 STATE 004	OIL	ABD-OW	330 FSL, 330 FWL, 22S, 33E, 31	1996-10-15	1996-10-27	2022-07-06	9100		820	10 3/4 IN	BONE SPRING	NM	LEA
12	30025341750000	POGO PRODUCING CO	FLINT `6` STATE 1	OIL	DRY & ABANDONED	2310 FNL, 660 FWL, 22S, 33E, 6 SW NW		1997-11-26	1997-11-26	5100		658	8 5/8 IN	DELAWARE	NM	LEA
13	30025380130000	CHESAPEAKE OPERATING INC	LIVESTOCK FEDERAL 3-9	OIL	DRY & ABANDONED	1980 FNL, 1980 FWL, 22S, 33E, 9 C SE NW	2006-10-22	2006-11-16	2009-08-05	5250		5250	5 1/2 IN	DELAWARE	NM	LEA
14	30025466990000	ADVANCE ENERGY PARTNERS HAT MESA LLC	MERCHANT STATE UNIT 604H	OIL	DRY & ABANDONED	200 FNL, 2570 FWL, 21S, 33E, 35	2020-07-16	2020-07-18		5275		5275	9 5/8 IN	DELAWARE	NM	LEA
15	30025513390000	OXY USA INC	AVOGATO 30-31 STATE COM 001Y	OIL	DRY & ABANDONED	240 FNL, 2230 FWL, 22S, 33E, 30	2024-01-19	2024-01-29		3542	3542	1048	10 3/4 IN	BONE SPRING	NM	LEA

Reference 1

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: NM-26392

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Texas Pacific Oil Company, Inc.

8. FARM OR LEASE NAME: Reed Federal

3. ADDRESS OF OPERATOR: P. O. Box 4067, Midland, Texas 79701

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: Unit L, 2310' FSL and 800' FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 4 - 22S - 33E

RECEIVED
SEP 14 1977
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3664' GR

12. COUNTY OR PARISH: Lea

13. STATE: New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

9-3-77	Set CIBP at 3700'. GIH with tubing pumper 75 sx. cement. Circ. hole w/mud.
9-4-77	Ran free point cut casing at 3020'. POH w/96 jts.
9-7-77 thru 9-9-77	Installed BOP. Ran tubing to 3054', pumped 100 sx. Class "H" cement w/2% CaCl. WOC. Tagged plug at 2940'. Pulled tubing to 1395' & pumped 150 sx. cement. Tagged plug at 1013'. POH w/tubing, removed BOP. Cut off 8 5/8" bradenhead - spotted 10 sx. cement plug. Installed dry hole marker.
9-10-77	Cut off anchors & cleaned up location.

18. I hereby certify that the foregoing is true and correct

SIGNED W. J. McClintock TITLE District Operations Supt. DATE 9-12-77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
APR 26 1978
A. A. L 113
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Reference 2

REISSUES SEC 29 TWP 22S RGE 33E
PI# 30-T-0014 06/05/89 30-025-28097-0000 PAGE 2

YATES PET WS WS
1 PRONGHORN "ACZ" FEDERAL

DRILLING PROGRESS DETAILS

YATES PET
105 S 4TH
ARTESIA, NM 88210
505-748-1471
ABANDON LOCATION ISSUED 04/23/84
FORMERLY ABAN LOC UNDER API 30-025-28097
AS THE #3
09/10 LOC/1985/
12/05 40 TD, WORT
12/17 DRLG 4493
12/17 SPUD 12/11/85 W/RT
12/19 DRLG 4913
12/23 5700 TD, MORT
01/09 5700 TD, HOLDING FOR DATA
TD REACHED 12/20/85 RIG REL 12/22/85
01/16 5700 TD
COMP 12/22/85, D&A
NO CORES, ONE DST RPTD
11/05 REISSUED TO ADD LOG TOPS, LOGS RUN
REPLACEMENT FOR CT ISSUED 1/20/86
06/01 REISSUED TO ADD DST
REPLACEMENT FOR CT ISSUED 11/10/86

WELL NAME Dagger Lake State #1

LOCATION UL. O, 330 FSL, 1980 FEL, Sec. 5. T-22S, R-33E, LEA, County, N.M.

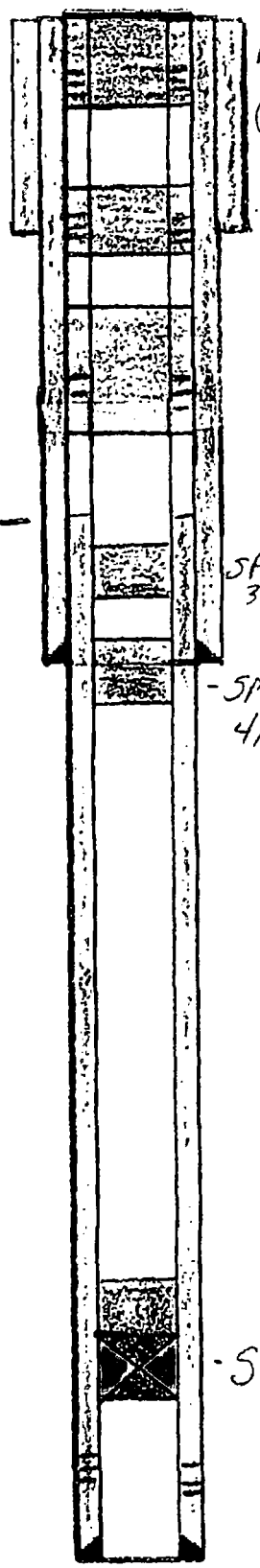
GL _____ KB _____

API # 30 - 025 - 31653

BRIGADE

CASING PROGRAM

13 3/8" - 48#	622'
8 5/8" - 32#	4,486'
5 1/2" - 17#	8,810'



Perf @ 60' sqz 40sx cmt to 60' - 0 surface (verify)

Perf @ 672. sqz 45sx cmt from 672 - 522' TOC.

Perf @ 1,315' - sqz 80sx cmt from 1,315 - 1,020' - Tag

T.O.C @ 2580' CBL

spot 25 sx cmt @ 3,575' - 3,425' - Tag

- spot 25 sx cmt @ 4,536' - 4,376' - Tag

TOPS

Perfs @ 4,951' - 4,953'
4,962' - 4,985'

- Set CIBP @ 4,900' - spot 25 sx cmt @ 4,900' - 4,750'

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM-70343

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Dagger Lake "8" Fed. #1

2. Name of Operator: Meridian Oil Inc.

9. API Well No.: 30-025-31885

3. Address and Telephone No.: P.O. Box 51810, Midland, TX 79710-1810 915-688-6800

10. Field and Pool, or Exploratory Area: Dagger Lake Delaware

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
C, 660' FNL & 1980' FWL
Sec. 8, T22S, R33E

11. County or Parish, State: Lea

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

2-6-93 - Set first plug, btm @4911', 58 sxs class "C" w/2% CaCl.
woc 4.25 hrs.
tag plug top @4736'
set second plug from 1160'-1060', 42 sxs class "C" w/2% CaCl.
pump 3rd plug from 682'-500' w/42 sxs class "C" w/2% CaCl.
WOC 4 hrs.
tag top of 3rd plug @584'
pump surf. plug @60' w/17' sxs. class "C"

14. I hereby certify that the foregoing is true and correct
Signed _____ Title Production Assistant Date 2-17-93

(This space for Federal or State office use)
Approved by Orig. Signed by Adam Salameh Title PETROLEUM ENGINEER Date 3/1/93
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM 70343
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: DAGGER LAKE '8' NO. 2 FEDERAL
9. API Well No.: 30-025-32839
10. Field and Pool, or exploratory Area: DAGGER LAKE DELAWARE
11. County or Parish, State: LEA NM

1. Type of Well: [ ] Oil Well [ ] Gas Well [X] Other
2. Name of Operator: MERIDIAN OIL INC.
3. Address and Telephone No.: P.O. Box 51810, Midland, TX 79710-1810 915-688-6943
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): C, ~~660'~~ FNL & ~~1980'~~ FWL 330/N & 230/E
SEC. 8, T22S, R33E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other SET CSG/P&A WELL	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1/17/95: SPUD. DRLD A 12 1/4" HOLE TO 622'. RAN 8 5/8" 28# CSG AND SET @ 622'. CMTED W/375 SXS 'C' + 2% CACL2 + .25 PPS CELLOFLAKE. CIRC TO SURF. WOC 14.75 HRS.

1/27/95: WELL WAS DRY HOLE. RECEIVED APPROVAL TO P & A. SET CMT PLUG (50 SXS) @ 4969'. SET 2ND CMT PLUG (50 SXS) @ 3580'. SET CMT PLUG (35 SXS) @ 661'. TAG PLUG @ 510'. SET CMT PLUG (16 SXS) @ 63'.

MERIDIAN OIL INC.
PLEASE SUBMIT A SUNDRY NOTICE TO THIS OFFICE FOR BLM APPROVAL OF THE P & A OF THE ABOVE WELL AND STATE WHO ISSUED THE P & A APPROVAL.
THANKS
Adam Salamah, P.E.
3-17-95

ACCEPTED FOR RECORD
MAR 17 1995

14. I hereby certify that the foregoing is true and correct
Signed _____ Title REGULATORY ASSISTANT Date 2/13/95

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

* See Instruction on Reverse Side

Reference 6

OXY USA Inc. - Proposed
Red Tank 30 State #1
API No. 30-025-33011

265sx @ 857'-Surface

17-1/2" hole @ 807'
13-3/8" csg @ 807'
w/ 900sx-TOC-Surf-Circ

Perf @ 857'

25sx @ 2780-2680'

Perf @ 2780'

11" hole @ 4710'
8-5/8" csg @ 4710'
w/ 1600sx-TOC-Surf-Circ

25sx @ 4760-4600' WOC-Tag

CIBP @ 6226' w/ 25sx to 6076'

Perfs @ 6276-6284'

Perfs @ 6775-6785'

Perfs @ 7036-7052'

7-7/8" hole @ 9020'
5-1/2" csg @ 9020'
w/ 1030sx-TOC-3580'-TS
DVT @ 6500'

Perfs @ 8073-8087'

Perfs @ 8537-8567'

CIBP @ 8825'

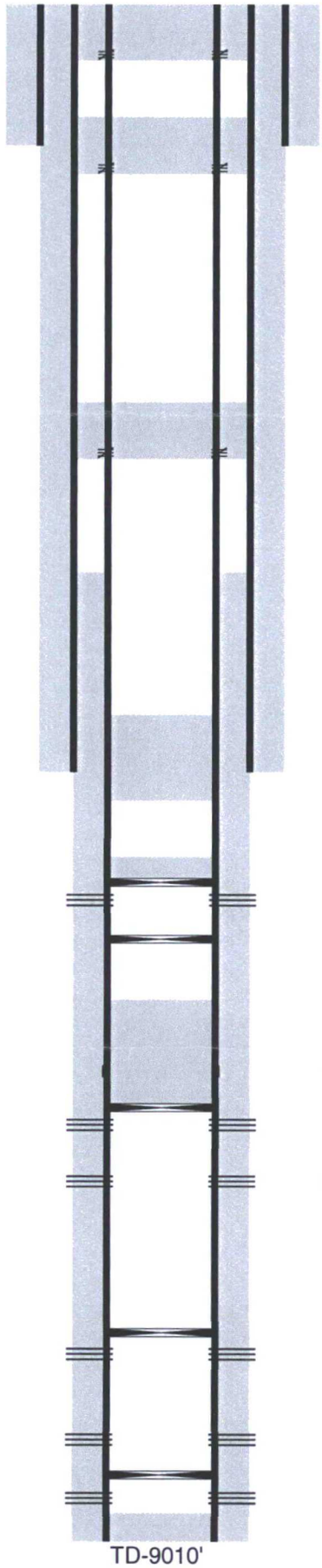
Perfs @ 8850-8892'

PB-8976'

TD-9020'

Reference 7

OXY USA Inc. - Proposed
Red Tank 31 State #1
API No. 30-025-33082



60sx @ 250'-Surface

Perf @ 250'

14-3/4" hole @ 816'
10-3/4" csg @ 816'
w/ 700sx-TOC-Surf-Circ

30sx @ 866-766' WOC-Tag

Perf @ 866'

30sx @ 2785-2685' WOC-Tag

Perf @ 2785'

25sx @ 4790-4600' WOC-Tag

9-7/8" hole @ 4740'
7-5/8" csg @ 4740'
w/ 970sx-TOC-Surf-Circ

CIBP @ 5360' w/ 25sx

Perfs @ 5410-5460'

CIBP @ 5610' w/ 10' cmt to 5600'

45sx @ 6738-6080' Tagged

Sqz csg lk @ 6294-6326' w/ 100sx cmt

CIBP @ 6738'

Perfs @ 6788-6796'

Perfs @ 7046-7056'

6-3/4" hole @ 9010'
4-1/2" csg @ 9010'
DVT @ 6360'
w/ 780sx-TOC-3590'-CBL

2005-CIBP @ 8000'

Perfs @ 8081-8095'

Perfs @ 8614-8634'

1998-CIBP @ 8830'

Perfs @ 8870-8914'

PB-8972'

TD-9010'

Reference 8

Well: **Bargain BQA Federal #1H**

Field: Dagger Lake (E40)
Reservoir: Bone Spring

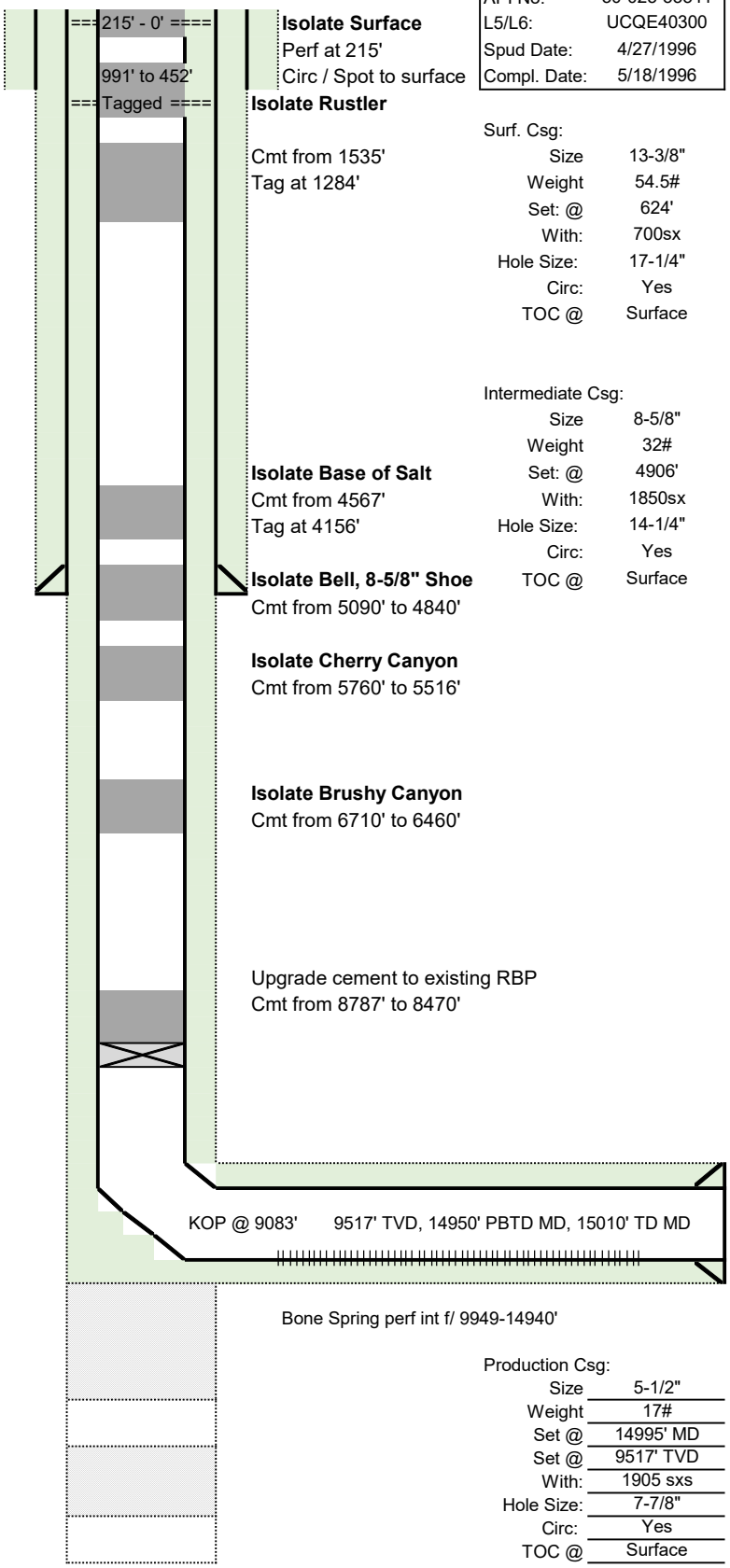
Location	
1330'-FSL & 1330'-FWL	
32.3754463 Lat, -103.5581665	
Section:	22
Township:	22S
Range:	33E
County:	Lea, NM

Elevations	
GL:	3556'
DF:	
KB:	3583'

H2S Concentration >100 PPM?
YES

FORMATION TOPS	
Rustler	991'
BOS	4567'
Bell Canyon	5090'
Cherry Canyon	5766'
Brushy Canyon	6710'
Bone Spring	8628'

Actual
Wellbore Diagram



Isolate Surface
Perf at 215'
Circ / Spot to surface

Isolate Rustler
Cmt from 1535'
Tag at 1284'

Isolate Base of Salt
Cmt from 4567'
Tag at 4156'

Isolate Bell, 8-5/8" Shoe
Cmt from 5090' to 4840'

Isolate Cherry Canyon
Cmt from 5760' to 5516'

Isolate Brushy Canyon
Cmt from 6710' to 6460'

Upgrade cement to existing RBP
Cmt from 8787' to 8470'

5-1/2" RBP set @ 8814'

TOC @ 9083'
Set 340sx cmt plug f/ 9503-8750' (tag)

TOC @ 9624'
Set 200sx cmt pluf f/ 10075-9624' (tag)

PBTD: 9083'
TD: 10500'

Bone Spring perf int f/ 9949-14940'

Well ID Info	
Refno:	Bl4113
API No:	30-025-33341
L5/L6:	UCQE40300
Spud Date:	4/27/1996
Compl. Date:	5/18/1996

Surf. Csg:

Size	13-3/8"
Weight	54.5#
Set: @	624'
With:	700sx
Hole Size:	17-1/4"
Circ:	Yes
TOC @	Surface

Intermediate Csg:

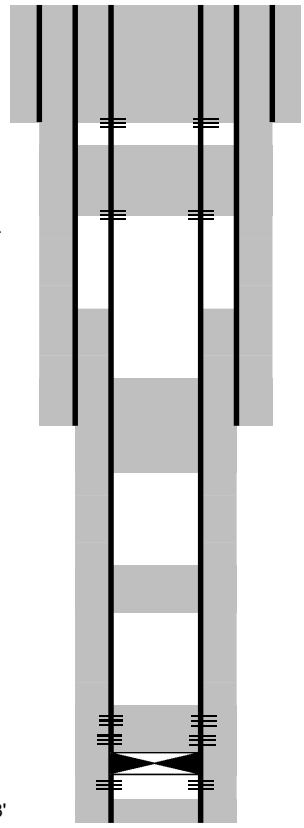
Size	8-5/8"
Weight	32#
Set: @	4906'
With:	1850sx
Hole Size:	14-1/4"
Circ:	Yes
TOC @	Surface

Production Csg:

Size	5-1/2"
Weight	17#
Set @	14995' MD
Set @	9517' TVD
With:	1905 sxs
Hole Size:	7-7/8"
Circ:	Yes
TOC @	Surface

Reference 9

OXY USA Inc. - Plugged
Red Tank 31 State #002
API No. 30-025-33431



Spud 04/06/2000

Perf'd @ 872'. Squeezed 230sx Cl C Cmt. Verified Cmt to Surf.

14-3/8" hole @ 822'
10-3/4" @ 822'
w/ 770 sx-TOC-Surf-Circ.

Perf'd @ 1500'. Squeezed 50sx Cl C Cmt. Tagged TOC @ 1052'.

9-7/8" hole @ 4730'
7-5-8" csg @ 4730'
w/ 1750 sx-TOC-Surf-Circ.

EOT @ 5003'. Pumped 35sx Cl C Cmt. Tagged TOC @ 4414'.

6-3/4" hole @ 9050'
4-1/2" csg @ 9050'
w/ 1050sx - TOC @ ~3181'
DV Tool @ 6032'

EOT @ 6082'. Pumped 25sx Cl C Cmt. Tagged TOC @ 5772'.

Perfs 8550'-8702'

Tagged Exisitng CIBP @ 8732'. Pumped 35sx Cl C cmt.
WOC Tagged TOC @ 8210'.

CIBP @ 8870'
Perfs 8914' - 8932'

PBTD - 9003'

TD - 9050' TVD

Reference 10

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
YATES PETROLEUM CORPORATION (505) 748-1471

3. Address and Telephone No.
105 South 4th St., Artesia, NM 88210

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2310' FNL & 2310' FEL of Section 12-T22S-R33E (Unit G, SWNE)

5. Lease Designation and Serial No.
NM-65655

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Cherwin AIW Federal #1

9. API Well No.
30-025-33435

10. Field and Pool, or Exploratory Area
Wildcat Delaware

11. County or Parish, State
Lea Co., NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 9160'. Reached TD at 12:00 AM 6-5-96. Tim Bussell, Drilling Foreman for Yates Petroleum received verbal permission from Vince w/BLM-Hobbs to plug and abandon well as follows:

Plug #1: Plug set at 9134' - 125 sacks Class "H" Neat cement

Plug #2: Plug set at 5267' - 75 sacks "C" Neat cement

Plug #3: Plug set from 1722-1622' - 50 sacks "C" cement

Plug #4: Surface - 10 sacks "C" Neat cement

Cut off wellhead. Installed regulation abandonment marker. Released rig at 2:15 PM 6-6-96. PLUGGED AND ABANDONED - FINAL REPORT. Plugging completed 6-6-96.

14. I hereby certify that the foregoing is true and correct

Signed Rusty Klein Title Operations Technician Date June 7, 1996

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 7/3/96

Conditions of approval, if any:

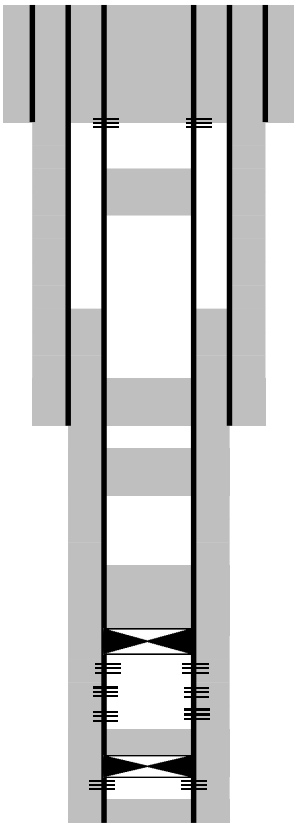
Approved as to plugging of the well bore
Liability under bond is retained until
surface restoration is completed.

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

Reference 11

OXY USA Inc. - Plugged
Red Tank 31 State #004
API No. 30-025-33580



Spud 09/30/1996

14-3/8" hole @ 820'
10-3/4" @ 820'
w/ 780 sx-TOC-Surf-Circ.

Perf'd @ 890' Sqzd 200sx Cl C Cmt to surface. Verified.

EOT @ 1900'. Pumped 25sx Cl C Cmt.

9-7/8" hole @ 4770'
7-5-8" csg @ 4770'
w/ 1150 sx-TOC-Surf-Circ.

EOT @ 5050'. Pumped 40sx Cl C Cmt. Tagged TOC @ 4461'.

EOT @ 6338'. Pumped 50sx Cl C Cmt. Tagged TOC @ 5663'.

6-3/4" hole @ 9100'
4-1/2" csg @ 9100'
w/ 775sx - TOC @ ~3500'
DV Tool @ 6288'

Set CIBP @ 7770'. Pumped 25sx Cl H. Tagged TOC @ 7712'.
Added 25sx Cl C. Tagged TOC @ 7397'.

Perfs 7820' - 7850'
Perfs 8343'-8566'

Pumped 25sx Cl C on existing CIBP. Tagged TOC @ 8507'.

CIBP @ 8900'
Perfs 8942' - 8988'

PBTD - 9052'

TD - 9100' TVD

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

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

OIL CONSERVATION DIVISION

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

WELL API NO.
30-025-34175

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Flint "6" State

1. Type of Well:
OIL WELL [ ] GAS WELL [ ] OTHER

2. Name of Operator
Pogo Producing Company

8. Well No.
1

3. Address of Operator
P. O. Box 10340, Midland, TX 79702-7340

9. Pool name or Wildcat
East Bilbrey Delaware

4. Well Location
Unit Letter E : 2310 Feet From The North Line and 660 Feet From The West Line

Section 6 Township 22S Range 33E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3640' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [X]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: [ ]		OTHER: [ ]	

12. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

Spud & Set Surface Csg - MIRU Auger Air. Spud @ 1000 hrs CST 10/31/97. Drilled 10-3/4" hole to 15'. MIRU Lakota #7 @ 1430 hrs CST 11/17/97. Drilled 14-3/4" hole to 658'. TD reached 0245 hrs CST 11/18/97. Ran 16 jts 8-5/8" 24# J-55 ST&C csg. TPGS @ 658'. IFV @ 614'. Howco cmt'd csg w/ 290 sxs Halliburton Lite @ 12.8 ppg followed by 200 sxs Cl "C" + 2% $CaCl_2$ @ 14.8 ppg. Plug down @ 0800 hrs CST 11/18/97. Recovered 160 sxs excess cmt. WOC 13 hrs. Cmt has a compressive strength over 500 psi after 8 hrs. Make cut-off. Weld on wellhead & test to 500 psi. NU BOP's & test to 1500 psi.

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

SIGNATURE Barrett L. Smith TITLE Senior Operations Engineer DATE 2/3/98

TYPE OR PRINT NAME Barrett L. Smith (915)685-8100 TELEPHONE NO.

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR TITLE DATE FEB 9 1998

CONDITIONS OF APPROVAL, IF ANY:

Reference 13

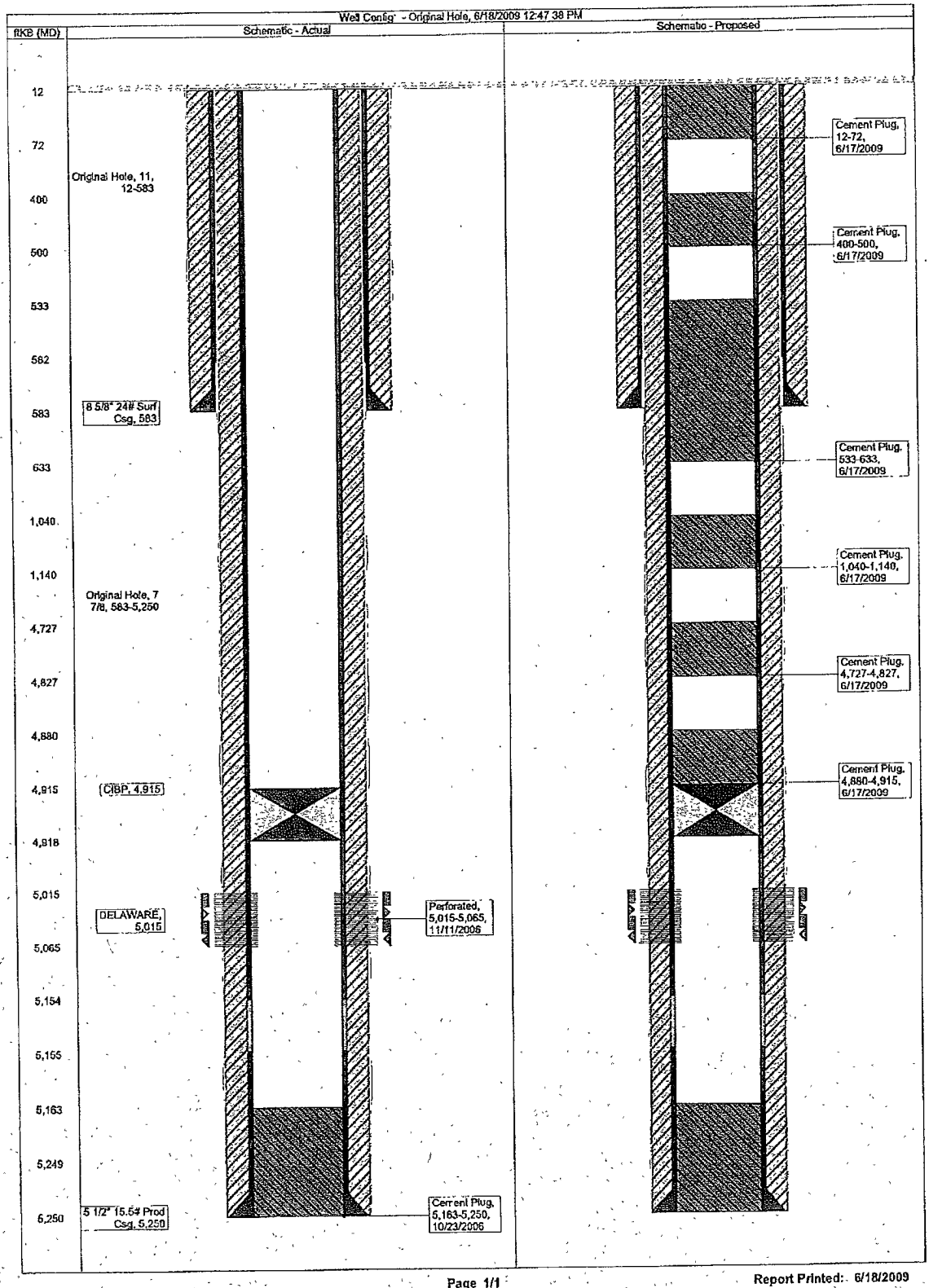
Workover Proposal

Chesapeake Energy

LIVESTOCK FEDERAL 3-9

Field: Delaware Basin North Project - Sapphire Prospect
County: LEA
State: NEW MEXICO
Location: SEC 9, 22S-33E, 1980 FNL & 1980 FWL
Elevation: GL 3,617.00 KB 3,629.00
KB Height: 12.00

Spud Date: 10/15/2006
Initial Compl. Date:
API #: 3002538013
CHK Property #: 610903
1st Prod Date:
PBTD: Original Hole - 4915.0
TD: 5,250.0



TOS

BOS

Page 1/1

Report Printed: 6/18/2009

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

30

Reference 14

HOBBS OCD
JUL 09 2020
RECEIVED

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-46699

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Merchant State Unit

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number
604H

2. Name of Operator
Advance Energy Partners Hat Mesa

9. OGRID Number
372417

3. Address of Operator
11490 Westheimer Rd, Houston, TX 77077

10. Pool name or Wildcat

4. Well Location
Unit Letter C 200 feet from the N line and 2570 feet from the E line
Section 35 Township 21S Range 33E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
0

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	Y	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	X
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			

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

Move in, Set Packer@ 2800'. Dump 25 sacks or 100' cement on top. Pull up to 1000' establish circulation & pump cement to surface. If unable to circulate to surface will set a 25 sack plug across perfs come up to 200' set cement plug to surface. Cut surf and Inter casing 3' below ground level weld on plate . All work done in 9 5/8" casing.

See Attached Conditions of Approval

Spud Date: 7/8/20

Rig Release Date:

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

SIGNATURE: Debbie Moughon TITLE: Eng. Tech DATE: 7/8/2020

PRINT NAME: Debbie Moughon E-mail address: dmoughon@advanceenergypartners.com PHONE 832-671-9665

For State Use Only

APPROVED BY: Kerry Fortner TITLE C C A DATE 7-9-20

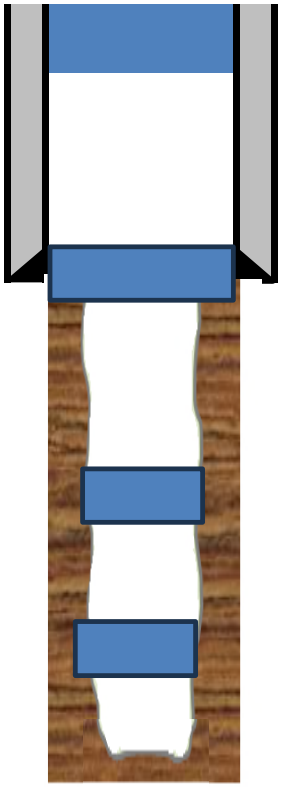
Conditions of Approval (if any):

Reference 15

API#:	30-025-51339
Lease Name:	AVOGATO 30-31 STATE COM
Well No:	001Y
County:	Lea
Location:	Sec 30 Township 22-S Range 33-E
Section Lines:	50' FNL 960' FWL of
RKB Elevation:	32.5
DF Elevation:	3727.6
Ground Elevation:	3,695
Date Drilled:	Jun-23

Current Wellbore

Spot 225 sx cmt
500'-surf



Top of Rustler-981'

Spot 75 sx cmt
1031'-931'

Surface Casing

10 3/4	"	45.5#	J-55	BTC	@	1048.5
14.75 (@139-1059)'	"	Hole		TOC	@	0
				cmt'd	w/	1,075 sks

Open Hole (9.875) (ft)

From:	1059
To:	3542

Spot 45 sx cmt 1716'-1616'
Top of Salado-1666'

Spot 45 sx cmt 3203'-3103'
Top of Castile-3153'

TD @ 3,542 MD
TD @ 3,542 TVD

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

SELF-AFFIRMED STATEMENT OF VICTOR TORREALBA

1. My name is Victor Torrealba, and I am employed by Chevron U.S.A. Inc. ("Chevron") as project engineer.

2. I have not previously testified before the New Mexico Oil Conservation Division as an expert in surface facilities engineering and production engineering; therefore, I have attached my curriculum vitae as **Chevron Exhibit B-1**. I believe my credentials qualify me to testify as an expert in surface facilities engineering and production engineering in this matter.

3. In summary, I have broad exposure to surface and subsurface aspects of gas re-injection processes through various roles at Chevron spanning Research and Development, Asset Development and Operations. Prior to joining Chevron, I was a post-doctoral fellow in Petroleum Engineering. I hold BSc (Honors), M.Sc. and Ph.D. in Petroleum and Natural Gas Engineering from The Pennsylvania State University.

4. **Chevron Exhibit A** is a copy of the application that was filed in this case. I am familiar with the application filed by Chevron and the Division guidance regarding closed loop gas capture injection ("CLGC") projects, such as this one.

5. Chevron requests approval for this project to avoid the shut-in of producing wells and reduce flaring (and associated emissions) during temporary natural gas transmission system

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

capacity reductions, such as mechanical or electrical compression outages, plant shutdowns, or other issues that temporarily prevent the delivery of natural gas into a pipeline.

6. In this case, Chevron seeks an order approving a 4,800-acre, more or less, CLGC Pilot Project comprising portions of eight sections within Township 21 South and Township 22 South, Range 33 East, NMPM, Lea County, New Mexico (the "Project Area"), as follows:

Township 21 South, Range 33 East

Section 33:	All

Township 22 South, Range 33 East

Section 3:	All
Section 4:	All
Section 9:	All
Section 10:	All
Section 15:	All
Section 16:	E/2
Section 22:	All

7. The proposed project area is part of a larger area referred to as the Dagger Lake Area. A regional locator map and project map identifying the general location of Chevron's proposed Dagger Lake CLGC Project are included in **Chevron Exhibit A** at PDF pages 17-18.

8. Chevron requests initial project authorization of two years. Chevron also requests the ability to administratively extend the project without the need for hearing.

9. Within the proposed project area, Chevron seeks authority to utilize the following producing wells to occasionally inject produced gas into the Avalon and Second Bone Spring intervals within the Bone Spring formation, as identified on the project summary map, included at page 18 of **Chevron Exhibit A**:

a. The **DL 4 33 Loch Ness Federal Com #4H** (API No. 30-025-46644) with a surface hole location 264 feet FSL and 1,347 feet FEL (Unit O) in Section 4,

Township 22 South, Range 33 East, and a bottom hole location 24 feet FNL and 2,302 feet FEL (Unit B) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

b. The **DL 4 33 Loch Ness Federal Com #5H** (API No. 30-025-46645) with a surface hole location 264 feet FSL and 1,297 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 1,170 feet FNL and 1,437 feet FEL (Unit B) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

c. The **DL 4 33 Loch Ness Federal Com #6H** (API No. 30-025-46646) with a surface hole location 264 feet FSL and 1,247 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 27 feet FNL and 543 feet FEL (Unit A) in Section 33, Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;

d. The **DL 9 16 Loch Ness Federal Com #16H** (API No. 30-025-46647) with a surface hole location 264 feet FSL and 1,372 feet FEL (Unit O) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 25 feet FSL and 2,310 feet FEL (Unit O) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

e. The **DL 9 16 Loch Ness Federal Com #17H** (API No. 30-025-46648) with a surface hole location 264 feet FSL and 1,322 feet FEL (Unit O) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 431 feet FSL and 1,415 feet FEL (Unit O) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

f. The **DL 9 16 Loch Ness Federal Com #18H** (API No. 30-025-46649) with a surface hole location 264 feet FSL and 1,272 feet FEL (Unit P) in Section 4, Township 22 South, Range 33 East, and a bottom hole location 214 feet FSL and 532 feet FEL (Unit P) in Section 16, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

g. The **DL 10 3 Kraken Fed Com #207H** (API No. 30-025-49078) with a surface hole location 370 feet FSL and 1,790 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 68 feet FNL and 341 feet FWL (Unit D) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

h. The **DL 10 3 Kraken Fed Com #208H** (API No. 30-025-49079) with a surface hole location 370 feet FSL and 1,815 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FNL and 1,225 feet FWL (Unit D) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

i. The **DL 10 3 Kraken Fed Com #209H** (API No. 30-025-49080) with a surface hole location 370 feet FSL and 1,840 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FNL and 2,179 feet FWL (Unit C) in Section 3, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

j. The **DL 15 22 Narwhal Fed Com #219H** (API No. 30-025-49081) with a surface hole location 860 feet FSL and 1,790 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and

339 feet FWL (Unit M) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

k. The **DL 15 22 Narwhal Fed Com #220H** (API No. 30-025-49082) with a surface hole location 860 feet FSL and 1,815 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 40 feet FSL and 1,254 feet FWL (Unit M) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

l. The **DL 15 22 Narwhal Fed Com #221H** (API No. 30-025-49083) with a surface hole location 860 feet FSL and 1,840 feet FWL (Unit N) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 44 feet FSL and 2,178 feet FWL (Unit N) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

m. The **DL 10 15 Ogopogo Fed Com #422H** (API No. 30-025-49906) with a surface hole location 1,986 feet FSL and 1,238 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and 2,297 feet FEL (Unit O) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico;

n. The **DL 10 15 Ogopogo Fed Com #423H** (API No. 30-025-49907) with a surface hole location 1,986 feet FSL and 1,213 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 39 feet FSL and 1,427 feet FEL (Unit O) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico; and

o. The **DL 10 15 Ogopogo Fed Com #424H** (API No. 30-025-49908) with a surface hole location 1,986 feet FSL and 1,188 feet FEL (Unit I) in Section 10, Township 22 South, Range 33 East, and a bottom hole location 42 feet FSL and 535 feet FEL (Unit P) in Section 22, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico (collectively the "CLGC wells").

10. **Chevron Exhibit A** also contains the Form C-102s for each of the proposed CLGC wells at PDF pages 70-84.

11. The proposed average daily injection rate into the CLGC wells is 5 MMSCF/day with an expected maximum injection rate of 6 MMSCF/day during injection.

12. The maximum allowable surface pressure (MASP) for the wells in the pilot project will be 1,250 psi. *See* **Chevron Exhibit A** at PDF page 24. The current average surface pressures under normal operations for the CLGC wells range from approximately 748 to 1058 psi. *Id.*

13. Injection along the horizontal portion of the wellbores will be at the following approximate measured depths:

a. The **DL 4 33 Loch Ness Federal Com #4H** between 9,518 feet and 9,686 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

b. The **DL 4 33 Loch Ness Federal Com #5H** between 9,594 feet and 9,786 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

c. The **DL 4 33 Loch Ness Federal Com #6H** between 9,515 feet and 9,586 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

d. The **DL 9 16 Loch Ness Federal Com #16H** between 9,514 feet and 9,581 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

e. The **DL 9 16 Loch Ness Federal Com #17H** between 9,653 feet and 9,766 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

f. The **DL 9 16 Loch Ness Federal Com #18H** between 9,501 feet and 9,560 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

g. The **DL 10 3 Kraken Fed Com #207H** between 9,453 feet and 9,480 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

h. The **DL 10 3 Kraken Fed Com #208H** between 9,462 feet and 9,492 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

i. The **DL 10 3 Kraken Fed Com #209H** between 9,436 feet and 9,483 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

j. The **DL 15 22 Narwhal Fed Com #219H** between 9,459 feet and 9,526 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

k. The **DL 15 22 Narwhal Fed Com #220H** between 9,441 feet and 9,498 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

l. The **DL 15 22 Narwhal Fed Com #221H** between 9,422 feet and 9,471 feet, within the Red Tank; Bone Spring, East [Pool Code 51687];

m. The **DL 10 15 Ogopogo Fed Com #422H** between 10,939 feet and 10,984 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846];

n. The **DL 10 15 Ogopogo Fed Com #423H** between 10,703 feet and 10,764 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846]; and

o. The **DL 10 15 Ogopogo Fed Com #424H** between 10,945 feet and 11,015 feet, within the Wildcat G-06 S223322J; Bone Spring Pool [Pool Code 97846].

14. Details on the wellbore construction for each proposed CLGC well is provided in the wellbore schematics at **Chevron Exhibit B-2**. Details on the construction of each CLGC well is also included in tabular form at **Chevron Exhibit A** at PDF pages 116-118.

15. A summary overview of the pilot project facilities is located at **Chevron Exhibit A** at PDF page 19. It shows the location of the facilities within the Dagger Lake area, as well as the gas lift line that connects the Dagger Lake facilities.

16. A block diagram of the closed loop gas capture system is at PDF page 20 of **Chevron Exhibit A**. The diagram reflects a schematic of the proposed system to be used for gas CLGC injection. Chevron will utilize the existing gas lift infrastructure, so no changes are shown. During normal operations, produced fluids flow from the wells to their respective gathering facility (Central Tank Battery #4 (CTB #4) or Satellite #10 (SAT #10)). The source wells, which consist of all wells connected to the CTB #4 and Sat #10, produce from the Bone Spring formation. Oil and water are separated out and leave the CTB. Oil is sold through the Lease Automatic Custody Transfer (LACT) and water is sent to a third-party disposal company via pipeline. Gas is separated at each gathering facility after which it enters the Low-Pressure Gas Pipeline to the Dagger Lake Compressor Station ("CS"). From the CS, gas can then be sold to the Chevron Takeaway (MarkWest and/or Targa), flared, or delivered to the Gas Lift Pipeline and re-injected as gas lift gas. Gas at the compressor station, is compressed to a maximum of 1,250 psig before being introduced into the Gas Lift Pipeline. Once in the Gas Lift Pipeline, high-pressure gas is delivered to each well pad where a dedicated gas lift meter (one per well) meters gas injected into the well. Once injected, gas lift gas is reproduced through the surface facilities repeating the separation, compression and injection process over again.

17. **Chevron Exhibit B-3** is a diagram depicting operations during normal gas lift production on the left and closed loop gas capture during a gas injection event on the right. A gas storage event is initiated when all gas intended for sales cannot be sold to MarkWest or Targa. During a gas storage event, the source wells continue to produce through the gathering facilities consistent with normal operation. Since gas intended for sales cannot be sold during a gas storage event, pressure in the Low-Pressure Gas Pipeline will begin to rise. Once the pressure in the Low-Pressure Gas Pipeline reaches a pre-determined setpoint, CLGC wells will cease production and commence gas capture injection operations. Temporary injection into each CLGC well will be initiated one at time in a cascading fashion until the pressure in the Low-Pressure Gas Pipeline falls below the pre-determined setpoint. A storage event ends when MarkWest or Targa can resume receiving all Dagger Lake gas. In conjunction with the resumption of gas sales, pressure in the Low-Pressure Gas Pipeline will decrease to the normal sales pressure window. Upon the Low-Pressure Gas Pipeline reaching the normal sales pressure window, production will resume on all CLGC wells. Once returned to production operations, CLGC wells will be tested at a frequency specified by the Division's Conditions of Approval (COAs).

18. A map depicting the pipeline that ties the CLGC wells for the pilot project into the gathering system and the affected compressor stations is included in the attached **Chevron Exhibit A** at PDF page 19. The relevant components for the CLGC system are outlined in dashed blue lines.

19. Data for each CLGC well, including well diagrams and well construction, casing, tubing, packers, cement, perforations, formation tops, and other details for each proposed injection well are included in the attached **Chevron Exhibit B-2**. All wells have gas lift systems which inject down the casing and produce up the tubing with a packer in the hole.

20. Cement bond logs for each of the proposed CLGC wells will be electronically submitted to the Division's well file for review and approval by the Division prior to initial commencement of injection as a condition of approval. These logs will demonstrate that the placement of cement and cement bond of the production casing and the tie-in of the production casing with the next prior casing are sufficient.

21. The proposed MASP, assuming a full column of reservoir brine water, will not exert a pressure at the top perforation more than 90% of the production casing or liner's burst pressure. **Chevron Exhibit A** at PDF page 24. The MASP is not projected to exceed 0.14 psi/ft in any of the proposed CLGC wells during injection operations. *Id*.

22. Chevron plans to monitor injection and operational parameters for the pilot project using an automated supervisory control and data acquisition (SCADA) system with pre-set alarms and automatic shut-in safety valves that will prevent injection pressures from exceeding the MASP. *See* **Chevron Exhibit A** at PDF pages 63-66.

23. Injection starts at each CLGC well's gas lift flowmeter where the injection rate is measured and moves through the following components: (1) the injection flow control valve which controls the injection pressure; (2) the casing safety shutdown valve (SSV), which can open and close automatically; (3) the casing-tubing annulus; (4) the tubing; (5) the tubing SSV, which can open and close automatically and is also closed when a CLGC well is activated; (6) and finally another flow control valve (FCV), which controls flowline pressure.

24. Pressure Indicating Transmitters (PITs) are located on the casing valve and tubing valves. PITs capture pressure data that is stored in the SCADA system and then used to automatically control the SSVs and FCVs.

25. Each CLGC well will be subject to a Division-witnessed Mechanical Integrity Test (MITs) prior to initial commencement of injection to confirm wellbore integrity as a condition of approval.

26. The source gas for injection will be diverted at the outlet of the Dagger Lake compressor for the production of Chevron's wells within the Dagger Lake area identified in **Chevron Exhibit A** at PDF page 18. The source of gas for injection will be from Chevron's wells producing from the Bone Spring formation in the Dagger Lake area that are identified in the list of wells in **Chevron Exhibit A** at PDF page 53. Additional source wells may be added over time under an approved surface commingling authorization. Each of Chevron's proposed injection wells are operated by Chevron.

27. Chevron has prepared an analysis of the composition of the source gas for injection and a corrosion prevention plan. *See* **Chevron Exhibit A** at PDF pages 54-55.

28. Chevron intends to continue with its existing Corrosion Prevention Plan in these CLGC wells outlined at **Chevron Exhibit A** at PDF page 55. In the existing Corrosion Prevention Plan, produced gas is processed through a gas dehydration unit to remove water. Then corrosion inhibitor is added to the system of each well downstream of the gas dehydration unit. Fluid samples are taken regularly and checked for iron, manganese, and residual corrosion inhibitor in the produced fluids. The process allows Chevron to continuously monitor and adjust the chemical treatment over the life of the well to minimize corrosion. Additionally, fluid samples will be taken prior to gas injection to establish a baseline for analysis. After a CLGC event, fluid samples will be taken to check for iron, manganese, and residual corrosion inhibitor in the produced fluids in the CLGC wells. Chevron will continue to monitor and adjust the chemical treatment over the life of the project.

29. Using an automated supervisory control and data acquisition (SCADA) system, Chevron will monitor a multitude of rates and pressures to allow for efficient and safe operation, proper allocation and reporting of volumes, and immediate response to unexpected events. *See* **Chevron Exhibit A** at PDF pages 63-66. Each CLGC well will also include automated safety devices, including automatic shut-in valves, among other operational safety measures. Chevron will also monitor and track various operational parameters at the pilot project's CTB #4 and CS. *Id*.

30. Chevron will follow the Division's requirements for data collection, monitoring, and reporting outlined in the Division's Guidance for Closed Loop Gas Capture Pilot Projects and a Division order approving this pilot project.

31. I also conducted an analysis of the half-mile area of review and two-mile area surrounding each of the proposed CLGC wells. A lease map that identifies each surface tract by ownership type within the half-mile area of review and two-mile area surrounding each of the proposed CLGC injection wells is at **Chevron Exhibit A** at page 58. A map depicting wells and their trajectories within a two-mile radius around the proposed CLGC injection wells is included at PDF page 59 of **Chevron Exhibit A**. **Chevron Exhibit A** at PDF page 60 is the half-mile area of review map showing all wells identified with completed laterals either completely or partially within the half-mile area of review. Well construction information on each well in the half-mile area of review is found in a tabulation of data for all wells of public record that penetrate either the proposed injection zone or the confining layer within the AOR in **Chevron Exhibit A** at PDF pages 119-125. The well data tabulation chart provides detailed information for well identification, lease name and well number, well type and status, surface location, date drilled, total vertical depth, total measured depth, and current producing pool for each well.

32. Wellbore schematics for eight[1] of the 15 wells that penetrate the top of the proposed injection interval and have been plugged and abandoned are included in **Chevron Exhibit A** at PDF pages 127-141. Review of the wellbore diagrams indicate adequate casing, cement, and cement plug placement to sufficiently contain gas within the injection interval. **Chevron Exhibit A** at PDF page 126 includes a tabulation of data for all 15 wells penetrating the top of the proposed injection interval and have been plugged and abandoned.

33. **Chevron Exhibit A** at PDF page 61 is a map depicting all wells completed in the Bone Spring formation within one-quarter mile of any of the proposed CLGC wells. Details on each well is included in the tabulation of well data at PDF page 126 of **Chevron Exhibit A**.

34. To determine gas production from each CLGC well following an injection event, Chevron proposes to allocate gas volumes between temporarily injected produced gas and native gas using a mass balance methodology for injection events that last fewer than seven days, and a gas-to-oil ratio ("GOR") methodology for injection events that last seven days or more. **Chevron Exhibit A** at PDF page 50 provides an overview of Chevron's proposed allocation methodology. Per existing commingling permits, gas sales are allocated by well test method under PLC-854-A.

35. Following a storage event lasting fewer than seven days, the mass balance methodology will be used. Under this scenario, the first volumes produced following an injection event will be accounted for as stored gas (owned by the owners of the source wells) until 100% of the volume of injected gas is recovered. Additional gas produced after that point will be accounted for as native gas (owned by the owners of the CLGC well).

[1] Chevron conducted a thorough search of available public records for all plugged and abandoned wells but was unable to find schematics for seven (7) of the wells. In lieu of the schematics, Chevron attached the best information available on the plugging procedure.

36. Following an injection event lasting seven days or more, the GOR Gas Allocation Method approved by the Division in prior CLGC pilot project cases will be used to differentiate between native gas and previously stored gas.

37. I believe this allocation approach is a fair and reasonable method for allocating gas production after CLGC injection events lasting fewer than seven days and seven days or longer.

38. Working with Chevron's in-house land department, I also prepared a list of affected parties required to receive notice of this application. The lease map on PDF pages 59 of **Chevron Exhibit A** reflects that the surface owners include New Mexico State Land Office ("NMSLO") and Bureau of Land Management ("BLM"). The map on PDF page 60 of **Chevron Exhibit A** depicts the half-mile area of review and identifies the designated operator for each tract that falls within the half-mile area of review for each of the wells within the Bone Spring formation.

39. **Chevron Exhibit A** at PDF paged 119-125 identifies all leasehold operators and other affected persons within any tract wholly or partially contained within one-half mile of the completed interval of the wellbore for each of the proposed injection wells entitled to notice in accordance with Division regulations, including the NMSLO and BLM as the surface owners where each CLGC well is located. In addition, Chevron provided notice of this application and hearing to owners of the source gas within the Dagger Lake area, which includes each of the proposed CLGC wells.

40. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County or from a review of New Mexico Oil

Conservation Division ("NMOCD") and BLM operator records as of the time the application was filed or from Chevron's internal records (division orders).

40. It is my opinion that Chevron undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address.

41. I provided the law firm of Holland & Hart LLP a list of names and addresses of the affected parties identified for purposes of providing notice. Notice was also published in the Hobbs Daily News.

42. **Chevron Exhibit A , B-1 thru B-3** were prepared by me, compiled under my direction and supervision, or constitute Chevron business records or public Division well file records.

43. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

Victor Torrealba

09/04/2024
Date

VICTOR TORREALBA

Senior Production Engineering Advisor

(832) 993-2544 | victortorrealba@chevron.com | Midland, TX

Education

The Pennsylvania State University

PhD in Petroleum and Natural Gas Engineering 2014-2017
MSc in Petroleum and Natural Gas Engineering 2011-2014
BSc (Hons) in Petroleum and Natural Gas Engineering 2011-2014

Experience

Lead and develop novel subsurface characterization and forecasting workflows
Expertise in reservoir simulation of complex enhanced oil recovery processes
Experience in optimizing production performance deliverability with a focus on fluid properties and phase behavior

2024 - Present

Senior PE Advisor
Chevron MCBU

2022 - 2023

Reservoir Engineer
Chevron MCBU

2020 - 2021

Reservoir Simulation Engineer
Chevron CTC

2019 - 2020

Reservoir Engineer
Chevron ETC

2017 - 2019

Postdoctoral Fellow
KAUST

2015 - 2016

Reservoir Engineering Intern
Chevron ETC

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B-1
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B-2
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

Dagger Lake Wells

Basin	Field	Development area	CTB	Well Name	API
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 422H	30025499060001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 423H	30025499070001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 15 OGOPOGO FED COM 424H	30025499080001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 207H	30025490780001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 208H	30025490790001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 10 3 KRAKEN FED COM 209H	30025490800001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 219H	30025490810001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 220H	30025490820001
Delaware Basin	Hobbs	Dagger Lake	DLK10AAT	DL 15 22 NARWHAL FED COM 221H	30025490830001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 4H	30025466440001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 5H	30025466450001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 4 33 LOCH NESS FED COM P1 6H	30025466460001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 16H	30025466470001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 17H	30025466480001
Delaware Basin	Hobbs	Dagger Lake	DLK4ACTB	DL 9 16 LOCH NESS FED COM P1 18H	30025466490001

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 422H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 422H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 422H

Area	Surface UWI	Well Type
Delaware Basin	3002549906	Oil Producer

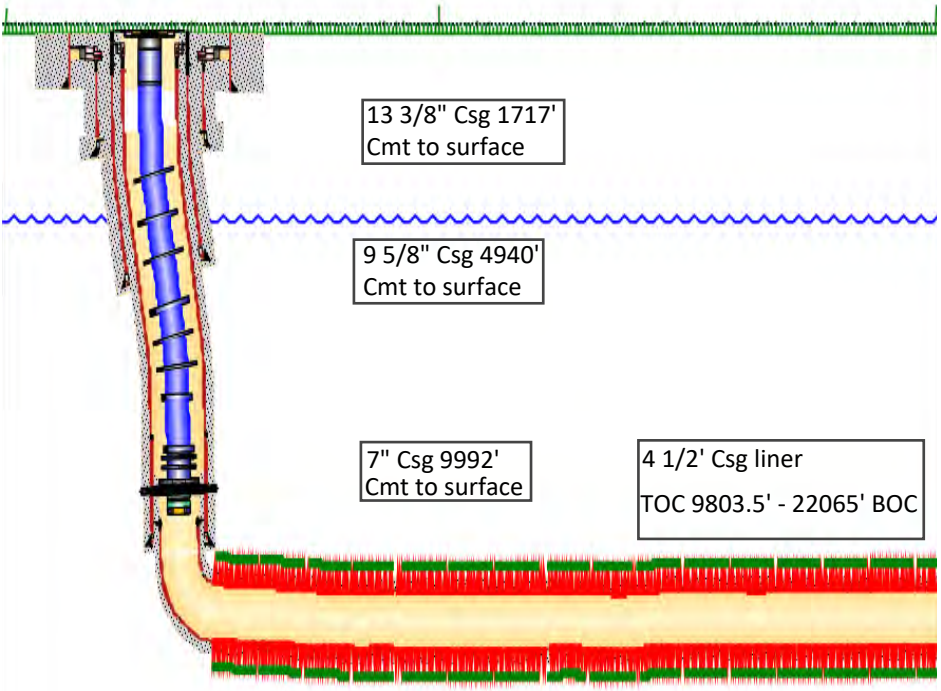
Latitude	Longitude
32.404482	-103.555766

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1238'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 422H



Pool: WC-025 G-06 S223322J
Bone spring perfs 11572' to 21,963'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	643 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	988 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,572' - 21,963' MD / MIN 10,939' - MAX 10,984' TVD

SLIDE 2 *DL 10 15 OGOPOGO FED COM 422H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9803.3' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 765 sx. Method: CALC

Packer Setting Depth: 9782.3' MD

Top of Cement: 9803.5' MD Bottom of Cmt: 22,065' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9960' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 423H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 423H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 423H

Area	Surface UWI	Well Type
Delaware Basin	3002549907	Oil Producer

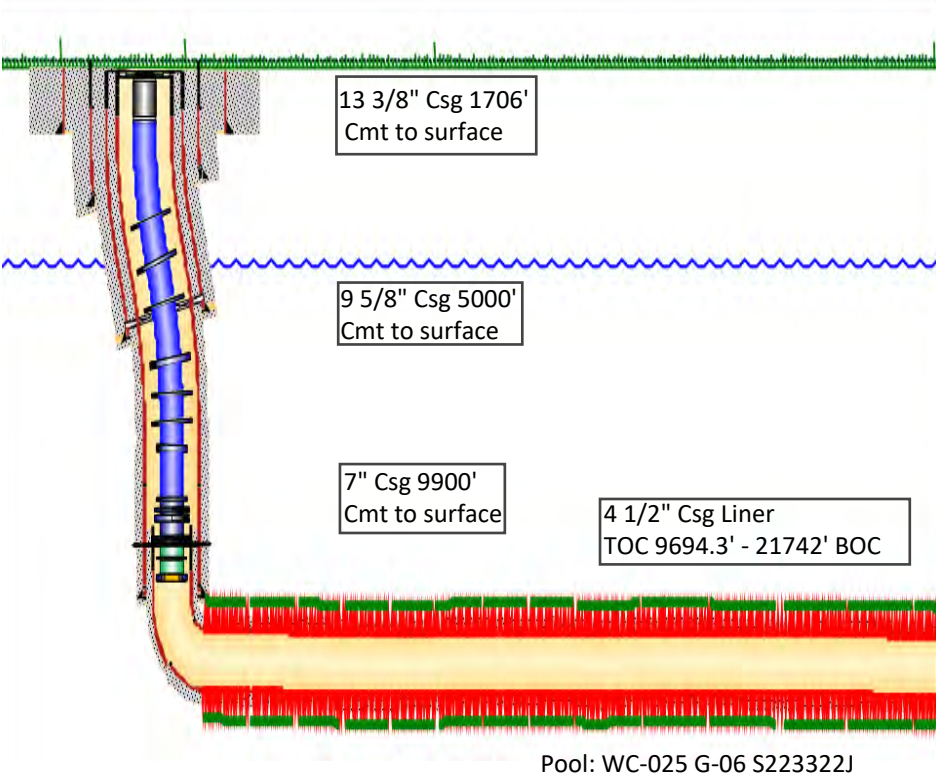
Latitude	Longitude
32.404482	-103.555685

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1213'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 423H



*Note - Diagram not to scale

Pool: WC-025 G-06 S223322J

Bone Springs perfs: 11,271' to 21,677'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	643 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	984 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,271' - 21,677' MD / MIN 10,703' - MAX 10,764' TVD

SLIDE 2 *DL 10 15 OGOPOGO FED COM 423H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9734.1 MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 749 sx. Method: CALC

Packer Setting Depth: 9,711.1 MD

Top of Cement: 9694.3' MD Bottom of Cmt: 21,742' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9960' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 15 OGOPOGO FED COM 424H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 15 OGOPOGO FED COM 424H	DL 10 15 OGOPOGO FED COM	Bone Spring	Mid-Continent

DL 10 15 OGOPOGO FED COM 424H

Area	Surface UWI	Well Type
Delaware Basin	3002549908	Oil Producer

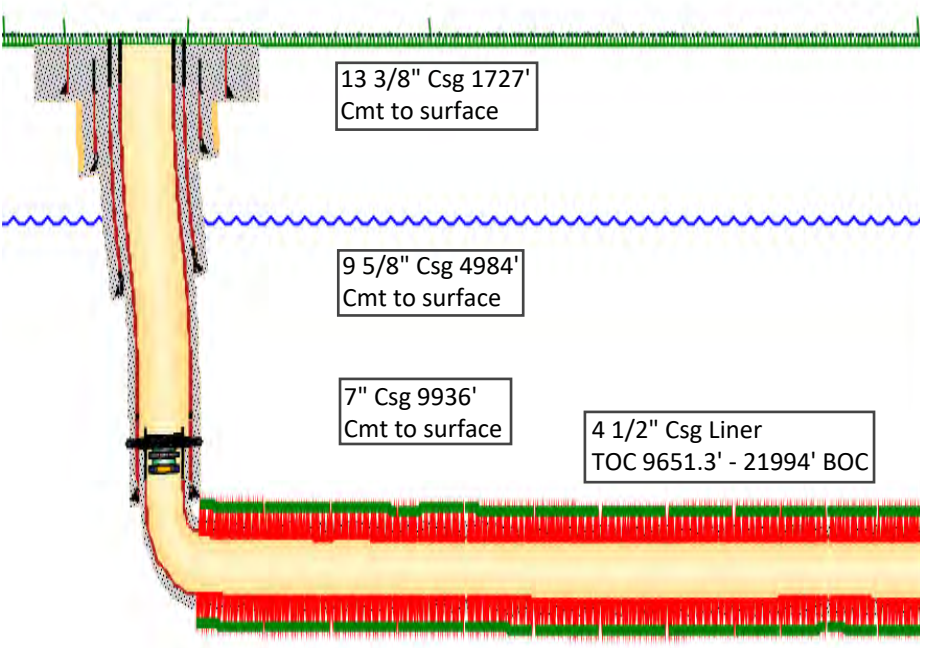
Latitude	Longitude
32.404481	-103.555604

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
1986'	SOUTH	1188'	EAST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 10 15 OGOPOGO FED COM 424H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 11,537' to 21,927'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	634 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	980 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

11,537' - 21,927' MD / MIN 10,945' - MAX 11,015' TVD

SLIDE 2 *DL 10 15 OGOPOGO FED COM 424H*

Tubing: 2 7/8" Liner: IPC Set Depth: 9680.8' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1-X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 768 sx. Method: CALC

Packer Setting Depth: 9659.3' MD

Top of Cement: 9651.3' MD Bottom of Cmt: 21994' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: 2nd BONE SPRING UPPER

3 Name of Field or Pool (if applicable): BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: 1st BONE SPRING - TOP 9965' TVD UNDERLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 207H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 207H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 207H

Area	Surface UWI	Well Type
Delaware Basin	3002549078	Oil Producer

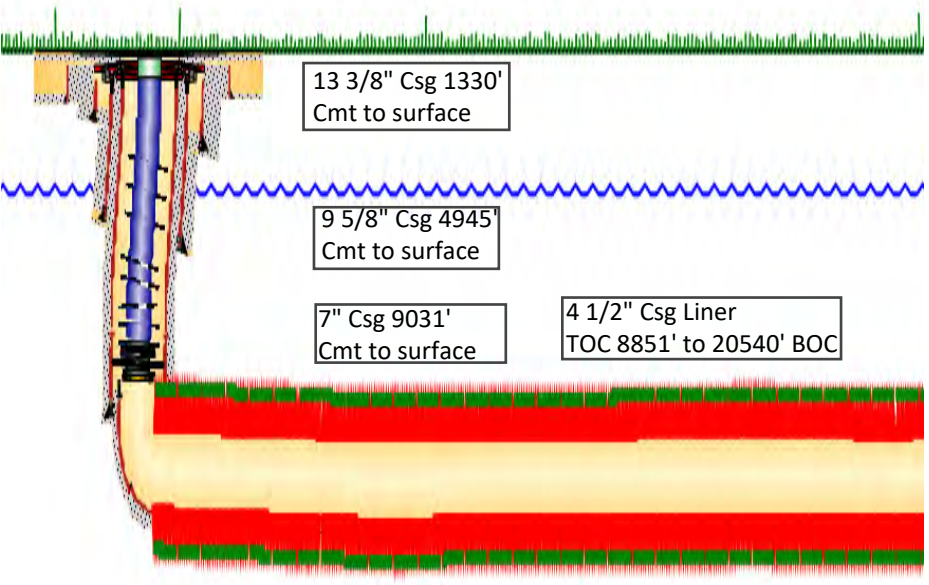
Latitude	Longitude
32.400054	-103.563064

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1790"	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 207H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10,048' to 20,469'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	772 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	722 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,048' - 20,469' MD / MIN 9,453' - MAX 9,480' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 207H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8849.3' MD

Production CSG Liner: CMT

Type of packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 769 sx. Method: CALC

Packer Setting Depth: 8828.3' MD

Top of Cement: 8851' MD Bottom of Cmt: 20540' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8931' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 208H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 208H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 208H

Area	Surface UWI	Well Type
Delaware Basin	3002549079	Oil Producer

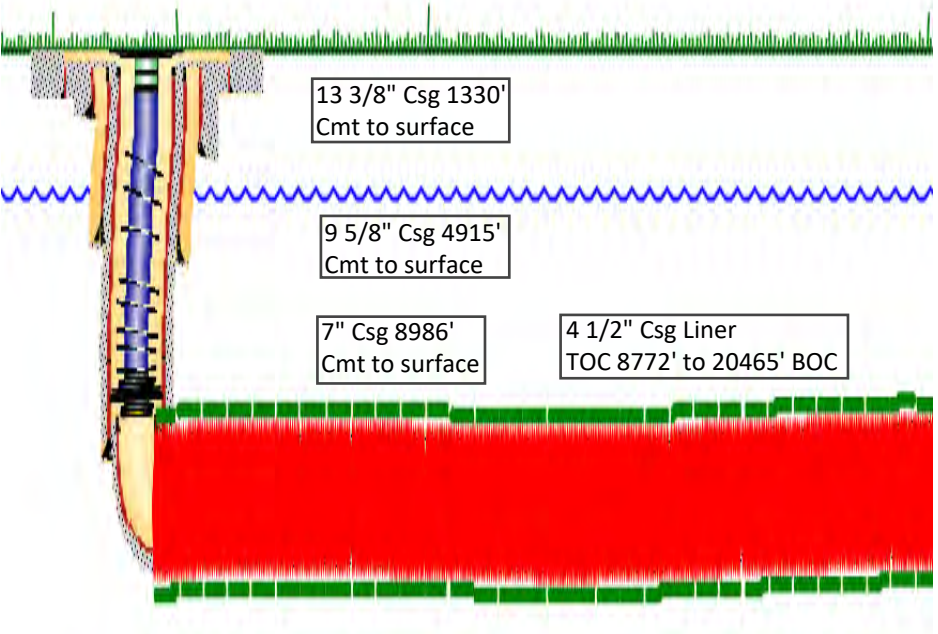
Latitude	Longitude
32.400054	-103.562983

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1815'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 208H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9978' to 20399'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	852 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	720 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9,978' - 20,399' MD / MIN 9,462' - MAX 9,492' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 208H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8771.0' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8750.0' MD

Top of Cement: 8772' MD Bottom of Cmt: 20465' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8933' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 10 3 KRAKEN FED COM 209H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 10 3 KRAKEN FED COM 209H	DL 10 3 KRAKEN FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 10 3 KRAKEN FED COM 209H

Area	Surface UWI	Well Type
Delaware Basin	3002549080	Oil Producer

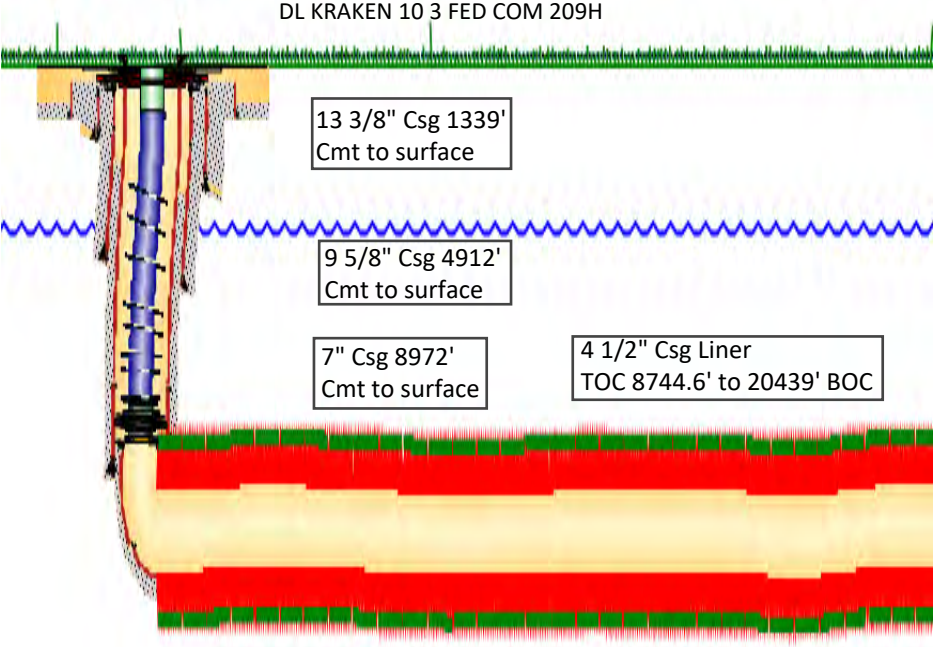
Latitude	Longitude
32.400054	-103.562902

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
370'	SOUTH	1840'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL KRAKEN 10 3 FED COM 209H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9947' to 20368'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1126 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	850 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	717 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9,947' - 20,368' MD / MIN 9,436' - MAX 9,483' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 10 3 KRAKEN FED COM 209H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8743.4' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8722.3' MD

Top of Cement: 8744.6' MD Bottom of Cmt: 20439' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8952' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 219H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 219H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 219H

Area	Surface UWI	Well Type
Delaware Basin	3002549081	Oil Producer

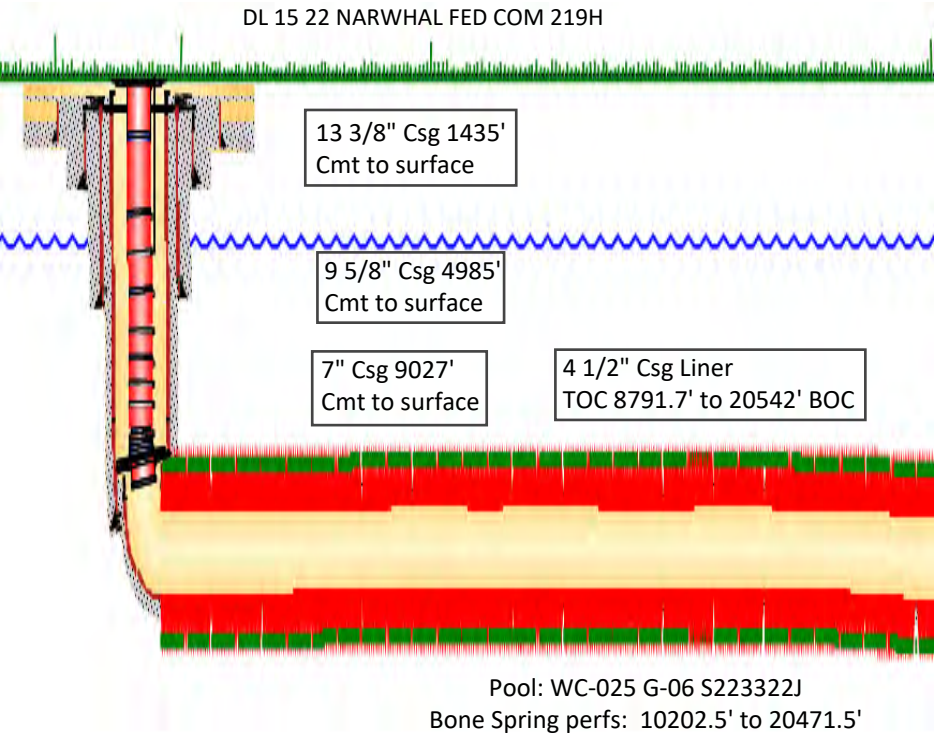
Latitude	Longitude
32.401402	-103.563065

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1790'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 15 22 NARWHAL FED COM 219H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10202.5' to 20471.5'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1114 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1197 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	819 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,202' - 20,471' MD / MIN 9,459' - MAX 9,526' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 15 22 NARWHAL FED COM 219H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8793.7 ' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 773 sx. Method: CALC

Packer Setting Depth: 8773.0' MD

Top of Cement: 8791.7' MD Bottom of Cmt: 20542' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8296' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 220H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 220H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 220H

Area	Surface UWI	Well Type
Delaware Basin	3002549082	Oil Producer

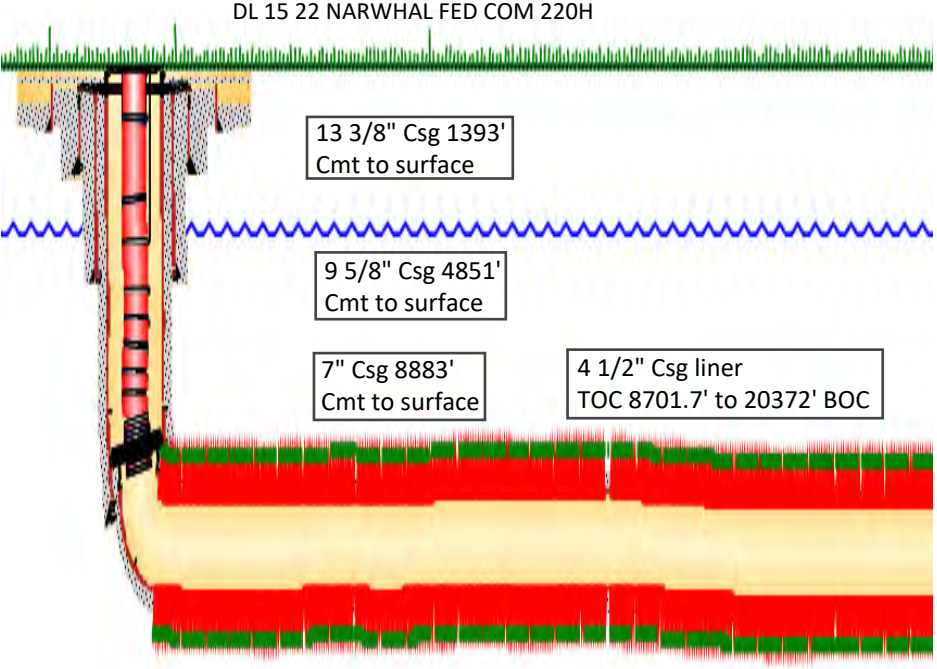
Latitude	Longitude
32.401401	-103.562984

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1815'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 15 22 NARWHAL FED COM 220H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9874.7' to 20301.4'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1114 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 1

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	928 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 - 3/4"	Casing Size:	7"
Cemented with:	806 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9,874' - 20,301' MD / MIN 9,441' - MAX 9,498' TVD

SLIDE 2 *DL 15 22 NARWHAL FED COM 220H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8715.4 ' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 764 sx. Method: CALC

Packer Setting Depth: 8695.0' MD

Top of Cement: 8701.7' MD Bottom of Cmt: 20372' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8965' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 15 22 NARWHAL FED COM 221H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 15 22 NARWHAL FED COM 221H	DL 10 22 NARWHAL FED COM	Red Tank / Bone Spring	Mid-Continent

DL 15 22 NARWHAL FED COM 221H

Area	Surface UWI	Well Type
Delaware Basin	3002549083	Oil Producer

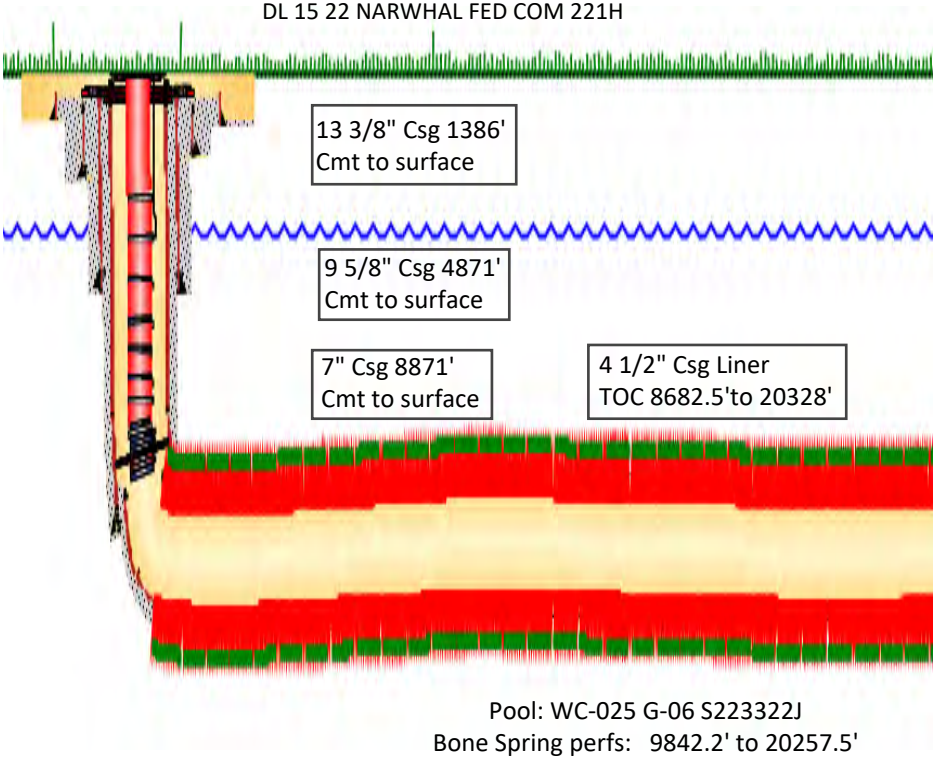
Latitude	Longitude
32.401401	-103.562903

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
860'	SOUTH	1840'	WEST

Township	Range	Section
22S	33E	10

Wellbore Schematic

DL 15 22 NARWHAL FED COM 221H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9842.2' to 20257.5'

Well Construction Data

Surface Casing

Hole Size:	17 1/2"	Casing Size:	13 3/8"
Cemented with:	1225 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	907 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing 2

Hole Size:	8 3/4"	Casing Size:	7"
Cemented with:	803 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9,842' - 20,257' MD / MIN 9,422' - MAX 9,471' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 15 22 NARWHAL FED COM 221H*

Tubing: 2 7/8" Liner: IPC Set Depth: 8679.3 ' MD

Production CSG Liner: CMT

Type of Packer: Peak Completion Technologies AS1X

Hole Size: 6 1/8" Casing Size: 4 1/2"

Cemented with: 763 sx. Method: CALC

Packer Setting Depth: 8658.9' MD

Top of Cement: 8682.5' MD Bottom of Cmt: 20328' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8967' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 4H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 4H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 4H

Area	Surface UWI	Well Type
Delaware Basin	3002546644	Oil Producer

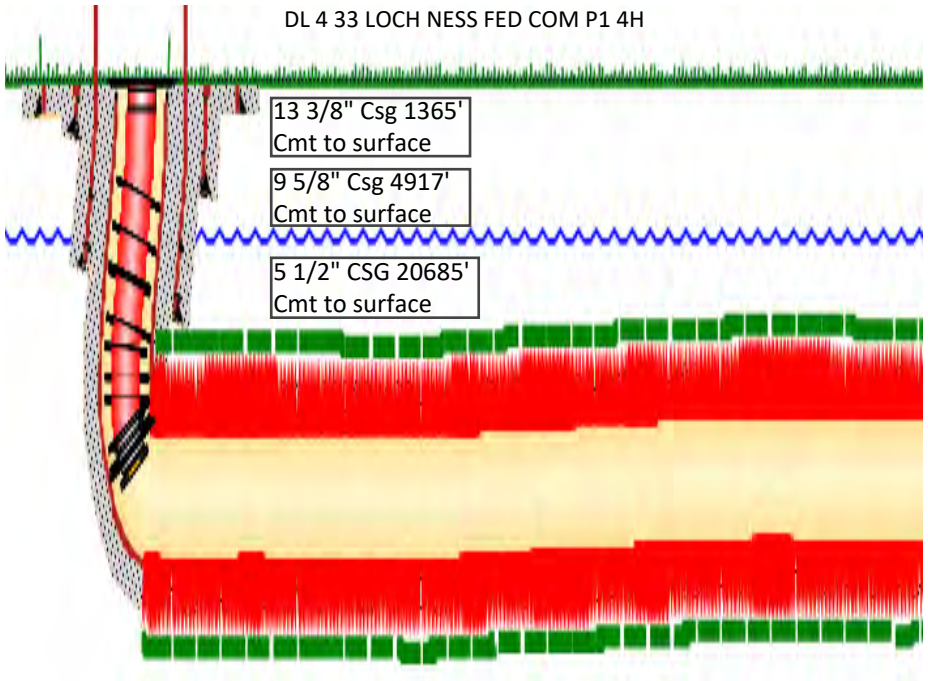
Latitude	Longitude
32.414283	-103.573242

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1347'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 4H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10258.2' to 20610.0'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,258' - 20,610' MD / MIN 9,518' - MAX 9,686' TVD

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 4H*

Tubing: 2 7/8" Set Depth: 9189.9 ' MD

Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9161' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9002' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 5H

Operator: CHEVRON U S A INC

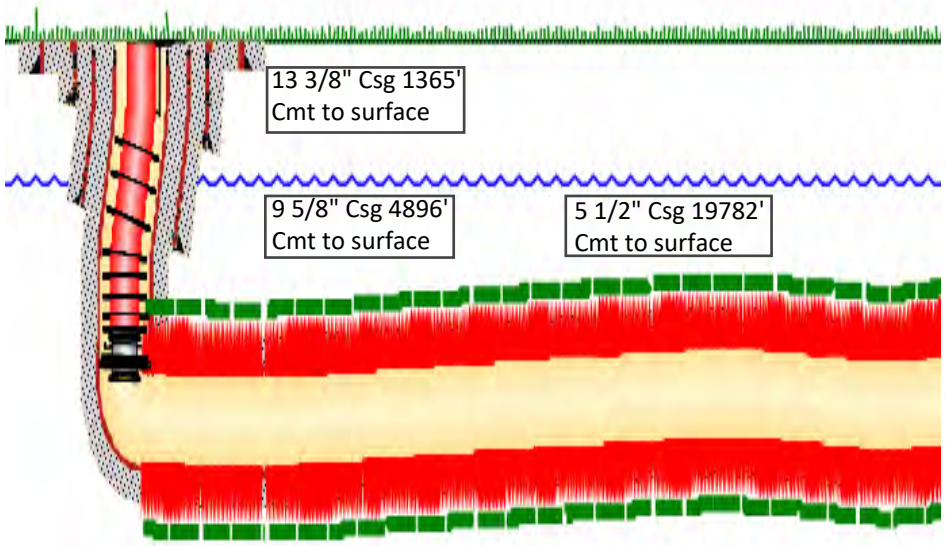
Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 5H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 5H

Area	Surface UWI	Well Type	
Delaware Basin	3002546645	Oil Producer	
Latitude	**Longitude**		
32.414283	-103.57308		
North/South Distance (ft)	**North/South Reference**	**East/West Distance (ft)**	**East/West Reference**
264'	SOUTH	1297'	EAST
Township	**Range**	**Section**	
22S	33E	4	

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 5H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10501.2' to 19713.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	856 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	2720 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,501' - 19,713' MD / MIN 9,594' - MAX 9,786' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 5H*

Tubing: 2 7/8" Set Depth: 9128.9' MD

Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9108' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9003' TVD

UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 4 33 LOCH NESS FED COM P1 6H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 4 33 LOCH NESS FED COM P1 6H	DL 4 33 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 4 33 LOCH NESS FED COM P1 6H

Area	Surface UWI	Well Type
Delaware Basin	3002546646	Oil Producer

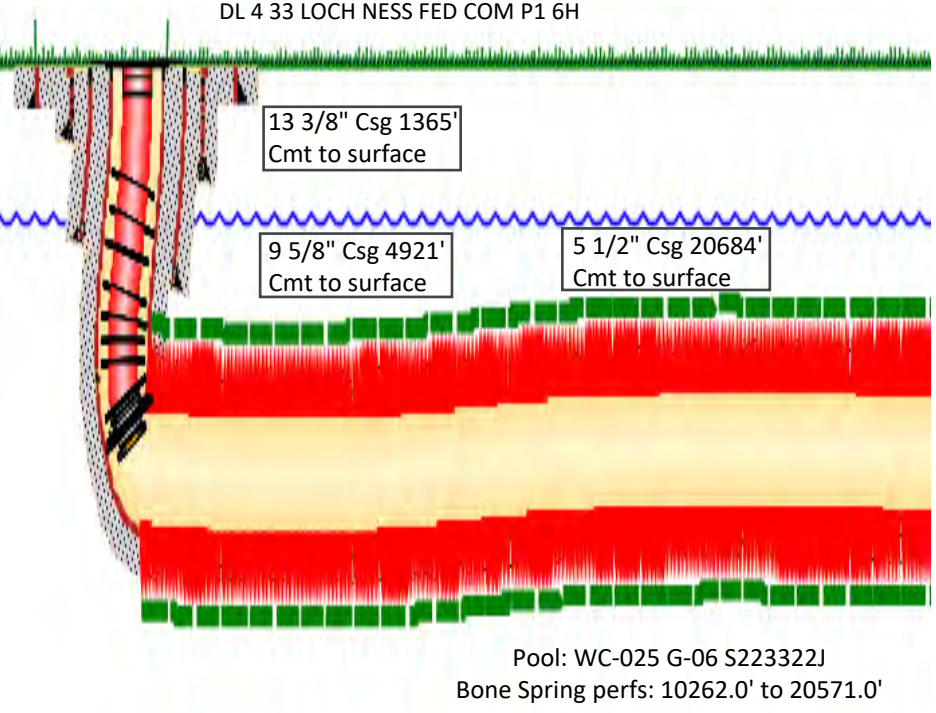
Latitude	Longitude
32.414284	-103.572918

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1247'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 4 33 LOCH NESS FED COM P1 6H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10262.0' to 20571.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	856 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1998 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3134 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,262' - 20,571' MD / MIN 9,515' - MAX 9,586' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 4 33 LOCH NESS FED COM P1 6H*

Tubing: 2 7/8" Set Depth: 9191.0' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9170.0' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9025' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 16H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 16H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 16H

Area	Surface UWI	Well Type
Delaware Basin	3002546647	Oil Producer

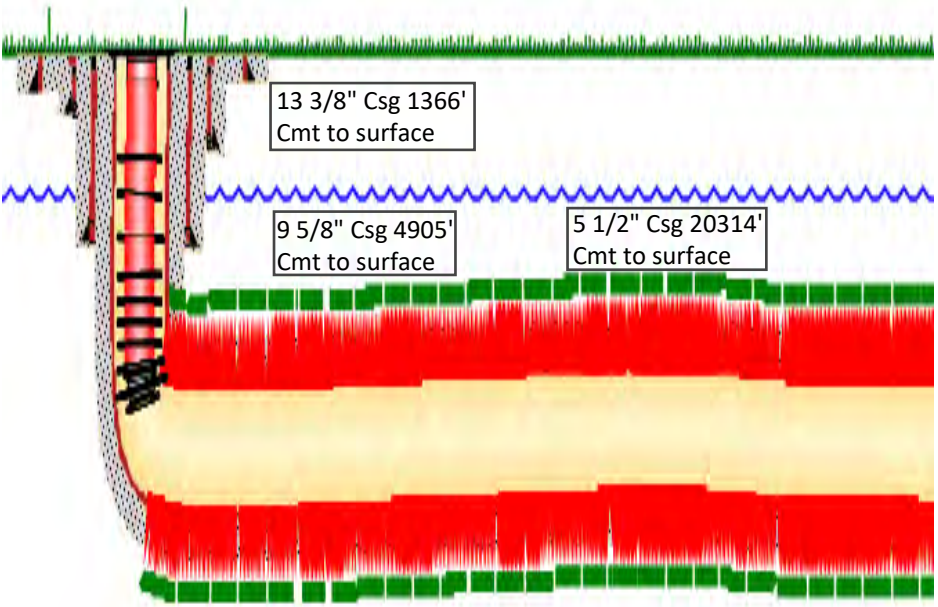
Latitude	Longitude
32.414282	-103.573323

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
263'	SOUTH	1372'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 16H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 9936.0' to 20245.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

9,936' - 20,245' MD / MIN 9,514' - MAX 9,581' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 16H*

Tubing: 2 7/8" Set Depth: 9111.4' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9096.5' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 8997' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 17H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 17H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 17H

Area	Surface UWI	Well Type
Delaware Basin	3002546648	Oil Producer

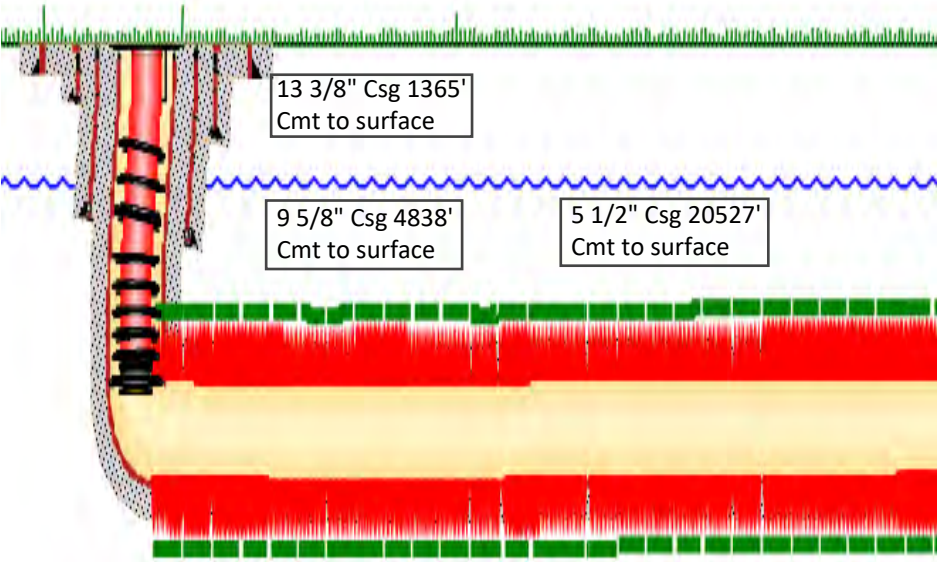
Latitude	Longitude
32.414283	-103.573161

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1322'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 17H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10511.4' to 20458.0'

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	855 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1548 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3102 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,511' - 20,458' MD / MIN 9,653' - MAX 9,766' TVD

*Note - Diagram not to scale

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 17H*

Tubing: 2 7/8" Set Depth: 9075.9' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9055.5' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVERLYING: UPPER AVALON - TOP 9017' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

EXHIBIT

SLIDE 1 DL 9 16 LOCH NESS FED COM P1 18H

Operator: CHEVRON U S A INC

Well Name	Lease	Field Name	Business Unit
DL 9 16 LOCH NESS FED COM P1 18H	DL 9 16 LOCH NESS FED COM	Red Tank / Bone Spring East	Mid-Continent

DL 9 16 LOCH NESS FED COM P1 18H

Area	Surface UWI	Well Type
Delaware Basin	3002546649	Oil Producer

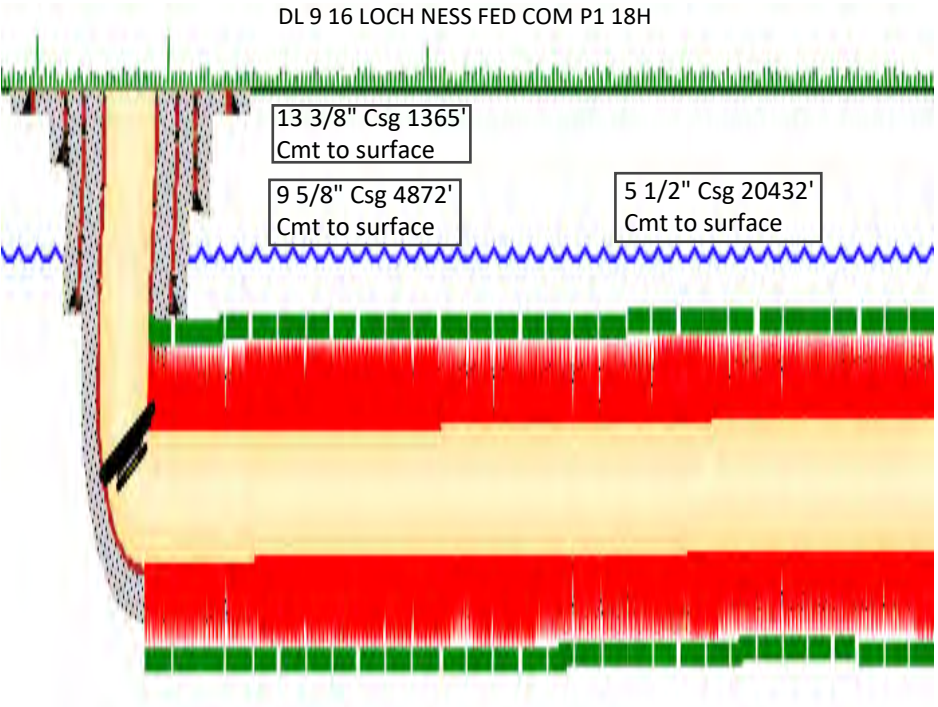
Latitude	Longitude
32.414282	-103.572999

North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
264'	SOUTH	1272'	EAST

Township	Range	Section
22S	33E	4

Wellbore Schematic

DL 9 16 LOCH NESS FED COM P1 18H



Pool: WC-025 G-06 S223322J
Bone Spring perfs: 10195.6' to 20363.0'

*Note - Diagram not to scale

Well Construction Data

Surface Casing

Hole Size:	16"	Casing Size:	13 3/8"
Cemented with:	856 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Intermediate Casing

Hole Size:	12 1/4"	Casing Size:	9 5/8"
Cemented with:	1572 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Production Casing

Hole Size:	8 1/2"	Casing Size:	5 1/2"
Cemented with:	3150 sx.	Method Determined:	CIRC
Top of Cement:	SURF		

Injection Interval

10,195' - 20,363' MD / MIN 9,501' - MAX 9,560' TVD

SLIDE 2 *DL 9 16 LOCH NESS FED COM P1 18H*

Tubing: 2 7/8" Set Depth: 9081.6' MD Lining Material: IPC

Type of Packer: Peak Completion Technologies AS1X

Packer Setting Depth: 9060.7' MD

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes (No)

If no, for what purpose was the well originally drilled? PRODUCER - OIL

2 Name of the Injection Formation: LOWER AVALON

3 Name of Field or Pool (if applicable): RED TANK / BONE SPRING EAST

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plugs used.

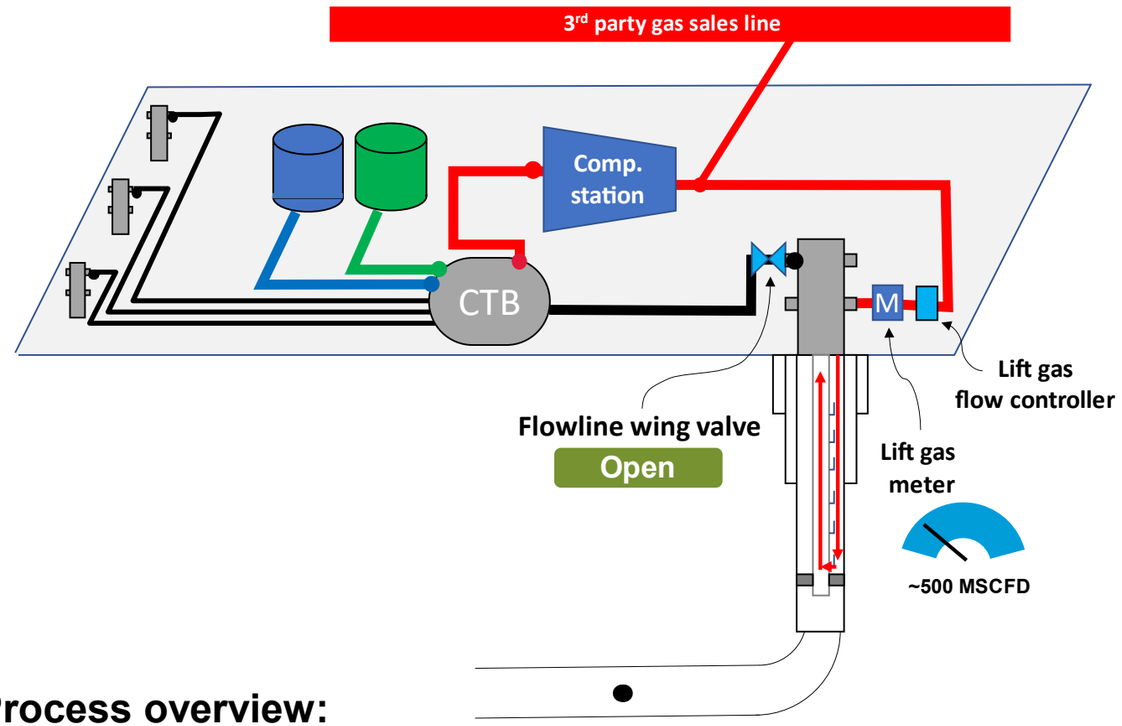
N/A

5 Give the name of any oil or gas zones underlying or overlying the proposed injection zone in this area:

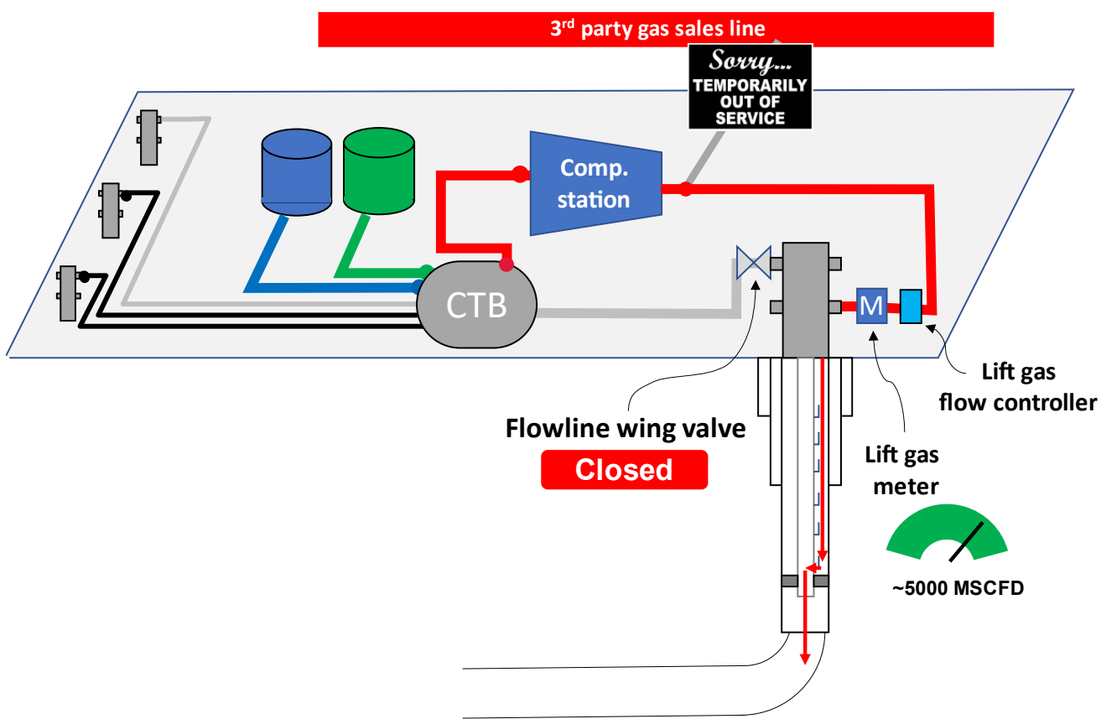
OVERLYING: UPPER AVALON - TOP 9016' TVD UNDERLYING: 1st BONE SPRING - TOP 9984' TVD

Closed Loop Gas Capture (CLGC) introduction

Normal operation



Closed loop gas capture operation



Process overview:

- During 3rd party interruption, wells utilized in CLGC operations will have production valves shut in.
- Gas lift rate will be increased to CLGC target, while measured & metered at the existing gas lift meter and flow controller.
- Injected gas flows down the tubing-casing annulus, through the orifice and unloading valves, entering the tubing, lateral, and fracture network near the wellbore
- When constraint is lifted, injection is ceased, and the well is returned to production operations.

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B-3
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

SELF-AFFIRMED STATEMENT OF ELSON E. CORE-SUÁREZ

1. My name is Elson E. Core-Suárez, and I am employed by Chevron U.S.A. Inc. ("Chevron") as a geologist.

2. I have not previously testified before the New Mexico Oil Conservation Division as an expert in petroleum geology; therefore, I have attached my curriculum vitae as **Chevron Exhibit C-1**. I believe my credentials qualify me to testify as an expert in petroleum geology in this matter.

3. In summary, I obtained a bachelor's and master's degrees in geology at the University of Puerto Rico-Mayagüez, and a second master's degree in petroleum geology from the University of Kansas. My expertise in geoscience includes sedimentology, stratigraphy, biostratigraphy, chronostratigraphy, sequence stratigraphy, reservoir characterization, petrophysical data analysis, and seismic interpretation of carbonate and mixed carbonate-siliciclastic systems. Currently I work as a Development Geologist at the Mid-Continent Business Unit (MCBU) at Chevron covering the Delaware Basin area.

4. I am familiar with the application filed by Chevron in this case and the Division guidance regarding closed loop gas capture injection ("CLGC") projects such as this one. I have conducted a geologic study of the lands within the pilot project area. The conclusions I have drawn from my analyses are summarized in **Chevron Exhibit A** at PDF pages 26-35.

5. The CLGC project will inject produced gas into horizontal wells and into the productive zones of the Lower Avalon and Second Bone Spring intervals within the Bone Spring formation. **Chevron Exhibit A** at PDF page 18 is a map that provides an overview of the locations for each of the proposed CLGC wells within the Project Area. Each well is numbered and the number correspondence to the well name in the table to the right-hand side.

6. **Chevron Exhibit A** at PDF page 27 depicts the Dagger Lake type log well, the Merchant 8 Federal 1 (API: 30-025-36318), with a focus on the Lower Avalon and Second Bone Spring target injection zones. The five tracks displayed on the type log from left to right are gamma ray, resistivity, measured depth (MD), mineralogy (yellow = quartz, dark gray = clay, and light blue = calcite volumes), and total and effective porosity. Alongside the type log are different symbols. A blue star identifies the proposed target injection zones within the Lower Avalon and Second Bone Spring Upper. Green circles denote vertically offsetting productive oil and gas zones.

7. Relative to the Lower Avalon target is the Brushy Canyon in the overlying Delaware Mountain Group, and the Upper Avalon within the Bone Spring Formation, which is immediately above the Lower Avalon target injection zone. Underlying the Lower Avalon target injection zone is the First Bone Spring Upper. Relative to the Second Bone Spring Upper target injection zone, is the First Bone Spring Upper above and underlying is the Second Bone Spring Lower.

8. Confining layers are depicted with a yellow square and black dashed line across the type log. The overlying Bone Spring Lime will prevent upward vertical migration of injected produced gas from out of the Lower Avalon injection zone. It is an approximately 115-foot-thick limestone with interbedded mudstones that separates the Delaware Mountain Group from the Bone Spring formation. Both the Upper and Lower Avalon 2 layers serve as permeability barriers and

will prevent upward and downward vertical migration, respectively, out of the Lower Avalon injection zone. The Upper Lower Avalon 2 has approximately 300 feet of tight carbonate interbedded with silica-rich mudstone and the Lower Avalon 2 has approximately 200 feet of the same. The First Bone Spring Lower also will prevent upward vertical migration out of the Second Bone Spring Upper injection zone. It is comprised of approximately a 370-foot-thick calcareous mudstone with silica-rich mudstone. The Second Bone Spring Lower will prevent vertical migration downward out of the Second Bone Spring injection zone. It is comprised of approximately 280 feet of tight carbonate interbedded with silica-rich mudstone.

9. **Chevron Exhibit A** at PDF page 28 shows a similar plan-view map of the wells within the Project Area but includes a cross-section index map. There are four cross-section wells, each denoted by a different colored star. **Chevron Exhibit A** at PDF page 29 shows a cross-section for each of the referenced wells in the cross section index map, identified by the corresponding colored star: JD 33 Federal 1 (API No: 30-025-33488) (dark blue star); Federal 15 Com B 1 (API No.: 30-025-28096) (dark purple star); Getty 15 Federal 1 (API No.: 30-025-27153) (red star); and Federal BG 1 (API No.: 30-025-26902) (light green star). The JD 33 Federal 1 and Getty 15 Federal 1 wells show five tracks displayed on each type log and are, from left to right, gamma ray, resistivity, subsurface true vertical depth (SSTVD), mineralogy (yellow = quartz, dark gray = clay, and light blue = calcite volumes), and neutron and density porosity. The Federal 15 Com B 1 and Federal BG 1 wells show four tracks displayed on each type log from left to right are gamma ray, resistivity, subsurface true vertical depth (SSTVD), and neutron and density porosity. Along the left-hand side are the same symbols from page 13, depicting the proposed injection zone (blue star), productive zone (green circle), and confining layers (yellow square).

10. The cross-section demonstrates that the target injection interval of the Lower Avalon (AVL), which is overlain by Upper Avalon (AVU) carbonate unit and underlain by First Bone Spring Upper (FBU), has consistent thickness and lithology across the Project Area. Similarly, the Second Bone Spring Upper (SBU), which is overlain by First Bone Spring Lower (FBL) and underlain by the Second Bone Spring Lower (SBL), also has consistent thickness and lithology across the Project Area. Moreover, the cross-section shows that the thickness and lithology characterized as confining layers are consistent throughout the project area..

11. **Chevron Exhibit A** at PDF Page 30 is a gun-barrel reference map for the following page. It shows the injection wells, along with Chevron's Morgan wells, third-party wells within a 1/4-mile of the injection wells, and gun barrel cross-section references from A-A', B-B' and C-C'. On the following page at PDF page 31, gun-barrel views depict the landing zone for each proposed CLGC well and the approximate vertical and horizontal offset between each well completed in the Lower Avalon and Second Bone Spring Upper intervals, including third party wells.

12. **Chevron Exhibit A** at PDF page 32 depicts a depth structure map on the top of the Lower Avalon proposed injection interval. The structural contours indicate a consistent dip of approximately 0.5-1 degrees to the southeast. There is no evidence of faulting or stratigraphic absence of this interval across the project area.

13. **Chevron Exhibit A** at PDF page 33 depicts a thickness map for the Lower Avalon storage zone measured from the top of the Lower Avalon to the top the of the First Bone Spring Upper. Within the proposed CLGC Project Area the thickness range varies from 500 feet to 600 feet. There is no evidence for pinch out or stratigraphic absence of the storage zone.

14. **Chevron Exhibit A** at PDF page 34 depicts a depth structure map on the top of the Second Bone Spring Upper proposed injection interval. The structural contours indicate a

consistent dip of approximately 0.5-1 degrees to the southeast. There is no evidence of faulting or stratigraphic absence of this interval across the project area.

15. **Chevron Exhibit A** at PDF page 34 depicts a thickness map for the Second Bone Spring Upper storage zone measured from the top of the Second Bone Spring Upper to the top the of the Second Bone Spring Lower. Within the proposed CLGC Project Area the thickness range varies from 450 feet to 500 feet. There is no evidence for pinch out or stratigraphic absence of the storage zone.

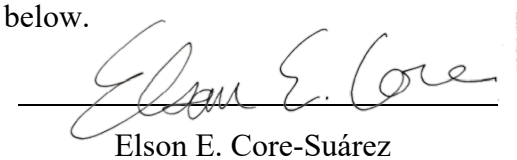
16. My analysis concludes that the targeted intervals within the Bone Spring formation and in this area are suitable for the proposed CLGC injection and that there are geologic barriers that will contain the proposed injection within the Bone Spring formation.

17. In my analyses, I have examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water. *See* **Chevron Exhibit A** at PDF page 68.

18. In my opinion, approving the application in this case is in the best interests of conservation, prevention of waste, and protection of correlative rights.

19. **Chevron Exhibit C-1** was either prepared by me or compiled under my direction and supervision.

20. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.



Elson E. Core-Suárez

9/5/2024
Date

Elson E. Core Suárez
(785) 304-1428 • elsoncore@icloud.com • elsoncore@chevron.com

EDUCATION

Master of Science, Geology, University of Kansas — Fall 2023
Topic: "Heterozoan-Photozoan Carbonate Systems: Developing Predictive Sequence Stratigraphy and Sedimentologic Models for Exploration and Reservoir Characterization"

Master of Science, Geology, University of Puerto Rico, Mayagüez — Spring 2015
Thesis Title: "High Resolution Sequence Stratigraphy of Neogene, Mixed Carbonate-Siliciclastic System, Los Haitises National Park, Northeast Dominican Republic"

Bachelor of Science, Geology, University of Puerto Rico, Mayagüez — Spring 2012
Undergraduate Research Title: "Stratigraphic Analysis of the Ponce Limestone Exposed at El Tuque, Ponce, Puerto Rico"

WORK EXPERIENCE

Development Geologist, MCBU, Chevron — Spring 2024-Present
Unconventional development and operations in the Delaware Basin, West Texas

- Responsible for tracking and monitoring frac'ing activity in the Delaware Basin and providing geologic risk assessments for offset Fracture Driven Integration (FDI) mitigation.
- Responsible for providing geologic assessment on various Enhance Oil Recovery (EOR) projects.
- Technical proficiency in sedimentology, stratigraphy, reservoir characterization, petrophysical data analysis, and seismic interpretation of carbonate and mixed carbonate-siliciclastic systems.

WORK INTERNSHIP EXPERIENCE

Carbonate Stratigraphy and Reservoir Quality Prediction Chapter, CTC, Chevron — Summer 2022
Project title: Lower Jurassic Carbonate Platform Morphology and Characterization, Offshore Egypt
Mentors: Cody Miller and Daryll Green, Supervisor: Imelda Johnson

- 3D seismic interpretation, characterization, and evolution of Jurassic carbonate platform morphology.
- Constructed gross depositional models for Wadi El Natrun Formation utilizing seismic attributes and depositional analogs.
- Developed exploration play types in Wadi Natrun and recommendations to FEA- Egypt Team.

Carbonate Stratigraphy Team, Energy Technology Company, Chevron — Fall 2020
Project title: Flow Relevance for Tabular Platform Top Carbonate Cycles, Lawyer Canyon
Mentors: James Bishop and Elena Sapozhnikov, Supervisor: Imelda Johnson

- Evaluated flow relevance for tabular platform top carbonate cycles, using San Andres Formation outcrops.
- Constructed a suite of Petrel models using airborne LiDAR surfaces, measured section facies logs, short cores, and a suite of porosity and permeability measurements.
- Tested models by systematically varying input parameters and tested the relevance for fluid flow using Petrel flow diagnostics.

RESEARCH EXPERIENCE

Graduate Research Assistant, Kansas Geological Survey, University of Kansas — Fall 2015-Spring 2018

- Assist with research in sedimentology and sequence stratigraphy of carbonate systems in the Caribbean region.

- Develop predictive sequence stratigraphy, sedimentologic, and reservoir characterization models.

Research Assistant, National Geological Survey, Dominican Republic Summer 2014

Topic: "Paleoclimate studies in Lago Enriquillo, Dominican Republic".

- Duties included geological reconnaissance, assistance with field work logistics and safety issues, collecting fossil coral samples, and cutting slabs of samples.

Research Assistant, Jose A. Morales, M.S., University of Puerto Rico, Mayagüez Summer 2012

Topic: "Geochemistry of Holocene reef complex in Caña la Honda, Dominican Republic".

- Duties included geological reconnaissance, assistance with field logistics and safety issues, collecting fossil coral samples, cutting slabs of samples.

Research Assistant, Diana Ortega-Ariza, Ph.D., University of Kansas Summer 2011

Topic: "Sequence stratigraphy and quantitative sea-level history of Miocene-Pliocene carbonate systems: A global perspective with a focus in the Caribbean".

- Duties included measuring stratigraphic sections, collecting location and elevation data using GPS and topographic maps, rock sample collection, and logistics support.

Research Assistant, Alejandra Rodríguez Delgado, M.S., University of Kansas Summer 2010

Thesis Topic: "Geology of Mona Island, Puerto Rico"

- Duties included geological reconnaissance, making trails through dense vegetation, and rock sample collection.

TEACHING EXPERIENCE

Geology Lecturer, Geoscience Program, Johnson County Community College Spring 2022

- Develop teaching materials prepare and deliver lectures.
- Evaluate and grade examinations, assignments, or papers and record grades.

Graduate Teaching Assistant, Department of Geology, University of Kansas Fall 2018-Spring 2020

- Assist faculty members with teaching undergraduate courses.
- Develop teaching materials prepare and deliver lectures.
- Evaluate and grade examinations, assignments, or papers and record grades.

Graduate Teaching Assistant, Dept. of Geology, Univ. of Puerto Rico, Mayagüez Fall 2013-Spring 2015

- Assist faculty members with classroom instruction, exams, and record keeping.
- Prepare and deliver lectures, grade examinations, assignments, or papers, and record grades.

WORKSHOPS AND FIELD COURSES ATTENDED

Petrel: Fundamentals & Geophysics at University of Kansas, Fall 2015
Instructor: Remington Leger, Schlumberger

Petrel: Reservoir Engineering at the University of Kansas, Fall 2015
Instructor: Alejandro Vazquez Martinez, Schlumberger

Miocene-Pliocene Carbonate Complexes of the Cabo de Gata Region, SE Spain, Spring 2013
Instructors: Dr. Evan K. Franseen and Dr. Robert H. Goldstein, University of Kansas

Modern Carbonates of the Florida Keys and the Bahamas, Summer 2012
Instructors: Dr. Paul Enos and Dr. Gene Rankey, University of Kansas

Evaluating Controls on Carbonate Stratigraphic Sequences: A Field-based Approach, Summer 2011
Instructors: Dr. Evan K. Franseen and Dr. Diana Ortega-Ariza, University of Kansas

PEER-REVIEWED PUBLICATIONS

Viñola-Lopez, L. W., **Core, E. E.**, Vélez-Juarbe, J., Almonte Milan, J. N. and Bloch, J. I., 2022, The oldest known record of a ground sloth (Mammalia, Xenarthra, Folivora) from Hispaniola: evolutionary and paleobiogeographical implications, Journal of Paleontology. Cambridge University Press, 96(3), pp. 684-691. doi: 10.1017/jpa.2021.109.

Ortega-Ariza, D., Franseen, E.K., Santos H., Ramírez R.W., and **Core, E.E.**, 2015, Strontium-isotope stratigraphy for Oligocene-Miocene carbonate systems in Puerto Rico and The Dominican Republic: Implications for Caribbean processes affecting depositional history, The Journal of Geology, Vol. 123, pp. 539-560.

PEER-REVIEWED PUBLISHED ABSTRACTS

Core, E.E. and Franseen, E.K., 2021, Controls on Porosity and Permeability in a Grainy Heterozoan-Large Benthic Foraminifera-Siliciclastic Reservoir Analog, Miocene, Dominican Republic: Abstract and Online Poster Presentation. International Meeting for Applied Geosciences and Energy (IMAGE), Abstracts with Program, Denver, Colorado, Online Presentation.

Core, E.E. and Franseen, E.K., 2019, The Role of Variable Paleotopography and Upwelling on Deposition of Oligocene Mixed Heterozoan-Large Benthic Foraminifera-Coral Sequences, Jamaica: Abstract. In Am. Assoc. Pet. Geol. ACE, Abstracts with Program, San Antonio, Texas, p. 153.

Core, E.E. and Franseen, E.K., 2018, Depositional and Reservoir Character of Mixed Heterozoan-Large Benthic Foraminifera-Siliciclastic Sequences, Middle Miocene, Dominican Republic: Abstract. In Am. Assoc. Pet. Geol. ACE, Abstracts with Program, Salt Lake City, Utah, p. 122.

Core, E.E. and Franseen, E.K., 2017, Developing Predictive Sequence Stratigraphic & Sedimentologic Models for Exploration and Reservoir Characterization of Miocene Mixed Heterozoan- Photozoan Ramp Systems in Tropical Settings: Abstract. In Am. Assoc. Pet. Geol. Annual Convention and Exhibition, Abstracts with Program, Houston, TX, p. 142.

Core, E.E., Ramirez, W.R., Santos, H., Ortega-Ariza, D., and Franseen, E.K., 2016, Miocene-Pliocene Heterozoan-Dominated Systems in the Dominican Republic: Analogs for Neogene Reservoirs in the Caribbean. Abstract. In Am. Assoc. Pet. Geol. Annual Convention and Exhibition, Abstracts with Program, Calgary, Albeda, Canada, p. 135.

Core, E.E., Ortega-Ariza, D.L., Franseen, E.K., Ramírez, W.R., Santos, H., 2015, High Resolution Sequence Stratigraphy of Neogene, Mixed Carbonate-Siliciclastic System, Los Haitises National Park, Northeast Dominican Republic. In P.F. Gómez-Ramírez, C.M. Rodríguez-Peña and Sixto J. Incháustegui (Eds.) Programa y libro de resúmenes del XI Congreso Internacional de Investigación Científica Santo Domingo, República Dominicana, p. 220.

Core, E.E., Ramírez, W.R., Santos, H., 2014, Stratigraphy, Absolute Age, and Relative Sea-level History of Mixed Carbonate and Siliciclastics Sequences at Northeastern Dominican Republic. In P.F. Gómez-Ramírez, C.M. Rodríguez-Peña and Sixto J. Incháustegui (Eds.) Programa y libro de resúmenes del X Congreso Internacional de Investigación Científica Santo Domingo, República Dominicana, pp. 78-79.

Core, E.E., Ramírez, W.R., Santos, H., 2014, Stratigraphy, Absolute Age, and Relative Sea-level History of Mixed Carbonate and Siliciclastics Sequences at Northeastern Dominican Republic. Poster at the 34th Puerto Rico Interdisciplinary Scientific Meeting, University of Puerto Rico at Cayey, March 29, 2014.

INVITED PRESENTATIONS

Core, E.E., and Franseen, E.K., 2021, Controls on Porosity and Permeability in a Grainy Heterozoan-Large Benthic Foraminifera-Siliciclastic Reservoir Analog, Miocene, Dominican Republic: Latest Results: Kansas Interdisciplinary Carbonates Consortium (KICC) 2021 Annual Meeting, Lawrence, Kansas.

Core, E.E., and Franseen, E.K., 2020, Controls on Porosity and Permeability in a Grainy Heterozoan-Large Benthic Foraminifera-Siliciclastic Reservoir Analog: Miocene, Dominican Republic: Kansas Interdisciplinary Carbonates Consortium (KICC) 2020 Annual Meeting, Lawrence, Kansas.

Core, E.E., and Franseen, E.K., 2019, The Role of Variable Paleotopography and Upwelling on Deposition of Oligocene Mixed Heterozoan-Large Benthic Foraminifera-Coral Sequences, Jamaica: Kansas Interdisciplinary Carbonates Consortium (KICC) 2019 Annual Meeting, Lawrence, Kansas.

Core, E.E., and Franseen, E.K., 2018, Not Just a Regional Ramp System: The Role of Variable Paleotopography on Late Oligocene and Miocene Heterozoan-Large Benthic Foraminifera-Coral Sequences, Jamaica: Kansas Interdisciplinary Carbonates Consortium (KICC) 2018 Annual Meeting, Lawrence, Kansas.

Core, E.E., and Franseen, E.K., 2017, Sea Level and Paleotopographic Controls on Mixed Heterozoan-Large Benthic Foraminifera-Siliciclastic Sequences in a Tropical Setting, Middle Miocene, Dominican Republic: Kansas Interdisciplinary Carbonates Consortium (KICC) 2017 Annual Meeting, Lawrence, Kansas.

Core, E.E., Ramirez, W.R., Santos-Mercado, H., Ortega-Ariza, D., and Franseen, E.K., 2016, Miocene-Pliocene Heterozoan-Dominated Systems in the Dominican Republic: Analogs for Neogene Reservoirs in the Caribbean: Kansas Interdisciplinary Carbonates Consortium (KICC) 2016 Annual Meeting, Lawrence, Kansas.

Franseen, E.K., and Core, E.E., Heterozoan Carbonate Systems: Developing Predictive Sequence Stratigraphy and Sedimentologic Models for Exploration and Reservoir Characterization: Caribbean Team, Repsol Services Company, Houston, TX., December 2015.

SKILLS AND TRAINING

- Knowledge of Petra and Petrel reservoir modeling software
- Knowledge of CVX Petrel plug-in Depletion Diagnostics Tool (DDT) and interpretation
- Knowledge of Fluid-Flow Diagnostics analyses in carbonate reservoirs
- Experience with IHS Kingdom Suite: seismic and geological interpretation software
- Experience with DionisosFlow: dynamic stratigraphic modeling software
- Skilled in the interpretation of well-logs and seismic lines
- Petrographic thin section laboratory preparation
- Trained in water quality probes, (installation, operation, calibration, and maintenance)
- Basic knowledge of GIS software and GPS data processing
- Knowledge in graphic programs, (Canvas, Illustrator, and Photoshop)
- Bilingual in speaking, reading, and writing (Spanish and English)
- Certified in rappelling and climbing rescue
- Certified PADI open water scuba diving

RELEVANT COURSES

- Geological Well-log Analysis, Instructor: John Doveton, KU
- Terrigenous Depositional Systems, KU
- Petroleum & Subsurface Geology, KU

- Intermediate Geographical Info Systems (GIS), KU
- Carbonate Sequence Stratigraphy & Modeling, KU
- Petroleum and Subsurface Geology, Instructor: Anthony Walton, KU
- Deep Water Systems, Instructors: Bradford Prather and Diane Kamola, KU
- Source to Sink Dispersal, Instructor: Michael Blum, KU
- Controls on Porosity Types and Distribution in Carbonate Reservoirs, Instructor: Gene Rankey, KU
- Seismic Sequence Stratigraphy and Well-log Interpretation, Instructor: Hernan Santos, UPR-Mayagüez

AWARDS AND GRANTS

- KU Department of Geology, Roscoe G. Jackson II Graduate Research Award, Summer 2021
- KU Department of Geology, Devon Energy Scholarship. Summer 2020
- KU Department of Geology, Devon Energy Scholarship. Summer 2019
- Lee C. and Darcy Gerhard, Field Research Student Award. Spring 2018
- IAS Postgraduate Grant Scheme for Ph.D. research work. Summer 2017
- AAPG Foundation Grant-in-Aid for Ph.D. research work. Spring 2017
- SEPM Foundation Student Research Grant for Ph.D. research work. Spring 2017
- Kansas Geological Foundation Grant for Ph.D. research work. Summer 2016
- SEPM Travel Grant for AAPG ACE Calgary, Alberta, Canada. Summer 2016
- Exxon/Mobile Diversity Grant for Masters research fieldwork. Summer 2013
- Exxon/Mobile Diversity Award for Educational Field Trip to Las Negras (Almeria), Spain. Spring 2013
- Exxon/Mobile Diversity Grant for Masters research fieldwork. Summer 2012
- Exxon/Mobile Diversity Award for Educational Field Trip to the Florida Keys and Bahamas. May 2012

INTERNAL AND EXTERNAL COMMITTEE SERVICE

- Member- Society for Sedimentary Geology (SEPM) Election Committee. Fall 2018
- Member- Society for Sedimentary Geology (SEPM) Election Committee. Fall 2016

AFFILIATIONS

- SEPM (Society for Sedimentary Geology)
- American Association of Petroleum Geologists
- Society of Exploration Geophysicists
- International Association of Sedimentologists
- Geological Society of America

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

SELF-AFFIRMED STATEMENT OF YULA TANG

1. My name is Yula Tang and I am employed by Chevron U.S.A. Inc. ("Chevron") as a reservoir engineer.

2. I have previously testified before the New Mexico Oil Conservation Division as an expert in reservoir engineering and have had my credentials accepted by the Division as a matter of record.

3. I am familiar with the application filed by Chevron in this case and the Division guidance regarding closed loop gas capture injection ("CLGC") projects, such as this one.

4. The CLGC project will inject produced gas into the Pilot Project's horizontal wells and into the productive zones of the Lower Avalon and Second Bone Spring intervals within the Bone Spring formation. My reservoir engineering colleagues and I have conducted an engineering study of the target injection zones to evaluate the potential effects of the proposed temporary injection on the reservoir and future production within the target intervals, as well as to confirm that target inject zones are capable of accepting the volumes and rates of produced gas proposed and that the injected produced gas will be recovered. The conclusions I have drawn from the analyses are summarized in **Chevron Exhibit A** at PDF pages 36-49.

5. **Chevron Exhibit A** at PDF page 36 provides an overview of the analysis to confirm the proposed injection rate of 5 MMSCFD can be attained within a maximum surface

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. D
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

injection pressure of 1,250 psi. We applied hydraulic fracture and reservoir modeling techniques using a Horizontal Well Multi-Fracture (HLMF) numerical model that was history matched to evaluate the potential range of acceptable injection rates with a maximum wellhead injection pressure of 1,250 psi. The chart on the bottom left shows the pressure along the wellbore during injection, including flowing bottom hole pressure (FBHP), based on Chevron's proposed injection volumes and maximum wellhead injection pressure rate of 1,250 psi. The diagram shows that after an injection event, the estimated FBHP for the Avalon is 1,870 psi and the Second Bone Spring is 1,980 psi. This shows the maximum bottom hole pressure achievable for wells within each target interval while staying within the maximum surface injection pressure limit of 1,250 psi.

6. As expected, the modeling suggests that the more the CLGC well has been depleted through production, the higher the possible injection rate that can be achieved in that well. It also indicates that the longer an injection event lasts, the lower the injection rate that can be achieved.

7. **Chevron Exhibit A** at PDF page 37 provides an overview of the analysis evaluating the potential volumes of gas that can be injected into each target injection zone within the maximum surface injection pressure limit. We looked at a total injection duration of 15 days which corresponds to the maximum gas takeaway interruption we would expect. With 5 MMSCFD of injection, the injection volumes range from 5-75 MMSCF per CLGC well for 1-15 days of injection. With four initial CLGC wells that are the most depleted (and with the highest gas-to-oil, or GOR, ratio), the proposed pilot project would be able to injection between 20-300 MMSCF. Evaluating the time to recover injected volumes, our analysis indicates that 100% gas recovery will occur in less than two days for a one-day injection event in the Lower Avalon and up to 30 days for a 15-day injection event in the Second Bone Spring Upper.

8. As noted, our analysis confirms that the more depleted a CLGC well is through production, the better suited that well is for CLGC injection. **Chevron Exhibit A** at PDF page 38 provides our analysis identifying the four most depleted wells, highlighted in yellow, among the proposed CLGC wells in the pilot project. These wells have the lowest flowing bottom hole pressures, the highest GORs, and the lowest oil production rates, indicating that they are the most depleted. They are ready to serve as CLGC injection wells as of May 2024 and will be able to accept approximately 5 MMSCFD each (a total of 20 MMSCFD), thereby allowing the other 11 pilot project wells to continue producing during a midstream upset. The chart in the exhibit provides our estimate for when each well in the pilot project will be depleted enough to serve as a CLGC well for injection during midstream takeaway upset events.

9. **Chevron Exhibit A** at PDF page 39 provides a different representation of the same analysis, showing that four wells are ready for CLGC injection—(1) DL 4 33 Loch Ness Federal Com #6H (API No. 30-025-46646); (2) DL 10 3 Kraken Fed Com #207H (API No. 30-025-49078); (3) DL 9 16 Loch Ness Federal Com #17H (API No. 30-025-46648); and (4) DL 9 16 Loch Ness Federal Com #18H (API No. 30-025-46649)—and the expected timeframe for the other 11 CLGC wells to be depleted enough to serve as CLGC injection wells. The DL 10 3 Kraken Fed Com #208H (API No. 30-025-49079); DL 10 3 Kraken Fed Com #209H (API No. 30-025-49080); DL 9 16 Loch Ness Federal Com #16H (API No. 30-025-46647); and the DL 15 22 Narwhal Fed Com #221H (API No. 30-025-49083) are already depleted enough to serve as CLGC injectors.

10. **Chevron Exhibit A** at PDF page 40-41 shows the model used with a history match to forecast injection and gas recovery following CLGC injection events for a well in the Lower Avalon and Second Bone Spring Upper. Our numerical model inputs are based on Rate Transient Analysis (RTA) that has been tuned with a history match. The model on PDF page 40 utilizes an

Avalon well (DL Loch Ness 6H), while the model on page 41 utilizes a Second Bone Spring Upper well (DL Ogopogo 422H). RTA is a modern reservoir modeling tool used to understand the capacity of the reservoir and fluid flow within the reservoir. RTA analysis is based on a number of factors, including both fluid rates and flowing pressures

11. The model shows that injected gas in the Lower Avalon will be recovered in a few weeks following an injection event, as indicated by the high GOR spike, with only a small spike in the bottom hole pressure during injection. As indicated in the forecast and noted in the prior exhibits, the Second Bone Spring Upper wells are relatively new and require additional time to produce to sufficiently deplete the formation to serve as CLGC injection wells. Accordingly, the model forecasted injection occurring in 2027; but, as with the Lower Avalon wells, once the reservoir has been sufficiently depleted, injected gas is expected to be recovered within a few weeks as indicated by the spike in the GOR curves.

12. In addition to confirming the proposed volumes and rates are appropriate, we also evaluated the potential horizontal movement of injected gas to confirm it will stay near the wellbore and is not expected to migrate into the formation matrix or to communicate with offsetting wells. **Chevron Exhibit A** at PDF page 42 is a summary of a multi-well simulation we prepared to evaluate whether there is expected to be any interference between CLGC wells following an injection event. Based on RTA and our numerical model, the fractures in each CLGC well do not connect or communicate with offsetting wells. The fracture half-length is less than 350 feet, while the distance between wells is 880 feet. **Chevron Exhibit A** at PDF pages 43-44 provide backup confirming the analysis through both an RTA and an unconventional resource model.

13. **Chevron Exhibit A** at PDF page 45 shows that the calculated stimulated rock volume (SRV) in the Lower Avalon is approximately 60 BCF with only about 9 BCF gas

remaining in the formation (resulting in a calculated gas saturation of about 15% within the SRV). That means injection of 5 MMSCFD for 15 days (the expected maximum duration of an injection event) in the Lower Avalon will contribute less than about 1% of the total volume of gas remaining in the SRV and well below the total calculated SRV within the formation. In sum, the RTA and numerical analysis shows consistent modeling for the proposed injection volumes, with only a slight increase to bottom hole pressure (BHP). The exhibit shows that outputs from different models are all consistent, indicating the conclusions are reasonable.

14. With such a relatively minor volume of injected gas, it is expected injection will have little impact on the reservoir or future production in either the Lower Avalon or the Second Bone Spring Upper. **Chevron Exhibit A** at PDF pages 46-49 confirms that assumption using a numerical model with injection of 5 MMSCF/day for 5 days, repeated every 2 months over a two-year period. The synthetic curve analysis shows low-pressure injections have no adverse effects to the reservoir or to production over the life of the wells. Keeping SRV pressure below miscible pressure does not change fluid pressure-volume-temperature (PVT) of liquids in the reservoir. The results indicate that no adverse effects are expected in either target injection zone.

15. **Chevron Exhibit A** at PDF page 50 addresses Chevron's proposed gas accounting methodology and gas recovery timelines based on reservoir simulation modeling and includes an example. Chevron proposes to use a mass balance methodology for injection events that last fewer than 7 days and the GOR analysis the Division has previously approved for CLGC pilot projects for injection events that last 7 days or more. As an example, under the mass balance method, or "first-in, first-out," following an injection event that lasts one day and injects 5 MMSCF, the first 5 MMSCF produced following an injection are accounted for as reinjected produced gas, and additional gas produced in excess of that volume is considered native gas. Under the GOR

approach, a pre-injection GOR baseline is defined. The native gas is then calculated by taking the product of the baseline GOR and multiplying times the oil production post injection event. Reinjected gas is defined as the difference between the total produced gas and the calculated native gas. Under the GOR approach, the reinjected gas will be recovered within approximately 20 days.

16. For short duration injection events—fewer than 7 days—a mass balance approach is a fair and reasonable methodology to account for the injected produced gas and native gas following an injection event and will protect correlative rights. For longer duration injection events, a GOR analysis is appropriate.

17. In conclusion, because the proposed project is low pressure injection for short durations, the resulting planned injection volumes are small compared to the produced volumes, resulting in a slight pressure increase during an injection event, as confirmed by Chevron's modeling discussed above.

18. In my analyses, I have examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water. *See* **Chevron Exhibit A** at PDF page 68.

19. I have also determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the pilot project and that the gas composition of the injected gas will not damage the reservoir. *See* **Chevron Exhibit A** at PDF page 69.

20. It is my opinion that the targeted intervals within the Bone Spring formation in this area are suitable for the proposed CLGC injection and that approving the application is in the best interests of conservation, prevention of waste, and protection of correlative rights.

21. **Chevron Exhibit A** at PDF pages 36-49 were either prepared by me or compiled under my direction and supervision.

22. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

Yula Tang

9/6/2024
Date

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

APPLICATION OF CHEVRON U.S.A. INC. FOR A CLOSED LOOP GAS CAPTURE PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 24794

SELF-AFFIRMED STATEMENT OF ADAM G. RANKIN

1. I am attorney in fact and authorized representative of Chevron U.S.A, Inc., ("Chevron"), the Applicant herein. I have personal knowledge of the matter addressed herein and am competent to provide this self-affirmed statement.

2. The above-referenced application and notice of the hearing on this application was sent by certified mail to the locatable affected parties on the date set forth in the letter attached hereto.

3. The spreadsheet attached hereto contains the names of the parties to whom notice was provided.

4. The spreadsheet attached hereto contains the information provided by the United States Postal Service on the status of the delivery of this notice as of August 29, 2024.

5. I caused a notice to be published to all parties subject to this proceeding. An affidavit of publication from the publication's legal clerk with a copy of the notice publication is attached herein.

6. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. E
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

Adam G. Rankin

September 4, 2024
Date

Holland & Hart

Paula M. Vance
Associate
Phone (505) 988-4421
Email pmvance@hollandhart.com

August 23, 2024

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Application of Application of Chevron U.S.A. Inc. for a Closed Loop Gas Capture Injection Pilot Project, Lea County, New Mexico.

Ladies & Gentlemen:

This letter is to advise you that Chevron U.S.A. Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on September 12, 2024, and the status of the hearing can be monitored through the Division's website at https://www.emnrd.nm.gov/ocd/.

It is anticipated that hearings will be held in a hybrid format with both in-person and virtual participation options. The meeting will be held in the Pecos Hall Hearing Room at the Wendall Chino Building, 1st Floor, 1220 South St. Francis Dr., Santa Fe, New Mexico. To participate virtually in the hearing, see the instructions posted on the OCD Hearings website: https://www.emnrd.nm.gov/ocd/hearing-info/.

You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date. Parties appearing in cases are required to file a Pre-hearing Statement four business days in advance of a scheduled hearing that complies with the provisions of NMAC 19.15.4.13.B.

If you have any questions about this matter, please contact Victor Torrealba at (832) 993-2544 or victortorrealba@chevron.com.

Sincerely,

Paula M. Vance
ATTORNEY FOR CHEVRON U.S.A. INC.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482552305	Advance Energy Partners Hat Mesa, LLC	5400 Lbj Fwy Ste 1500	Dallas	TX	75240-1017	Your item was delivered to an individual at the address at 2:20 pm on August 26, 2024 in DALLAS, TX 75240.
9402811898765482552398	Alan Jochimsen	4209 Cardinal Ln	Midland	TX	79707-1935	Your item was delivered to an individual at the address at 1:45 pm on August 26, 2024 in MIDLAND, TX 79707.
9402811898765482552343	Antelope Energy Company LLC	PO Box 577	Kimball	NE	69145-0577	Your item was picked up at the post office at 10:43 am on August 28, 2024 in KIMBALL, NE 69145.
9402811898765482552381	Bureau of Land Management	PO Box 25627	Denver	CO	80225-0627	Your item was picked up at a postal facility at 10:00 am on August 26, 2024 in DENVER, CO 80225.
9402811898765482552336	Bureau of Land Management	620 E Greene St	Carlsbad	NM	88220-6292	Your item was delivered to the front desk, reception area, or mail room at 1:38 pm on August 26, 2024 in CARLSBAD, NM 88220.
9402811898765482552015	C Mark Wheeler	PO Box 248	Round Rock	TX	78680-0248	Your item has been delivered and is available at a PO Box at 6:48 am on August 26, 2024 in ROUND ROCK, TX 78680.
9402811898765482552060	Chad Barbe	PO Box 2107	Roswell	NM	88202-2107	Your item was picked up at the post office at 1:04 pm on August 27, 2024 in ROSWELL, NM 88201.
9402811898765482552008	Charis Royalty F LP	PO Box 470158	Fort Worth	TX	76147-0158	Your item has been delivered and is available at a PO Box at 10:30 am on August 26, 2024 in FORT WORTH, TX 76147.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482552046	Chevron USA Inc	PO Box 4791	Houston	TX	77210-4791	Your item has been delivered and is available at a PO Box at 10:24 am on August 27, 2024 in HOUSTON, TX 77002.
9402811898765482552039	Chisos Minerals LLC	PO Box 731112	Dallas	TX	75373-1112	Your item has been delivered and is available at a PO Box at 7:30 pm on August 26, 2024 in DALLAS, TX 75373.
9402811898765482552411	Cimarex Energy Co.	6001 Deauville Ste 300N	Midland	TX	79706-2671	Your item was delivered to an individual at the address at 12:07 pm on August 27, 2024 in MIDLAND, TX 79706.
9402811898765482552466	Civitas Permian Operating LLC	555 17th St Ste 3700	Denver	CO	80202-3906	Your item was delivered to the front desk, reception area, or mail room at 1:34 pm on August 26, 2024 in DENVER, CO 80202.
9402811898765482552404	Civitas Resources	555 17th St Ste 3700	Denver	CO	80202-3906	Your item was delivered to the front desk, reception area, or mail room at 1:33 pm on August 26, 2024 in DENVER, CO 80202.
9402811898765482552480	CML Exploration LLC	PO Box 841738	Dallas	TX	75284-1738	Your item has been delivered and is available at a PO Box at 9:28 pm on August 26, 2024 in DALLAS, TX 75284.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482552473	COG Operating LLC	600 W Illinois Ave	Midland	TX	79701-4882	We were unable to deliver your package at 9:08 am on August 26, 2024 in MIDLAND, TX 79701 because the business was closed. We will redeliver on the next business day. No action needed.
9402811898765482552510	ConocoPhillips	600 W Illinois Ave	Midland	TX	79701-4882	Your item was picked up at a postal facility at 7:56 am on August 27, 2024 in MIDLAND, TX 79701.
9402811898765482552558	Cornerstone Family Trust John Kyle Thoma	PO Box 558	Peyton	CO	80831-0558	Your item has been delivered and is available at a PO Box at 8:14 am on August 26, 2024 in PEYTON, CO 80831.
9402811898765482552565	Coyanosa Royalties LLC	1801 Broadway Ste 1550	Denver	CO	80202-3842	Your item was delivered to the front desk, reception area, or mail room at 4:16 pm on August 26, 2024 in DENVER, CO 80202.
9402811898765482552527	Crownrock Minerals L P	PO Box 51933	Midland	TX	79710-1933	Your item was picked up at a postal facility at 10:24 am on August 26, 2024 in MIDLAND, TX 79705.
9402811898765482552503	Devon Energy Production Company	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your item has been delivered and is available at a PO Box at 11:49 am on August 26, 2024 in OKLAHOMA CITY, OK 73102.
9402811898765482552596	Devon Energy Production Company, LP	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your item has been delivered and is available at a PO Box at 11:49 am on August 26, 2024 in OKLAHOMA CITY, OK 73102.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482552541	DG Royalty LLC	110 N Marienfeld St Ste 200	Midland	TX	79701-4412	Your item was delivered to an individual at the address at 2:59 pm on August 26, 2024 in MIDLAND, TX 79701.
9402811898765482552589	E Cecile Martin	PO Box 302529	Austin	TX	78703-0043	Your item arrived at the AUSTIN, TX 78705 post office at 5:14 pm on August 26, 2024 and is ready for pickup.
9402811898765482552572	EOG Resources Inc	5509 Champions Dr	Midland	TX	79706-2843	Your item was picked up at a postal facility at 8:52 am on August 26, 2024 in MIDLAND, TX 79701.
9402811898765482550219	EOG Resources Inc	PO Box 840321	Dallas	TX	75284-0321	Your item has been delivered and is available at a PO Box at 9:28 pm on August 26, 2024 in DALLAS, TX 75284.
9402811898765482550264	Freddie Jean WheelerMary Helen Johnson Poa	1000 Cordova Pl PMB 454	Santa Fe	NM	87505-1725	Your item was delivered to an individual at the address at 9:18 pm on August 26, 2024 in SANTA FE, NM 87505.
9402811898765482550226	Hurt Properties LP	PO Box 1927	Abingdon	VA	24212-1927	Your item was picked up at the post office at 11:13 am on August 27, 2024 in ABINGDON, VA 24210.
9402811898765482550295	Jaft Investments, LLC	5308 Quicksand Cv	Midland	TX	79707-3142	Your item was delivered to an individual at the address at 3:22 pm on August 26, 2024 in MIDLAND, TX 79707.
9402811898765482550240	James R Hurt	PO Box 72	Odessa	TX	79760-0072	Your item was picked up at a postal facility at 12:05 pm on August 26, 2024 in ODESSA, TX 79761.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482550288	Jareed Partners Ltd	PO Box 51451	Midland	TX	79710-1451	Your item was picked up at a postal facility at 11:07 am on August 28, 2024 in MIDLAND, TX 79705.
9402811898765482550233	Jkm Energy LLC	26 E Compress Rd	Artesia	NM	88210-9215	Your item was delivered to an individual at the address at 12:31 pm on August 26, 2024 in ARTESIA, NM 88210.
9402811898765482550271	Kaiser-Francis Oil Co	PO Box 21468	Tulsa	OK	74121-1468	Your item was delivered to an individual at the address at 5:50 am on August 27, 2024 in TULSA, OK 74103.
9402811898765482550813	Marathon Oil Permian LLC	306 W Wall St	Midland	TX	79701-5100	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765482550851	Marathon Oil Permian LLC	990 Town And Country Blvd Fl 11	Houston	TX	77024-2217	Your item was delivered to the front desk, reception area, or mail room at 1:40 pm on August 28, 2024 in HOUSTON, TX 77024.
9402811898765482550868	Marshall & Winston Inc	PO Box 50880	Midland	TX	79710-0880	Your item was picked up at a postal facility at 10:20 am on August 26, 2024 in MIDLAND, TX 79705.
9402811898765482550820	Matador Production Company	5400 Lyndon B Johnson Fwy Ste 1500	Dallas	TX	75240-1017	Your item was delivered to an individual at the address at 2:20 pm on August 26, 2024 in DALLAS, TX 75240.
9402811898765482550806	Matthews Properties LLC	26 E Compress Rd	Artesia	NM	88210-9215	Your item was delivered to an individual at the address at 12:31 pm on August 26, 2024 in ARTESIA, NM 88210.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482550899	Mcmullen Minerals LLC Attn William Malloy	PO Box 470857	Fort Worth	TX	76147-0857	Your item has been delivered and is available at a PO Box at 10:32 am on August 26, 2024 in FORT WORTH, TX 76147.
9402811898765482550882	Michael Stewart	3714 Mark Ln	Midland	TX	79707-4330	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765482550837	Monty D. Mclane & Karen R. Mclane	PO Box 9451	Midland	TX	79708-9451	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765482550875	Mustang Oil & Gas LLC	PO Box 412	Roswell	NM	88202-0412	Your item arrived at our USPS facility in OKLAHOMA CITY OK DISTRIBUTION CENTER on August 28, 2024 at 3:53 pm. The item is currently in transit to the destination.
9402811898765482550752	New Tex Oil Co	PO Box 297	Hobbs	NM	88241-0297	Your item was picked up at the post office at 11:46 am on August 26, 2024 in HOBBS, NM 88240.
9402811898765482550769	Office Of Natural Resources Revenue	PO Box 25627	Denver	CO	80225-0627	Your item was picked up at a postal facility at 9:36 am on August 26, 2024 in DENVER, CO 80225.
9402811898765482550707	Oxy USA Inc	PO Box 4294	Houston	TX	77210-4294	Your item has been delivered and is available at a PO Box at 9:21 am on August 28, 2024 in HOUSTON, TX 77210.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482550790	Patterson Petroleum LLC	PO Box 1416	Snyder	TX	79550-1416	Your item was delivered to an individual at the address at 10:53 am on August 27, 2024 in SNYDER, TX 79549.
9402811898765482550783	Paul R Barwis C/O Dutton Harris & Co	PO Box 230	Midland	TX	79702-0230	Your item arrived at the MIDLAND, TX 79702 post office at 12:19 pm on August 26, 2024 and is ready for pickup.
9402811898765482550738	Pegasus Resources LLC	PO Box 470698	Fort Worth	TX	76147-0698	Your item has been delivered and is available at a PO Box at 10:32 am on August 26, 2024 in FORT WORTH, TX 76147.
9402811898765482550776	Pico Canyon Properties, LLC	PO Box 132592	Spring	TX	77393-2592	Your item has been delivered and is available at a PO Box at 9:05 am on August 27, 2024 in SPRING, TX 77393.
9402811898765482550950	Raybaw Operating LLC	2626 Cole Ave Ste 300	Dallas	TX	75204-1094	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765482550967	RHR-711 LLC	316 Bailey Ave	Fort Worth	TX	76107-1828	The customer has requested that the Postal Service redeliver this item on August 29, 2024 in FORT WORTH, TX 76107.
9402811898765482550929	State Of New Mexico	PO Box 2308	Santa Fe	NM	87504-2308	Your item was picked up at a postal facility at 9:28 am on August 27, 2024 in SANTA FE, NM 87501.
9402811898765482550905	State Land Office	310 Old Santa Fe Trl	Santa Fe	NM	87501-2708	Your item was picked up at a postal facility at 7:42 am on August 27, 2024 in SANTA FE, NM 87501.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482550998	States Royalty Limited Partnership	PO Box 911	Breckenridge	TX	76424-0911	Your item was picked up at the post office at 9:45 am on August 27, 2024 in BRECKENRIDGE, TX 76424.
9402811898765482550943	Stryker Energy LLC C/O Jonathan Poche	PO Box 53448	Houston	TX	77052-3448	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765482550981	Tap Rock Minerals Lp	602 Park Point Dr Ste 200	Golden	CO	80401-9359	Your item was returned to the sender at 10:27 am on August 26, 2024 in GOLDEN, CO 80401 because the forwarding order for this address is no longer valid.
9402811898765482550936	The Family Trust U/W/O Richard Kevin Barr, Beverly Jean Renfro Barr, Trustee	804 Park Vista Cir	Southlake	TX	76092-4342	Your item was delivered to an individual at the address at 3:00 pm on August 26, 2024 in SOUTHLAKE, TX 76092.
9402811898765482550974	The Smith Family Irrevocable Trust James G Smith And Alyssa C Smtih, Co-Trustees U/A/D 2/20/2018	26750 McLaughlin Blvd	Bonita Springs	FL	34134-3843	Your item was delivered to an individual at the address at 1:06 pm on August 28, 2024 in BONITA SPRINGS, FL 34134.
9402811898765482550615	Wells Fargo Bank Na	101 N Phillips Ave	Sioux Falls	SD	57104-6738	Your item arrived at our SIOUX FALLS SD DISTRIBUTION CENTER destination facility on August 28, 2024 at 11:35 am. The item is currently in transit to the destination.
9402811898765482550653	Wing Resources VI LLC	2100 McKinney Ave Ste 1540	Dallas	TX	75201-2140	Your item was delivered to an individual at the address at 10:49 am on August 27, 2024 in DALLAS, TX 75201.

Chevron - CLGC Dagger Lake - Case no. 24794
Postal Delivery Report

9402811898765482550622	Wolfcamp Title LLC	PO Box 2423	Roswell	NM	88202-2423	Your item was picked up at the post office at 9:58 am on August 27, 2024 in ROSWELL, NM 88201.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
August 27, 2024
and ending with the issue dated
August 27, 2024.

Publisher

Sworn and subscribed to before me this 27th day of August 2024.

Business Manager

My commission expires
January 29, 2027
(Seal)

STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL NOTICE
August 27, 2024

Case No. 24794: Application of Chevron U.S.A. Inc. for a Closed Loop Gas Capture Injection Pilot Project, Lea County, New Mexico. Notice to all affected interest owners, including all heirs, devisees and successors of: Advance Energy Partners Hat Mesa, LLC; Alan Jochimsen Antelope Energy Company LLC; Bureau of Land Management; C. Mark Wheeler; Chad Barbe; Charis Royalty F LP; Chevron USA Inc.; Chisos Minerals LLC; Cimarex Energy Co.; Civitas Permian Operating LLC; Civitas Resources; CML Exploration LLC; COG Operating LLC; ConocoPhillips; Cornerstone Family Trust John Kyle Thoma; Coyanosa Royalties LLC; Crownrock Minerals LP; Devon Energy Production Company; Devon Energy Production Company, LP; DG Royalty LLC; E. Cecile Martin; EOG Resources Inc.; Freddie Jean Wheeler, Mary Helen Johnson POA; Hurt Properties LP; Jaft Investments, LLC; James R Hurt; Jareed Partners Ltd.; JKM Energy LLC; Kaiser-Francis Oil Co.; Marathon Oil Permian LLC; Marshall & Winston Inc.; Matador Production Company; Matthews Properties LLC; Mcmullen Minerals LLC Attn: William Malloy; Michael Stewart; Monty D. Mclane & Karen R. Mclane; Mustang Oil & Gas LLC; New Tex Oil Co.; Office Of Natural Resources Revenue; Oxy USA Inc.; Patterson Petroleum LLC; Paul R Barwis C/O Dutton Harris & Co.; Pegasus Resources LLC; Pico Canyon Properties, LLC; Raybaw Operating LLC; RHR-711 LLC; State Of New Mexico State Land Office; States Royalty Limited Partnership; Stryker Energy LLC C/O Jonathan Poche; Tap Rock Minerals LP; The Family Trust U/W/O Richard Kevin Barr, Beverly Jean Renfro Barr, Trustee; The Smith Family Irrevocable Trust U/A/D 2/20/2018, James G. Smith and Alyssa C. Smtih, Co-Trustees; Wells Fargo Bank NA; Wing Resources VI LLC; Wolfcamp Title LLC; Bypass Trust, Cynthia Wilso, Trustee; UTI Energy Corp.; Occidental Permian Limited Partnership. The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearing 8:30 a.m. on September 12, 2024, to consider this application. The hearing will be conducted in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To participate in the hearings electronically, see the instructions posted on the docket for the hearing date: https://www.emnrd.nm.gov/ocd/hearing-info/ or contact Freya Tschantz, at Freya.Tschantz@emnrd.nm.gov. Applicant in the seeks an order authorizing it to engage in a closed loop gas capture injection pilot project ("Pilot Project") in the Bone Spring formation within a 4,800-acre, more or less, project area consisting of the following acreage identified below in Lea County, New Mexico (the "Project Area"):

Township 21 South, Range 33 East
Section 33: All
Township 22 South, Range 33 East
Section 3: All
Section 4: All
Section 9: All
Section 10: All
Section 15: All
Section 16: E/2
Section 22: All

Applicant proposes to occasionally inject produced gas from the Bone Spring formation into the following producing wells to avoid temporary flaring of gas or the shut-in of producing wells during pipeline capacity constraints, mechanical difficulties, plant shutdowns, or other events impacting the ability to deliver gas into a pipeline:

- **DL 4 33 Loch Ness Federal Com #4H** (API No. 30-025-46644);
- **DL 4 33 Loch Ness Federal Com #5H** (API No. 30-025-46645);
- **DL 4 33 Loch Ness Federal Com #6H** (API No. 30-025-46646);
- **DL 9 16 Loch Ness Federal Com #16H** (API No. 30-025-46647);
- **DL 9 16 Loch Ness Federal Com #17H** (API No. 30-025-46648);
- **DL 9 16 Loch Ness Federal Com #18H** (API No. 30-025-46649);
- **DL 10 3 Kraken Fed Com #207H** (API No. 30-025-49078);
- **DL 10 3 Kraken Fed Com #208H** (API No. 30-025-49079);
- **DL 10 3 Kraken Fed Com #209H** (API No. 30-025-49080);
- **DL 15 22 Narwhal Fed Com #219H** (API No. 30-025-49081);
- **DL 15 22 Narwhal Fed Com #220H** (API No. 30-025-49082);
- **DL 15 22 Narwhal Fed Com #221H** (API No. 30-025-49083);
- **DL 10 15 Ogopogo Fed Com #422H** (API No. 30-025-49906);
- **DL 10 15 Ogopogo Fed Com #423H** (API No. 30-025-49907); and
- **DL 10 15 Ogopogo Fed Com #424H** (API No. 30-025-49908).

Chevron seeks authority to inject produced gas into the Lower Avalon and Second Bone Spring intervals of the Bone Spring formation along the horizontal portion of each wellbore at surface injection pressures of no more than 1,250 psi and a maximum injection rate of 6 MMSCF/day. The subject acreage is located approximately 24 miles west of Eunice, New Mexico.
#00293466

110 N GUADALUPE ST., STE. 1
SANTA FE, NM 87501

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. F
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

Revised DLKCLCG Halfmile AOR Tabulation of Well Data

Ref.	API	Current Operator	Lease Name and Well Number	Well Type	Status	Surface Location	Date Drilled	Completion Date	Csg Depth	Hole Size (in)	CSG Size (in)	Set At (ft) TOC - BOC	Sx Cmt	Method Determined	Completion Interval (ft)	Total Depth (MD)	TVD (TVDSS)	Current Pool	State	County
2	30025365830001	CHEVRON U S A INC	LIVESTOCK FEDERAL 9 2	Oil	Active	1450 FNL, 1950 FEL , 22S, 33E, 9 SW NE	4/3/2004	8/15/2004	15400'	17.5 12.250 8.750 6.125	Surface- 13.375 Intermediate- 9.625 Production- 7.0 Liner- 4.5 Tubing- 2.375	0' - 1132' 0' - 4645' 0' - 12120' 0' - 15400' 13645'	950 1250 1700 325	Circ Circ Circ Circ	10898' - 10970'	15400	15345	MORROW EAST	NM	LEA
3	30025413640100	MARATHON OIL PERMIAN LLC	BATTLE 001H	Oil	Active	160 FNL, 360 FEL , 21S, 33E, 34	8/21/2014	10/8/2014	15561'	17.5 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1670' 188' - 5033' 4300' - 15561' 10450'	1570 1360 1950	Circ Calc Theory	11333' - 15362'	16044	11011	BONE SPRING	NM	LEA
4	30025420090100	MARATHON OIL PERMIAN LLC	BATTLE 002H	Oil	Active	240 FSL, 1660 FEL , 21S, 33E, 27	2/24/2015	7/1/2015	16946'	16.00 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1711' 300' - 5330' 2808' - 16946' 11272'	1073 2525 1530	Unknown Oth Unknown	12330' - 16849'	16850	12017	BONE SPRING	NM	LEA
7	30025426360000	MARATHON OIL PERMIAN LLC	BATTLE 34 FEDERAL 004H	Oil	Active	191 FSL, 960 FWL , 21S, 33E, 27 SW SW	6/6/2017	7/26/2017	15953'	24.000 17.500 12.500 8.750	Surface- 20.000 Intermediate 1- 13.375 Intermediate 2- 9.625 Surface- 5.500 Tubing- 2.875	0' - 1633' 0' - 3553' 0' - 5350' 0' - 15953' 10821'	2350 2480 1042 1830	Unknown Unknown Unknown Unknown	11203' - 15663'	16728	10974	BONE SPRING	NM	LEA
10	30025431790100	COG OPERATING LLC	RASPBERRY STATE COM 001H	Oil	Active	330 FSL, 200 FEL , 21S, 33E, 27	6/30/2016	10/4/2016	21022'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1812' 0' - 5448' 0' - 21022' 10343'	1300 1775 4200	Unknown Unknown Unknown	11121' - 20860'	20900	10918	BONE SPRING	NM	LEA
11	30025435860100	EOG RESOURCES INC	SPEEDY 16 STATE COM 501H	Oil	Active	173 FNL, 332 FWL , 22S, 33E, 16	3/18/2017	4/28/2017	14209'	17.500 12.250 12.250 8.750	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 9.625 Production- 5.500 Tubing- 2.875	0' - 1135' 0' - 4000' 0' - 4800' 4350' - 14209' 10964'	1025 1300 1300 2225	Circ Circ Calc Unknown	11096' - 15547'	14209	10899	BONE SPRING	NM	LEA
12	30025439090000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 503H	Oil	Active	100 FNL, 2250 FWL , 21S, 33E, 35	10/19/2017	3/14/2018	20858'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	1380' - 1761' 4294' - 5369' 10405' - 20858' 10303'	1375 1200 3880	Circ Circ Unknown	11200' - 20731'	22000	10985	BONE SPRING	NM	LEA
15	30025453250000	EOG RESOURCES INC	SPEEDY 16 STATE COM 201H	Oil	Active	326 FNL, 581 FWL , 22S, 33E, 16	12/10/2018	12/4/2019	14238'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1112' 0' - 4730' 4224' - 14238' 8745'	1270 1495 1810	Circ Circ Unknown	9755' - 14238'	14362	9421	BONE SPRING	NM	LEA
16	30025453260000	EOG RESOURCES INC	SPEEDY 16 STATE COM 202H	Oil	Active	326 FNL, 614 FWL , 22S, 33E, 16	12/20/2018	2/7/2020	14286'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1128' 0' - 4734' 3140' - 14286' 8931'	1270 1495 1805	Circ Circ Unknown	9655' - 14301'	14364	9405	BONE SPRING	NM	LEA
17	30025453270000	EOG RESOURCES INC	SPEEDY 16 STATE COM 203H	Oil	Active	389 FNL, 1912 FWL , 22S, 33E, 16	12/14/2018	12/8/2019	14274'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1175' 0' - 4738' 3818' - 14274' 8933'	1095 1560 1990	Circ Circ Unknown	9645' - 14260'	14350	9424	BONE SPRING	NM	LEA
18	30025453280000	EOG RESOURCES INC	SPEEDY 16 STATE COM 301H	Oil	Active	389 FNL, 1945 FWL , 22S, 33E, 16	12/5/2018	12/7/2019	14640'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1175' 0' - 4757' 4260' - 14640' 9533'	1195 1285 1860	Circ Circ Unknown	10216' - 14626'	14796	9965	BONE SPRING	NM	LEA
19	30025453550000	MARATHON OIL PERMIAN LLC	BATTLE 34 SB FEE 015H	Oil	New	482 FNL, 1555 FEL , 21S, 33E, 34	7/26/2019	2/26/2024	15835'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- Unknown	0' - 1579' 0' - 5123' 0' - 15835' Unknown	1465 2116 2981	Circ Circ Unknown	Unknown - Unknown	15875		BONE SPRING	NM	LEA
20	30025454480000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 602H	Oil	Active	200 FNL, 990 FWL , 21S, 33E, 35	2/2/2019	3/16/2019	21827'	17.500 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- Unknown	0' - 1718' 4164' - 5233' 11159'- 21827' Unknown	920 1615 2925	Circ Circ Unknown	11955' - 21756'	21875	11880	BONE SPRING	NM	LEA
22	30025466440000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 4H	Oil	Active	264 FSL, 1347 FEL , 22S, 33E, 4 SW SE	4/29/2020	7/1/2022	20685'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1365' 0' - 4917' 0' - 20685' 9189'	855 1548 3102	Circ Circ Circ	10258' - 20610'	20700	9581	BONE SPRING	NM	LEA
23	30025466450000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 5H	Oil	Active	264 FSL, 1297 FEL , 22S, 33E, 4 SE SE	6/30/2020	7/1/2022	19782'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1365' 0' - 4896' 0' - 19782' 9128'	856 1548 2720	Circ Circ Circ	10501' - 19713'	19802	9595	BONE SPRING	NM	LEA
24	30025466460000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 6H	Oil	Active	264 FSL, 1247 FEL , 22S, 33E, 4 SE SE	3/7/2020	6/1/2022	20684'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1365' 0' - 4921' 0' - 20684' 9191'	856 1998 3134	Circ Circ Circ	10262' - 20571'	20694	9572	BONE SPRING	NM	LEA
25	30025466470000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 16H	Oil	Active	263 FSL, 1372 FEL , 22S, 33E, 4 SW SE	4/9/2022	2/2/2024	20314'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1366' 0' - 4905' 0' - 20314' 9111'	855 1548 3102	Circ Circ Circ	9936' - 20245'	20324	9510	BONE SPRING	NM	LEA
26	30025466480000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 17H	Oil	Active	264 FSL, 1322 FEL , 22S, 33E, 4 SW SE	5/24/2020	6/1/2022	20527'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1365' 0' - 4838' 0' - 20527' 9075'	855 1548 3102	Circ Circ Circ	10514' - 20458'	20539	9654	BONE SPRING	NM	LEA
27	30025466490000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 18H	Oil	Active	264 FSL, 1272 FEL , 22S, 33E, 4 SE SE	5/24/2020	6/20/2022	20432'	16.000 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1365' 0' - 4872' 0' - 20432' 9081'	856 1572 3150	Circ Circ Circ	10195' - 20363'	20444	9483	BONE SPRING	NM	LEA
28	30025466950000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 301H	Oil	Active	200 FNL, 910 FWL , 21S, 33E, 35	2/11/2020	1/16/2021	20306'	17.500 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- Unknown	0' - 1706' 0' - 5348' 16244' - 20306' Unknown	820 1330 2935	Circ Circ Circ	10445' - 20203'	20203	10115	BONE SPRING	NM	LEA
29	30025466960000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 501H	Oil	Active	200 FNL, 830 FWL , 21S, 33E, 35	3/6/2020	12/1/2020	21142'	17.500 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- Unknown	0' - 1743' 0' - 5324' 0' - 21142' Unknown	820 1330 2885	Circ Circ Circ	Unknown - Unknown	20665	11155	BONE SPRING	NM	LEA
32	30025467000000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 509H	Oil	Active	200 FNL, 870 FWL , 21S, 33E, 35	2/19/2020	12/28/2020	20722'	17.500 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1743' 3805' - 5324' 0' - 20722' 10005'	820 1330 2935	Circ Circ Circ	10859' - 20634'	22318	10809	BONE SPRING	NM	LEA
33	30025467020000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 510H	Oil	Active	200 FNL, 1654 FWL , 21S, 33E, 35	2/21/2020	12/29/2020	20737'	17.500 12.250 8.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1799' 3923' - 5337' 2189' - 20737' 10696'	835 1335 2985	Circ Circ Circ	10988' - 20641'	22132	10769	BONE SPRING	NM	LEA

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Supplemental Exhibit No. G
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794

38	30025490780000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 207H	Oil	Active	370 FSL, 1790 FWL , 22S, 33E, 10 SE SW	11/22/2021	1/1/2023	20540'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4945' 0' - 9031' 8851' - 20540' 8849'	1126 772 722 769	Circ Circ Circ Calc	10048' - 20469'	20551	9449	BONE SPRING	NM	LEA
39	30025490790000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 208H	Oil	Active	370 FSL, 1815 FWL , 22S, 33E, 10 SE SW	10/31/2021	1/1/2023	20460'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1330' 0' - 4915' 0' - 8986' 8772' - 20460' 8771'	1126 852 720 763	Circ Circ Circ Calc	9978' - 20399'	20480	9462	BONE SPRING	NM	LEA
40	30025490800000	CHEVRON U S A INC	DL 10 3 KRAKEN FED COM 209H	Oil	Active	370 FSL, 1840 FWL , 22S, 33E, 10 SE SW	10/31/2021	9/1/2022	20439'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1339' 0' - 4912' 0' - 8972' 8744' - 20439' 8743'	1126 850 717 763	Circ Circ Circ Calc	9947' - 20368'	20453	9438	BONE SPRING	NM	LEA
41	30025490810000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 219H	Oil	Active	860 FSL, 1790 FWL , 22S, 33E, 10 SE SW	1/1/2022	5/1/2022	20542'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1435' 0' - 4985' 0' - 9027' 8791' - 20542' 8793'	1114 1197 819 773	Circ Circ Circ Calc	10202' - 20471'	20552	9429	BONE SPRING	NM	LEA
42	30025490820000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 220H	Oil	Active	860 FSL, 1815 FWL , 22S, 33E, 10 SE SW	1/11/2022	5/1/2022	20372'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1393' 0' - 4851' 0' - 8883' 8701' - 20372' 8715'	1114 928 806 764	Circ Circ Circ Calc	9874' - 20301'	20382	9498	BONE SPRING	NM	LEA
43	30025490830000	CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 221H	Oil	Active	860 FSL, 1840 FWL , 22S, 33E, 10 SE SW	1/19/2022	5/1/2022	20328'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1386' 0' - 4871' 0' - 8871' 8682' - 20328' 8679'	1225 907 803 763	Circ Circ Circ Calc	9842' - 20257'	20338	9528	BONE SPRING	NM	LEA
48	30025499060000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 422H	Oil	Active	1986 FSL, 1238 FEL , 22S, 33E, 10 NE SE	7/11/2022	4/26/2023	22065'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1717' 0' - 4940' 0' - 9992' 9803' - 22065' 9803'	643 852 988 765	Circ Circ Circ Calc	11572' - 21963'	22041	10984	BONE SPRING	NM	LEA
49	30025499070000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 423H	Oil	Active	1986 FSL, 1213 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21742'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1706' 0' - 5000' 0' - 9900' 9694' - 21742' 9743'	643 852 984 749	Circ Circ Circ Calc	11271' - 21677'	21757	10764	BONE SPRING	NM	LEA
50	30025499080000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 424H	Oil	Active	1986 FSL, 1188 FEL , 22S, 33E, 10 NE SE	10/11/2022	4/1/2023	21994'	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1727' 0' - 4984' 0' - 9936' 9561' - 21994' 9680'	634 852 980 768	Circ Circ Circ Calc	11537' - 21927'	22008	11015	BONE SPRING	NM	LEA
52	30025333410001	CHEVRON U S A INC	BARGAIN BQA FEDERAL 001H	Oil	PA	1980 FSL, 1980 FEL, 22S, 33E, 22 NW SE	5/27/1996	5/30/1996	4906'	13.375 8.625	Surface- 13.375 Production - 8.625 Tubing - 2.875	0' - 624' 0' - 4906' 9020'	700 1850	Circ Circ	9949' - 14940'	15010	9517	BONE SPRING	NM	LEA
53	30025244380000	RAYBAW OPERATING LLC	PEARSON SWD #001	SWD	Active	1980 FNL, 660 FEL, 21S, 33E, 33	5/30/1973	12/23/1973	14820'	17.500 12.250 8.500 6.500	Surface- 13.375 Intermediate- 9.625 Production- 7.625 Liner- 5.500	0' - 330' 0' - 5035' 0' - 11098' 0' - 14820'	300 2150 575 800	Unknown	5790' - 6635'	14983	14983	CHERRY CANYON	NM	LEA
54	30025271530000	RAYBAW OPERATING LLC	GETTY `15` FEDERAL 001			*SAME WELL AS REF #1*																
55	30025280960000	RAYBAW OPERATING LLC	FEDERAL`15`COM `B` 1	Gas	Active	660 FNL, 1980 FWL, 22S, 33E, 15	12/17/1982	12/30/1982	11500'	13.375 9.625 7.000	Surface- 13.375 Intermediate- 9.625 Production- 7.000 Tubing- 2.375	0' - 1100' 0' - 5460' 0' - 11500' 14194'	1075 4000 1860	Unknown	14344' - 14593'	15092	15092	MORROW EAST	NM	LEA
56	30025330610000	MATADOR PRODUCTION CO	ABE UNIT 1	Oil	Active	760 FSL, 1980 FEL, 21S, 33E, 28	8/25/1995	11/30/1995	15098'	13.375 9.625 7.000 4.500	Surface- 13.375 Intermediate 1- 9.625 Intermediate 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 1650' 0' - 5219' 0' - 12221' 0' - 15098' 14121'	1800 2300 1110 275	Unknown	14163' - 14170'	15100	15100	ATOKA MORROW	NM	LEA
57	30025420620000	COG OPERATING LLC	PYGMY 27 STATE 2H	Oil	Active	190 FNL, 1980 FWL, 21S, 33E, 27	3/17/2015	5/26/2015	14830'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	0' - 1848' 0' - 5626' 0' - 14830' 9651'	1175 3661 2230	Circ Circ	10437' - 14470'	14835	10259	BONE SPRING	NM	LEA
58	30025429040000	COG OPERATING LLC	WARBLER STATE COM 002Y	Oil	Active	195 FNL, 2010 FWL, 21S, 33E, 28 NE NW	11/29/2015	4/29/2016	15315'	20.000 14.750 10.625 7.785	Surface- 16.000 Intermediate 1- 11.750 Intermediate 2- 8.625 Production- 5.500 Tubing- 2.875	0' - 1748' 0' - 3510' 3186' - 5330' 0' - 15315' 10337'	1350 1575 2035 2150	Unknown	11082' - 15225'	15362	10963	BONE SPRING	NM	LEA
59	30025441440000	DKL Field Services, LLC	DOODLE BUG SWD STATE 001	SWD	Active	1498 FNL, 2390 FEL, 22S, 33E, 16	2/26/2020	10/30/2020	16687'	26.000 17.500 12.250 8.750	Surface- 20.000 Intermediate 1- 13.375 Intermediate 2- 9.625 Production- 7.625	0' - 1129' 0' - 5058' 0' - 12055' 0' - 16687'	2145 4060 2275 410	Circ Circ Circ Circ	Unknown	17200	17200	DEVONIAN-SILURIAN	NM	LEA
60	30025453560000	MARATHON OIL PERMIAN LLC	BATTLE 34 AV FEE 017H	Oil	New	479 FNL, 1495 FEL, 21S, 33E, 34	6/25/2019		14493'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500	0' - 1603' 500' - 5110' 0' - 14493'	1630 2115 2670	Circ Oth	Unknown	14502	9618	BONE SPRING	NM	LEA
61	30025457920000	MARATHON OIL PERMIAN LLC	BATTLE 34 AV FEE 025H	Oil	New	480 FNL, 1525 FEL, 21S, 33E, 34	7/12/2019		14394'	17.500 12.250 8.750	Surface- 13.375 Intermediate- 9.625 Production- 5.500	0' - 1604' 0' - 5127' 0' - 14394'	1630 1860 2685	Circ Circ	Unknown	14409	9626	BONE SPRING	NM	LEA

Dagger Lake Type Log

Confining Layers

Bone Spring Limestone (BSL): approximately 115’ of tight limestone between Brushy Canyon and Upper Avalon.

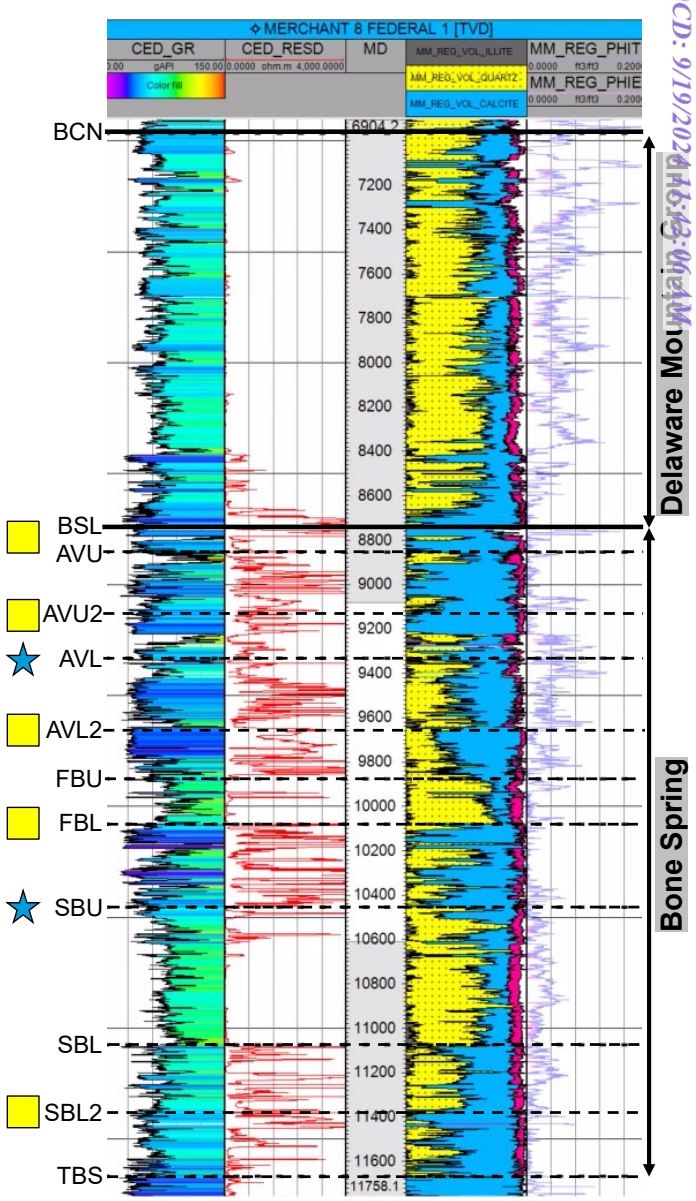
Upper Avalon 2 (AVU2): approximately 300’ of tight carbonate interbedded with silica-rich mudstone.

Lower Avalon 2 (AVL2): approximately 200’ of tight carbonate interbedded with silica-rich mudstone.

First Bone Spring Lower (FBL): approximately 370’ of tight calcareous mudstone with silica-rich mudstone.

Second Bone Spring Lower 2 (SBL2): approximately 280’ of tight carbonate interbedded with silica-rich mudstone.

Confining Layer	Top (TVD) ft	Base (TVD) ft	Thickness (TVT) ft
Bone Spring Limestone (BSL)	8738	8853	~115
Upper Avalon 2 (AVU2)	9116	9416	~300
Lower Avalon 2 (AVL2)	9628	9828	~200
First Bone Spring Lower (FBL)	10080	10450	~370
Second Bone Spring Lower 2 (SBL2)	11368	11648	~280



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Supplemental Exhibit No. H
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
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Gas Accounting Alternative: GOR Method

- In case the Division is unable to accept our proposed gas accounting methodology, we are willing to consider the following approach for a GOR methodology:
  - Define GOR^- as a representative GOR defined from a well test prior to an injection event
  - Define GOR^+ as a representative GOR defined from a well test following an injection event
  - Define q_o^+ as a representative oil rate defined from a well test following an injection event
  - Following an injection event, the native gas can be defined as $GOR^- \times q_o^+$ and the remaining gas is assumed to be the recovered gas that was re-injected $(GOR^+ - GOR^-) \times q_o^+$
  - For simplicity, we can define the following native (λ_n) and recovered (λ_r) allocation factors:

$$\lambda_n = \frac{GOR^- \times q_o^+}{GOR^+ \times q_o^+} = \frac{GOR^-}{GOR^+}$$

$$\lambda_r = \frac{(GOR^+ - GOR^-) \times q_o^+}{GOR^+ \times q_o^+} = \frac{(GOR^+ - GOR^-)}{GOR^+}$$

  - Based on the allocation factors definition, any produced gas (q_g^+) following an injection event can be allocated between native ($q_{g,n}$) and recovered ($q_{g,r}$) gas as follows:

$$q_{g,n} = q_g^+ \times \lambda_n$$

$$q_{g,r} = q_g^+ \times \lambda_r$$

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Supplemental Exhibit No. F
Submitted by: Chevron U.S.A. Inc.
Hearing Date: September 12, 2024
Case No. 24794