### 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 1/2mile 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:

Jordan L. Kessler 125 Lincoln Avenue, Suite 213 Santa Fe, New Mexico 87501 (432) 488-6108 jordan kessler@eogresources.com

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

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•	Chevron Exhibit B:	Self-Affirmed Statement of Victor Torrealba, Project Engineer
	<ul> <li>Chevron Exhibit B-1:</li> <li>Chevron Exhibit B-2:</li> <li>Chevron Exhibit B-3:</li> </ul>	Curriculum Vitae CLGC Wellbore Schematics Gas Lift and CLGC Operations Diagram
٠	Chevron Exhibit C:	Self-Affirmed Statement of Elson Core-Suarez, Petroleum Geologist
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•	Chevron Exhibit E:	Self-Affirmed Statement of Notice
•	Chevron Exhibit F:	Affidavit of Publication
•	Chevron Supplemental Exhibit G:	Updated tabulation of well data
•	Chevron <i>Supplemental</i> Exhibit H:	Dagger Lake Type Log
٠	Chevron <i>Supplemental</i> Exhibit I:	Proposed alternative gas allocation methodology

## 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. <u>2479</u>4

### **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

1

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;
- 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];
- 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).

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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.

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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: Pathur

Michael H. Feldewert Adam G. Rankin Paula M. Vance Post Office Box 2208 Santa Fe, NM 87504 505-988-4421 505-983-6043 Facsimile mfeldewert@hollandhart.com agrankin@hollandhart.com

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"):

Section	33:	All
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**

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



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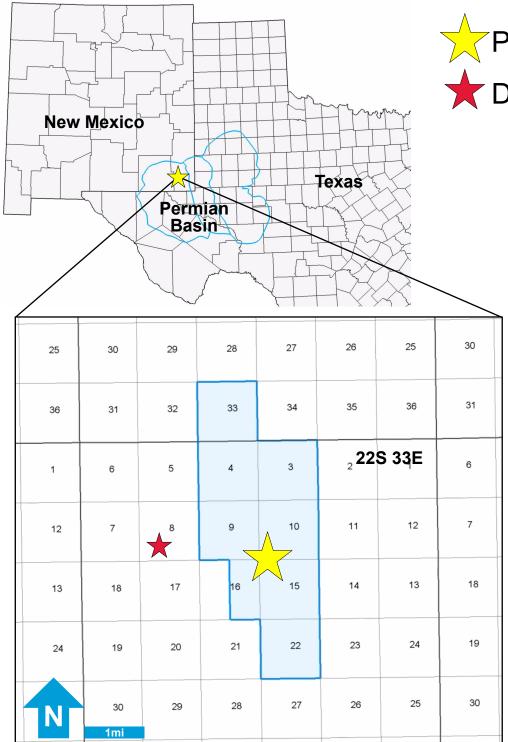
# **Project Timeline**

<ul> <li>Events</li> </ul>	Dates >	24Q3	24Q4	25Q1	25Q2	25Q3
Hearing Date						
Tentative O	rder Approval					
CLGC We	ell Permitting					
Production Baseline Definition						
CLGC Operations						
NM OCD and BLM Reporting						



3	25Q4

# Received by OCD: 9/19/2024 11:42:06 AM Regional Location Map and Generalized Stratigraphy



Proposed periodic injection location and intervals

Togger Lake Type Log Well (Merchant 8 Fed 1)

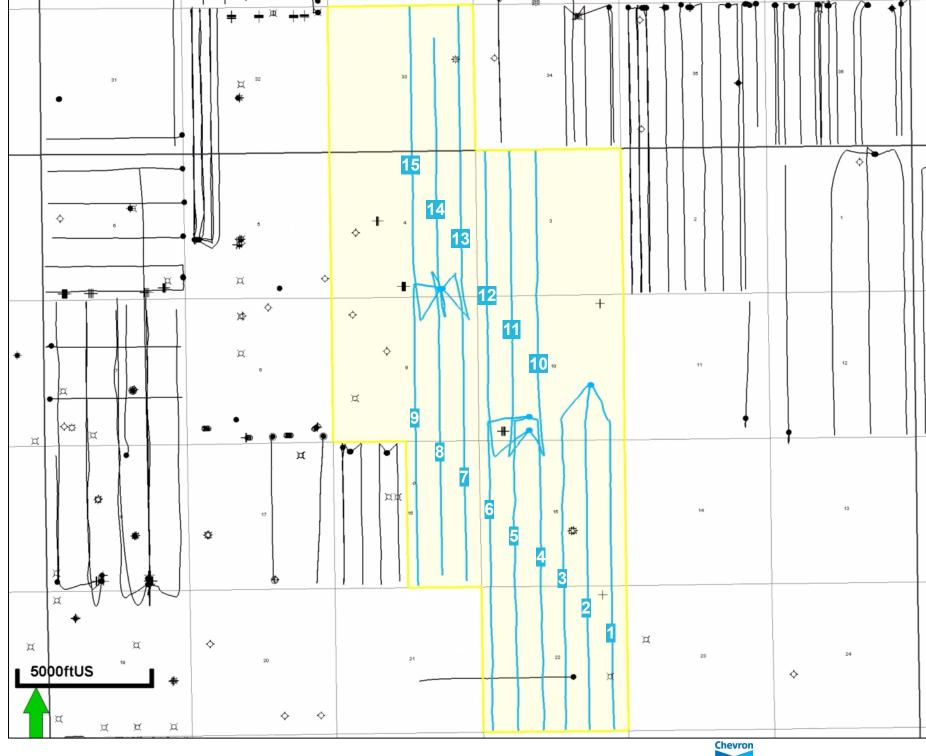
Dagger Lake Generalized Stratigraphic Section									
Formation Top	Lithology	~TVD (ft)	~TVDSS (ft)	~Thickness TVFT (ft)					
Ground Level			3,572						
Dockum Group	Sandstone	255	3,516	722					
Rustler	Dolomite/Anhydrite	977	2,620	1299					
Salado	Halite	2,276	1,338	661					
Castile	Gypsum/Anhydrite	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						



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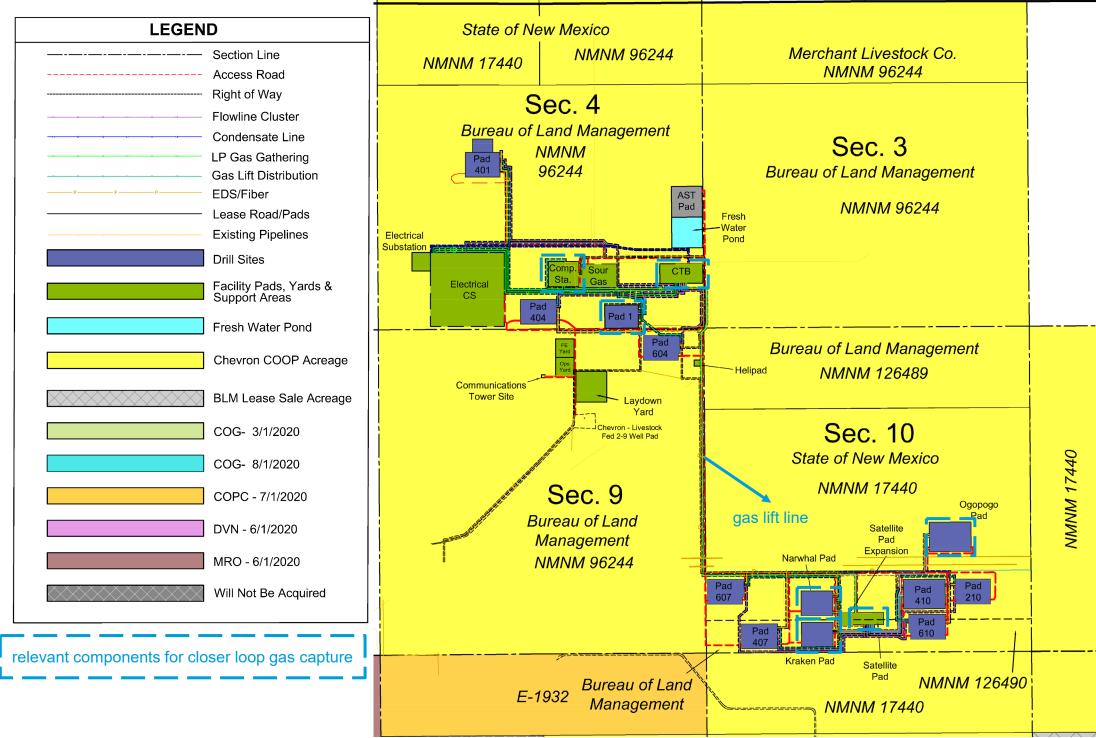
# **Project Summary**



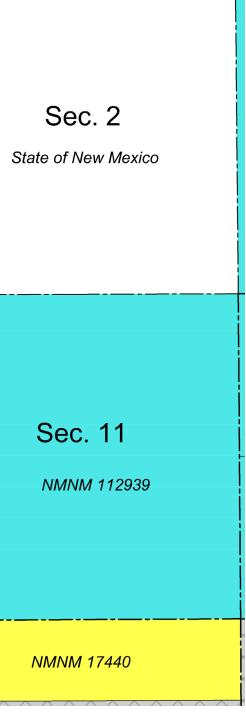
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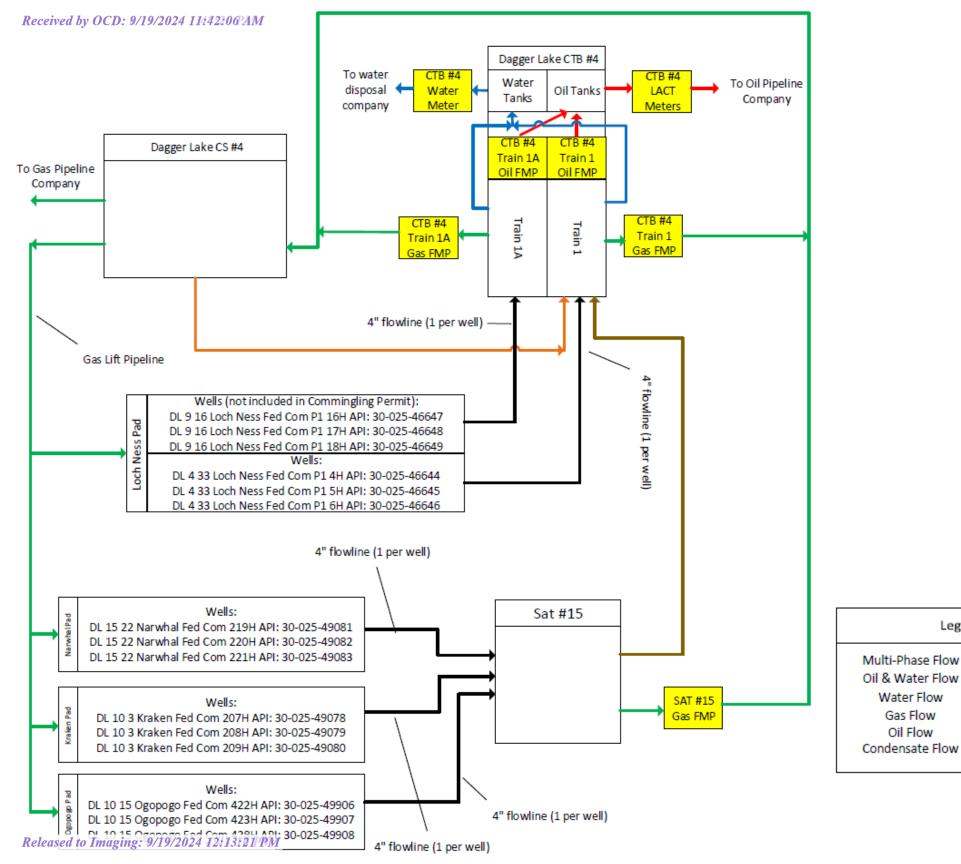
Well Num
422H
423H
424H
221H
220H
219H
018H
017H
016H
209Н
208H
207H
006Н
005H
004H

# **Facilities**









## **Block diagram**

Legend

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Chevron U.S.A.

Dagger Lake Development Area

Full Field Block Flow Diagram

Lea County, New Mexico

February 2024

## WELL DATA

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



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## WELL DATA

- A proposed MASP and supporting data, including: b)
  - current average surface pressure under normal operations; Ι.
  - ii. maximum achievable surface pressure with current infrastructure;
  - plan to install additional infrastructure to achieve proposed MASP, if applicable; iii.
  - plan to monitor and limit the surface pressure from exceeding the proposed MASP; İV.
  - confirmation that the proposed MASP with a full fluid column of reservoir brine water will not exert V. 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.
- A cement bond log (CBL) which demonstrates the placement of cement and cement bond of the C) production casing and the tie-in of the production casing with the next prior casing.
- A summary of all MITs performed on the CLGC well with at least one MIT conducted within the prior d) 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.



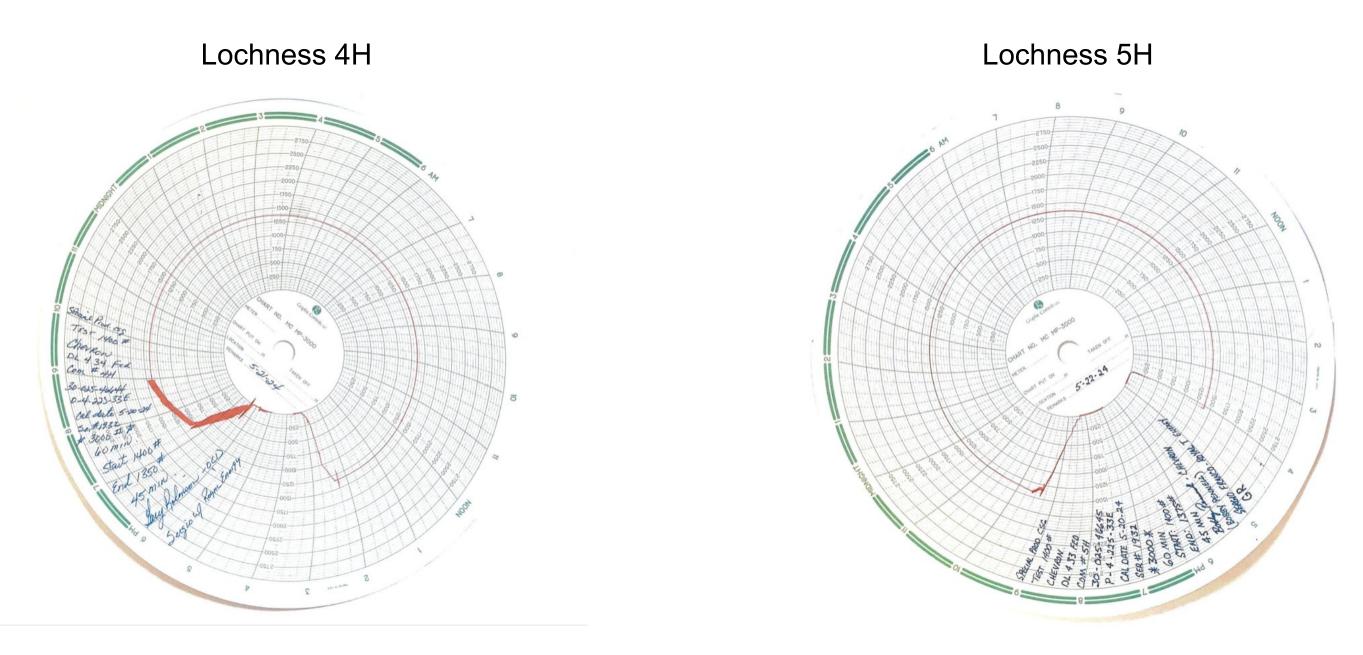
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## **MASP Calculations**

				Operating	Proposed				Secondar			Secondar	
			condition	MASP	Primary	Secondary	Primary	у		Primary	у		
		Perf MD,	Perf TVD,	Current				Burst,	Burst,	psi at	% of	% of	MASP % to
Well Name	API14	ft	ft	pressures, psi	Pressures, psi	Casing	Casing	psia	psia	depth	MASP	MASP	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**





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# **GEOLOGY AND RESERVOIR**

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



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Received by OCD: 9/19/2024 11:42:06PAM

**Proposed Injection Zone** 

# **Dagger Lake Type Log**

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.

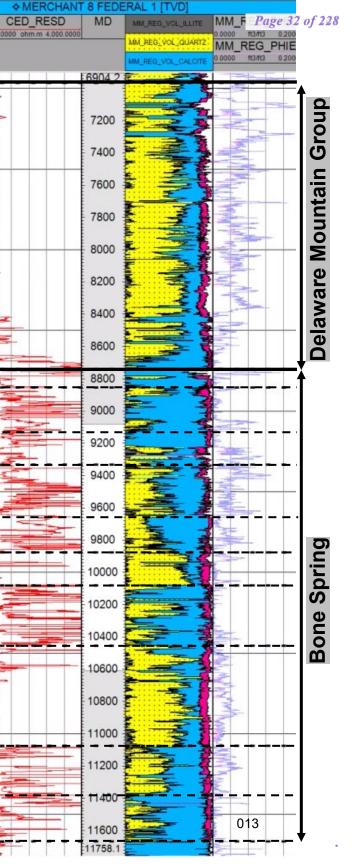
Lower Avalon 2 (AVL2): approximately 200' of tight carbonate interbedded with silica-rich mudstone.

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. © 2024 Chevron

Released to Imaging: 9/19/2024 12:13121PPM





CED GR

BCN.

BSI

AVL

AVU2

AVI

AVL2-

FBU

FBL

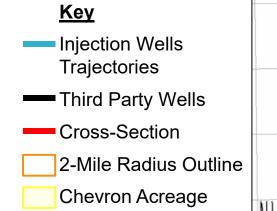
SBI

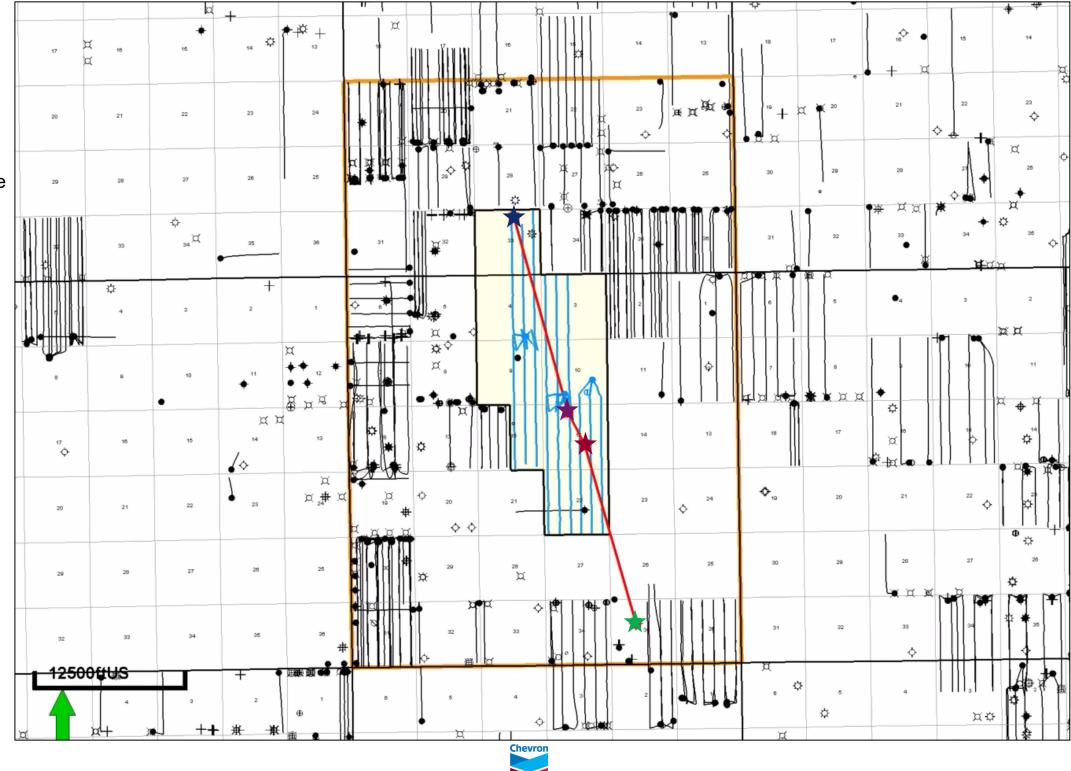
SBL2

TBS

SBU -

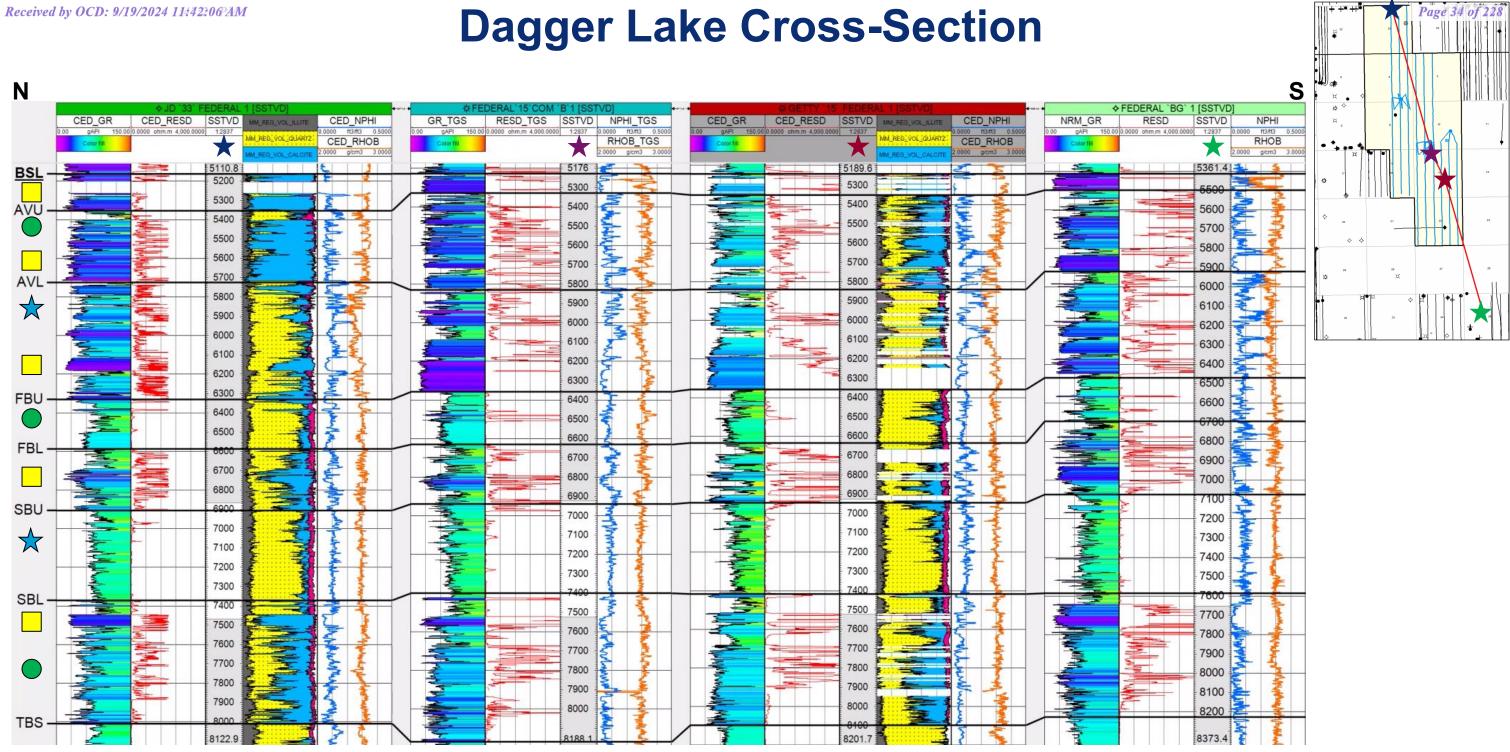
# **Dagger Lake Cross-Section Index Map**





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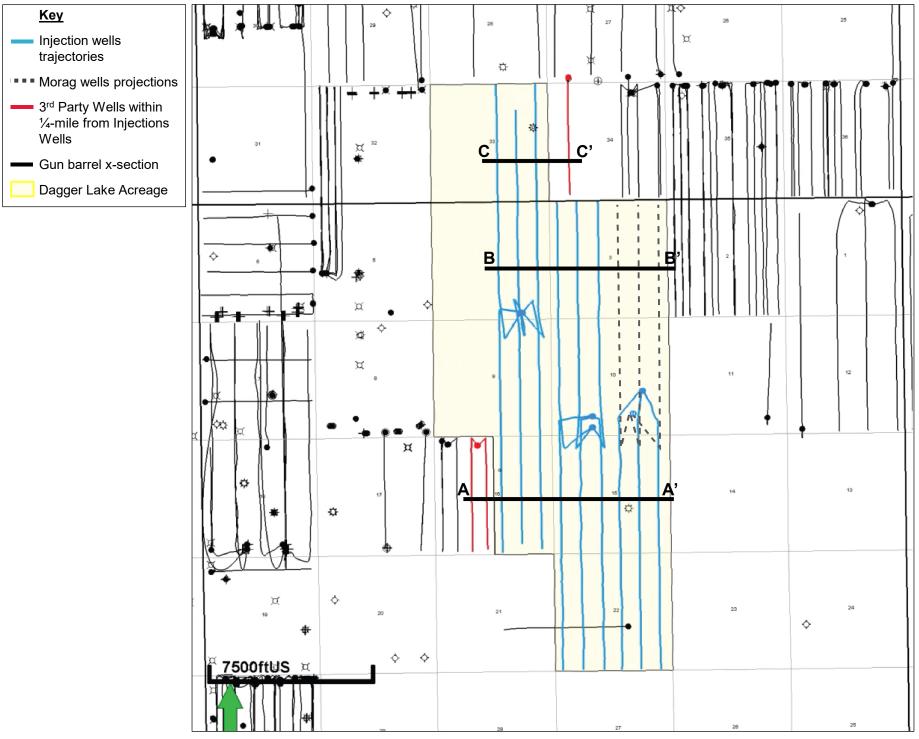
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★ Proposed Injection Zone Adjacent Oil & Gas Zones Released to Imaging: 9/19/2024 12:13:21PPM Confining Layers

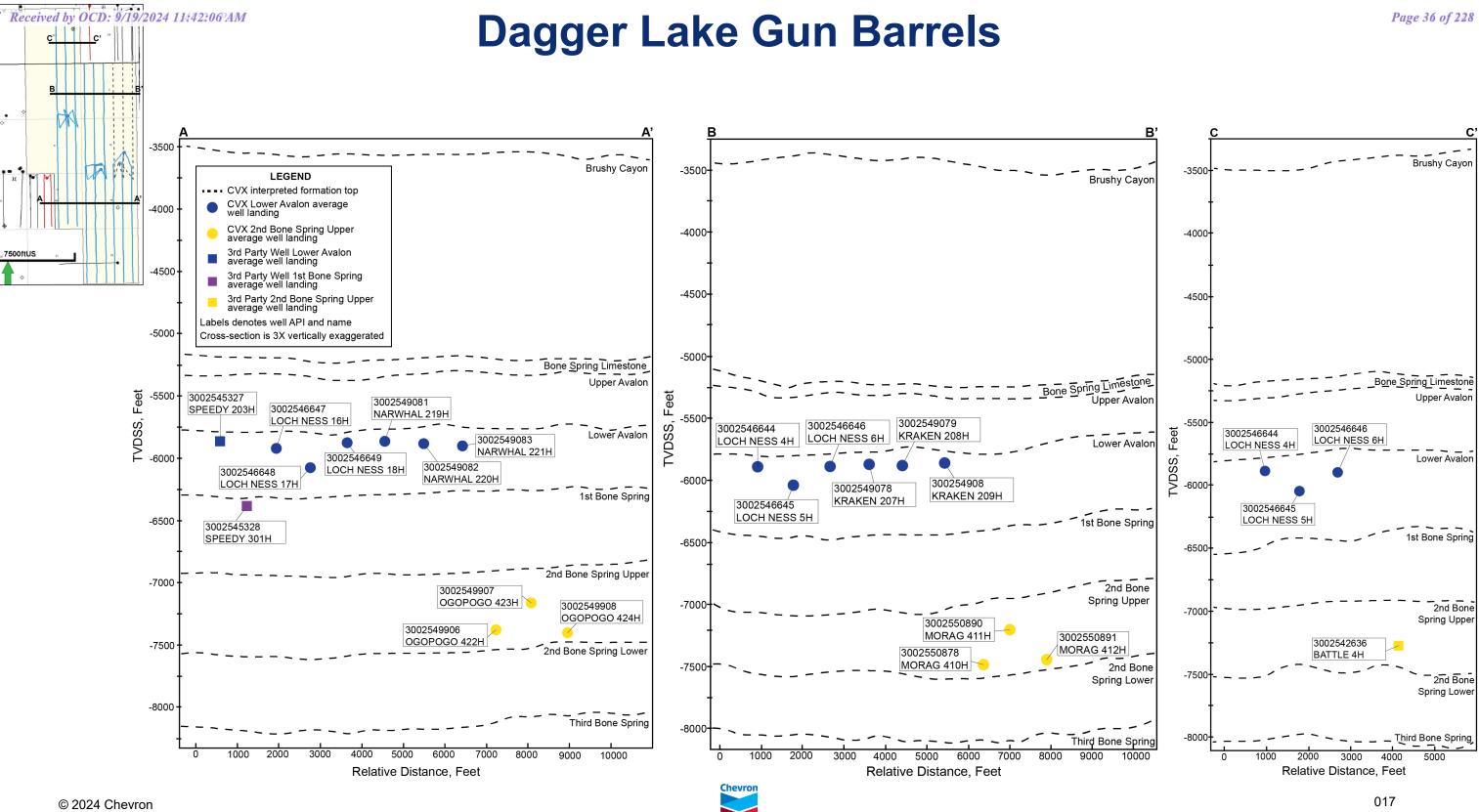


# **Dagger Lake Gun Barrels**

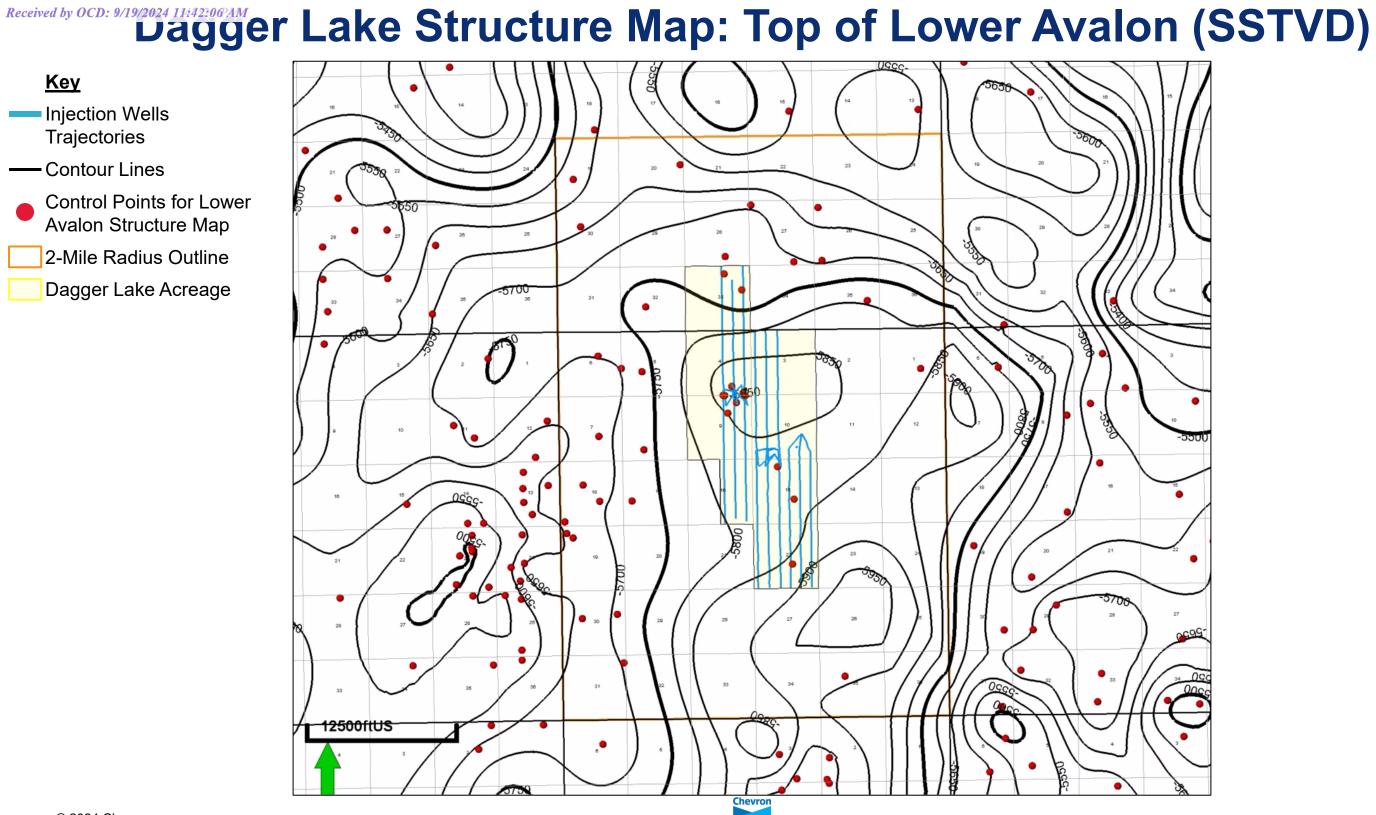




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Released to Imaging: 9/19/2024 12:13121PPM



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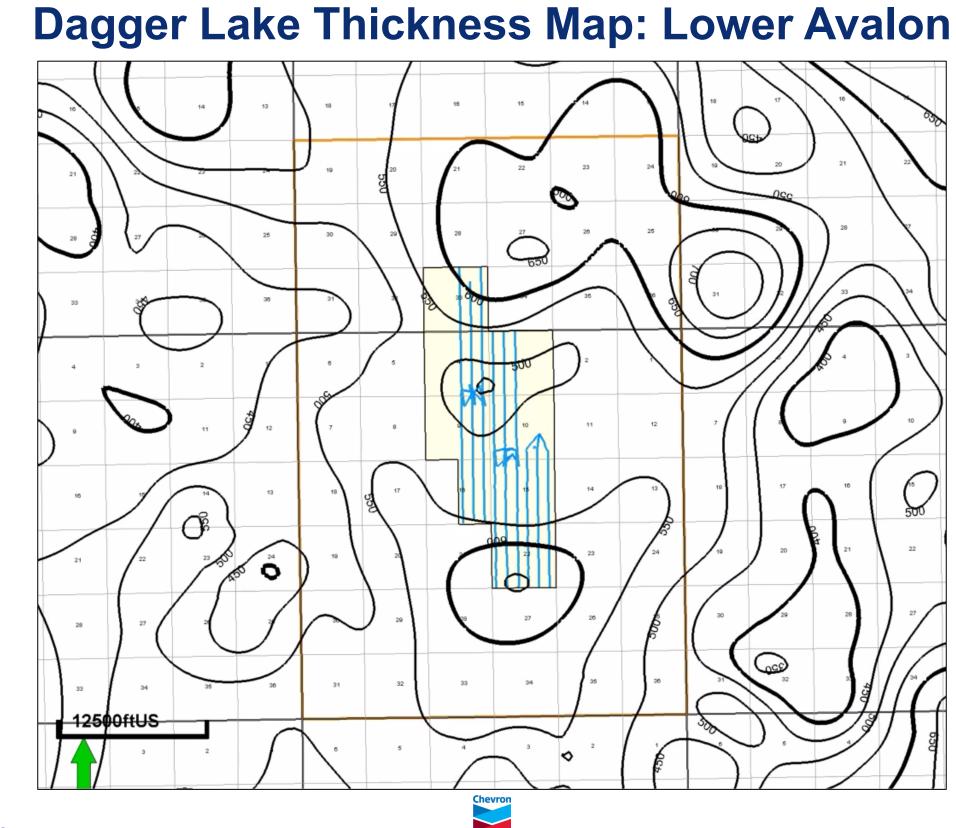
### 500'-600' in thickness

# Key Injection Wells Trajectories

— Contour Lines

2-Mile Radius Outline

Dagger Lake Acreage

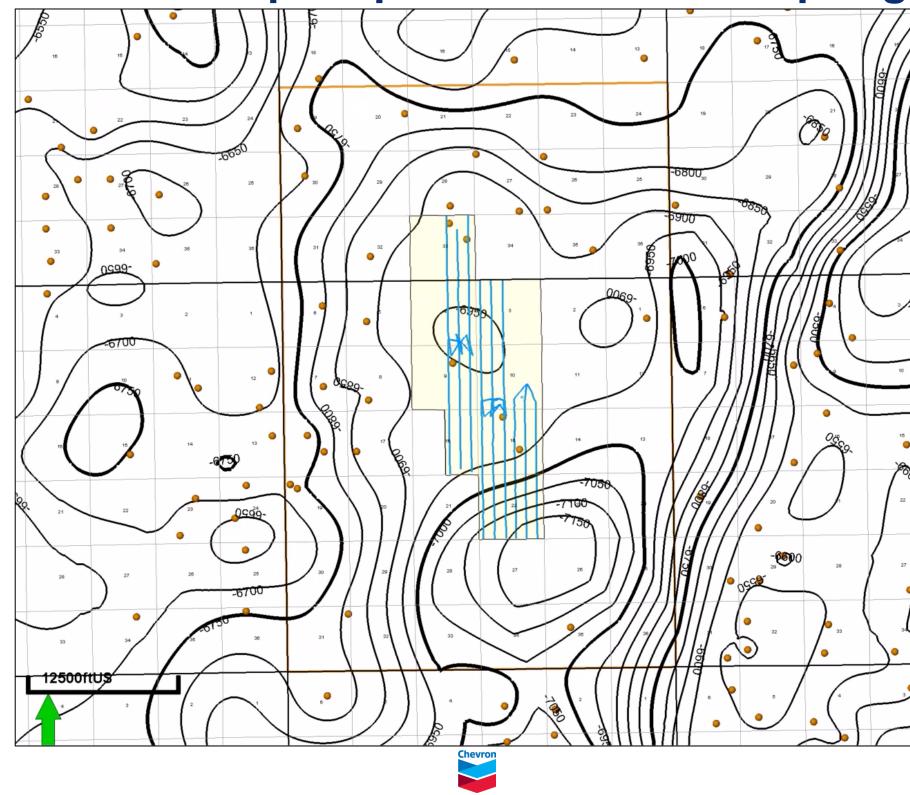


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# Dagger Lake Structure Map: Top of Second Bone Spring Upper (SS יע ישי))



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



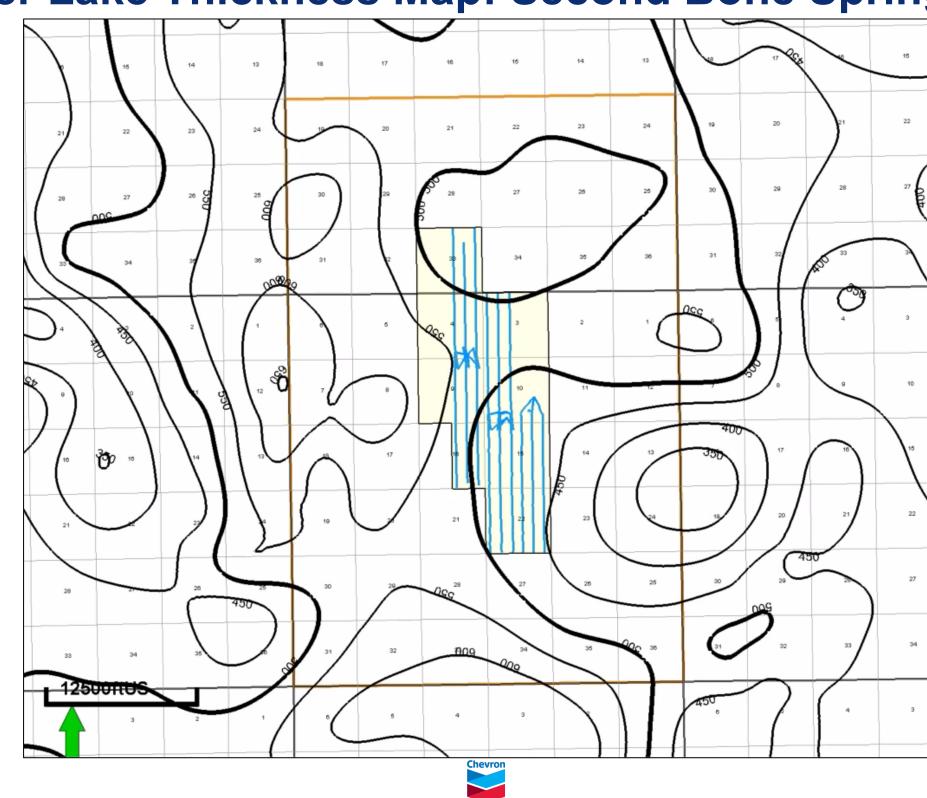


# Received by OCD: 9/19/2024 11:12:00 AM Dagger Lake Thickness Map: Second Bone Spring Upper

### 450'-500' in thickness

### <u>Key</u>

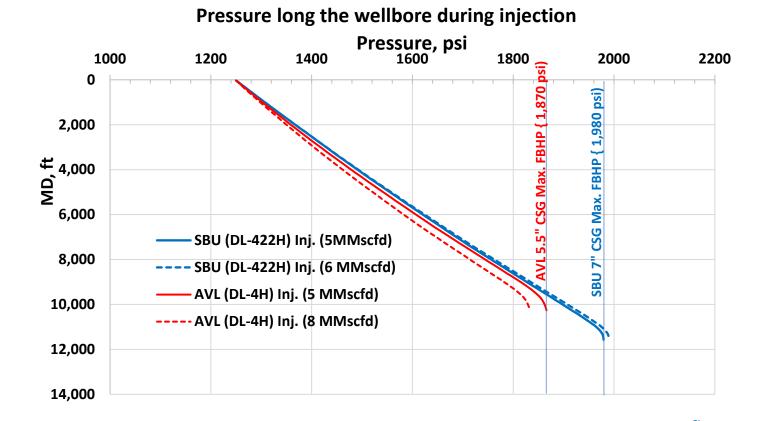
- Injection Wells Trajectories
- Contour Lines
- 2-Mile Radius Outline
- Dagger Lake Acreage



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# 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

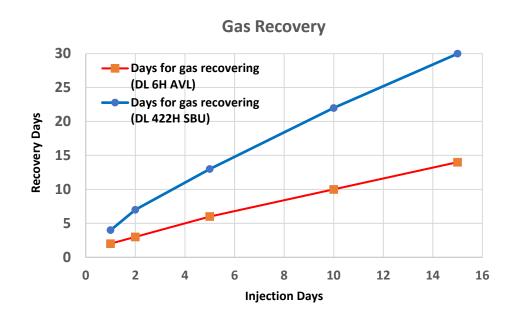


### Injection along annulus to utilize gas lift setup.

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

## **Injection volume for CLGC**

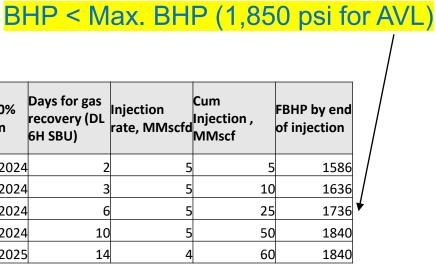
- With 5 MMscfd injection, the injection volume is 5-75 MMscf per well for 1-15 days of injection
- The total injection volume is 20-300 MMscf with • suggested 4 wells that have depleted with high GOR
- Leveraging a material balance approach (last-in, first-٠ out) injection gas recovery will be less 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



НМ	5/13/2024			<u> IVI &lt; IVI</u>	ax. D
Injection	11/9/2024				
DL 6H CLGO	C (AVL)				
Injection days	Injection start on	-	injection 100%	recovery (D)	Injection rate, MM
1	11/9/2024	11/10/2024	11/17/2024	2	
2	11/9/2024	11/11/2024	11/22/2024	. 3	
5	11/9/2024	11/14/2024	12/1/2024	6	
10	11/9/2024	11/19/2024	12/15/2024	10	
15	11/9/2024	11/24/2024	1/1/2025	14	

HM Injection <b>DL 422H C</b>	5/13/2024 5/28/2027 LGC (SBU)		BH	<mark>P &lt; Ma</mark>	<mark>x. BHP</mark>	(1,980	psi for
Injection days	Injection start on	-	injection 100%	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





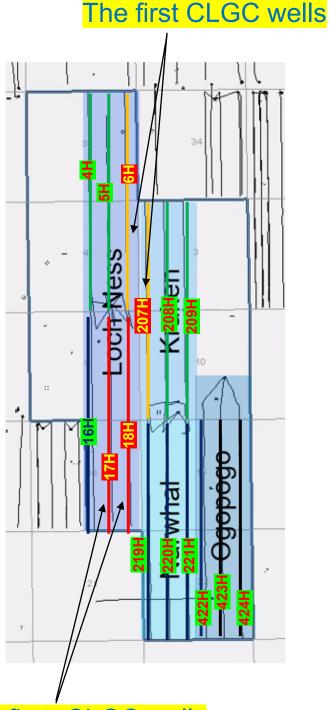
### **BU**

## **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/ <del>-</del>	Current FBHP (5/15/24 <mark>-</mark>	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



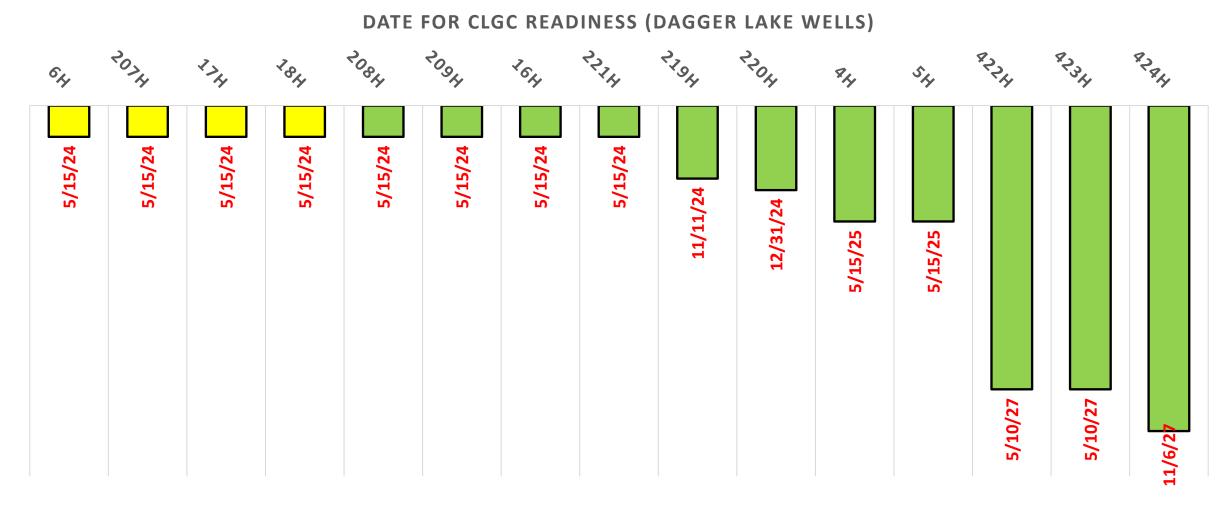


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## **CLGC Readiness (15 Wells)**

All 15 wells can be used for CLGC once they are depleted, as shown in the chart. The red text for ٠ dates when wells ready for CLGL. Yellow label for wells to be considered first for CLCG.

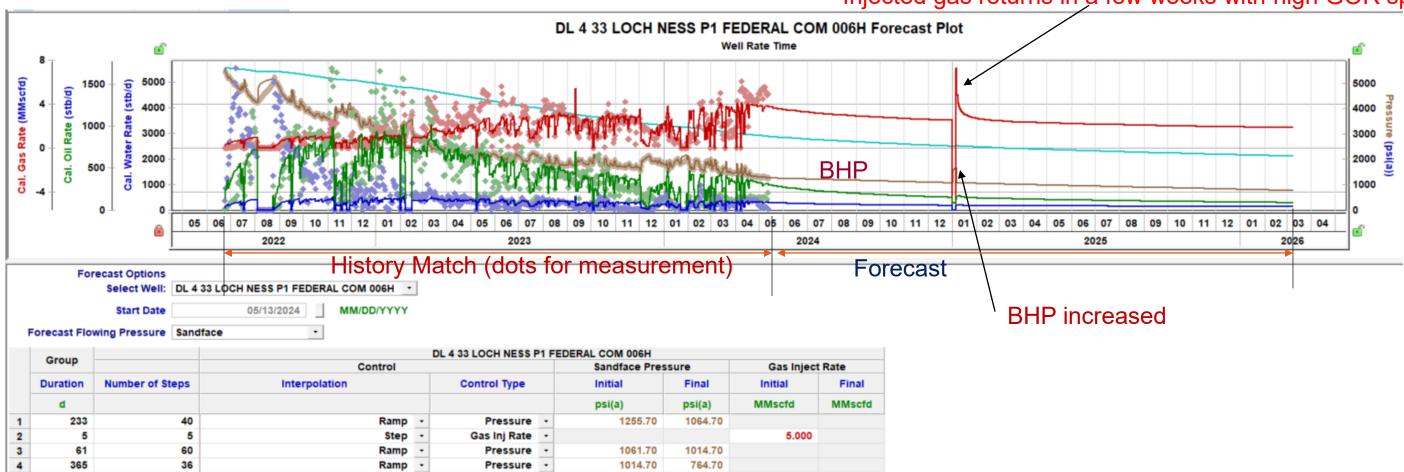




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## DL LOCH NESS 6H (AVL): History Match and Forecast

- 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.



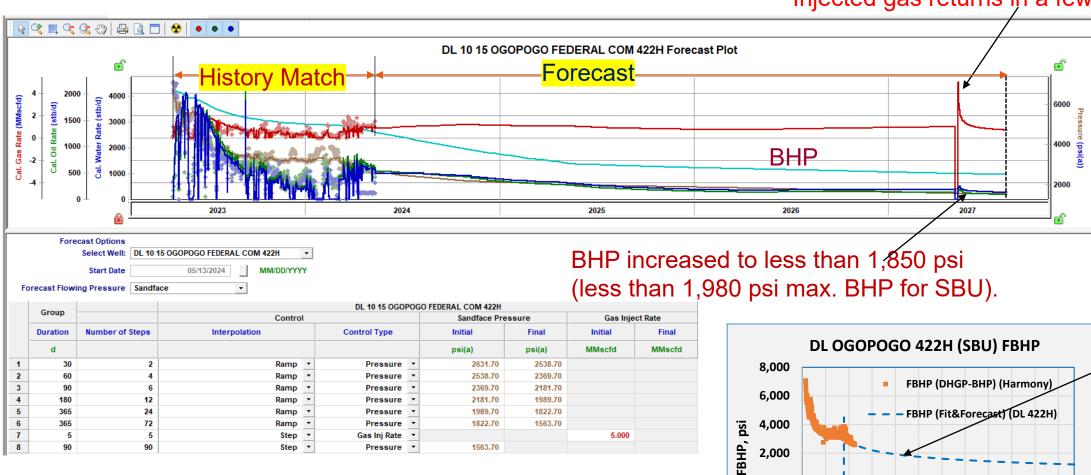


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### Injected gas returns in a few weeks with high GOR spike.

## 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.





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

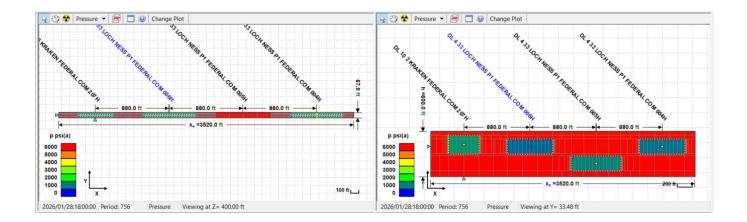
Dagger Lake SBU wells are relatively new and need to deplete until May 2027 for CLGC.

3105/28

027

## **Anticipated Horizontal Movement of Injected Gas**

- Multi-well simulation is built to see if any ٠ 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.





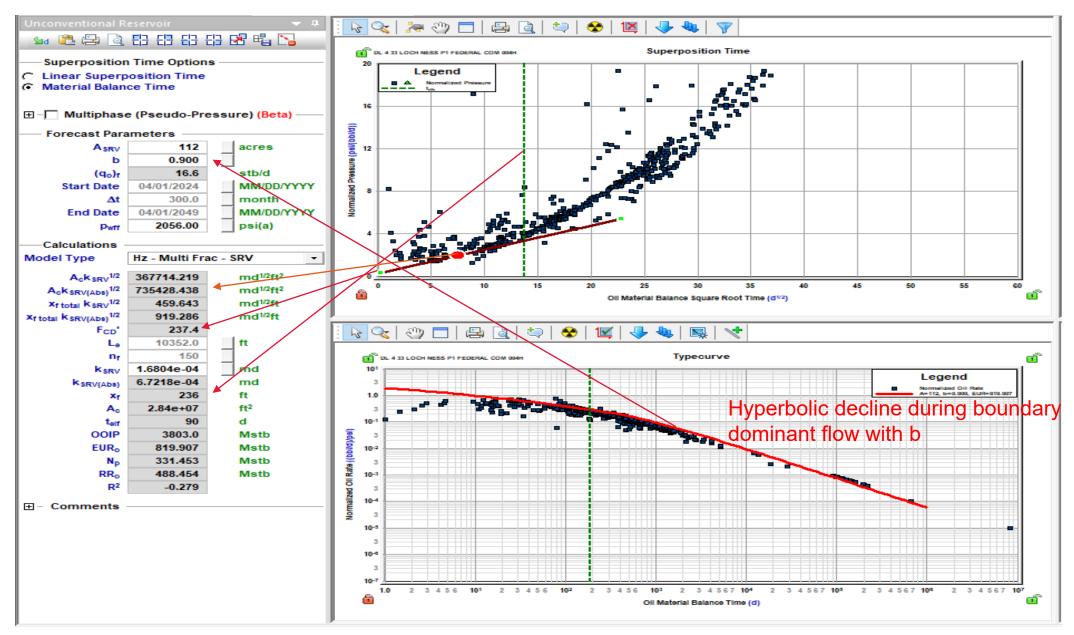
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# **SRV Derived with RTA- Analytical Model (DL 4H)**

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

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



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

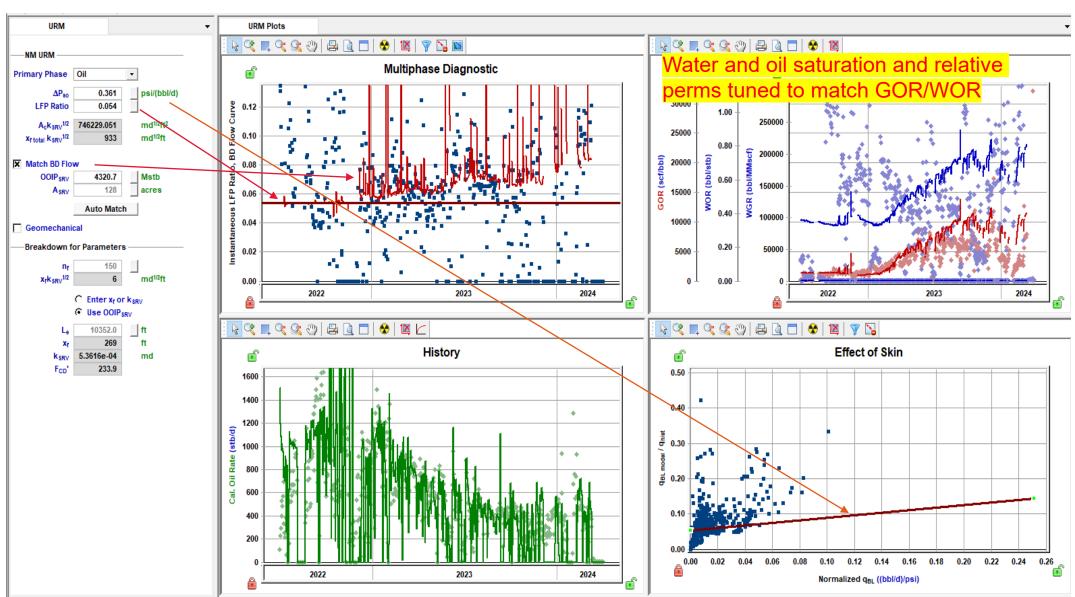
- Frac stages = 58, 9 cluster per stag.
- Assume 30% for major fracture.
- Thus, Nf=150.



# **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.
- 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<sub>SRV</sub> (abs) obtained (536 nd)
- 6) Fracture conductivity (234) with skin damage

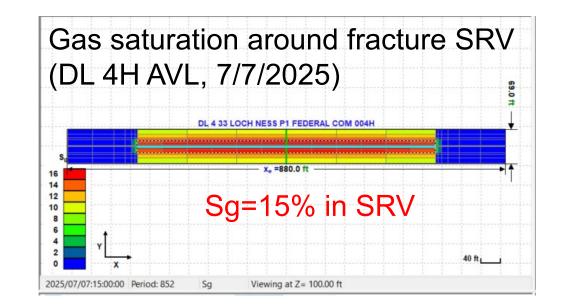


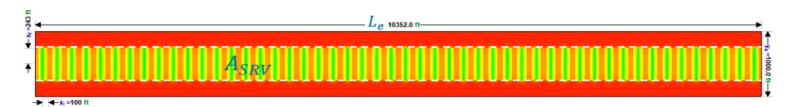
### Lh=10,352'=20610-10258, nf=150



# **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)

	Fore	cast Options	DI 4 22 L OCH	NESS P1 FEDERAL COM 006H ·	1						
		Start Date	DE 4 33 LUCH	05/13/2024 MM/DD/YYYY							
Fr	recast Flow	ing Pressure	Sandface	• • •							
			cunuloo	10000							
	Group			Control		DL 4 33 LOCH NE	SS P1 F	FEDERAL COM 006H Sandface Pres	eure	Gas Injec	t Pote
	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			

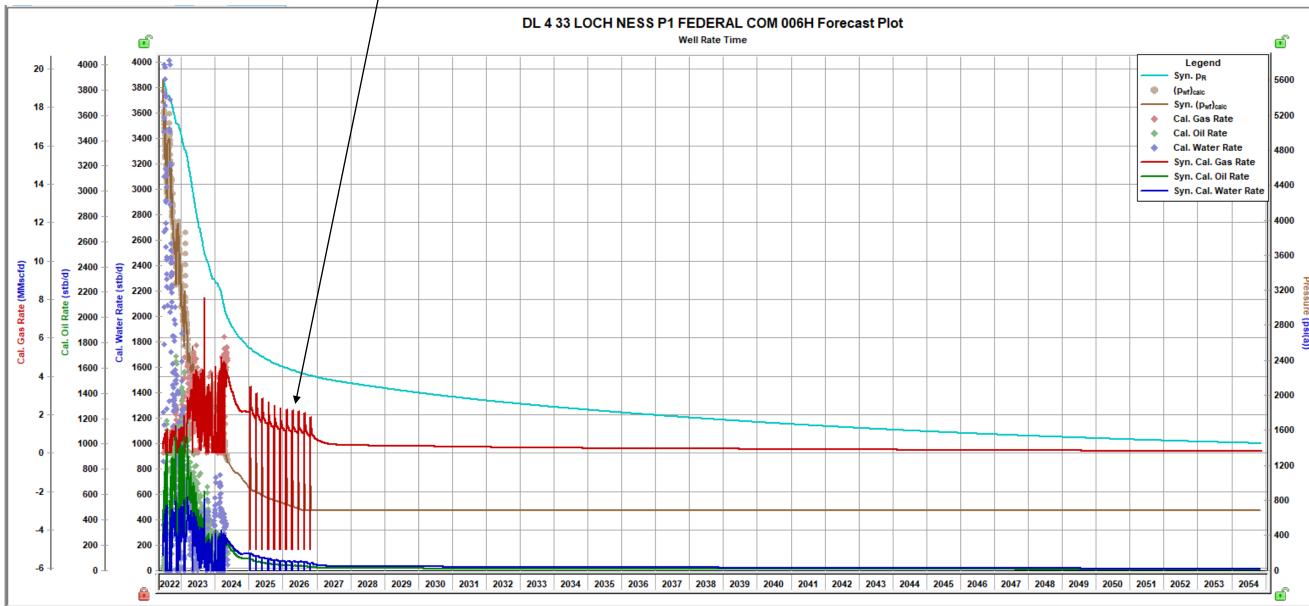


### 5 MMscfd injection for 5 days, repeat in every 2 months

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## **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)**

			DL 10 15 OG	OPOGO FEDERAL COM 422H	•					
		Start Date		05/13/2024 MM/DD/YYY	Y					
Fo	precast Flowin	ig Pressure	Sandface	-						
	Group					DL 10 15 OGOPOGO	D FEDERAL COM 422H			
	Group			Contro	1		Sandface Pres	sure	Gas Injec	t 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		

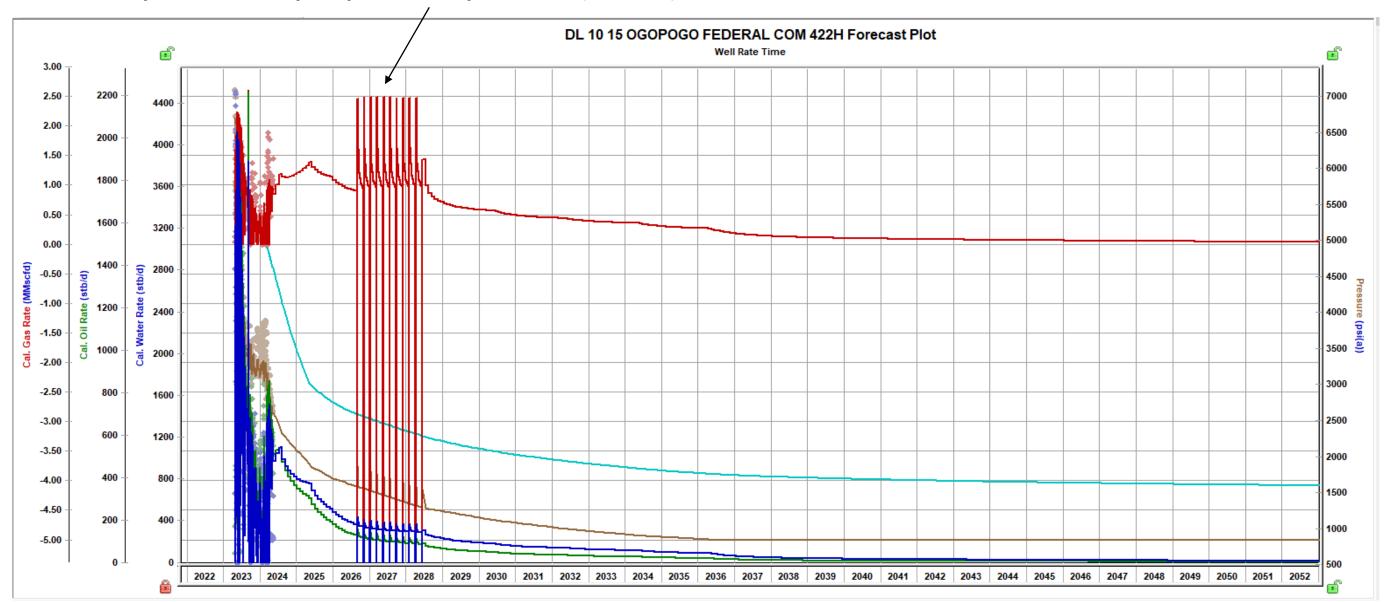


### 5 MMscfd injection for 5 days, repeat in every 2 months

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## **Review of Potential Effects of CLGC (SBU)**

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

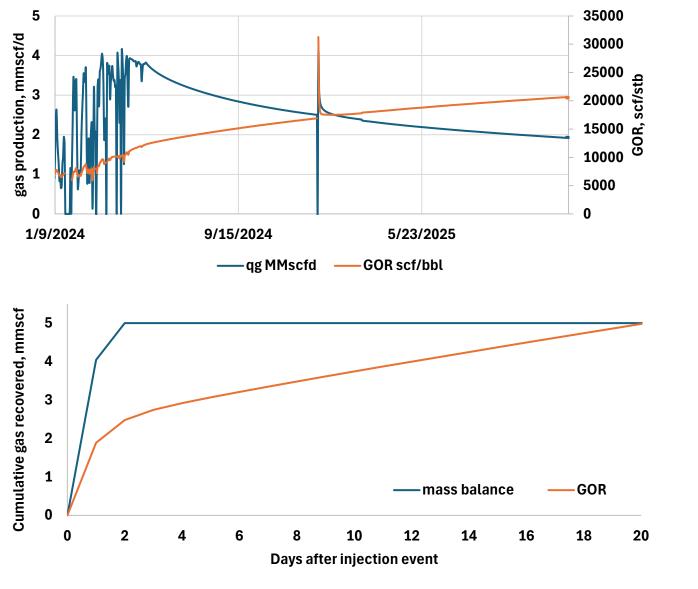


Simulation to the end of life (30 years by 2054)



# **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 reinjected 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 reinjected 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**

- Review of the source gas, including: C)
  - the initial list of well(s) from which the source gas is derived; İ.
  - 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.



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## **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.



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### n. npressor 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	<b>E</b> /2	33-21S-33E	51687
30-023-40044	DL 4 55 Locii Ness F1 Federal Colli #4H	<b>E</b> /2	4-22S-33E	5100/
30-025-46645	DL 4 33 Loch Ness P1 Federal Com #5H	E/2	33-21S-33E	51687
30-023-40043	DL 4 55 Locii Ness F1 Federal Colli #5H	<b>E</b> /2	4-22S-33E	5106
30-025-46646	DL 4 33 Loch Ness P1 Federal Com #6H	E/2	33-21S-33E	51687
30-023-40040	DL 4 55 Locii Ness F1 Federal Colli #oH	E/2	4-22S-33E	5106
20.025.46647	DL 9 16 Loch Ness P1 Federal Com	E/2	9-22S-33E	51 (05
30-025-46647	#16H	E/2	16-22S-33E	51687
20.025.46640	DL 9 16 Loch Ness P1 Federal Com	E/2	9-22S-33E	51 (0)
30-025-46648	#17 <b>H</b>	E/2	16-22S-33E	51687
20.025.46640	DL 9 16 Loch Ness P1 Federal Com	E/2	9-22S-33E	51 (0)
30-025-46649	#18H	E/2	16-22S-33E	51687
20.025.40070	DI 10.0 Kerler De level Com H20511	W/2	3-22S-33E	0704
30-025-49078	DL 10 3 Kraken Federal Com #207H	W/2	10-22S-33E	97840
20.025.40050		W/2	3-22S-33E	0704
30-025-49079	DL 10 3 Kraken Federal Com #208H	W/2	10-22S-33E	97840
		W/2	3-22S-33E	0704
30-025-49080	DL 10 3 Kraken Federal Com #209H	W/2	10-22S-33E	9784
20.025.40001	DI 15 00 Neurobel Testevel Claus #01011	W/2	15-22S-33E	0704
30-025-49081	DL 15 22 Narwhal Federal Com #219H	W/2	22-22S-33E	9784
20.025.40002	DI 15 00 Normalia Da Jamel Claus H000H	W/2	15-22S-33E	0704
30-025-49082	DL 15 22 Narwhal Federal Com #220H	W/2	22-22S-33E	97840
20.025.40002	DI 15 00 North - LT- Josef Community	W/2	15-22S-33E	0704
30-025-49083	DL 15 22 Narwhal Federal Com #221H	W/2	22-22S-33E	9784
20.025.40004	DI 10.15 October Technol Com #4000	E/2	15-22S-33E	0704
30-025-49906	DL 10 15 Ogopogo Federal Com #422H	E/2	22-22S-33E	97840
20.025.40005	DI 10.15 October Federal Com #12211	E/2	15-22S-33E	0704
30-025-49907	DL 10 15 Ogopogo Federal Com #423H	E/2	22-22S-33E	97840
		E/2	15-22S-33E	0.50
30-025-49908	DL 10 15 Ogopogo Federal Com #424H	E/2	22-22S-33E	97840
		E/2	3-22S-33E	
30-025-50878	DL 10 3 Morag Federal Com #410H	E/2	10-22S-33E	97840
		E/2	3-22S-33E	0.50
30-025-50890	DL 10 3 Morag Federal Com #411H	E/2	10-22S-33E	97840
		E/2	3-22S-33E	0.50
30-025-50891	DL 10 3 Morag Federal Com #412H	E/2	10-22S-33E	97846



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ived by OCD: 9/19/20		575.	www.permi 397.3713 2609 W Ma	anls.com arland Hobbs NM 8824	0	C6+ Gas Analysis Rep			
14277G			330025004	14		DLK MW Ck #1			
Sample Point Code		Sample Point Name					Sample Poir		
Laboratory (	`on icoc	2024088	107	0661		147		t	
Laboratory S Source Labo		Lab File I		Container Identi	tv	JAZ	MIN J - Sp Sampler		
USA	,	USA		USA	,	N	ew Mexico		
District		Area Name		Field Name			acility Name		
Apr 4, 2024 1	0:26	Apr 4,	2024 10:26		Apr 9, 2024 1	14:13	Apr	10, 2024	
Date Sample			e Effective		Date Receiv			e Reported	
69.00	7,935.00	Admir	ı	1214 @	105				
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	:	Press PSI @	•				
				Source Cor	naitions				
Chevron Usa	, Inc.						NG		
Operator						Lab So	urce Descript	ion	
Component	Normalized	Un-Normalized	GPM		Gross Heat	ting Values (R	eal, BTU/f	t³)	
·	Mol %	Mol %		14 Dry	.696 PSI @ 60.00 °F Satur		14.73 PSI ( Dry	@ 60.00 °F Saturated	
H2S (H2S)	0.0000	0		1,095			,098.2	1,080.5	
Nitrogen (N2)	3.2170	3.21656			Calculate	d Total Sampl	e Propertie	es	
CO2 (CO2)	12.3420	12.34242				*Calculated at Con			
Methane (C1)	67.6330	67.63236		F	Relative Density Real 0.8430			ensity Ideal 3400	
Ethane (C2)	8.5830	8.58277	2.2950		Molecular Weight				
Propane (C3)	4.4250	4.42547	1.2190	┓┝━━━	24.3322				
I-Butane (IC4)	0.5790	0.57895	0.1890	<b>-</b>	C6	+ Group Prop			
N-Butane (NC4)	1.4570	1.45657	0.4590	C6 - (	50.000%	Assumed Composit		3 - 10.000%	
I-Pentane (IC5)	0.4860	0.48639	0.1780	┥ ┌───		Field H2S			
N-Pentane (NC5)	0.5120	0.51245	0.1860	-		3 PPM			
Hexanes Plus (C6+)	0.7660	0.76606	0.3320				B451 6-		
TOTAL	100.0000	100.0000	4.8580	PROTREND Passed By	<b>STATUS:</b> Validator on Ap	or 10, 2024	<b>DATA SO</b> Importe		
od(s): Gas C6+ - GPA 2261, Exter	ded Gas - GPA 2286, Calcula	ations - GPA 2172					hla		
	Analyzer Informa	ition		VALIDATOR	igh to be consic :	iereu reasonal	ue.		
vice Type: Gas Chrom	,	e Make: Shimadz	u	Ashley Rus					
vice Model: GC-2014	5 .	al Date: Apr 8, 20		VALIDATOR	COMMENTS:				

•

## **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.



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# **AREA OF REVIEW (AOR)**

- Lease map depicting: a)
  - each CLGC well including its surface location and lateral; İ.
  - surface location and lateral of every well within two (2) miles of the surface location or lateral of each ii. CLGC well;
  - leases within two (2) miles of the surface location or lateral of each CLGC well; and iii.
  - 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.
- Tabulation of data for all wells of public record that penetrates either the proposed injection zone or the b) confining layer within the AOR, including:
  - a description of each well's type and construction; i.
  - ii. date drilled, location, and depth of each well; and
  - completion date, completion interval record of completion, and tops of cement. iii.

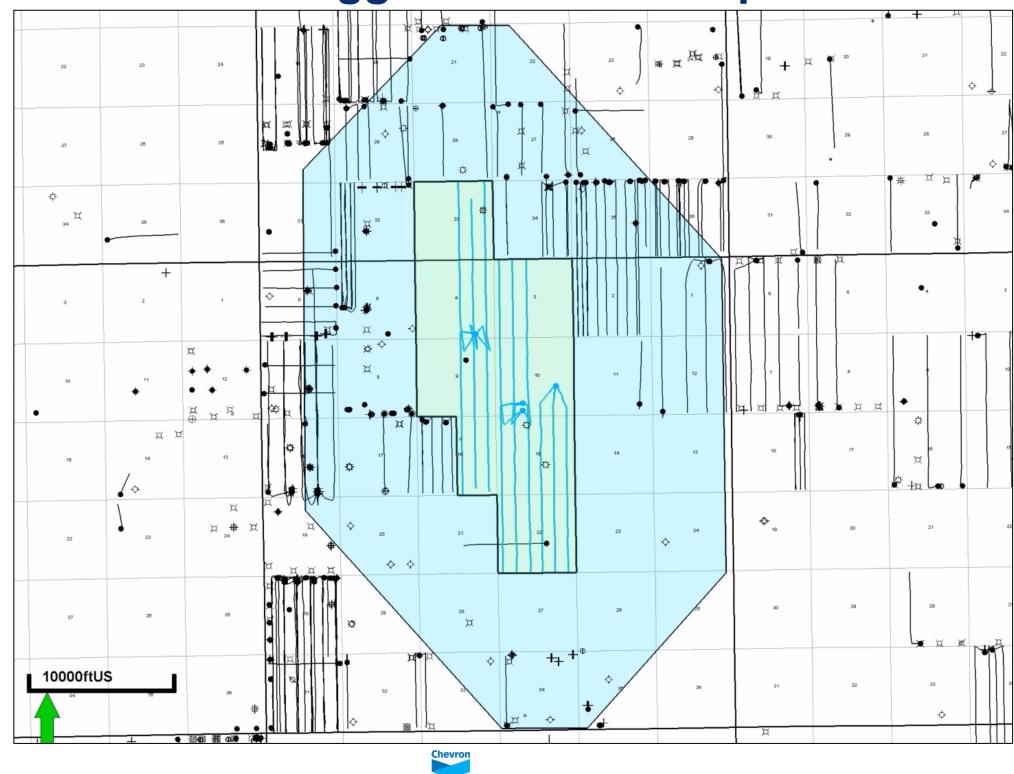


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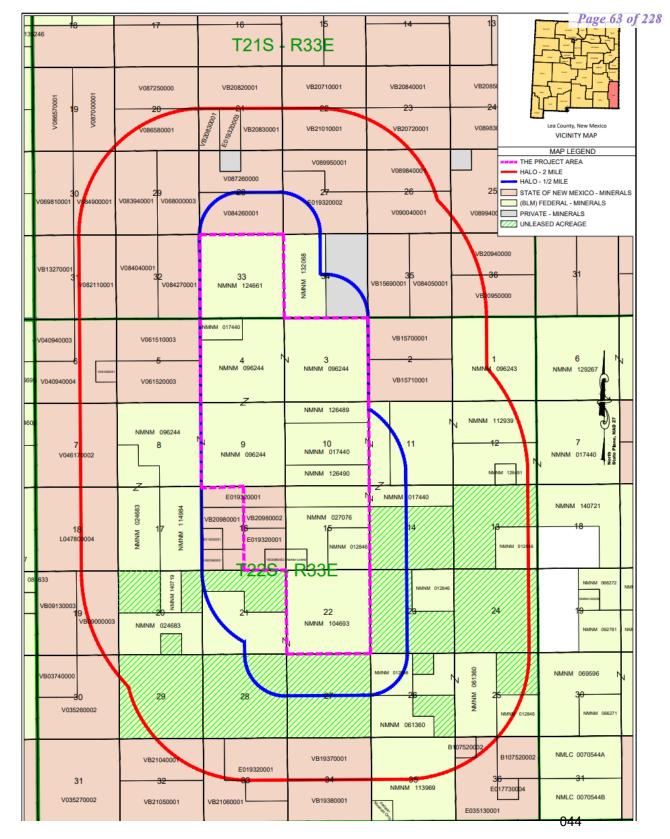
# 2-Mile Dagger Lake AOR Map

### Key

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

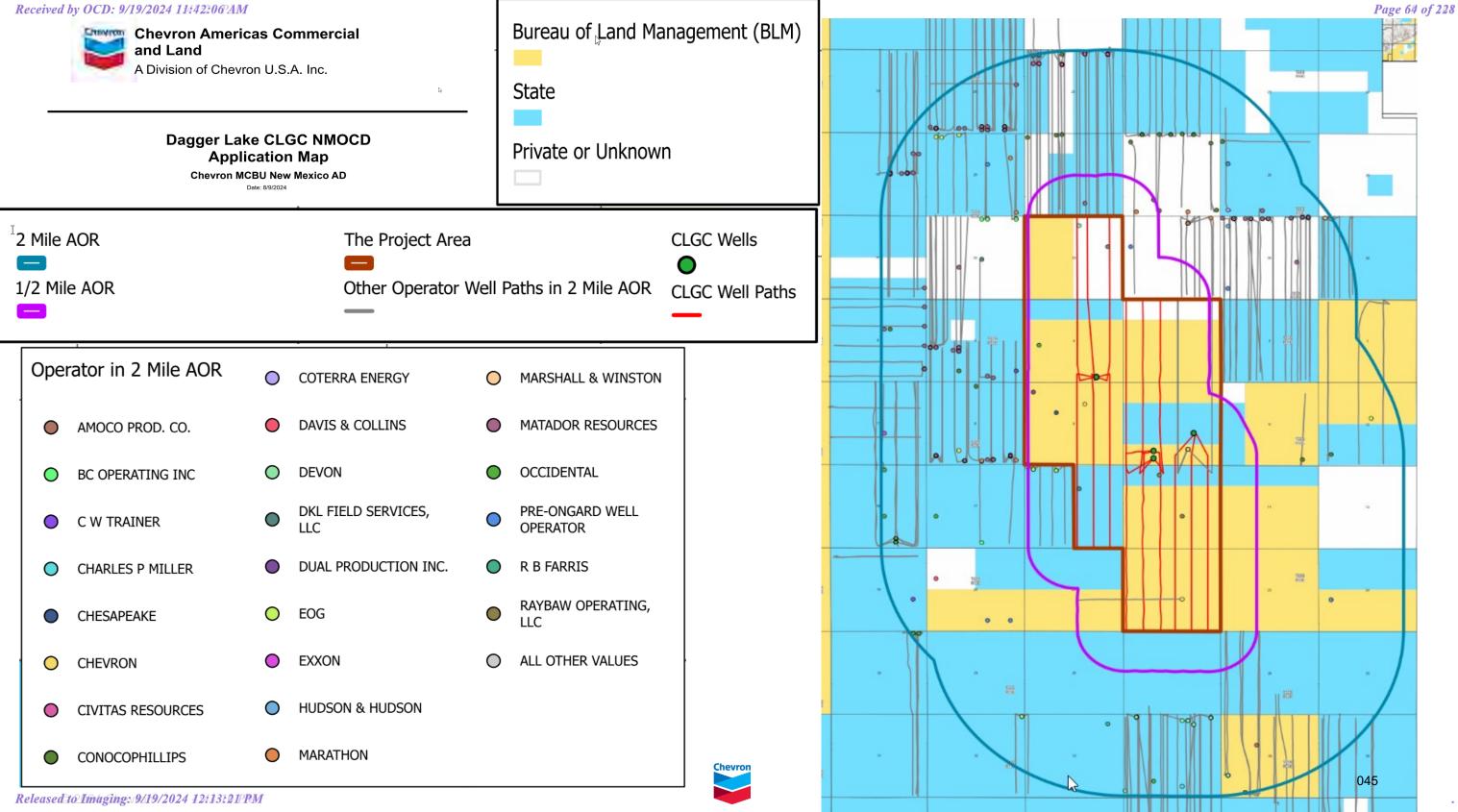


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### Lease Map

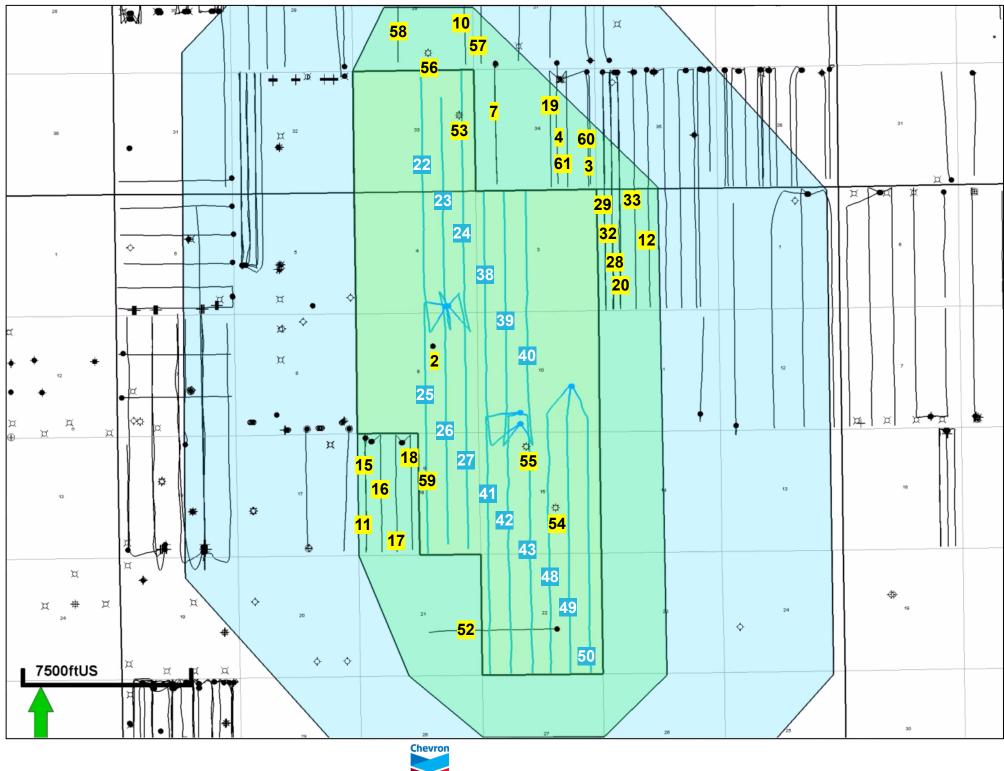




### <u>Key</u>

- Injection wells trajectories
- - <sup>1</sup>/<sub>2</sub>-mile outline
  - 2-mile outline
  - Dagger Lake acreage
- Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet
- Location of wells from tabulation of data table "HalfMileAOR Csg info" spreadsheet

# 1/2 Mile Radius Dagger Lake AOR Map



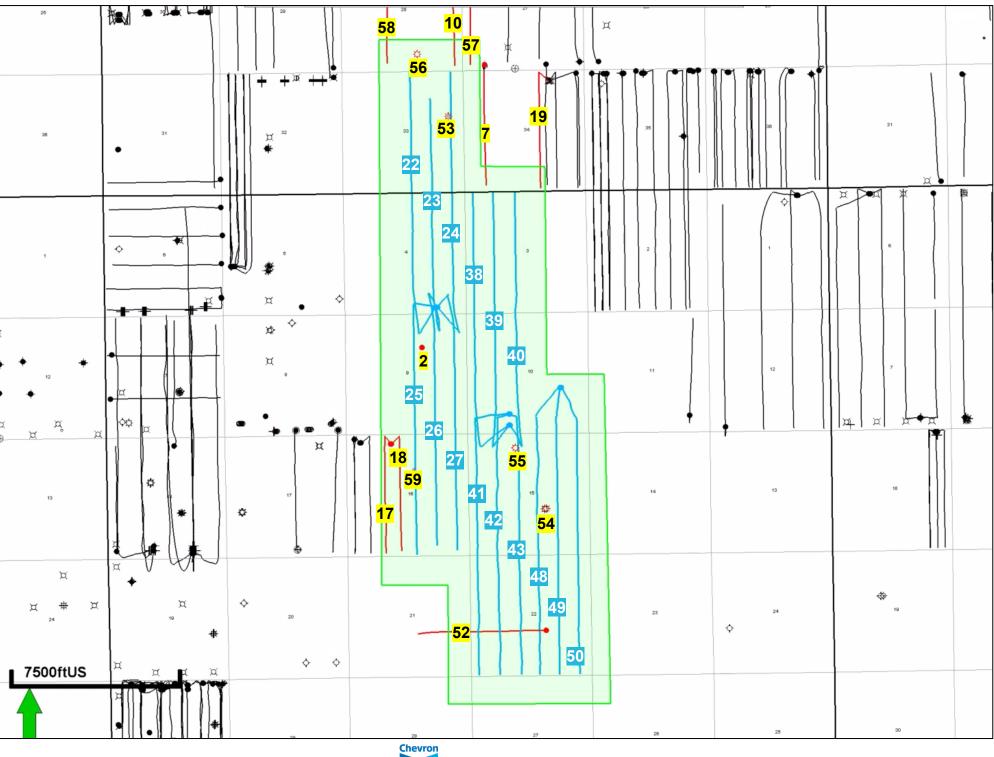
### <u>Key</u>

- Injection wells trajectories
- 3<sup>rd</sup> party wells
- 3<sup>rd</sup> party wells with similar landings within ¼-mile

1/4-mile outline

- 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



# **AREA OF REVIEW (AOR)**

- Schematic for each plugged and abandoned or temporary abandoned well that penetrates either the C) 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;
  - current casing configuration including tops of cement and how such top was determined; and ii.
  - description of any plugs, including setting depths, sacks of cement used, and estimated top of iii. cement.



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## **OPERATIONS AND SAFETY**

- Summary of the operational plan to ensure safe operation and efficient response in the event of a) emergency, including SCADA system to monitor and collect relevant data, including:
  - for each CLGC well, the oil and gas production and injection flow rates, tubing pressure, and annulus i. pressure for all casing strings;
  - for each well required by OCD, which may include wells located within one-quarter (1/4) mile of each İİ. 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.



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### WELLSITE CLGC

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

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

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



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### GAS COMPRESSOR STATION (CS)

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

- Safety devices
  - Discharge/injection pressure kills of each compressor and for a) the station.
  - Relief Valves on 3rd stage of compressors, to prevent over b) pressurization (not monitored via SCADA other than pressure trend).
  - Station recycle valves (that recycle discharge pressure back to C) suction) if the pressure is getting too high for the compressor or station.
- Standardized automated choke valves. 11

### SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA)

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

- 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).
- The High Alarms and High-High Alarms will be logged and Π. 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 nonrecordable.

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



## **AFFIRMATIVE STATEMENTS**

- Affirmative statement that the operator examined the available geologic and engineering data and found a) no evidence of open faults or other hydrologic connections between the disposal zone and any underground source of drinking water.
- Affirmative statement that the operator examined the available geologic and engineering data and b) determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the project.



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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

Yula Tang, Reservoir Engineer

6/25/2024

Date

2024

Date

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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.

6/25/2024

Yula Tang, Reservoir Engineer

Date

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

	<sup>1</sup> API Nut	nber	<sup>2</sup> Pool	Code	È.	<sup>3</sup> Pool Name						
	3002546	644	510	587	RED TANK; BONE SPRING, EAST							
<sup>4</sup> Proper	rty Code			<sup>5</sup> P	roperty Name				6	Well Number		
326	765			DL 4	33 FED COM					4H		
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name					<sup>9</sup> Elevation		
43	23			CHEVE	RON U.S.A. IN	C.			-	3634'		
<sup>10</sup> Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
0	4	22 SOUTH	33 EAST, N.M.P.M	[.	264'	SOUTH	1347'	EA	ST	LEA		
			<sup>11</sup> Bottom	Hole Locat	tion If Diff	erent From S	Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
В	33	21 SOUTH	33 EAST, N.M.P.M	ſ	24'	NORTH	2302'	EA	ST	LEA		
<sup>12</sup> Dedicated A	cres <sup>13</sup> Jo	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.  $\frac{1}{2302} - \frac{1}{2302}$ 

### Released to Imaging: 9/19/2024 42:13:21PPM

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

-	<sup>1</sup> API Nun	ıber	<sup>2</sup> Pool	Code		<sup>3</sup> Pool Name						
	3002546	645	516	87	77 RED TANK; BONE SPRING, EAST							
<sup>4</sup> Proper	rty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number			
326	765			DL 4	33 FED COM				5H			
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name					<sup>9</sup> Elevation		
43	23			CHEVE	RON U.S.A. IN	C.				3633'		
<sup>10</sup> Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
Р	4	22 SOUTH	33 EAST, N.M.P.M		264'	SOUTH	1297'	EA	ST	LEA		
		n Pe	<sup>11</sup> Bottom	Hole Locat	tion If Diff	erent From S	Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County		
В	33	21 SOUTH	33 EAST, N.M.P.M		1170'	NORTH	1437'	EA	ST	LEA		
<sup>12</sup> Dedicated A	cres <sup>13</sup> Joi	nt or Infill	<sup>4</sup> Consolidation Code	<sup>15</sup> Order No.						13		
640	D	EFINING										

16			11111	11111	
1			A -1	B	17 OPERATOR CERTIFICATION
ACTUAL BHL			2		I hereby certify that the information contained herein is true and complete
X= 734,546'			17	1	to the best of my knowledge and belief, and that this organization either
Y= 524,346' NAD 27		Actual Bottom		1437'	
LAT. 32.439246° N LONG. 103.573084° W		Hole Location			owns a working interest or unleased mineral interest in the land including
X= 775,728'				1	the proposed bottom hole location or has a right to drill this well at this
V= 524 407'		@ 19,802' MD	. /	1	location pursuant to a contract with an owner of such a mineral or
LAT. 32.439369° N					
LONG. 103.573570° W		Final Bottom		1	working interest, or to a voluntary pooling agreement or a compulsory
FINAL BOTTOM TAKE POINT		Take Point	Sec. 33	С	pooling order heretofore entered by the division.
X= 734,550'		@ 19,713' MD	Sec. 33		
Y= 524,257' NAD 27				1	Cindy Hoppong-Munilla 12/1/2022
LAT. 32.439002° N		1,259' FNL		1 2	Cindy Herrera-Murillo 12/1/2022 Signature Date
X= 775,732'		1,434' FEL			Sector Date
Y= 524.318'				1	Cindy Herrera-Murillo
LAT. 32.439125° N				1	Printed Name
LONG. 103.573559° W	CORNER COORDINATES				1 miled I valle
FINAL TOP TAKE POINT	TABLE (NAD 27)	T21S-R33E	D	E	eeof@chevron.com
X= 734,732'	A - Y=525510.15, X=733334.94				E-mail Address
Y= 515,063' NAD 27	B - Y=525523.39, X=735970.99	T22S-R33E		1	E-mail Address
LAT. 32.413726° N LONG. 103.572695° W	C - Y=522884.59, X=735996.98			1 1	
X= 775,914'	D - Y=520233.70, X=733383.21	Closest Point			<b><sup>18</sup>SURVEYOR CERTIFICATION</b>
Y= 515 124'	E - Y=520252.31, X=736025.52	to West Unit	1196'	1	
LAT. 32.413849° N	F - Y=514948.69, X=733418.21 G - Y=514965.47, X=736060.36	Line @	1190		I hereby certify that the well location shown on this
LONG. 103.573180° W	H - Y=513645.07. X=736071.01	14.389' MD -			plat was plotted from field notes of actual surveys
KICK OFF POINT		14,505 100		1	
X= 734,868'					made by me or under my supervision, and that the
Y= 514,192' LAT. 32.411329° N NAD 27		Sec. 4			same is true and correct to the best of my belief.
LONG. 103.572275° W					Date of Survey
X= 776,050'		Final Top		1	AL. LASTA
Y= 514,253' NAD83/86				1	
LAT. 32.411452° N		Take Point			Date of Survey
LONG. 103.572760° W DL 4 33 LOCH NESS P1 FED		@ 10,501' MD			Signature and Seal of Professional Surveyor
COM 5H WELL (AS-STAKED)		106' FSL		7	
X= 734,762'		1,328' FEL			(23006) 05/11/2022
V- 515 221'				1297	
LAT. 32.414160 N NAD 27			F	G , , , G	
LONG. 103.572594 W		Kick Off Point		IN t	X / A KOX X / X
X= 775,944'		@ 9,210' MD			STAR ESSIONAL SURTE
Y= 515,282' NAD83/86		766' FNL Sec	. 9	264	
LONG. 103.573080° W		1,199' FEL		н	Certificate Number
1					Ľ

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 2220 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

AMENDED REPORT

1	<sup>1</sup> API Nu	nber	<sup>2</sup> Pool (	Code	<sup>3</sup> Pool Name						
	300254	6646	5168	37		RED T	ANK; BONE S	SPRING,	EAST		
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number		
326	765			DL 4	33 FED COM					6H	
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name					<sup>9</sup> Elevation	
43	23			CHEVR	RON U.S.A. IN	C.				3632'	
<sup>10</sup> Surface Location											
UL or lot no.	Sectio	1 Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
Р	4	22 SOUTH	33 EAST, N.M.P.M.		264' SOUTH 1247' EAST						
			<sup>11</sup> Bottom H	Iole Locat	ion If Diff	erent From S	Surface				
UL or lot no.	Section	1 Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
A	33	21 SOUTH	33 EAST, N.M.P.M.		27'	NORTH	543'	EA	ST	LEA	
<sup>12</sup> Dedicated A	ated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> 0			<sup>5</sup> Order No.	i.		s ():				
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					Ϋ́ B	<sup>17</sup> OPERATOR CERTIFICATION
	ACTUAL BHL			<b>!</b> ^	/// <sup>•</sup>	I hereby certify that the information contained herein is true and complete
	X= 735,428'		Actual Bottom			to the best of my knowledge and belief, and that this organization either
	Y= 525,494' LAT. 32.442384° N		Hole Location			
	LONG. 103.570198° W		@ 20,694'			owns a working interest or unleased mineral interest in the land including
6	X= 776,610'		MD	Ł /		the proposed bottom hole location or has a right to drill this well at this
	Y= 525,555' LAT. 32.442507° N		l l			location pursuant to a contract with an owner of such a mineral or
	LONG. 103.570684° W		Final Bottom ——	6	1	working interest, or to a voluntary pooling agreement or a compulsory
	FINAL BOTTOM TAKE POINT		Take Point		С	pooling order heretofore entered by the division.
1	X= 735,430'		@ 20,532' MD	Sec. 33		
	Y= 525,332' LAT. 32.441938° N		189' FNL	k		Cindy Herrera-Murillo 12/1/2022
	LAT. 32.441938° N LONG. 103.570195° W		534' FEL	<b>t</b>		Signature Date
8	X= 776,612'	1		<u>k</u>		
	Y= 525,393' LAT. 32.442062° N					Cindy Herrera-Murillo
	LONG. 103.570681° W			<b>k</b>		Printed Name
8	FINAL TOP TAKE POINT	CORNER COORDINATES		F		eeof@chevron.com
1	X= 735,535'	TABLE (NAD 27) A - Y=525510.15, X=733334.94	T21S-R33E	D	E	
	Y= 515,068' NAD 27	B - Y=525523.39, X=735970.99	T22S-R33E	F		E-mail Address
	LAT. 32.413724° N LONG. 103.570093° W	C - Y=522884.59, X=735996.98		<b>t</b>		
1	X= 776,717'	D - Y=520233.70, X=733383.21 E - Y=520252.31, X=736025.52				<sup>18</sup> SURVEYOR CERTIFICATION
	Y= 515,129' LAT. 32.413848° N	F - Y=514948.69, X=733418.21		ř		I hereby certify that the well location shown on this
	LONG. 103.570578° W	G - Y=514965.47, X=736060.36		Ł 🗌	1	
	KICK OFF POINT	H - Y=513645.07, X=736071.01				plat was plotted from field notes of actual surveys
- 8	χ= 735,730'			t I		made by me or under my supervision, and that the
	Y= 514,127' LAT. 32.411133° N		Sec. 4	6	0.2	same is true and correct to the best of my belief.
	LONG. 103.569484° W			Ï	1.00	
	X= 776,912'		k.			Date of Survey Signature and Seal of Poressional Surveyor:
	Y= 514,187' LAT. 32.411256° N		Final Top			Date of Survey Signature and Seal of Peression Surveyor:
	LONG, 103.569969° W		Take Point	k		Bate of Survey
1	DL 4 33 LOCH NESS P1		—@ 10,262' MD —	F -		Signature and Seal of Professional Surveyor:
	FED COM 6H WELL (AS-STAKED)		106' FSL		50 \ K	
3	X= 734,812'		525' FEL	<b>F</b>		
	Y= 515,222' NAD 27			1247-0		
	LAT. 32.414161° N LONG. 103.572432° W		Kick Off Point	F	<b>T</b> G	
8	X= 775,994'			1° 1		
	Y= 515,283' NAD83/86		837' FNL Se	c. 9	X	Certificate Number
	LAT. 32.414284° N LONG. 103.572918° W		338' FEL	$\leftarrow$	H	
<u>ت</u>	LONG. 100.072010 W					

### Released to Imaging: 9/19/2024 12:13:21PPM

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											
2	<sup>1</sup> API Nun	ıber	<sup>2</sup> Poo	ol Code	de <sup>3</sup> Pool Name						e.	
	3002546	647	51	687			RED T	ANK; BONE S	SPRING, I	EAST		
<sup>4</sup> Proper	ty Code				<sup>5</sup> Pı	operty Name				6 -	Well Number	
326	766				DL 9	16 FED COM					16H	
<sup>7</sup> OGR	ID No.				<sup>8</sup> O	perator Name					<sup>9</sup> Elevation	
43	23				CHEVF	RON U.S.A. IN	C.			3634'		
а м с	<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
0	4	22 SOUTH	33 EAST, N.M.P.N	Л.		264	SOUTH	1372'	EA	ST	LEA	
			<sup>11</sup> Bottom	Hole	Locat	tion If Diff	erent From S	Surface				
UL or lot no.	Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
0	16	22 SOUTH	SOUTH 33 EAST, N.M.P.M. 25' SOUTH 2310' EA							ST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Joi	nt or Infill	Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.									
640 INFILL												

16         DL 9 16 LOCH NESS P1 FED COM 16H WELL (AS-STAKED)         X=       734,687"         Y=       515,221"         LAT.       32,414161° N         LONG.       103.572837° W         X=       775,869"         Y=       515,282"         LAT.       32,414284° N         LONG.       103.57323° W         X=       775,869"         Y=       515,387"         LAT.       32,414635° N         LONG.       103.575785° W         X=       774,958"         Y=       515,448"         LONG.       103.576785° W         X=       774,958"         Y=       514,428"         LAT.       32,414035° N         LONG.       103.576870° W         FINAL TOP TAKE POINT       X=         X=       774,932"         Y=       514,828"         Y=       514,829" NAD83/86         LAT.       32.84738° N         LAT.       32.84738° N         X=       773.845"         Y=       504,532" NAD 27         LONG.       103.576890" W         X=       775,028"         Y=       <	Sec. 16 Final Bottom Take Point @ 20,324' MD @ 20,324' MD Bottom Bottom Bottom Call Bottom Call /sup> 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 Printed Name <u>eeof@chevron.com</u> E-mail Address <sup>18</sup> 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 Processional Surveyor. Signature and Seal of Processional Surveyor. 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 <sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name 51687 RED TANK; BONE SPRING, EAST 3002546648 <sup>4</sup> Property Code <sup>5</sup> Property Name Well Number 326766 DL 9 16 FED COM 17H <sup>7</sup>OGRID No. 8 Operator Name <sup>9</sup> Elevation 4323 CHEVRON U.S.A. INC. 3634' <sup>10</sup> Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 0 4 22 SOUTH 33 EAST, N.M.P.M. 264' SOUTH 1322' EAST LEA <sup>11</sup> Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line East/West line County Range Feet from the Section Township 0 16 22 SOUTH 33 EAST, N.M.P.M. 431' SOUTH 1415' EAST LEA 12 Dedicated Acres <sup>13</sup> Joint or Infill Consolidation Code <sup>15</sup> Order No. 640 DEFINING

16           DL 9 16 LOCH NESS P1 FED COM 17H WELL (AS-STAKED)           X=         734,737           Y=         515,221' LAT.           LONG.         103,572675 W           X=         775,919' Y=           Y=         515,282' NAD8366           LAT.         32,414/84" N           LONG.         103,573161 W           KICK OFF POINT         X=           X=         734,414' Y=           Y=         515,839' NAD 27	Kick Off Point @ 9,096' MD Sec. 4 883' FSL 1,640' FEL Final Top Take Point @ 10,511' MD 105' FNL 1,457' FEL (Closest Point to	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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 amineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Cincly Herrera-Murillo 12/1/2022
LAT. 32.415864° N NAD 27 LONG. 103.573707° W X= 775,58° Y= 515,89° NAD8366 LAT. 32.415987° N FINAL TOP TAKE POINT X= 734,604' Y= 514,851' NAD 27 LONG. 103.573114° W X= 775,786' Y= 514,912' NAD8366 LONG. 103.573114° W X= 775,786' Y= 514,912' NAD8366 LAT. 32.413147° N NAD8366 LAT. 32.413147° N X= 775,786' Y= 504,911' LAT. 32.385822° N NAD8366 LONG. 103.573437° W ACTUAL BHL X= 734,727' Y= 504,911' LAT. 32.385945° N NAD8366 LONG. 103.573437° W ACTUAL BHL X= 734,727' Y= 504,911' LAT. 32.385945° N NAD8366 LONG. 103.573437° W ACTUAL BHL	63 21 36 66 10 72 88 86 Final Bottom Take Point @ 20,459' MD 511' FSL 1,416' FEL	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         23006       05/11/2022
LAT. 32.385602° N NAD 27 LONG. 103.572948° W X= 775,909' Y= 504,892' LAT. 32.385725° N NAD8386 LONG. 103.573432° W	Actual Bottom Hole Location @ 20,539' MD G G	Certificate Number

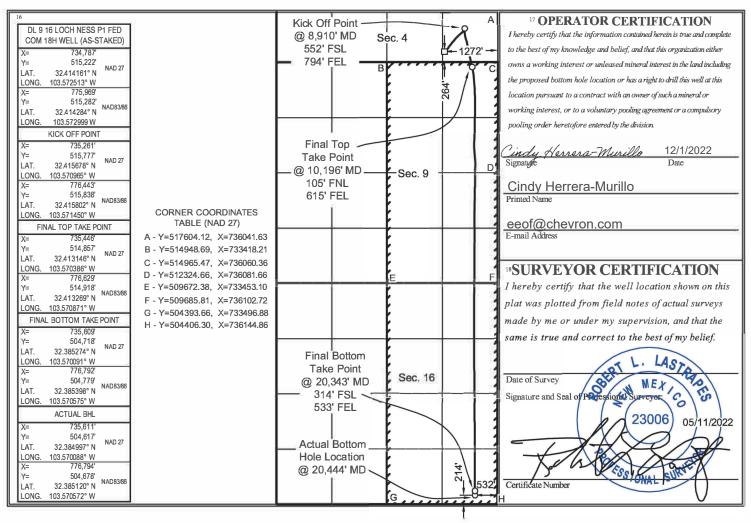
## State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number					<sup>2</sup> Pool	l Co	de	1	<sup>3</sup> Pool Name						
3002546649 51687								RED TANK; BONE SPRING, EAST							
<sup>4</sup> Proper	rty Code						<sup>5</sup> P	roperty Name			<sup>6</sup> Well Number				
326	6766						DL 9	16 FED COM					18H		
<sup>7</sup> OGR	ID No.						<sup>8</sup> Oj	perator Name					<sup>9</sup> Elevation		
43	23						CHEVE	RON U.S.A. IN	C.				3633'		
2) (7)	<sup>10</sup> Surface Location														
UL or lot no.	Secti	on T	`ownship		Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
Р	4	2	2 SOUTH	33 E	EAST, N.M.P.M	[.		264'	SOUTH	1272'	EA	ST	LEA		
P1	2	14		wf	<sup>11</sup> Bottom	Hc	ole Locat	ion If Diff	erent From S	Surface	Ċ.		4. Biji		
UL or lot no.	Secti	on	Township		Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
Р	16	2	2 SOUTH	33 E	EAST, N.M.P.M	[.		214'	SOUTH	532'	EA	ST	LEA		
<sup>12</sup> Dedicated A	cres <sup>13</sup> .	oint	or Infill	or Infill <sup>14</sup> Consolidation Code <sup>15</sup> O									2		
640		INFILL													



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 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

	<sup>1</sup> API Nur			ol Code	RF	RED TANK; BONE SPRINGS EAST						
	3002549	078	510	51687 RED TANK; BONE SPE								
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number			
3310	68			DL 1	0 3 FED COM				207Н			
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name					<sup>9</sup> Elevation		
4323	3			CHEVF	RON U.S.A. IN	С.				3558'		
<sup>10</sup> Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
Ν	10	22 SOUTH	33 EAST, N.M.P.N	4.	370'	SOUTH	1790'	WE	EST	LEA		
			<sup>11</sup> Bottom	Hole Locat	tion If Diffe	erent From S	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.N	4.	68'	NORTH	341'	WE	EST	LEA		
<sup>12</sup> Dedicated A	cres <sup>13</sup> Joi	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.								
640		NFILL										

			<u>*</u>		-		
16	341'	A		B	С	D	<sup>17</sup> OPERATOR CERTIFICATION
DL 10 3 FED COM	KICK OFF POINT	614	I M				<i>I hereby certify that the information contained herein is true and complete</i>
NO. 207H WELL	X = 736,651' (NAD27 NM E)	KI\	õ		Last Take	- Point	
X = 737,890' (NAD27 NM E) Y = 510.067'	Y = 509,128' LAT. 32.397375° N (NAD27)	KI Y			at 20,46		to the best of my knowledge and belief, and that this organization either
LAT. 32.399931° N (NAD27)	LONG. 103.566613° W	k	$\rightarrow \downarrow$		287.57		owns a working interest or unleased mineral interest in the land including
LONG. 103.562580° W X = 779,072' (NAD83/2011 NM E)	X = 777,834' (NAD83/2011 NM E) Y = 509.188'	KI.			346.36	· ·	the proposed bottom hole location or has a right to drill this well at this
Y = 510,127'	LAT. 32.397496° N (NAD83/2011)	6			340.30	FVVL	location pursuant to a contract with an owner of such a mineral or
LAT. 32.400052° N (NAD83/2011) LONG. 103.563064° W	LONG. 103.567098° W	ĽI					working interest, or to a voluntary pooling agreement or a compulsory
LUNG. 103.563064 W	LAST TAKE POINT	<u>E</u>	_ (j)		Sec	~ 3	
FIRST TAKE POINT	X = 736,374' (NAD27 NM E) Y = 519,967'	KI.	 (Defining)			5.0	pooling order heretofore entered by the division.
X = 736,549' (NAD27 NM E) Y = 509,722'	LAT. 32.427174° N (NAD27)	61	Def				0. 1. 1/
LAT. 32.399009° N (NAD27)	LONG. 103.567262° W X = 777.556' (NAD83/2011 NM E)	KI.					Cindy Herrera-Murillo 01/31/2023
LONG. 103.566930° W X = 777.732' (NAD83/2011 NM E)	Y = 520,027'	61	ere				Signature Date
Y = 509,782' LAT. 32.399131° N (NAD83/2011)	LAT. 32.427295° N (NAD83/2011) LONG. 103.567747° W	烆	   Lateral				Cindy Herera-Murillo
LONG. 103.567415° W	AS-DRILLED BOTTOM	ŁL	208H				Printed Name
	HOLE LOCATION X = 736,367' (NAD27 NM E)	61					
	Y = 520,187'	Ē	No.	F	G	Н	Cherreramurillo@chevron.com
	LAT. 32.427777° N (NAD27) LONG, 103.567278° W	Ϋ́	Com				E-mail Address
	X = 777,549' (NAD83/2011 NM E)	11	ed 0				
	Y = 520,247' LAT. 32.427898° N (NAD83/2011)	K1	ш.				<sup>18</sup> SURVEYOR CERTIFICATION
	LONG. 103.567763° W	61	10 3		First Tak		
		11	DL 1		at 10,04		I hereby certify that the well location shown on this
CORNER	COORDINATES	ŁI			33.33' 446.96	· · ·	plat was plotted from field notes of actual surveys
TAB	LE (NAD 27)	EL			440.90		made by me or under my supervision, and that the
A - X=7360	025.52, Y=520252.31	KL.			Sec.	10	same is true and correct to the best of my belief.
B - X=7373	346.67, Y=520261.62	k1			000	10	
	667.82, Y=520270.92	61		Y ·	Kick O	off Point	08/24/2021
	306.31, Y=520276.31	kΙ				00' MD	
	060.36, Y=514965.47 381.93, Y=514973.52 331.99'	┟┝	⊢ /		· · · · ·	7' FNL,	Date of Survey
	703.50. Y=514973.52	kt	-/1			7 FINL, 8' FWL	Date of Survey Signature and Seal of Professional Surveyor:
	345.26, Y=514996.96	51	//		544.10		S & CO Z
	102 72 Y=509685 81	Ł۱	/ V				( 22921)
	446.96'	ĿI	T.A		ĸ		
	742.61, Y=509701.75	٣٩				L	Stemen Coleman
L - X=741	384.61, Y=509713.53				_		01/16/2023
			1790'	370	Sec	. 15	Certificate Number
							Certificate Number
		1		1	I		

 District I

 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 Submit one copy to appropriate District Office

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number <sup>2</sup> Pool C			Code		<sup>3</sup> Pool Name					
	300254	9079		5168	7	RED TANK; BONE SPRINGS EAST					
	ty Code		<sup>5</sup> Property Name								
3310	331068 DL 10 3 FED COM									208H	
<sup>7</sup> OGR	ID No.				<sup>8</sup> C	perator Name					<sup>9</sup> Elevation
432	23				CHEV	RON U.S.A. IN	С.				3557'
	<sup>10</sup> Surface Location										
UL or lot no.	Secti	n Township	Ra	ange	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County
Ν	10	22 SOUTH	I 33 EAST	T, N.M.P.M		370'	SOUTH	1815'	WE	WEST LEA	
			11	Bottom ]	Hole Loca	tion If Diff	erent From S	Surface			
UL or lot no.	Section	n Township	Ra	ange	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County
D	3	22 SOUTH	1 33 EAST	T, N.M.P.M		40'	NORTH	1225'	WEST		LEA
<sup>12</sup> Dedicated A	cres <sup>13</sup> J	oint or Infill	<sup>14</sup> Consolida	ation Code	<sup>15</sup> Order No.						
640		DEFINING	INING								

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.  $\frac{3}{9}$ 

DL 10 3 FED COM KICK OFF POINT		
NO. 208H WELLX = 737,167' (NAD27 NM E)X = 737,915' (NAD27 NM E)Y = 509,130'Y = 510,167'LAT. 32.39930' N (NAD27)LONG. 103.562499' WX = 778,350' (NAD83/2011 NM E)Y = 510,127'LAT. 32.39742' N (NAD83/2011)LAT. 32.40054' N (NAD27)LONG. 103.565427' WLONG. 103.562983' WLAT. 32.39742' N (NAD83/2011)Y = 509,726'LAT. 32.40054' N (NAD27)LONG. 103.5664898' WLAT. 32.427753' N (NAD27)LONG. 103.565473' WLAST TAKE POINTX = 778,724' (NAD33/2011 NM E)Y = 520,200'Y = 509,786'LAT. 32.427752' N (NAD83/2011)LONG. 103.5654173' WX = 778,43' (NAD83/2011)LONG. 103.5654173' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564412' WX = 778,43' (NAD83/2011)LONG. 103.564412' WX = 778,43' (NAD83/2011)LONG. 103.564412' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564497' WX = 778,43' (NAD83/2011)LONG. 103.564897' WX = 778,43' (NAD83/2011)LONG. 103.564897' WX = 778,73' 4.6(-7, Y=520256.31)L = X = 736060.36, Y = 514965.47F - X = 737381.93, Y = 514973.52G - X = 738703.50, Y = 514981.57H - X = 741345.26, Y = 514996.96I - X = 736102.72, Y = 509685.81J = X = 736102.72, Y = 509693.78K - X = 738742.61, Y	A       1225'1       B       C       D         Last Take Point       at 20,399' MD       121.29' FNL,       1224.65' FWL         1224.65' FWL       Sec. 3       Sec. 3       Sec. 3         E       F       G       H         70.80'       Sec. 10       First Take Point at 9,978' MD       33.44' FSL,         1138.82' FWL       Kick Off Point at 9,013' MD       S62.11' FNL,       1060.07' FWL         I       I       K       L       L         181.16'       Sec. 15       Sec. 15       Sec. 15	<sup>17</sup> 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. Cincly Herrera-Murillo Printed Name Cherreramurillo@chevron.com E-mail Address 1 <sup>18</sup> 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 08/24/2021 Date 08/24/2021 M. Content of Survey Signature and Seal of Protestory Surveyor, Outlof/2023 Signature Survey Signature and Seal of Protestory Surveyor, Outlof/2023 Signature Survey Signature and Seal of Protestory Surveyor, Outlof/2023 Signature Survey Signature and Seal of Protestory Surveyor, Outlof/2023 Survey Signature Survey Signature Su

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 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

X AMENDED REPORT

### As Drilled

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number			Code	<sup>3</sup> Pool Name						
	3002549080 51687					RED TANK; BONE SPRINGS EAST					
<sup>4</sup> Proper	ty Code		1	<sup>5</sup> Pi	roperty Name				6	Well Number	
3310	)68			DL 1	0 3 FED COM					209Н	
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name					<sup>9</sup> Elevation	
4323				CHEVR	RON U.S.A. IN	C.				3557'	
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	wnship Range		Feet from the	North/South line	Feet from the	East/West line		County	
Ν	10	22 SOUTH	33 EAST, N.M.P.M		370'	SOUTH	1840'	WE	ST	LEA	
			<sup>11</sup> Bottom	Hole Locat	ion If Diffe	erent From S	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
C	3	22 SOUTH	SOUTH 33 EAST, N.M.P.M.		40'	NORTH	2179	WE	EST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Jo	nt or Infill	or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Orde								
640		INFILL									

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 = 501,128' LAT. 32.400054' N (NAD83/86) LONG. 103.562902' W       X = 779,629' (NAD83/2011 NM E) Y = 509,188' LAT. 32.39740' N (NAD27) LONG. 103.561282' W         FIRST TAKE POINT X = 738,373' (NAD27 NM E) Y = 509,735' LAT. 32.39910' N (NAD27) LONG. 103.561203' W X = 779,555' (NAD83/2011 NM E) Y = 509,735' LAT. 32.427741'' N (NAD83/2011) LONG. 103.561507' W       LAT. 32.427620' N (NAD27 NM E) Y = 500,795' LAT. 32.427741'' N (NAD83/2011) LONG. 103.561507' W         LONG. 103.561507' W       X = 779,355' (NAD27 NM E) Y = 520,203' LAT. 32.427741'' N (NAD83/2011) LONG. 103.561302'' W       X = 779,355' (NAD27 NM E) Y = 520,203' LAT. 32.427741'' N (NAD83/2011) LONG. 103.561307'' W         CORNER COORDINATES TABLE (NAD 27) LONG. 103.561807'' W       X = 7736025.52, Y = 520252.31 B - X = 736025.52, Y = 520252.31 B - X = 736607.82, Y = 520270.92 D - X = 741306.31, Y = 520276.31 E - X = 73600.36, Y = 514965.47 F - X = 737341.93, Y = 514973.52 G - X = 738703.50, Y = 514981.57 H - X = 737042.67, Y = 500685.81 L - X = 736102.72, Y = 500685.81 L - X = 736102.72, Y = 500685.81 L - X = 736102.72, Y = 500685.81 L - X = 736102.72, Y = 500685.81 L - X = 736102.72, Y = 500685.81	А 2179'0 2179'0 DГ 10 3 Fed Com No. 208Н Lateral (Defining) 1840,	F	Last Take Point at 20,368' MD 124.94' FNL, 2179.04' FWL Sec. 3 G H 508.85' First Take Point at 9,947' MD 35.87' FSL, 2270.26' FWL Kick Off Point at 9,005' MD	<sup>17</sup> 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 O1/26/2023 Signature Date Cindy Herera-Murillo Printed Name Cherreramurillo@chevron.com E-mail Address <sup>18</sup> 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. O8/24/2021 Date OF SURVEYOR
G - X=738703.50, Y=514981.57 H - X=741345.26, Y=514996.96	<u>1840'</u> 1		, Kick Off Point	Signature and Seal of Professional Surveyor 222921 Terrier 70 01/16/2023 Certificate Number

 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 Submit one copy to appropriate District Office

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number <sup>2</sup> Pool Code				' Pool Name						
	300254	906	978	846		WC-0	25 G-06 S2233	322J; BOI	NE SPRI	NG	
<sup>4</sup> Proper	ty Code			5 ]	Property Name				<sup>6</sup> Well Number		
DL 10 15 0					GOPOGO FEI	D COM				422H	
<sup>7</sup> OGR	ID No.			8 (	Operator Name			8		<sup>9</sup> Elevation	
	CHEVRON U.S									3563'	
<sup>10</sup> Surface Location											
UL or lot no.	Sectio	Township	Range	Lot Idr	Feet from the	North/South line	Feet from the	East/	West line	County	
1	10	22 SOUTH	33 EAST, N.M.P.M	[	1986'	SOUTH	1238'	EA	ST	LEA	
co	0		<sup>11</sup> Bottom	Hole Loca	tion If Diff	erent From S	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
0	22	22 SOUTH	33 EAST, N.M.P.M	[. ]	42'	SOUTH	2297'	EA	ST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Jo	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.							
640		INFILL									

16		
10		A B C D <sup>17</sup> OPERATOR CERTIFICATION
DL 10 15 OGOPOGO FED COM		1238' I hereby certify that the information contained herein is true and complete
NO. 422H WELL X = 740.131' (NAD27 NM E)	X = 739,077' (NAD27 NM E) Y = 510,391'	to the best of my knowledge and belief, and that this organization either
Y = 511,694'	LAT. 32.400798° N (NAD27)	
LAT. 32.404358° N (NAD27)	LONG. 103.558726° W X = 780.259' (NAD83/2011 NM E)	Sec. 10 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
LONG. 103.555281° W X = 781,313' (NAD83/2011 NM E)	X = 780,259 (NAD83/2011 NM E) Y = 510.451	Kick Off Point
Y = 511,754'	LAT. 32.400920° N (NAD83/2011)	
LAT. 32.404482° N (NAD83/2011)	LONG. 103.559210° W	at 10,356 MD
LONG. 103.555766° W	LAST TAKE POINT	IF OUT.TZ TOL, IF O TYNGT THE
FIRST TAKE POINT	X = 739,170' (NAD27 NM E) Y = 499,276'	2302.17' FEL pooling order heretofore entered by the division.
X = 739,105' (NAD27 NM E)	LAT. 32.370244° N (NAD27)	De Cindy Herrera-Murillo 5/1/2023
Y = 509,640' LAT. 32.398732° N (NAD27)	LONG. 103.558686° W	413.74 - E Cindy Herrera-Murillo 5/1/2023
LONG. 103.558652° W	X = 780,353' (NAD83/2011 NM E) Y = 499.335'	Signature Date
X = 780,288' (NAD83/2011 NM E) Y = 509,699'	LAT. 32.370366° N (NAD83/2011)	413.74' First Take Point at 11,572' MD 63.84' FNL, First Take Point 63.84' FNL, First Take Point Cindy Herrera-Murillo First Take Point Cindy Herrera-Murillo Printed Name
LAT. 32.398854° N (NAD83/2011)	LONG. 103.559169° W	at 11,572' MD
LONG. 103.559136° W	AS-DRILLED BOTTOM	63.84' FNL.
	HOLE LOCATION	
	X = 739,165' (NAD27 NM E) Y = 499,187'	
	LAT. 32.370001° N (NAD27)	313.45' E-mail Address
	LONG. 103.558702° W X = 780.348' (NAD83/2011 NM E)	
	Y = 499,247'	
	LAT. 32.370123° N (NAD83/2011)	Sec. 15
	LONG. 103.559185° W	<i>I hereby certify that the well location shown on this</i>
	R COORDINATES	J     K       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       O     J       J     K       J     K       O     J       J     K       J     K       J     K       J     K       J     K       J     K       J     K       J     K       J     K       J
	3LE (NAD 27) 81.66, Y=512324.66	made by me or under my supervision, and that the
	23.06, Y=512324.00	same is true and correct to the best of my belief.
	43.24, Y=512349.58	
	63.42, Y=512357.89	
	02.72, Y=509685.81	Sec. 22
	42.61, Y=509701.75 63.61. Y=509707.64	Sec. 22
	84.61. Y=509713.53	Signature and Seal of Professional Surveyor
I - X=7361	44.86, Y=504406.30	Sec. 22
	84.10, Y=504419.02	
	99.78, Y=504428.27 15.47, Y=504437.51	
M - X=7361	87.53, Y=499128.78	Last Take Point
	23.86, Y=499143.28 43.20, Y=499150.77	at 21,952' MD temen to eman
	43.20, Y=499150.77 62.53. Y=499158.27	130.40' FSL, 2291.70' FEL S 2297'
	,	2291.70' FEL 2297' Certificate Number
		Certificate Number
		MN_81P1

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

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Num	I Number <sup>2</sup> Pool Code				<sup>3</sup> Pool Name					
	3002549	907	9784	46	WC-025 G-06 S223322J; BONE SPRING						
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number		
DL 10 15 O					GOPOGO FEI	ОСОМ				423H	
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name			6		<sup>9</sup> Elevation	
				CHEVE	RON U.S.A. IN	C.				3563'	
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
1	10	22 SOUTH	33 EAST, N.M.P.M.	1	1986'	SOUTH	1213'	EAST		LEA	
en			<sup>11</sup> Bottom I	Hole Locat	tion If Diffe	erent From S	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
0	22	22 SOUTH	33 EAST, N.M.P.M.		39'	SOUTH	1427'	7' EA		LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Join	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.							
640	DI	FINING									

F				
16		A B	C D	17 OPERATOR CERTIFICATION
DL 10 15 OGOPOGO FED COM	KICK OFF POINT		1213'	I hereby certify that the information contained herein is true and complete
NO. 423H WELL	X = 739,938' (NAD27 NM E)			
X = 740,156' (NAD27 NM E) Y = 511,694'	Y = 510,412' LAT. 32.400838° N (NAD27)		1.	to the best of my knowledge and belief, and that this organization either
LAT. 32.404358° N (NAD27)	LONG. 103.555937° W	Sec. 10		owns a working interest or unleased mineral interest in the land including
LONG. 103.555199° W	X = 781,120' (NAD83/2011 NM E) Y = 510.472'		18	the proposed bottom hole location or has a right to drill this well at this
X = 781,339' (NAD83/2011 NM E) Y = 511,754'	LAT. 32.400959° N (NAD83/2011)		Q	location pursuant to a contract with an owner of such a mineral or
LAT. 32.404480° N (NAD83/2011)	LONG. 103.556421° W	Kick Off Point		* 5
LONG. 103.555684° W	LAST TAKE POINT	E at 10.124' MD	то <mark>G</mark> тт	working interest, or to a voluntary pooling agreement or a compulsory
FIRST TAKE POINT	X = 740,035' (NAD27 NM E)	704.53' FSL,	A	pooling order heretofore entered by the division.
X = 739,955' (NAD27 NM E)	Y = 499,269' LAT. 32.370209° N (NAD27)	1441.35' FEL		
Y = 509,672' LAT. 32.398804° N (NAD27)	LONG. 103.555885° W	1441.33 TEL	/ 1	
LONG. 103.555898° W	X = 781,218' (NAD83/2011 NM E) Y = 499.329'	First Take Point		Signature Date
X = 781,138' (NAD83/2011 NM E)	r = 499,529 LAT. 32.370330° N (NAD83/2011)	at 11,271' MD		Ũ
Y = 509,732' LAT. 32.398926° N (NAD83/2011)	LONG. 103.556368° W	35.25' FNL.		
LONG. 103.556382° W	AS-DRILLED BOTTOM			Printed Name
	HOLE LOCATION	1429.69' FEL		
	X = 740,035' (NAD27 NM E) Y = 499.189'			
	r = 499,169 LAT. 32.369990° N (NAD27)			E-mail Address
	LONG. 103.555884° W			
	X = 781,218' (NAD83/2011 NM E) Y = 499.249'	Sec. 15		
	LAT. 32.370111° N (NAD83/2011)		1 2	<b><sup>18</sup>SURVEYOR CERTIFICATION</b>
	LONG. 103.556368° W			I hereby certify that the well location shown on this
CORNER C	OORDINATES	1	K L	plat was plotted from field notes of actual surveys
	E (NAD 27)	0		made by me or under my supervision, and that the
	66, Y=512324.66			same is true and correct to the best of my belief.
	06, Y=512341.28 24, Y=512349.58			same is true and correct to the best of my beneg.
	42, Y=512349.56			00/04/0000
	72, Y=509685.81		120.07	06/24/2020 Date of Survey Signature and Seal of Professional Surveyor:
	61, Y=509701.75			Date of Survey Signature and Seal of Professional Surveyor:
	.61, Y=509707.64 61, Y=509713.53		1 1	Signature and Seal of Professional Surveyor.
	86. Y=504406.30	Sec. 22		S 4 C I
J - X=738784.	10, Y=504419.02		1 1	
K - X=740099.	78, Y=504428.27 47, Y=504437.51	Leat Take Daint	1 2	22921
	53, Y=499128.78	Last Take Point		( - ) h T / )
N - X=738823.	86, Y=499143.28	at 21,677' MD	1	Stenen Coeman
	.20, Y=499150.77	118.79' FSL,		01/16/2023 10 01/16/2023
P - X=741462.	53, Y=499158.27	1426.98' FEL	ନ୍ତି 1427	Certificate Number
		M N		Certificate Number
			MAR BOULP	
			1	

 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 Submit one copy to appropriate District Office

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number <sup>2</sup> Pool Code			Code	<sup>3</sup> Pool Name						
	3002549	908	978	346		WC-025 G-06 S223322J; BONE SPRING					
<sup>4</sup> Proper	ty Code	1		<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number		
DL 10 15 O					GOPOGO FEI	O COM				424H	
<sup>7</sup> OGR	ID No.			<sup>8</sup> O	perator Name			8		<sup>9</sup> Elevation	
	CHEVRON U.S.A. INC.									3563'	
<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
1	10	22 SOUTH	33 EAST, N.M.P.M		1986'	SOUTH	1188'	EA	ST	LEA	
	7		<sup>11</sup> Bottom	Hole Locat	tion If Diffe	erent From S	Surface				
UL or lot no.	Sectior	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
Р	22	22 SOUTH	33 EAST, N.M.P.M		42'	SOUTH	535'	EA	ST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Jo	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.							
640		INFILL									

16         KICK OFF POINT           NO. 424H WELL         X = 740,181' (NAD27 NM E)           X = 740,181' (NAD27 NM E)         Y = 510,401'           Y = 511,694'         LAT. 32.400790' N (NAD27)           LONG. 103.5556119' W         X = 782,003' (NAD83/2011 NM E)           Y = 511,754'         LONG. 103.555616' W           LAT. 32.404398' N (NAD27)         LONG. 103.555616' W           LONG. 103.555604* W         LAT. 32.400910' N (NAD83/2011)           LONG. 103.555604* W         LAT. 32.400911' N (NAD83/2011)           LONG. 103.555604* W         LAT. 32.400911' N (NAD83/2011)           LAT. 32.40479' N (NAD27) NM E)         Y = 740,925' (NAD27 NM E)           Y = 509,664' W         LAT. 32.398765' N (NAD27)           LONG. 103.553002' W         X = 782,032' (NAD83/2011 NM E)           Y = 509,664' N         X = 782,032' (NAD83/2011 NM E)           Y = 509,664' W         LAT. 32.3988765' N (NAD27)           LONG. 103.553002' W         X = 782,032' (NAD83/2011 NM E)           Y = 499,349'         LAT. 32.370246'' N (NAD83/2011 NM E)           Y = 509,724'         LONG. 103.553485' W           LONG. 103.553485' W         LONG. 103.553485' W	Sec. 10 Kick Off Point E at 10,378' MD 689.54' FSL, 558.48' FEL First Take Point at 11,537' MD 46.99' FNL,	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
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	Sec. 15	Printed Name E-mail Address <sup>18</sup> 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.
D - X=741363.42, Y=512357.89 E - X=736102.72, Y=509685.81 F - X=738742.61, Y=509707.64 H - X=741384.61, 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=499143.28 N - X=736187.53, Y=499143.28 O - X=740143.20, Y=499158.27	Sec. 22 Last Take Point at 21,916' MD 133.73' FSL, 536.83' FEL M N,, O,	06/24/2020 Date of Survey Signature and Seal of Professional Survey 580.99' Zenen Ol/16/2023 Certificate Number S/ONAL SURVEY

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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

	<sup>1</sup> API Nui	nber	<sup>2</sup> Pool	Code	<sup>3</sup> Pool Name						
	3002549	081	1 51687 RED TANK; BONE SPRING, EAST								
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number		
	DL 15 22 NARWHAL FED COM								219H		
<sup>7</sup> OGR	ID No.		<sup>8</sup> Operator Name <sup>9</sup> Elevation							<sup>9</sup> Elevation	
43	23			CHEVE	RON U.S.A. IN	C.				3563'	
<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	ownship Range		Feet from the	North/South line	Feet from the	East/V	West line	County	
N	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1790'	WE	ST	LEA	
		•	<sup>11</sup> Bottom I	Hole Locat	tion If Diff	erent From S	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County	
М	22	22 SOUTH	2 SOUTH 33 EAST, N.M.P.M.		42'	SOUTH	339'	WE	ST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Jo	nt or Infill	<sup>14</sup> Consolidation Code	<sup>5</sup> 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'           Y=         510,557'           LAT.         32,401278° N           LONG.         103,562581° W           X=         779,068'           Y=         510,618'           LAT.         32,401402° N           LONG.         103,563065° W           LONG.         KICK OFF POINT           X=         736,420'           Y=         510,357'           NAD 27	Kick Off Point — @ 9,055' MD 669' FNL, 323' FWL	A 1790' B Sec. 10 C Final Top Take Point @ 10,203' MD 177' FNL,	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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. Carl Adulta 3/30/2022
LAT. 32.400757° N NAD 27 LONG. 103.567333° W X= 777,603' Y= 510,417' NADB3/86 LAT. 32.400880° N FINAL TOP TAKE POINT X= 736.434' Y= 509,510' NAD 27 LAT. 32.398430° N LONG. 103.567308° W X= 777,617' Y= 509,571' NADB3/86 LAT. 32.398554° N NAD 27 LONG. 103.567792° W FINAL BOTTOM TAKE POINT	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=504768.57, X=736166.19 H - Y=499128.78, X=736187.53 I - Y=499143.28, X=736823.86	330' FWLSec. 15	Signature       Date         Carol Adler         Printed Name         caroladler@chevron.com         E-mail Address         **SURVEYOR CERTIFICATION         I hereby certify that the well location shown on this         plat was plotted from field notes of actual surveys
HNAL BOTTOM TAKE POINT           X=         736,525'           Y=         499,260'           LAT.         32.370254° N           LONG.         103.567250' W           X=         777,708'           Y=         499,321'           LAT.         32.370378' N           LONG.         103.567734' W           ACTUAL BHL         X=           X=         736,526'           Y=         499,172'           LAT.         32.370013' N           LONG.         103.567250' W           X=         777,709'           Y=         499,233'           LAT.         32.370136' N           LONG.         103.567733' W	Final Bottom Take Point @ 20,464' MD 130' FSL, 339' FWL ~	G Sec. 22 Actual Bottom Hole Location @ 20,552' MD	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. 23006 03/21/2022 Certificate Number

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

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Num	ber	<sup>2</sup> Pool	Code			<sup>3</sup> Pool Nat	ne			
	3002549	082	516	87		RED T	ANK; BONE S	PRING, I	EAST		
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number		
				DL 15 22 N/	ARWHAL FEI	D COM			220Н		
<sup>7</sup> OGR	ID No.		<sup>8</sup> Operator Name <sup>9</sup> Elevation						<sup>9</sup> Elevation		
43	23		CHEVRON U.S.A. INC. 3563'					3563'			
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
Ν	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1815'	WE	EST	LEA	
			<sup>11</sup> Bottom I	Hole Locat	tion If Diffe	erent From S	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
М	22	22 SOUTH	33 EAST, N.M.P.M.		40'	SOUTH	1254'	WE	EST	LEA	
<sup>12</sup> Dedicated A	cres <sup>13</sup> Join	t or Infill	<sup>4</sup> Consolidation Code	<sup>15</sup> Order No.							
640	DE	FINING									

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	A 1015	B		17 ODED & TOD CEDTIFIC & TION
DL 15 22 NARWHAL FED COM	A 1815			<sup>17</sup> OPERATOR CERTIFICATION
NO. 220H WELL (AS-STAKED) Kick Off Point -			Sec. 10	I hereby certify that the information contained herein is true and complete
X= 737,911' @ 8,906' MD Y= 510,557' WD 27				to the best of my knowledge and belief, and that this organization either
LAT. 32,401277° N NAD 27 651' FSL,		1		owns a working interest or unleased mineral interest in the land including
LONG. 103.562500° W 1289' FWL	С	ρ Γ		the proposed bottom hole location or has a right to drill this well at this
X= 779,093'	k.			
Y= 510,617' LAT. 32,401401° N NAD83/86				location pursuant to a contract with an owner of such a mineral or
LAT. 32.401401° N (1000000) LONG. 103.562984° W	ł.	1	Take Point	working interest, or to a voluntary pooling agreement or a compulsory
KICK OFF POINT			@ 9,875' MD	pooling order heretofore entered by the division.
X= 737,386'	K	1	31' FNL.	
Y= 510,344' LAT. 32,400703° N NAD 27	6	1	1278' FWL	Carol Adler 3/30/2022 Signature Date
LAT. 32.400703° N (NO 2) LONG. 103.564204° W	K	1 1		Signature Date
X= 778,569'		1 1	Sec. 15	Const A II.
Y= 510,405' LAT. 32,400827° N NAD83/86		/  7		Carol Adler
LONG 103 564689° W		1		Printed Name
EINIAL TOR TAKE DOINT CORNER COORDINATES		1		caroladler@chevron.com
TABLE (NAD 27)           X=         737,381'           X - Y=511005.24, X=736092.19	<u> </u>	1		E-mail Address
Y= 509,662' B - Y=511021.52, X=738732.84	K	1 7		L-mail Address
LAT. 32.398830° N C - Y=509685.81, X=736102.72	k.	1 1		
LONG. 103.564238° W X= 778,563' D - Y=509701.75, X=738742.61 E - Y=504406.30, X=736144.86	K	1 7		<sup>18</sup> SURVEYOR CERTIFICATION
Y= 509,723' F - Y=504419.02, X=738784.10	<u> </u>	1 1		I hereby certify that the well location shown on this
LAT. 32.398953° N G - Y=501768.57, X=736166.19	E	II E		
LONG. 103.564722° W H - Y=499128.78, X=736187.53 FINAL BOTTOM TAKE POINT I - Y=499143.28, X=738823.86	2	1		plat was plotted from field notes of actual surveys
FINAL BOTTOM TAKE POINT X= 737,437' I - Y=499143.28, X=738823.86	K	7		made by me or under my supervision, and that the
V- 499 256'	k.	1 1		same is true and correct to the best of my belief.
LAT. 32.370226° N NAD 27		1		
LONG. 103.564298° W	k.	1 1		
X= 778,620' Y= 499,317'		1 7		09/25/2019
LAT. 32.370349° N	G	1 1		09/25/2019 Date of Survey Signature and Seal of Processional Surveyor: 6
LONG. 103.564781° W		1 1	Sec. 22	Signature and Seal of Poressional Surveyor:
ACTUAL BHL Final Bottom	k.	1 1		
X=         737,441'         Take Point           Y=         499,176'         0.0,2041 MD		1 1		
LAT 32 370003° N NAD 27 @ 20,301 MD	k.	1 1		
LONG. 103.564287° W 121' FSL, 1251' FWL				
X= 778,624'		1 1	Actual Bottom	X / A KA X A
Y= 499,236' LAT. 32,370127° N NAD83/86		40	Hole Location	A CALLESS MALL SURVEY
LONG. 103.564771° W	K		@ 20,382' MD	Certificate Number
	H 1254'	a find		
		4		

# Dovice

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AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Nur	nber	<sup>2</sup> Pool	Code			<sup>3</sup> Pool Nat	me				
	3002549	083	5168	87	RED TANK; BONE SPRING, I				EAST			
<sup>4</sup> Proper	ty Code			<sup>5</sup> P	roperty Name				<sup>6</sup> Well Number			
				DL 15 22 N	ARWHAL FEI	D COM			221H			
<sup>7</sup> OGRI	ID No. <sup>8</sup> Operator Name <sup>9</sup> Elevation						<sup>9</sup> Elevation					
43	23			CHEVE	RON U.S.A. IN	IC.			3563'			
	<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County		
N	10	22 SOUTH	33 EAST, N.M.P.M.		860'	SOUTH	1840'	WE	ST	LEA		
			<sup>11</sup> Bottom I	Hole Locat	tion If Diff	erent From S	Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	Vest line	County		
N	22	22 SOUTH	33 EAST, N.M.P.M.		44'	SOUTH	2178'	WE	ST	LEA		
<sup>12</sup> Dedicated A	cres <sup>13</sup> Joi	nt or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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' Y= 510,557' LAT. 32.401277° N		A <u>1840'</u> Sec.		@ 8,895' MD 635' FSL, 2134' FWL	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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
LONG. 103.562419° W X= 779,118' Y= 510,618' LAT. 32,401401° N LONG. 103.562903° W KICK OFF POINT				Final Top Take Point _ @ 9,842' MD	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.
X= 738.232' Y= 510,334' LAT. 32.400658° N LONG. 103.561466° W X= 779.414' Y= 540.204'				30' FNL, 2160' FWL	<u>Carol Adler</u> 3/30/2022 Signature Date Carol Adler
Y=         510,394'         NAD83/86           LAT.         32,400782° N         NAD83/86           LONG.         103.561950° W         Image: Comparison of the text of tex	CORNER COORDINATES TABLE (NAD 27) A - Y=511005.24, X=736092.19 B - Y=511021.52, X=738732.84	Sec.	15		Printed Name <u>caroladler@chevron.com</u> E-mail Address
Y=         509,669'         NAD 27           LAT.         32,398831° N         N           LONG.         103.561380° W         V           X=         779,445'         Y=           Y=         509,730'         NAD83/86           LAT.         32,39854° N         NAD83/86	B - Y=511021.52, X=738732.64 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	IE IE	F		<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this
LONG. 103.561864° W FINAL BOTTOM TAKE POINT X= 738.371' Y= 499.264' NAD 27 LAT. 32.370229° N	H - Y=499128.78, X=736187.53 I - Y=499143.28, X=738823.86				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.
LONG. 103.561272° W X= 779,554' Y= 499,325' LAT. 32.370353° N LONG. 103.561755° W ACTUAL BHL	Final Bottom	. <sub>G</sub> Sec.	22		09/25/2019 Date of Survey Signature and Seal of Portessional Surveyor:
X= 738,365' Y= 499,185' NAD 27 LAT. 32,370010° N LONG. 103,561293° W X= 779,548'	Take Point @ 20,258' MD 124' FSL, 2185' FWL -			Actual Bottom	
Y= 499,245' NAD83/86 LAT. 32.370133° N LONG. 103.561777° W		Н 2178		Hole Location @ 20,338' MD	Certificate Number

# **Dagger Lake Wells**

Basin	Field	Development area	СТВ	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

### SLIDE 1 DL 10 15 OGOPOGO FED COM 422H

### Operator: CHEVRON U S A INC

	Well Name	Lease		Field Name		Business l		
	DL 10 15 OGOPOGO FED COM 422H	DL 10 15 OG	OPOGO FED COM	Bone Spring		Mid-Conti	nent	
	DL 10 15 OGOPOGO FED COM 422H							
	Area Delaware Basin		Surface UWI 3002549906		Well Typ Oil Proc			
	Latitude		5002545500	Longitude	onno	locer		
	32.404482			-103.555766				
	North/South Distance (ft)		North/South Reference	East/West Distan	ce (ft)		East/We:	st Reference
	1986'		SOUTH	1238'			EAST	
	Township		Range		Section	1		
	225		33E		10			
	Wellbore Schematic							
	Wendore Schematic					Well Construct	ion Data	
	DL 10 15 OGOPOGO FED	COM 422H				Curfage Ca		
						Surface Ca	sing	
			ny with with the day and the without the without the sectors that the					4.2.2.(0)
				Hole Size:	17 1/2"	Casi	ng Size:	13 3/8"
Servit 📘 🖬 🖉				-			Method	
				Cemented with:	643		mined:	CIRC
	13 3/8" Csg 1717'						mineu.	
	Cmt to surface			Top of Cement: _	SURF	_		
						Intermediate	Casing 1	
							<u>v</u>	
	9 5/8" Csg 4940'				12 1/4"	Casi		9 5/8"
	Cmt to surface			Hole Size:	12 1/ 7		ng Size:	/ -
				Cemented with:	050	I	Vethod	0.00
				cemented with.	852	sx. Dete	ermined:	CIRC
				Top of Cement:	SURF	—		
						_		
							<b>c c</b>	
	7" Csg 9992'	4 1/2'	Csg liner			Intermediate	Casing 2	
×	Cmt to surface		-					
	ente to surface	TOC 98	303.5' - 22065' BOC	Hole Size:	8 3/4"	Casi	ng Size:	7"
				-		- 1	Method	
	Renaulting and the second second second second second			Cemented with:	988		mined:	CIRC
1				Top of Cement: _	SURF	_		
and the second se	TINE POINT IN CONTRACTOR OF THE OWNER OWNER	and the second second						
	ana ang kanang kanang kanang kanang kanang kanang kanang kanang kanang kanang kanang kanang kanang kanang kana					Injection In	terval	
		A DESCRIPTION OF A DESC			11 572			aratad
			5-06 S223322J	_	11,572	MD to 21,963	ivit pert	orated
			11572' to 21,963'					

**EXHIBIT** 

\*Note - Diagram not to scale

### 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:	
Type of Fucker.		Cemented with:	765	sx. Method:	
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 d	rilled? PR	ODUCER - OIL		
2	Name of the Injection Formation:	2nd BONE SPRING UPPER	R		
3	Name of Field or Pool (if applicable):	BONE SPRING			
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of co		ted		
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the proposed i	injection		
	OVERLYING: 1st BONE SPRING - TOP 9960' TVI	D UNDE	RLYING: 2nd I	3ONE SPRING LOWER -	TOP 11125' TVD

### SLIDE 1 DL 10 15 OGOPOGO FED COM 423H

### Operator: CHEVRON U S A INC

	Operator. Chevicoli o S A INC	1		Field Name		15	lusiness Unit	
	Well Name DL 10 15 OGOPOGO FED COM 423H	Lease DI 1015.00	OPOGO FED COM	Bone Spring			iusiness Unit 1id-Continent	
	DL 10 15 OGOPOGO FED COM 423H	52101500	01000122000	bone opining			ing continent	
	Area		Surface UWI		Well Typ			
	Delaware Basin		3002549907	11 s 1	Oil Prod	ucer		
	Latitude 32.404482			Longitude -103.555685				
	North/South Distance (ft)		North/South Reference	East/West Distan	ice (ft)			t Reference
	1986' Township		SOUTH Range	1213'	Section		EAST	
	228		33E		10			
	Wellbore Schematic				<u>v</u>	Vell C	onstruction Data	
	DL 10 15 OGOPOGO FED COM	M 423H				S,	Irface Casing	
						<u> 30</u>	intace casing	
			he had a day a distant or a second attent or starts a distant	Hole Size:	17 1/2"		Casing Size:	13 3/8"
					,	-	Method	
	13 3/8" Csg 1706'			Cemented with:	643	<b></b>		CIRC
* ( )	Cmt to surface			Ton of Comonty -	SURF	_sx.	Determined:	
				Top of Cement: _	SURF	_		
						Inte	rmediate Casing 1	
~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		12 1/4"			9 5/8"
L- FR	9 5/8" Csg 5000'			Hole Size: _	12 1/4	_	Casing Size:	5 5/6
	Cmt to surface			Cemented with:	852		Method	CIRC
						_sx.	Determined:	Cinc
				Top of Cement: _	SURF	_		
	7" Csg 9900'					Inte	rmediate Casing 2	
	Cmt to surface	4 1/2" Csg	Liner		8 3/4"			7"
	cint to surface		3' - 21742' BOC	Hole Size:	0 5/4	_	Casing Size:	,
		100 3034.	5 - 21742 000	Cemented with:	984		Method	CIRC
						_sx.	Determined:	ente
				Top of Cement: _	SURF	_		
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s								
	IAN TATAA MAANA MADARATA DATAA MARATARI MAADA MAADA						ection Interval	
					11,271	MD to	o 21,677 MD perfo	rated
	Pool	l: WC-025 G-	06 S223322J	-				
*Note -	Diagram not to scale Bone Spr	rings perfs: 1	1,271' to 21,677'					

**EXHIBIT** 

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

Tubing: <u>27</u>	7/8" Liner: IPC Set Depth: 9734.1 MD	Production CSG Liner	:	СМТ	
Type of Packer:	Deal Completion Technologies AS1 V	Hole Size:			
Packer Setting Depth:		Cemented with Top of Cement:	0604.2	<sup>sx.</sup> Method: MD Bottom of Cmt:	CALC 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 c	Irilled?	PRODUCER	- OIL	
2	Name of the Injection Formation:	2nd BONE SPRING UF	PPER		
3	Name of Field or Pool (if applicable):	BONE SPRING			
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated		
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propo	sed injection		
	OVERLYING: 1st BONE SPRING - TOP 9960' TVI	) U	INDERLYING:	2nd BONE SPRING LOWER -	TOP 11125' TVD

### SLIDE 1 DL 10 15 OGOPOGO FED COM 424H

### Operator: CHEVRON U S A INC

WellName	Lease	Field Name		Bu	siness Unit	
DL 10 15 OGOPOGO FED COM 424H	DL 10 15 OGOPOGO FED COM	Bone Spring			d-Continent	
DL 10 15 OGOPOGO FED COM 424H						
Area Delaware Basin	Surface UWI 3002549908		Well Type Oil Produ			
Latitude 32.404481		Longitude -103.555604				
North/South Distance (ft) 1986'	North/South Reference SOUTH	<ul> <li>East/West Distance</li> <li>1188'</li> </ul>	e (ft)		East/Wes EAST	t Reference
Township 22S	Range 33E		Section 10			
Wellbore Schematic			We	II Const	truction Data	
DL 10 15 OGOPOGO FED COM 4						
	) ที่สารแบบที่ส่งสุดที่ที่แหน่ก็ที่หน่งสุดสารแข็งสมบบที่สารแบบสีสารแบบทุกส	Hole Size:	17 1/2"	_	Casing Size:	13 3/8"
13 3/8" Csg 1727' Cmt to surface		Cemented with:	634	sx.	Method Determined:	CIRC
		Top of Cement:	SURF	-		
				Intern	nediate Casing 1	
9 5/8" Csg 4984' Cmt to surface		Hole Size:	12 1/4"	_	Casing Size:	9 5/8"
		Cemented with:	852	sx.	Method Determined:	CIRC
7" Csg 9936'		Top of Cement:	SURF	-		
	4 1/2" Csg Liner TOC 9651.3' - 21994' BOC			Intern	nediate Casing 2	
		Hole Size:	8 3/4"	_	Casing Size:	7"
		Cemented with:	980	sx.	Method Determined:	CIRC
a Panangan ang Pangan ang Pangan ang Pangan ang Pangan ang Pangan ang Pangan ang Pangan ang Pangan ang Pangan a	IN AT A REAL PROPERTY AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF	Top of Cement:	SURF	-		
Pool: \	NC-025 G-06 S223322J			Injec	ction Interval	
Bone Sprir	ng perfs: 11,537' to 21,927'		11,537'	MD to	21,927' MD perf	orated

**EXHIBIT** 

\*Note - Diagram not to scale

 $\sim \sim \sim \sim$ 

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

Tubing	g: 2 7/8" Liner: IPC Set Depth: 9680.8' MD	Production CSG Liner:		CMT	
Type of Packer	Peak Completion Technologies AS1-X	- Hole Size - Cemented with	760	Casing Size:	4 1/2" CALC
Packer Setting Depth	9659.3' MD	Top of Cement:		D Bottom of Cmt: -	21994' MD
	Other Type of Tubing/Casing Seal (if applicable)	: <u>N/A</u>			
		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 UPF	PER		
3	Name of Field or Pool (if applicable):	BONE SPRING			
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		orated		
	N/A				
5	Give the name of any oil or gas zones underlyir zone in this area:	ng or overlying the propos	ed injection		
	OVERLYING: 1st BONE SPRING - TOP 9965' TVI	D UI	NDERLYING: 2	nd BONE SPRING LOWER	- TOP 11125' TVD

#### SLIDE 1 DL 10 3 KRAKEN FED COM 207H

### Operator: CHEVRON U S A INC

	WellName	Lease		Field Name			isiness Unit	
	DL 10 3 KRAKEN FED COM 207H	DL 10 3 KRA	KEN FED COM	Red Tank / Bone	Spring East	Mi	id-Continent	
	DL 10 3 KRAKEN FED COM 207H		-					
	Area Delevere Besie		Surface UWI		Well Ty			
	Delaware Basin Latitude		3002549078	Longitude	Oil Proc	ucer		
	32.400054			-103.563064				
	North/South Distance (ft)		North/South Reference	East/West Distan	ice (ft)		East/We	st Reference
	370'		SOUTH	1790"			WEST	
	Township		Range		Section	n		
	225	l	33E		10			
	Wallbarg Schamatic							
	Wellbore Schematic					Well Co	onstruction Data	
	DL KRAKEN 10 3 FED COM 20	7H				6		
						<u>Su</u>	rface Casing	
متسط والمتماد ومستعاد والمستعم والمستعم والمستعم والمستعم والمستعم والمستعم والمستعم والمستعم والمستع	والمراب المرابعة والالمية المرابعة المرابعة والمرابعة والمحمد المرابعة	المالمالمالما	والمستحل المساطر الطامي الماميس المامين		474/01			13 3/8"
	elekter			Hole Size:	17 1/2"	_	Casing Size:	15 5/6
	13 3/8" Csg 1330'						Method	
	Cmt to surface			Cemented with:	1126	sx.	Determined:	CIRC
				Top of Cement:	SURF			
					3010	_		
~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~						
	9 5/8" Csg 4945'					Interi	mediate Casing 1	
	Cmt to surface							
				Hole Size:	12 1/4"		Casing Size:	9 5/8"
	7" Csg 9031' 4	1/2" Csg Lin	er	-		_	Method	
	, con social i i	OC 8851' to		Cemented with:	772	<u> </u>	Determined:	CIRC
						SX.	Determined.	
				Top of Cement: _	SURF	_		
						Interi	mediate Casing 2	
1 million				Hole Size:	8 3/4"		Casing Size:	7"
1988 ALL ALL ALL ALL ALL ALL ALL ALL ALL A			and distance of the ansatz of at the start for	HUIE 312E	0 0/ 1	_		
Barnal Street Street				Cemented with:	700		Method	CIRC
				-	722	SX.	Determined:	CIRC
	D I- ) A		c222222	Top of Cement:	SURF			
		/C-025 G-06	5223322J	· –		_		
	Bone Spring	g perts: 10,0	48' to 20,469'			l.m.! -	ation Intonual	
							ction Interval	
					10,048'	to 20,4	469' MD perforat	ted
				-				

**EXHIBIT** 

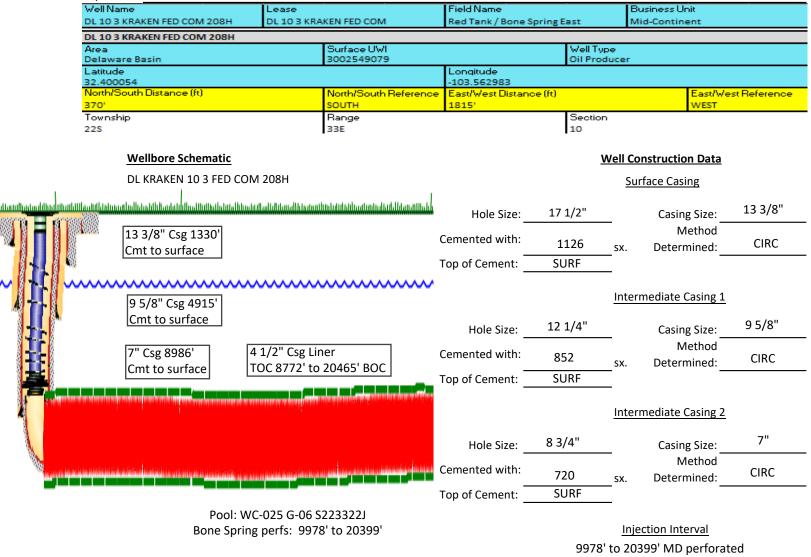
\*Note - Diagram not to scale

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

Tubing	: 27/8" Liner: IPC Set Depth: 8849.3' MD	Production CSG Liner	:	CMT	
	Peak Completion Technologies AS1X	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of packer		Cemented with:	769s	x. 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 d	rilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG 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

#### SLIDE 1 DL 10 3 KRAKEN FED COM 208H

#### Operator: CHEVRON U S A INC



EXHIBIT

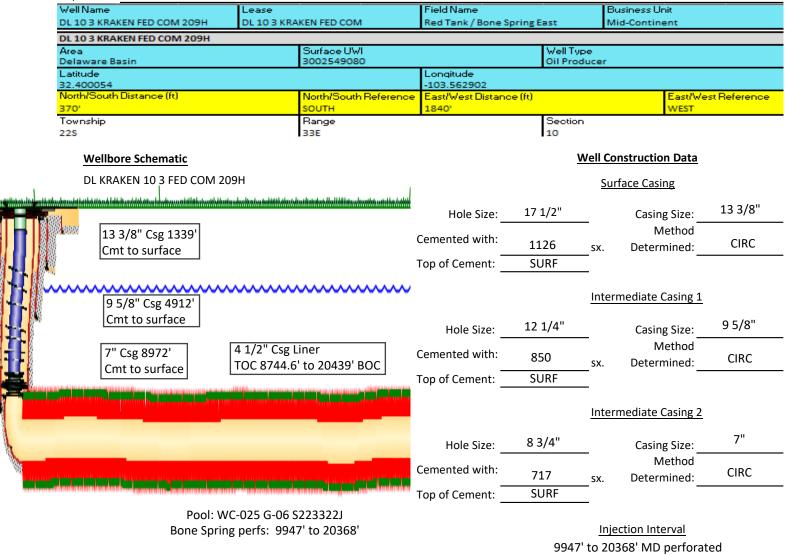
\*Note - Diagram not to scale

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

Tubing	g: 27/8" Liner: IPC Set Depth: 8771.0' MD	Production CSG Line	r:	CMT	
Turn of Doolson	Deel Consulting Technologies ACAV	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of Packer: Peak Completion Technologies AS1X		Cemented with	763s>	. 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 c	Irilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPR	ING 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	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

#### SLIDE 1 DL 10 3 KRAKEN FED COM 209H

#### Operator: CHEVRON U S A INC



**EXHIBIT** 

\*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:		СМТ	
Tupo of Dockory	Deak Completion Technologies AS1V	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of Packer:	Peak Completion Technologies AS1X	Cemented with:	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 d	rilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG 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 zone in this area:	g or overlying the propos	sed injection		
	OVERLYING: UPPER AVALON - TOP 8952' TVD		UNDERLYING	: 1st BONE SPRING	- TOP 9984' TVD

#### SLIDE 1 DL 15 22 NARWHAL FED COM 219H

#### Operator: CHEVRON U S A INC **Business Unit Well Name** Field Name Lease 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 3002549081 Oil Producer Delaware Basin Latitude Longitude 32.401402 -103.563065 North/South Distance (ft) North/South Reference East/West Distance (ft) East/West Reference 860' SOUTH 1790 NEST Township Range Section 10 225 33E Well Construction Data **Wellbore Schematic** DL 15 22 NARWHAL FED COM 219H Surface Casing والمتلج ومراجلة المراجعة ومرادل وتواجعا تمتابا الموالية والمارية المتحديد المتلقية والمراجع ومراجعة الترتم n. lakita 13 3/8" 17 1/2" Hole Size: Casing Size: Method 13 3/8" Csg 1435' Cemented with: CIRC 1114 Determined: SX. Cmt to surface Top of Cement: SURF ~~~~~~~ Intermediate Casing 1 9 5/8" Csg 4985 Cmt to surface 9 5/8" 12 1/4" Hole Size: Casing Size: Method 7" Csg 9027' 4 1/2" Csg Liner Cemented with: 1197 CIRC sx. Determined: Cmt to surface TOC 8791.7' to 20542' BOC SURF Top of Cement: Intermediate Casing 2 7" 8 3/4" Hole Size: Casing Size: Method Cemented with: CIRC 819 Determined: sx. SURF Top of Cement: Pool: WC-025 G-06 S223322J Bone Spring perfs: 10202.5' to 20471.5' Injection Interval 10202.5' to 20471.5' MD perforated

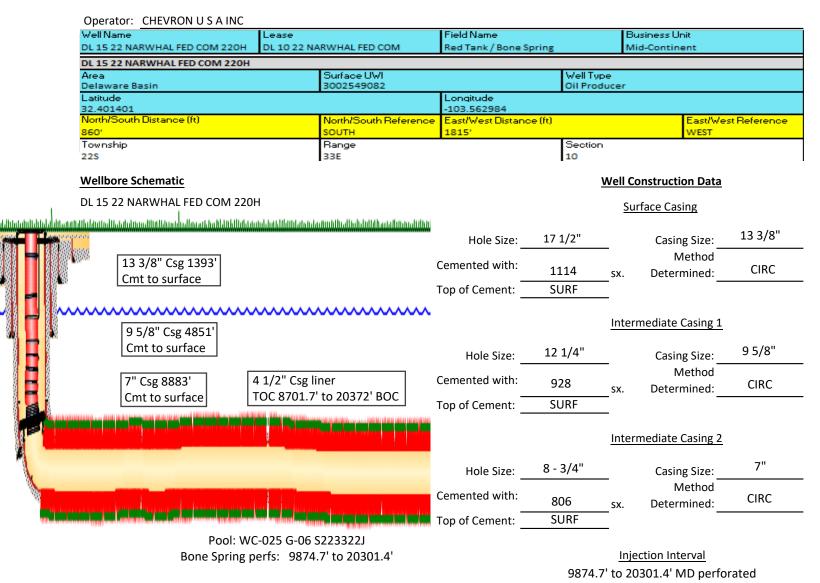
EXHIBIT

\*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 Dacker	Dack Completion Technologies AS1V	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of Packer:	Peak Completion Technologies AS1X	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?	Y	/es	No	)
	If no, for what purpose was the well originally d	rilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRIN	G		
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	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		UNDERLYIN	G: 1st BONE SPRING	6 - TOP 9984' TVD

#### SLIDE 1 DL 15 22 NARWHAL FED COM 220H



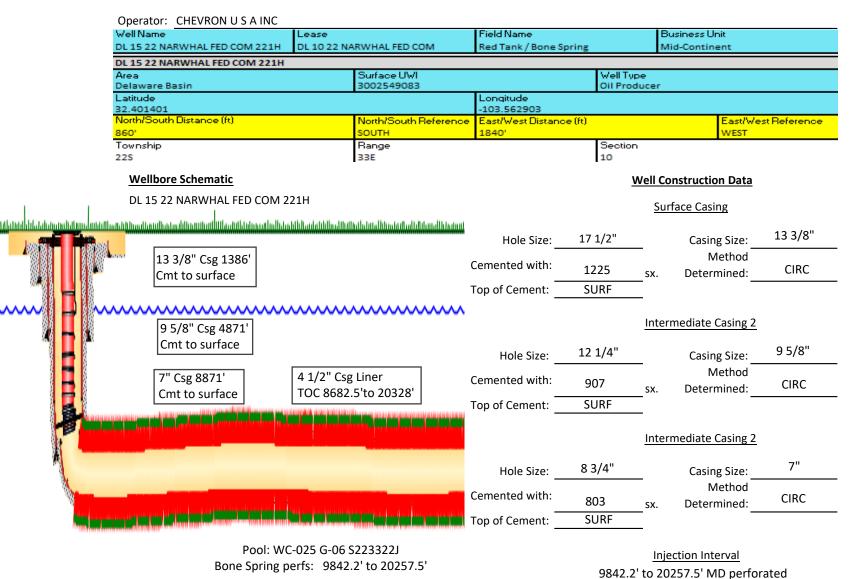
EXHIBIT

\*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:	764	Casing Size:	4 1/2" CALC
Packer Setting Depth	n: 8695.0' MD	Top of Cement:		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 d	Irilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPR	ING		
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		UNDERLYIN	IG: 1st BONE SPRING	- TOP 9984' TVD

#### SLIDE 1 DL 15 22 NARWHAL FED COM 221H



EXHIBIT

\*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	
Tune of Deckory	Deak Completion Technologies AS1V	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	n: 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 c	trilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPR	ING		
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 underlyin zone in this area:	g or overlying the propo	sed injection		
	OVERLYING: UPPER AVALON - TOP 8967' TVD		UNDERLYIN	NG: 1st BONE SPRING	i - TOP 9984' TVD

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

## Operator: CHEVRON U S A INC

Well Name DL 4 33 LOCH NESS FED COM P1 4H	Lease DL 4 33 LOCH NESS FI	ED COM	Field Name Red Tank / Bone 3	Spring East		Business Unit Mid-Continent			
DL 4 33 LOCH NESS FED COM P1 4H Area	Surface			Well Typ					
Delaware Basin Latitude 32.414283	300254	6644	Longitude -103.573242	Oil Prod					
North/South Distance (it) 264'	North/S SOUTH	outh Reference	East/West Distan 1347'	ce (ft)	East/West Reference EAST				
Township 22S	Range 33E			Section 4					
Wellbore Schematic				v	/ell Co	nstruction Data			
DL 4 33 LOCH NESS FED COM	P1 4H				<u>Sur</u>	face Casing			
	հետևեներին եներին եներին եներին հայտներին հայտներին հայտուններին հայտնե հայտներին հայտներիին հայտներիին հայտներին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներիին հայտներին հայտներին հայտներին հայտներիիին հայտներիիի հայտներիիին հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտնեիիի հայտներիիիի հայտնեիիի հայտնեիիիի հայտներիիիիիիիի հայտներիիիի հայտնեիիիիի հայտներիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիիի	ومنعط المسلط المامية	Hole Size:	16"	_	Casing Size:	13 3/8"		
13 3/8" Csg 1365' Cmt to surface		C	Cemented with:	855	sx.	Method Determined:	CIRC		
9 5/8" Csg 4917' Cmt to surface		Т	op of Cement: _	SURF	-	-			
·····		~~~~~			Interi	mediate Casing			
5 1/2" CSG 20685' Cmt to surface			Hole Size:	12 1/4"	_	Casing Size:	9 5/8"		
		di la constante de la constante de la constante de la constante de la constante de la constante de la constante	- Cemented with:	1548	sx.		CIRC		
		Т	op of Cement:	SURF	_				
1					<u>Produ</u>	uction Casing			
			Hole Size:	8 1/2"		Casing Size:	5 1/2"		
🛛 a standar – and conditionation built – allocations	hale desidence	osuaine une de	– Cemented with:	3102	- sx.	Method Determined:	CIRC		
			op of Cement:	SURF					
	/C-025 G-06 S2233 perfs: 10258.2' to			<u>ction Interval</u> 0610.0' MD perfe	Interval 0' MD perforated				

**EXHIBIT** 

\*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 d	Irilled?	PRODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRIN	NG EAST	
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of co		forated	
	N/A			
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propos	sed injection	
	OVERLYING: UPPER AVALON - TOP 9002' TVD		UNDERLYING:	1st BONE SPRING - TOP 9984'

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

## Operator: CHEVRON U S A INC

	WellName	Lease		Field Name		B	usiness Unit					
	DL 4 33 LOCH NESS FED COM P1 5H	DL 4 33 LOCI	H NESS FED COM	Red Tank / Bone S	Spring East	Mid-Continent						
	DL 4 33 LOCH NESS FED COM P1 5H		0 / 10 0									
	Area Delaware Basin		Surface UWI 3002546645	Well Type Oil Producer								
	Latitude			Longitude -103.57308								
	32.414283 North/South Distance (ft)		North/South Reference		ce (ft)	East/West F			Reference			
	264'		SOUTH	1297'			EAST	EAST				
	Township 22S		Range 33E		Section 4							
	Wellbore Schematic					Well C	Construction D	ata				
	DL 4 33 LOCH NESS FED COM P	21 5H				Si	urface Casing					
աստանություն	արվվանենուննենումնեննումութուննենումնես	անունունուններ	հետևանումին Մնասնաննան			<u>-30</u>	anace casing					
	13 3/8" Csg 1365'			Hole Size:	16"		Casing Siz	e:	13 3/8"			
	Cmt to surface			- Cemented with:		_	Metho					
				_	856	_sx.	Determine	d:	CIRC			
				Top of Cement:	SURF	_						
		5 1/2" Csg 19										
	Cmt to surface	Cmt to surfa	ce			Inter	rmediate Casir	<u>ıg</u>				
				Hole Size:	12 1/4"		Casing Siz	e:	9 5/8"			
	ANN MALL MARK ANNU. MARK CALLER AND		a nor rele diretti	Cemented with:	1548	sx.	Metho Determine		CIRC			
				Top of Cement:	SURF	_ 57.	Determine	u				
1						_						
	the second second second second second second second second second second second second second second second s	uda . Adabi	halaidh airte an i san an ann			Prod	luction Casing					
					o				F 4 /2"			
				Hole Size:	8 1/2"	_	Casing Siz		5 1/2"			
				Cemented with:	2720	sx.	Metho Determine		CIRC			
	Pool: V	WC-025 G-06	5 S223322J	Top of Cement:	SURF	_						
			)1.2' to 19713.0'	-		_						
						Inj	ection Interval	<u> </u>				
					10501.2		9713.0' MD p	_	ted			

**EXHIBIT** 

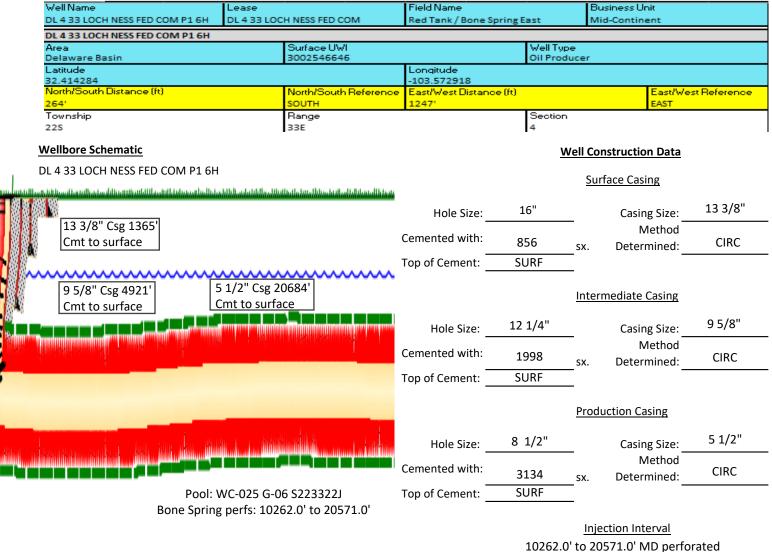
\*Note - Diagram not to scale

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

Tubing	g: 2 7/8" Set Depth: 9128.9' MD	Lining Material	: IPC	
Type of Packer	Peak Completion Technologies AS1X			
Packer Setting Deptl	n: 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 c	Irilled?	PRODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG EAST	
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		rforated	
	N/A			
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propo	osed injection	
	OVERLYING: UPPER AVALON - TOP 9003' TVD		UNDERLYING:	1st BONE SPRING - TOP 9984'

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

#### Operator: CHEVRON U S A INC



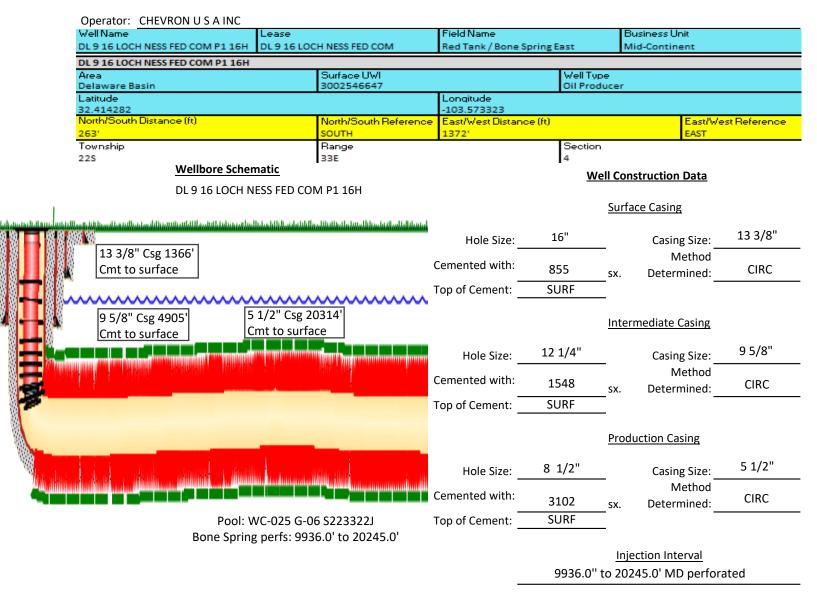
**EXHIBIT** 

\*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 d	rilled? PRODUC	CER - 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 a intervals and give plugging detail, i.e. sacks of ce			
	N/A			
5	Give the name of any oil or gas zones underlying zone in this area:	or overlying the proposed inject	tion	
	OVERLYING: UPPER AVALON - TOP 9025' TVD	ι	JNDERLYING:	1st BONE SPRING - TOP 9984' TVD

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



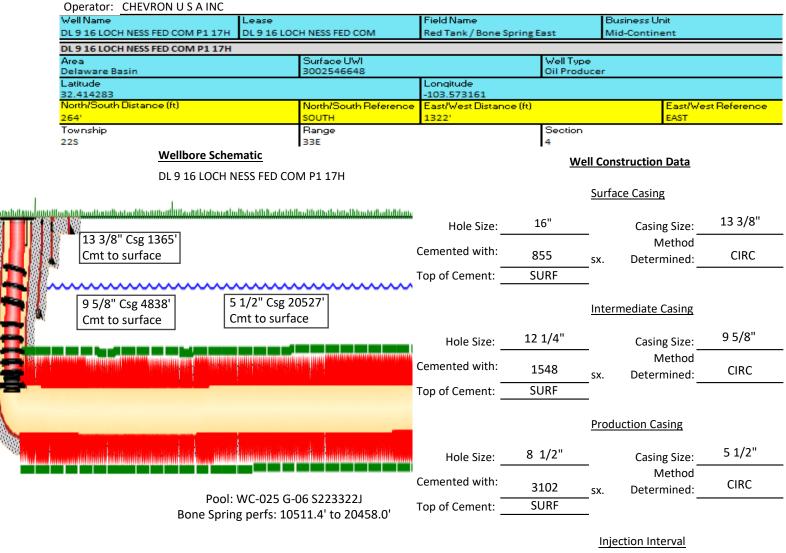
**EXHIBIT** 

\*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: IF	PC	
Type of Packer:	Peak Completion Technologies AS1X			
Packer Setting Depth	n: 9096.5' MD			
	Other Type of Tubing/Casing Seal (if applicable):	N/A		
		Additional Data		
1	Is this a new well drilled for injection?	Y	es	No
	If no, for what purpose was the well originally d	rilled? P	RODUCER - 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 intervals and give plugging detail, i.e. sacks of co		rated	
	N/A			
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propose	d injection	
	OVERLYING: UPPER AVALON - TOP 8997' TVD		UNDERLYING:	1st BONE SPRING - TOP 9984' TVE

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



**EXHIBIT** 

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 c	rilled? 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 intervals and give plugging detail, i.e. sacks of c		
	N/A		
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the proposed injection	
	OVERLYING: UPPER AVALON - TOP 9017' TVD	UNDERLYING: 1st BONE SPRING -	- TOP 9984' 1

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

#### Operator: CHEVRON U S A INC



Bone Spring perfs: 10195.6' to 20363.0'

EXHIBIT

\*Note - Diagram not to scale

10195.6' to 20363.0' MD perforated

## 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 c	Irilled?	PRODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG EAST	
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of co		forated	
	N/A			
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propo	sed injection	
	OVERLYING: UPPER AVALON - TOP 9016' TVD		UNDERLYING:	1st BONE SPRING - TOP 9984'

#### DLKCLGC CLGC Well List Tab

Ref.	ΑΡΙ	Current Operator	Lease Name and Well Number	Well Type	Status	Surface Location	Date Drilled	Completi on Date	Csg Depth	Hole Size (in)	CSG Size (in)	Set At (ft) TOC - BOC		Method Determin ed	Completi on Interval (ft)	Total Depth (MD)	TVD (TVDSS)	Current Pool	State	County
										16.000	Surface-	0' - 1365' 0' - 4917'	855	Circ Circ						
										12.250 8.500		0' - 4917' 0' - 20685'	1548 3102	Circ Circ						
			DL 4 33							0.500	e- 9.625	9189'	5102	Circ						
			LOCH			264 FSL,					Production-									
			NESS FED			1347 FEL,					5.500									
		CHEVRON	COM P1			22S, 33E,					Tubing-				10258' -			BONE		
22	30025466440000	U S A INC	4H	Oil	Active	4 SW SE	4/29/2020	7/1/2022	20685'		2.875				20610'	20700	9581	SPRING	NM	LEA
										16.000	Surface-	0' - 1365'	856	Circ						
										12.250 8.500		0' - 4896' 0' - 19782'	1548 2720	Circ Circ						
			DL 4 33							8.500	e- 9.625	9128'	2720	Circ						
			LOCH			264 FSL,					Production-									
			NESS FED			1297 FEL,					5.500									
		CHEVRON	COM P1			22S, 33E,					Tubing-				10501' -			BONE		
23	30025466450000	U S A INC	5H	Oil	Active	4 SE SE	6/30/2020	7/1/2022	19782'		2.875				19713'	19802	9595	SPRING	NM	LEA
										16.000	Surface-	0' - 1365'	856	Circ						
										12.250 8.500		0' - 4921' 0' - 20684'	1998 3134	Circ Circ						
			DL 4 33							8.500	e- 9.625	9191'	5154	Circ						
			LOCH			264 FSL,					Production-									
			NESS FED			1247 FEL,					5.500									
		CHEVRON	COM P1			22S, 33E,					Tubing-				10262' -			BONE		
24	30025466460000	U S A INC	6H	Oil	Active	4 SE SE	3/7/2020	6/1/2022	20684'		2.875				20571'	20694	9572	SPRING	NM	LEA
										16.000 12.250		0' - 1366'	855	Circ						
										8.500		0' - 4905' 0' - 20314'	1548 3102	Circ Circ						
			DL 9 16							0.500		9111'	5102	Circ						
			LOCH			263 FSL,					Production-									
			NESS FED			1372 FEL,					5.500									
		CHEVRON	COM P1			22S, 33E,					Tubing- 2.875				9936' -			BONE		
25	30025466470000	U S A INC	16H	Oil	Active	4 SW SE	4/9/2022	2/2/2024	20314'						20245'	20324	9510	SPRING	NM	LEA
										16.000 12.250	Surface- 13.375	0' - 1365' 0' - 4838'	855 1548	Circ Circ						
										8.500		0' - 4838 0' - 20527'	3102	Circ						
			DL 9 16									9075'								
			LOCH			264 FSL,					Production-									
			NESS FED			1322 FEL ,					5.500 Tubia									
		CHEVRON	COM P1			22S, 33E,	- / /				Tubing- 2.875				10514' -			BONE		
26	30025466480000	U S A INC	17H	Oil	Active	4 SW SE	5/24/2020	6/1/2022	20527'						20458'	20539	9654	SPRING	NM	LEA
										16.000 12.250	Surface- 13.375	0' - 1365' 0' - 4872'	856 1572	Circ Circ						
										8.500	Intermediat		3150	Circ						
			DL 9 16									9081'		-						
			LOCH			264 FSL,					Production-									
		CUEV (2.0.)	NESS FED			1272 FEL ,					5.500 Tubing							DONE		
27		CHEVRON	COM P1	0.1		22S, 33E,	F /24 /2020		204221		Tubing- 2.875				10195' -	20444	0.400	BONE		
27	30025466490000	U S A INC	18H	Oil	Active	4 SE SE	5/24/2020	#########	20432'						20363'	20444	9483	SPRING	NM	LEA

Received by OCD: 9/19/2024 11:422062AM

## DLKCLGC CLGC Well List Tab

38         300254907900000 U S A INC 207H         0II         Active         55,0         11/2/20         11/2/200         11/2/20																					
38         30025490780000         54 NC         2081         710 FSL 170 FS							1					Surface-	0' - 1330'		Circ						
Image: Problem         Image: Problem         Image: Problem         Image: Problem         Problem											12.250	13.375	0' - 4945'	772	Circ						
Image: Problem         Image: Problem         Image: Problem         Image: Problem         Problem											8.750	Intermediat	0' - 9031'	722	Circ						
38         3002549070000         US AINC         201         370 FSL 1730 FSL 33E, 10         370 FSL 33E, 10         11/2/2021																					
A         DL 10 (1790 FWL (CHEVRON FED COM CHE											0.125			, 05	cuic						
38         30025490780000         U S A INC         2070         Active         SES         11/22/2021         1/1/2023         2054         375         CHE         Les         Ses         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         2055         9449         SPRING         NM<							370 FSL,														
38         30025490780000 U 5 AINC         CHV MAKEN 2070         CHV MAKEN 2070         CHV MAKEN 2070         CHV MAKEN 2005         CHV MAKEN         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN 2005         CHV MAKEN         CHV MAKEN         CHV MAKEN         CHV MAKEN         CHV MAKEN         CHV MAKEN         CHV MAKEN         CHV MAKEN				DI 10.3									0045								
38         20025490780000         U S AINC         2070         OII         Active         326, 0         1/1/20/20         20340         20036         1/1/20/20         2/875         1/1/20         2/875																					
38         30025490780000         U S AINC         207H         OII         Active         EW         11/22/2021         1/1/2023         2050																					
38         30025490780000         U S A INC         207H         OII         Active         SE         11/2/2021         2/1/2023         2/0500         9449         SPRING         NM         LEA           12         12         50         370         -4915         852         Circ         N         S2         Circ         N         S2         Circ         N         N         KA         S2         Circ         N         N         KA         S2         Circ         N         N         KA         S2         Circ         N         N         KA         N         KA         S2         Circ         N         N         KA         N         KA         S2         S2         S3         S2         S2         S3         S2         Circ         Circ         N         N         N         KA         N         S2         S2         S3         S3         S2         S3         S3         S2         S3			CHEVRON	FED COM			33E, 10									10048' -			BONE		
40         30025490790000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         1/1/2022         20430*         State         Part         BONE           40         30025490790000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         1/1/2022         20430*         Fill         BONE         BONE           40         30025490800000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         1/1/2022         20430*         Fill         BONE         BONE           40         30025490800000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         1/1/2022         20430*         Fill         BONE         BONE           40         30025490800000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         1/1/2022         20430*         Gric         BONE         BONE           40         30025490800000 U S A INC         209H         Oil         Active         SE SW         10/31/2021         9/1/2022         20439*         1136         Circ         Gric         Gric         Gric         Gric         Gric         Gric         Gric         Gric         <	38	30025490780000	U S A INC	207H	Oil	Active	SF SW	11/22/2021	1/1/2023	20540'		2.875					20551	9449	SPRING	NM	I FA
1         1		50025150700000	0 0 / 1 1 0	20711	0.1	7.00.70	02.011	11, 22, 2021	1/ 1/ 2020	20010	17 500	Curfo ee	0 1220	1120	Cire		20001	5115	51 14170		
Image: state         Image: state<																					
39         30025490790000         V S AINC         2040         300         30025490790000         V S AINC         2040         300         30000000         30000000         300000000000         3000000000000000000000000000000000000																					
39         30025490790000         U S AINO         2080         300         8771         2080         9771         2080         9976*.         2080         9462         5PRING         NM         LEA           39         30025490790000         U S AINO         2080         01         Active         55.00         1/1/2021         1/1/2022         20460         9771         -         -         20399         2080         9462         5PRING         NM         LEA           40         3002549080000         U S AINO         2081         -         -         -         -         -         -         20899         20460         -																					
B         DL 10 3 KRAKEN CHEVRON FED COM GR         DL 10 3 KRAKEN CHEVRON FED COM FED COM         3370 FSL 335, 10 Active         FSF VE         DI // 225, 335, 10         FSF VE        FSF VE         <											6.125			763	Calc						
39         30025490790000         U S AINC         208H         OII         Active         SE SW         10/31/2021         1/1/2023         20460         Series         0-133°         1126         Crc         20399°         20480         9462         SPRING         NM         LEA           39         30025490790000         U S AINC         208H         OII         Active         SE SW         10/31/2021         1/1/2023         20460         Seriface         0-133°         11260         Crc         20399°         20480         9462         SPRING         NM         LEA           40         30025490800000         U S AINC         20H         Active         SE SW         10/31/2021         9/1/2022         20439°         Crc         Crc         Patrix </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>270 501</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							270 501														
39         30025490790000         U S A INC         208H         Oil         Active         5250 35 f, 10         1/1/2023         20460         1/2003 2875         1126         Clr.         9976'-         20480         9462         BONE         NM<													8771'								
39         30025490790000         V S A INC         208H         OII         Active         33E, 10 55 SW         10/31/2021         1/1/2023         20460'         2075         Image: Similar simantenesisima similar similar simantenes similar similar simanten				DL 10 3			1815 FWL							1							
39         30025490790000         V 5 A INC         208H         OII         Active         SE SW         10/31/2021         1/1/2023         20460'         7.309'         2.875'         2.0480         9978'.         2.0480         9462         SPRING         NM<				KRAKEN		1	, 22S,					4.500		1					1	1	1
39         30025490790000         US A INC         208H         OII         Active         SE SW         10/31/2021         1/1/2023         20460         2:875         v         N         126         2038         20480         9462         SPRING         NM         LEA           39         30025490790000         US A INC         2089H         OII         Active         SE SW         10/31/2021         1/1/2023         20460'         2:875         "C"         2038'         20480         9462         SPRING         NM         LEA           40         30025490790000         US A INC         208H         A         1/3700         1/3700         5/38''         7/33''         Calc         "P"         9/47''         20439''         20453         9438         SPRING         NM         LEA           40         30025490800000 U S A INC         209H         OII         Active         S SW         10/31/2021         9/1/2022         20439'         2.875         114         Circ         2036''         20453         9438         SPRING         NM         LEA           40         30025490800000 U S A INC         209H         OII         Active         S SW         10/31/2021         9/1/2022         20439''												Tubing-		1		0078			BONE		
39         30025490790000 0'S A IRC 208H         OII         Active         SE SW         10/31/2021         1/1/2022         2040         0         0         0.0399         20480         9462         SPRING         NM         LEA           1         1         1         1         1         1         1         1         0	20				0.1	A		10/21/2021	1/1/2022	20460				1			20400	0462			
40         DL 10 3 KRAKEN KRAKEN         L. D. 10 3 KRAKEN         L. D. 10 3 ST 25 ST 25         L. D. 10 3 ST 25	39	30025490790000	USAINC	208H	UII	Active	SE SW	10/31/2021	1/1/2023	20460'			L	ļ	L	20399	20480	9462	SPRING	INIVI	LEA
40         30025490800000         U S AINC         20H O         Active         SE SW         1/1/2022         2/1/202         2/1/202         7/3/201         Grc         Calc         N         N         N         LEA           40         30025490800000         U S AINC         2094         0il         Active         SE SW         10/31/2021         9/1/2022         20439         Server         7/3         Grc         Calc         N         N         N         LEA         N         LEA         N         N         LEA         N         LEA         N         LEA         N         LEA         N         LEA         N         LEA         N         LEA         N         LEA         LEA         N         LEA         LEA         N         LEA         LEA         LEA         N         LEA							1														
40         3002549080000         U S A INC         209H         OII         Active         SES         10/31/2021         9/1/2022         20439         1140         Circ         1140         Circ         9947         20368         20453         9438         SPRING         NM         LEA           40         30025490800000         U S A INC         209H         OII         Active         SE SW         10/31/2021         9/1/2022         20439         17.500         Surface-         0.1435'         1144         Circ         20453         9438         SPRING         NM         LEA           1         30025490800000         U S A INC         209H         OII         Active         SE SW         10/31/2021         9/1/2022         20439         15.00         Surface-         0.1435'         1144         Circ         20453         9438         SPRING         NM         LEA           41         30025490810000         U S A INC         1790 FWL         Surface-         0.1435'         1147         Circ         114         Circ         10/202'-         2043         SPRING         NM         LEA           41         30025490810000         U S A INC         2052         33E, 10         1/1/2022         2/1												13.375									
40         3002549080000         U S A INC         209H         CHE VRON (N         RAKEN CHE VRON (RAKEN)         CHE VRON (CHE VRON)         CHE											8.750	Intermediat	0' - 8972'	717	Circ						
40         50         10         370 FSL, 1840 FW, CHEVRON         1840 FW, FED COM         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 33E, 10         1840 FW, 2.25, 1250         <											6.125	e 1- 9.625	8744' -	763	Calc						
40         30025490800000         U S A INC         209H         Coli         Active         SESW         10/31/2021         9/1/2022         20439         Summary         Su												Intermediat	20439'								
40         DL 10 3 KRAKEN CHEVRON         DL 10 3 KRAKEN CHEVRON         DL 10 3 KRAKEN CHEVRON         1840 FWL FD COM         225, 33E 10         1840 FWL 33E, 10         NM         1240         NM         1250         1210 m2 2.875         1210 m2 2.875         1210 m2 2.875         1210 m2 2.875         1210 m2 2.875         1240 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>370 FSL,</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							370 FSL,														
40         3002549080000         KRAKEN V S A INC         55 W         10/31/2021         9/1/2022         20439         1.500 Tubing. 2.875         58 W         1.143         Circ Girc V - 4985         20453         9438         SPRING         NM         LEA           40         3002549080000         U S A INC         209H         0II         Active         SE SW         10/31/2021         9/1/2022         20439         Surface- 10/2250         0'-4385' (-4985')         1114         Circ Girc 0'-9027'         Surface- 819         0'-1039' (-19927')         1114         Circ Girc 0'-10927'         NM         NM         LFA           41         3002549081000         U S A INC         219         Active         SE SW         1/1/2022         5/1/2022         20542'         Surface- 10/2250         0'-4385' (-19927')         1114         Circ 0'-10927'         Surface- 819         Circ 0'-10927'         Surface- 819         Circ 0'-10927'         Surface- 10/202'- 20542'         Surface- 10/202'- 20471'         Circ 20471'         Surface- 20471'         Surface- 20471'         Circ 20471'         Surface- 20471'         Surface				DL 10 3			1840 FWL														
40         3002549080000         CHEVRON U S A INC         FED COM 209H         Oil         Active         SE         N         1/1/2022         20439         Surface- 1.255         R         R         R         9947'- 20368'         20453         9438         BONE SPRING         NM         LEA           A         JO2549080000         U S A INC         209H         Oil         Active         SE SW         10/31/2021         9/1/2022         20439'         Surface- 1.255         0'-1435'         1114         Circ< 0'-0927'         Circ         FE         NM         FE         NM         LEA           A         DL 15 22 NARWHA L FED         DL 15 22 NARWHA L FED         NA         Surface- 800 FSL, 1790 FWL J, 225, 33E, 10         FE         FE         Surface- 8.750         0'-1435'         114'         Circ         FE<																					
40       30025490800000       U S A INC       209H       Oil       Active       SE SW       10/31/2021       9/1/2022       20439'       2.875       F.       E.       Intermetian       20368'       20453       9438       SPRING       NM<																					
40       30023490800000       0 3 A INC       2030       20433       9438       9480       NM<																					
4         5         7         5         7         7         6         6         7         6         7         6         7         6         7         7         7         6         7         7         7         7         7         7         7         7         7         7         7         7         7	40	30025490800000	U S A INC	209H	Oil	Active	SE SW	10/31/2021	9/1/2022	20439'		2.075				20368'	20453	9438	SPRING	NM	LEA
4         Normal											17.500	Surface-	0' - 1435'	1114	Circ						
Image: height state         Image: height state											12.250	13.375	0' - 4985'	1197	Circ						
41         DL 15 22 NARWHA L FED         DL 15 22 NARWHA L FED         B80 FSL, 1790 FWL , 22S, 33E, 10         Image of the second second second         Image of the second second         Image of the second second         Image of the second         <											8.750	Intermediat	0' - 9027'	819	Circ						
41         DL 15 22 NARWHA L FED         DL 15 22 NARWHA L FED         B80 FSL, 1790 FWL , 22S, 33E, 10         Image of the second second second         Image of the second second         Image of the second second         Image of the second         <											6.125	e 1- 9.625	8791' -	773	Calc						
41       DL 15 22       860 FSL,       F																					
ARWHA LFED         NARWHA LFED         1790 FWL ,22, 33E,10         NPO WTL ,22, 33E,10         Production- 4.500 7Um/s         Production- 4.500 7Um/s         NM         BONE         BONE         BONE         BONE         NM<				DL 15 22			860 FSL,														
41       Super-stress       LFED CMEVRON       LFED COM       LFED COM       LFED SOM       LFED SOM       LFED SIG       LFE SIG       FE SIG				NARWHA			1790 FWL						0,55								
41       CHEVRON       COM       COM       Active       SE, 10       SE, 10       SE, 20       20542       Tubing- 2.875       Len       Len       Logo - 20471       Logo - 20552       Logo - 9429       BONE       BONE       BONE       Len         41       30025490810000       U S A INC       219H       Oil       Active       SE SW       1/1/202       5/1/202       20542       Se SP       114       Circ       20471       20552       9429       SPRING       NM       LEA         1       Se SW       1/1/202       5/1/202       5/1/202       20542       Se SPRING       Se SPRING       Se SPRING       NM       LEA         1       Se SW       1/1/202       5/1/2022       5/1/2022       20542       Se SPRING       Se SPRING       NM       LEA         1       Se SW       1/1/2022       5/1/2022       5/1/2022       Se SPRING       Se SPRING       NM       LEA         1       Se SW       Se SW       1/1/2022       5/1/2022       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING       Se SPRING																					
41     30025490810000     U S A INC     219H     Oil     Active     SE SW     1/1/2022     5/1/2022     20542'     2.875																			_		
41       30025490810000       0.5 A INC       219H       OII       Active       SE SW       1/1/2022       20542       20542       20471       20522       9429       SPRING       NM<       LEA         1       30025490810000       0.5 A INC       219H       OII       Active       SE SW       1/1/2022       20542       20542       12050       1303'       1144       Circ       114       Circ       114       114       114       Circ       114							33E, 10														
Image: Second second	41	30025490810000	U S A INC	219H	Oil	Active	SE SW	1/1/2022	5/1/2022	20542'		2.0/5		1		20471'	20552	9429	SPRING	NM	LEA
12.250 13.375 0'-4851' 928 Circ 8.750 Intermedia 0'- 8883' 806 Circ							1				17.500	Surface-	0' - 1393'	1114	Circ						
8.750 Intermediat 0' - 8883' 806 Circ							1														
							1														
											5.125				cuic						
				DL 15 22			860 FSL.							1							
													0/12	1							
														1							
L FED , 22S, 4.500														1							
CHEVRON         COM         33E, 10         Tubing-         9874' -         BONE		1	CHEVRON	COM			33E, 10							1		9874' -			BONE		
2010					Oil	Active		1/11/2022	5/1/2022	20372'		2.875		1			20382	9498		NM	LEA
17.500 Surface- 0'-1386' 1225 Circ Circ Circ Circ Circ Circ Circ Circ	42		USAINC	220H				-,, 2022	5, 1, 2022	20072	17 500	Surface	0' - 1296'	1225	Circ	+	20002	5.50			
	42		U S A INC	220H	0.1			1													
12.250 13.375 0'- 4871 907 Circ	42		U S A INC	220H	0										CIFC	1			1		1
	42		U S A INC	220H	0										Class	1					
	42		U S A INC	220H							8.750			803	Circ						
	42		U S A INC	220H							8.750 6.125	e 1- 9.625	8682' -	803 763	Circ Calc						
e 2-7.000 8075	42		U S A INC				960 FSI					e 1- 9.625 Intermediat	8682' - 20328'								
	42		U S A INC	DL 15 22			860 FSL,					e 1- 9.625 Intermediat e 2- 7.000	8682' - 20328'								
L FED , 22S, 4.500	42		U S A INC				860 FSL <i>,</i> 1840 FWL					e 1- 9.625 Intermediat e 2- 7.000 Production-	8682' - 20328'								
	42		U S A INC	DL 15 22 NARWHA			1840 FWL					e 1- 9.625 Intermediat e 2- 7.000 Production-	8682' - 20328'								
2 075	42	30025490820000		DL 15 22 NARWHA L FED			1840 FWL , 22S,					e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500	8682' - 20328'			0942'			BONE		
43       30025490830000       U S A INC       221H       Oil       Active       SE SW       1/19/2022       5/1/2022       20328'       2.073       20257'       20338       9528       SPRING       NM       LEA		30025490820000	CHEVRON	DL 15 22 NARWHA L FED COM	Oil	Activo	1840 FWL , 22S, 33E, 10	1/10/2022	E /1 /2022	20228'		e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing-	8682' - 20328'			9842' - 20257'	20338	9528	BONE SPRING	NIM	LEA

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## DLKCLGC CLGC Well List Tab

				DL 10 15 OGOPOG O FED			1986 FSL, 1238 FEL ,				17.500 12.250 8.750 6.125	13.375 Intermediat e 1- 9.625 Intermediat	0' - 4940' 0' - 9992' 9803' -	852 988	Circ Circ Circ Calc						
			CHEVRON	СОМ			22S, 33E,					Tubing- 2.875				11572' -			BONE		
4	8 3	30025499060000	U S A INC	422H	Oil	Active	10 NE SE	7/11/2022	########	22065'		2.075				21963'	22041	10984	SPRING	NM	LEA
											17.500		0' - 1706'		Circ						
											12.250		0' - 5000'		Circ						
											8.750	Intermediat			Circ Calc						
											6.125		9694' -	749	Calc						
				DL 10 15								Intermediat e 2- 7.000	21742 9743'								
				OGOPOG			1986 FSL,					Production-	5745								
				O FED			1213 FEL ,					4.500									
			CHEVRON	-			22S, 33E,					Tubing-				44274			BONE		
4	0 3	30025499070000			Oil			10/11/2022	1/1/2022	21742'		2.875				11271' - 21677'	21757	10764	SPRING	NM	LEA
4	.9 3	50023499070000	USAINC	4230	UI	Active	TO INE SE	10/11/2022	4/1/2023	21/42	17.500	Surface-	0' - 1727'	634	Circ	21077	21/3/	10704	SPRING		LEA
											17.500		0' - 1727 0' - 4984'		Circ						
											8.750	Intermediat			Circ						
											6.125		9561' -		Calc						
												Intermediat	21994'								
				DL 10 15								e 2- 7.000	9680'								
				OGOPOG			1986 FSL,					Production-									
				O FED			1188 FEL,					4.500									
			CHEVRON	COM			22S, 33E,					Tubing-				11537' -			BONE		
5	0 3	30025499080000	U S A INC	424H	Oil	Active	10 NE SE	10/11/2022	4/1/2023	21994'		2.875				21927'	22008	11015	SPRING	NM	LEA

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						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 Determin ed	Completi on Interval (ft)	Total Depth (MD)	TVD (TVDSS)	urrent Poo	State	County
										17.500 12.250 8.500 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500	0' - 1130' 0' - 1600' 0' - 11500' 11200' - 15200' 11140'	1100 2050 1591 700	Circ Circ Circ Unknown						
1	20025274520002	RAYBAW OPERATING LLC	FED 15 COM A 001	Oil	A	1980 FSL, 1980 FEL , 22S, 33E, 15 NW SE	12/12/1000	1/1/1002	15200'		Tubing- 2.375				10911' - 1011	15200	15200	MORROW		LEA
	30025271530002	RAYBAW OPERATING LLC	FED 15 COM A 001	Oli	Active	1980 FSL, 1980 FEL , 225, 33E, 15 NW SE	12/12/1980	1/1/1982	15200	17.5 12.250 8.750 6.125	Surface- 13.375 Intermediat e- 9.625 Production- 7.0		950 1250 1700 325	Circ Circ Circ Circ	10911' - 1011	15200	15200	MORROW	NIM	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'		Liner- 4.5 Tubing- 2.375				10898' - 10970'	15400	15345	MORROW	NM	LEA
2	50025505050001				Active	1930 ( M, 1930 ( C, 223, 332, 3 5W K	4,5/2004	0/13/2004	19400	17.5 12.250 8.750	Surface- 13.375 Intermediat e- 9.625 Production- 5.500	0' - 1670' 188' - 5033' 4300' - 15561' 10450'	1570 1360 1950	Circ Calc Theory		15400	15545			
2	20025 4426 40400			Oil			0/24/2014	40/0/2014	45564		5.500 Tubing- 2.875				11333' - 15362'	16044		BONE SPRI		LEA
3		MARATHON OIL PERMIAN LLC				160 FNL, 360 FEL , 21S, 33E, 34		10/8/2014		16.00 12.250 8.750	5.500 Tubing-	0' - 1711' 300' - 5330' 2808' - 16946' 11272'	1073 2525 1530	Unknown Oth Unknown	12330' -					
4	30025420090100	MARATHON OIL PERMIAN LLC	BATTLE 002H	Oil	Active	240 FSL, 1660 FEL , 21S, 33E, 27	2/24/2015	7/1/2015	16946'	16.000 12.250 8.500	2.875 Surface- 13.375 Intermediat e- 9.625 Production- 5.500 Tubing-	0' - 1710' 0' - 5156' 0' - 16695' 11342'	855 610 2705	Circ Unknown Unknown	16849'	16850	12017	BONE SPRI	NM	LEA
5	30025420660000	MARATHON OIL PERMIAN LLC	ABE STATE 002H	Oil	Active	185 FSL, 360 FEL , 215, 33E, 29	9/8/2014	1/15/2015	16695'	16.000 12.250 8.500	2.875 Surface- 13.375 Intermediat e- 9.625 Production-	0' - 1702' 0' - 5340' 0' - 16155' 11044'	1350 1654 2550	Circ Unknown Circ	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'	24.000 17.500 12.500	5.500 Tubing- 2.875 Surface- 20.000 Intermediat	0' - 3553' 0' - 5350'	2350 2480 1042	Unknown Unknown Unknown	11536' - 16064'	15950	11009	BONE SPRI	NM	LEA
7	30025426360000	MARATHON OIL PERMIAN LLC	RATTI F 34 FEDERAL MAH	Oil	Active	191 FSL, 960 FWL , 215, 33E, 27 SW SW	6/6/2017	7/26/2017	15953'	8.750	e 1- 13.375 Intermediat e 2- 9.625 Surface- 5.500 Tubing- 2.875	0' - 15953' 10821'	1830	Unknown	11203' - 15663'	16728	10974	BONE SPRI	NM	LEA
,	55025420500000			01	AUTA	222, 35, 300, 776, 213, 336, 27 37V 3VV	0,0,2017	772072017	1,77,7	26.000 17.500 8.750	Surface- 20.000 Intermediat e- 9.625 Production- 5.500	0' - 795' 0' - 4631' Unknown - 15945' 10170'	1390 3590 1610	Circ Circ Unknown		10/20	10374	JONE JENI		
			CHILI PARLOR 17 FEDERAL 002H	Oil		240 FSL, 360 FEL , 22S, 33E, 8 SE SE	10/5/2016				Tubing- 2.875				11294' - 15825'	16864		BONE SPRI		LEA

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Released							DLKCLCG Halfmile AOR	Csg Info	Tab												Wecen
ed to Imaging:											17.500 12.250 8.750	13.375 Intermediat e- 9.625 Production- 5.500	29' - 1086' 29' - 4794' 29' - 15737' Unknown	2200	Circ Circ Unknown						
ŝ	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'		Tubing- Unknown				Unknown - Unknown	15913	10852	BONE SPRI	NM	LEA
: 9/19/2024											17.500 12.250 8.750	Surface- 13.375 Intermediat e- 9.625 Production- 5.500	0' - 5448'	1300 1775 4200	Unknown Unknown Unknown						10/2024
124	10	30025/31790100	COG OPERATING LLC	RASPBERRY STATE COM 001H	Oil	Active	330 FSL, 200 FEL , 21S, 33E, 27	6/30/2016	10/4/2016	21022'		Tubing- 2.875				11121' - 20860'	20900	10918	BONE SPRI	NM	LEA
							200 100 E00 100, E2, E2, OUC, E7	0,00,2010	10, 1,2010		17.500 12.250 12.250 8.750	Surface- 13.375 Intermediat e 1- 9.625 Intermediat e 2- 9.625 Production- 5.500 Tubing-	0' - 4000' 0' - 4800'	1025 1300 1300 2225	Circ Circ Calc Unknown		20300	10510			
	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'		2.875				11096' - 15547'	14209	10899	BONE SPRI	NM	LEA
											17.500 12.250 8.750	13.375 Intermediat e- 9.625 Production- 5.500		1375 1200 3880	Circ Circ Unknown	11200' -					
_	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	2.875 Surface-	0' - 1677'	1574	Circ	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'	12.250 8.750	13.375 Intermediat e- 9.625 Production- 5.500 Tubing- Unknown	0' - 5065' 0' - 15978' Unknown	1452 3418	Circ Unknown	Unknown - Unknown	16110	11001	BONE SPRI	NM	LEA
											17.500 12.250 8.500	Intermediat e- 9.625 Production-	1740'	950 1410 3085	Circ Circ Unknown						
	14	30025450840000	MATADOR PRODUCTION CO	MERCHANT STATE UNIT 601H	Oil	Active	180 FNL, 330 FWL, 215, 33E, 35	9/16/2018	11/9/2018	22111'	17.500 12.250 8.750	Surface- 13.375 Intermediat	0' - 4730' 4224' - 14238'	1270 1495 1810	Circ Circ Unknown	11969' - 2197	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	2.875 Surface-	0' - 1128'	1270	Circ	9755' - 14238	14362	9421	BONE SPRI	NM	LEA
	16	30025453260000	EOG RESOURCES INC	SPEEDY 16 STATE COM 202H	Oil	Active	326 FNL, 614 FWL , 225, 33E, 16	12/20/2018	2/7/2020	14286'	12.250 8.750	13.375 Intermediat e- 9.625 Production- 5.500 Tubing- 2.875	0' - 4734' 3140' - 14286' 8931'	1495 1805	Circ Unknown	9655' - 14301	14364	9405	BONE SPRI	NM	LEA
											17.500 12.250 8.750	e- 9.625	0' - 1175' 0' - 4738' 3818' - 14274' 8933'	1095 1560 1990	Circ Circ Unknown						
	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'		2.075			1	9645' - 14260	14350	9424	BONE SPRI	NM	LEA

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										17.500 12.250 8.750	Surface-         0' - 11'           13.375         0' - 47'           Intermediat         4260' -           e- 9.625         14640           Production-         9533'           5.500         Tubing-	7' 1285 1860	Circ Circ Unknown						
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	2.875 Surface- 0' - 15	'9' 1465	Circ	10216' - 146	14796	9965	BONE SPR	INM	LEA
										12.250 8.750	13.375 0' - 51: Intermediat 0' - 15: e- 9.625 Unkno Production- 5.500 Tubing-	2116 235' 2981	Circ Unknown						
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'		Unknown			Unknown - Unknown	15875		BONE SPR	INM	LEA
										17.500 12.250 8.500	Surface-         0' - 17:           13.375         4164'           Intermediat         5233'           e- 9.625         11159           Production-         21827           5.500         Unkno           Tubing-         Unknown	1615 2925	Circ Circ Unknown						
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	Surface- 0' - 172	2' 819	Circ	11955' - 217	21875	11880	BONE SPR	INM	LEA
										12.250 8.500	13.375 0' - 524 Intermediat 1764' - e- 9.625 21441' Production- Unkno 5.500 Tubing-	2985	Unknown Unknown						
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'	10.000	Unknown	151 055		Unknown - Unknown	21785	11404	BONE SPR	INM	LEA
22	20025 455 440000				Antina	204 FEL 4247 FEL 225 225 45WEF	4/20/2020	7/1/2022	20685'	16.000 12.250 8.500	Surface-         0' - 13i           13.375         0' - 49:           Intermediat         0' - 20:           e- 9.625         9189'           Production-         5.500           Tubing-         2.875	7' 1548	Circ Circ Circ		20700	0501			
22	30025466440000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 4H	Oil	Active	264 FSL, 1347 FEL , 225, 33E, 4 SW SE	4/29/2020	7/1/2022	20685	16.000 12.250 8.500	Surface-         0' - 13i           13.375         0' - 48i           Intermediat         0' - 19'           e- 9.625         9128'           Production-         5.500           Tubing-         1000000000000000000000000000000000000	1548	Circ Circ Circ	10258' - 206	20700	9581	BONE SPR		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	2.875 Surface- 0' - 13	5' 856	Circ	10501' - 197	19802	9595	BONE SPR	INM	LEA
										12.250 8.500	13.375 0' - 493 Intermediat 0' - 200 e- 9.625 9191' Production- 5.500 Tubing-	1998	Circ Circ						
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	2.875 Surface- 0' - 13	6' 855	Circ	10262' - 205	20694	9572	BONE SPR	INM	LEA
										12.250 8.500	13.375 0' - 490 Intermediat 0' - 203 e- 9.625 9111' Production- 5.500 Tubing- 2.875		Circ Circ						
25	30025466470000	CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 16H	Oil	Active	263 FSL, 1372 FEL , 225, 33E, 4 SW SE	4/9/2022	2/2/2024	20314'	16.000 12.250 8.500	Surface-         0' - 13i           13.375         0' - 48i           Intermediat         0' - 20i           e- 9.625         9075'           Production-         5.500	1548	Circ Circ Circ	9936' - 2024	20324	9510	BONE SPR	INM	LEA
		CHEVRON U S A INC	DL 9 16 LOCH NESS FED COM P1 17H	Oil		264 FSL, 1322 FEL , 22S, 33E, 4 SW SE	5/24/2020			1	Tubing- 2.875			10514' - 204	20539		BONE SPR		LEA

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ed to Imaging:	27 30025466490000 CHEVRON U S A INC DL 9 16 LOCH NESS FED COM P1 18H Oil Active 264 F5L, 1272 FEL, 225, 33E, 4 5E SE 5/24/202 6/20/202 20432' 2875 10195'-203 2044 948 BONE SPR NM LEA																			
20	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'		2.875				10195' - 203	20444	9483	BONE SPR	NM	
9/19/2024	28	30025466950000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 301H	Oil	Active	200 FNL, 910 FWL , 215, 33E, 35	2/11/2020	1/16/2021	20306'	17.500 12.250 8.500	13.375 0' Intermediat 16 e- 9.625 20	- 5348'	820 1330 2935	Circ Circ Circ	10445' - 2020	20203	10115	BONE SPR	NM	
12/13:01PPM	20	30025466960000 MATADOR PRODUCTION CO	MEDCHANT STATE UNIT FOLL	Oil	Astivo	200 ENII 820 ENII 215 225 25	3/6/2020	12/1/2020	21142	17.500 12.250 8.500	13.375 0' Intermediat 0'	- 5324'	820 1330 2885	Circ Circ Circ	Unknown - Unknown	20665	11155		NM4	LEA
2	29		MERCHANT STATE UNIT 501H		Active				21142'	17.5	Surface-13.3 0'	- 1802'	835	Circ	Unknown -			BONE SPR		LEA
	30	30025466970000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 511H	Oil	New	200 FNL, 2504 FWL , 215, 33E, 35	4/6/2020	12/1/2020	1802'	17.500 12.250 8.500	13.375 0' Intermediat 99 e- 9.625 21	- 5301'	835 850 2955	Circ Circ Unknown	Unknown	20840	10484	BONE SPR		LEA
	31	30025466980000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 553H	Oil	A	200 FNL, 2537 FWL , 21S, 33E, 35	4/10/2020	12/1/2020	21404		Tubing- Unknown				Unknown - Unknown	21421	11220	BONE SPR		LEA
		30025405900000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 509H	Oil		200 FNL, 870 FWL , 215, 33E, 35		12/28/2020		17.500 12.250 8.500	13.375 38 Intermediat 53 e- 9.625 0'	805' -	820 1330 2935	Circ Circ Circ	10859' - 206			BONE SPR		LEA
	33	30025467020000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 510H	Oil	Active	200 FNL, 1654 FWL , 215, 33E, 35	2/21/2020	12/29/2020	20737'	17.500 12.250 8.500	13.375 39 Intermediat 53 e- 9.625 21 Production- 20	923' -	835 1335 2985	Circ Circ Circ	10988' - 206	4 22132	10769	BONE SPR	NM	LEA
	34	20075457020000 MATADOD DDODUCTION CO		C.	New	200 ENI 4697 ENI 246 225 25	2/0/2020	12/1/2020	21520'	17.500 12.250 8.500	13.375 0' Intermediat 17 e- 9.625 21	- 5324'	835 1335 3050	Circ Circ Unknown	Unknown -	224.24	11207	BONE COO	NM4	
	34	30025467030000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 552H	Oil	New	200 FNL, 1687 FWL , 215, 33E, 35	3/3/2020	12/1/2020	21538	17.500 12.250 8.500	Surface-         0'           13.375         0'           Intermediat         17           e- 9.625         22           Production-         Ur           5.500         Tubing-	- 5343'	835 1335 3100	Circ Circ Unknown	Unknown Unknown -	22131	11321	BONE SPR	14141	LEA
	35 36 37	30025467040000 MATADOR PRODUCTION CO 30025474230000 MATADOR PRODUCTION CO 30025488340000 MATADOR PRODUCTION CO	MERCHANT STATE UNIT 603H MERCHANT STATE UNIT 604Y DAGGER LAKE SOUTH 8 FED COM 606H	Oil Oil Oil		200 FNL, 1720 FWL , 21S, 33E, 35 200 FNL, 2608 FWL , 21S, 33E, 35 NW 280 FSL, 1576 FEL , 22S, 33E, 8 SW SE	3/18/2020 7/30/2020 4/20/2023	3/28/2020 8/9/2020	22116'	17.500 12.250 8.500 Unknown	Production- 5.500 17 Tubing- Unknown Ur	2116' nknown	835 790 3085 Unknown	Circ Circ Unknown Unknown	Unknown Unknown - Unknown Unknown	22133		BONE SPR BONE SPR BONE SPR	NM	LEA LEA LEA

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									17.500 12.250 8.750 6.125	13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500	0' - 4945' 0' - 9031' 8851' -	1126 772 722 769	Circ Circ Circ Calc						
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	Tubing- 2.875 Surface- 13.375	0' - 1330' 0' - 4915'	1126 852	Circ	10048' - 2046	20551	9449	BONE SPR	INM	LEA
									8.750 6.125	Intermediat e 1- 9.625 Intermediat	0' - 8986' 8772' -	720 763	Circ Circ Calc						
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'		Tubing- 2.875				9978' - 20399	20480	9462	BONE SPR	INM	LEA
									17.500 12.250 8.750 6.125	e 2- 7.000 Production- 4.500	0' - 1339' 0' - 4912' 0' - 8972' 8744' - 20439' 8743'	1126 850 717 763	Circ Circ Circ Calc						
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'		Tubing- 2.875				9947' - 20368	20453	9438	BONE SPR	INM	LEA
							- 1- 1		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						
41	30025490810000 CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 219H	Oil	Active	860 FSL, 1790 FWL , 225, 33E, 10 SE SW	1/1/2022	5/1/2022	20542'	17.500 12.250 8.750 6.125	Intermediat e 2- 7.000 Production- 4.500 Tubing-	8701' -	1114 928 806 764	Circ Circ Circ Circ Calc	10202' - 2047	20552	9429	BONE SPR	INM	LEA
42	30025490820000 CHEVRON U S A INC	DL 15 22 NARWHAL FED COM 220H	Oil	Active	860 FSL, 1815 FWL , 225, 33E, 10 SE SW	1/11/2022	5/1/2022	20372'	17.500 12.250 8.750 6.125	e 2- 7.000 Production- 4.500	0' - 1386' 0' - 4871' 0' - 8871' 8682' - 20328' 8679'	1225 907 803 763	Circ Circ Circ Calc	9874' - 20301	20382	9498	BONE SPR	INM	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'		Tubing- 2.875				9842' - 20257	20338	9528	BONE SPR		LEA
44 45	30025492710000 MATADOR PRODUCTION CO 30025495570000 MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 510H DAGGER LAKE SOUTH 8 FED COM 512H	Oil	New New	280 FSL, 1642 FEL , 22S, 33E, 8 SW SE 280 FSL, 1609 FEL , 22S, 33E, 8 SW SE			Unknown Unknown	Unknown Unknown	Unknown Unknown	Unknown Unknown	Unknown Unknown	Unknown Unknown	Unknown Unknown			BONE SPR BONE SPR		LEA LEA
46 47	30025495610000 MATADOR PRODUCTION CO 30025496100000 MATADOR PRODUCTION CO	DAGGER LAKE SOUTH 8 FED COM 556H DAGGER LAKE SOUTH 8 FED COM 564H	Oil	New	280 FSL, 1675 FEL , 22S, 33E, 8 SW SE 280 FSL, 1543 FEL , 22S, 33E, 8 SW SE			Unknown		Unknown	Unknown	Unknown	Unknown	Unknown Unknown			BONE SPR BONE SPR	INM	LEA LEA
+/		productions and in a real convigation	011	IVEW	200 - 04, 2093 FEE, 223, 336, 0 3W 3E			UNKIUWI	17.500 12.250 8.750 6.125	Surface- 13.375 Intermediat e 1- 9.625 Intermediat	0' - 1717' 0' - 4940' 0' - 9992' 9803' -	Unknown 643 852 988 765	Unknown Circ Circ Circ Circ Calc	STRIGWI			SONE SPN		

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ed to Imaging: 9/1	49	30025499070000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 423H	Oil	Active	1986 FSL, 1213 FEL, 225, 33E, 10 NE SE	10/11/2022	4/1/2023	21742'	17.500 12.250 8.750 6.125	13.375 Intermediat e 1- 9.625 Intermediat e 2- 7.000 Production- 4.500 Tubing- 2.875	0' - 5000' 0' - 9900' 9694' - 21742' 9743'	643 852 984 749	Circ Circ Circ Calc	11271' - 216	21757	10764	BONE SPR	NM	LEA
9/19/2024 12/13:21PRM	50	30025499080000	CHEVRON U S A INC	DL 10 15 OGOPOGO FED COM 424H	Oil	Active	1986 FSL, 1188 FEL, 225, 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' - 219;	22008	11015	BONE SPR	NM	LEA
0	51		MARBOB ENERGY CORP	CHEAPER THAN KIDS FEDERAL 001			*SAME WELL AS REF #52*														
PPM	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	Tubing - 2.875	0' - 624' 0' - 4906' 9020'	700 1850	Circ Circ	9949' - 14940	15010	9517	BONE SPR	NM	LEA
	52	20025244200000	RAVEAU OFFICIATING U.C.		SIMP	Anting	1000 ENI (2015) 215 225 22	E /20 /1072	12/22/4072	14920	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	University		14002	14000			154
-	53 54		RAYBAW OPERATING LLC RAYBAW OPERATING LLC	PEARSON SWD #001 GETTY `15` FEDERAL 001	SWD	Active	1980 FNL, 660 FEL, 21S, 33E, 33 *SAME WELL AS REF #1*	5/30/19/3	12/23/1973	14820'					Unknown	5790 6632.	14983	14983	CHERRY C	INIVI	LEA
	55	30025280960000	RAYBAW OPERATING LLC	FEDERAL'15'COM 'B' 1	Gas	Active	660 FNL, 1980 FWL, 225, 33E, 15	12/17/1982	12/30/1982	11500'	13.375 9.625 7.000	7.000 Tubing- 2.375	0' - 1100' 0' - 5460' 0' - 11500' 14194'	1075 4000 1860	Unknown	14344' - 1459	15092	15092	MORROW	NM	LEA
											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							
_	56	30025330610000	MATADOR PRODUCTION CO	ABE UNIT 1	Oil	Active	760 FSL, 1980 FEL, 21S, 33E, 28	8/25/1995	11/30/1995	15098'	17.500	2.875 Surface-	0' - 1848'	1175	Unknown	14163' - 1413	15100	15100	ATOKA MO	NM	LEA
	57	30025420620000	COG OPERATING LLC	PYGMY 27 STATE 2H	Oil	Active	190 FNL, 1980 FWL, 215, 33E, 27	3/17/2015	5/26/2015	14830'	12.250 8.750	13.375 Intermediat e- 9.625 Production- 5.500 Tubing- 2.875	0' - 5626' 0' - 14830' 9651'	3661 2230	Circ	10437' - 144	14835	10259	BONE SPR	NM	LEA
	58	30025429040000	COG OPERATING LLC	WARBLER STATE COM 002Y	Oil	Active	195 FNL, 2010 FWL, 215, 33E, 28 NE NW	11/29/2015	4/29/2016	15315'	20.000 14.750 10.625 7.785	e 1- 11.750	0' - 1748' 0' - 3510' 3186' - 5330' 0' - 15315' 10337'	1350 1575 2035 2150	Unknown	11082' - 152:	15362	10963	BONE SPR	NM	LEA

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59										26.000 17.500 12.250 8.750	20.000 Intermediat e 1- 13.375 Intermediat e 2- 9.625 Production-		2145 4060 2275 410	Circ Circ Circ Circ						
59	30025441440000	DKL Field Services, LLC	DOODLE BUG SWD STATE 001	SWD	Active	1498 FNL, 2390 FEL, 225, 33E, 16	2/26/2020	10/30/2020	16687'	17.500 12.250 8.750		0' - 1603' 500' - 5110' 0' - 14493'	1630 2115 2670	Circ Oth	Unknown	17200	17200	DEVONIA	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	5.500 Surface-	0' - 1604' 0' - 5127' 0' - 14394'	1630 1860 2685	Circ Circ	Unknown	14502	9618	BONE SPR	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'		5.500		<u> </u>	<u> </u>	Unknown	14409	9626	BONE SPR	NM	LEA

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	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			DELAWARE	NM	LEA	X
_	2	30025280970000	YATES PETROLEUM CORP	PRONGHORN 'ACZ' 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	H
_	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	$\sim$
_	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	1
_	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	1
_	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	9
_	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	N
_	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	2
_	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	4
	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	1
_	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	4
	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	13
	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	0
	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	
<u>.</u>			-														
1																	2

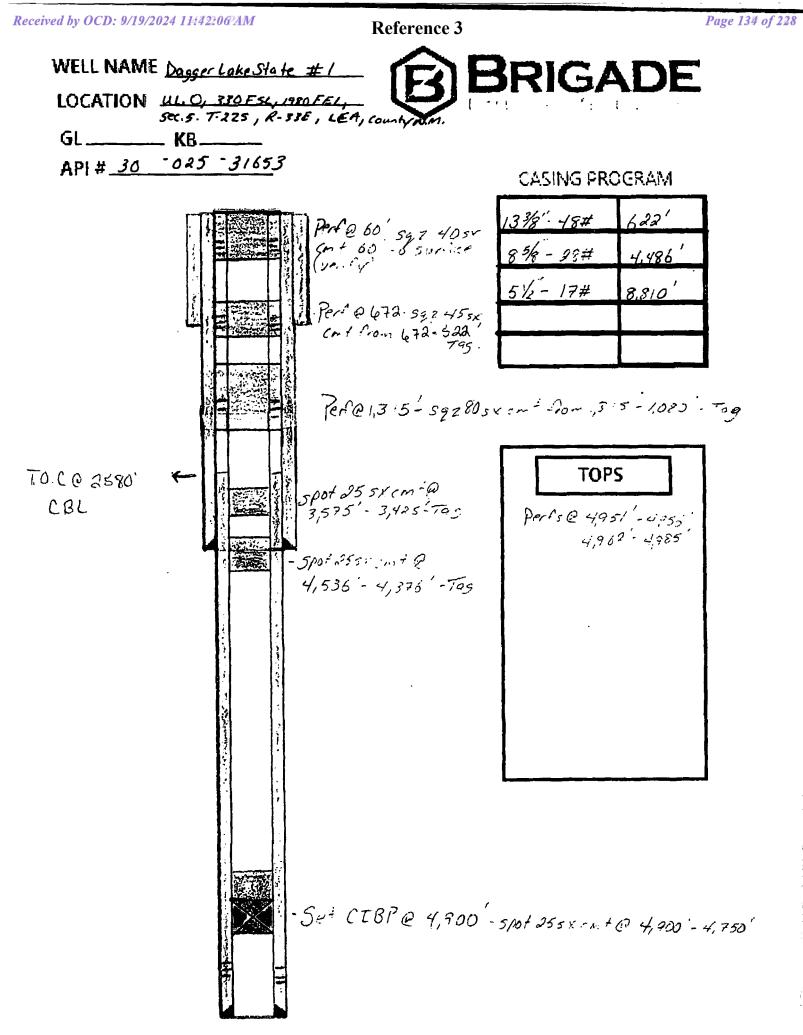
Form 9-331 (May 1963)			Reference 1		•	Page 132 a
(May 1903)	DEPARTM		NTERIOR Verse Bid	IN TRIPLIC	Form approve Budget Burget 5. LEASE DESIGNATION NM-26392	n No. 42-R1424
		EOLOGICAL SUR			6. IF INDIAN, ALLOTTER	OR TRIBE NAME
(Do not use this i			or plug back to a different for such proposals.)			
1. OIL X GAB WELL WELL	OTHER			MEM	7. UNIT AGREEMENT NA	ME
2. NAME OF OPERATOR			- POFI	A The fin	8. FABM OR LEASE NAM	E
Texas Pacifi	ic Oil Com	pany, Inc.	mebe"		Reed Federal	-
3. ADDRESS OF OPERATOR		1	M -214	ייכו ל	9. WELL NO.	
P. 0. Box 40	067, Midla	URVE '				
See also space 17 belo	(w.)	any and in accordance	with any state requirem	SICAL	10. FIELD AND POOL, OI	HILDCAL
Imit I 221(	OI EST and	¢∩∩। ছামা	IL S. GEOLO	NEW WILL	Wildcat 11. sec., т., в., м., ов в	LE AND
UIII L, 2)I(	J. LOT and	900. LMT	9701 <sup>UC</sup> <u>SF</u> ? with any State requirem U. <b>S. GEOLO</b> HOBBS, N	JEW MEXICO	SURVEY OR ABEA	
					Sec 4 - 22	5.225
14. PERMIT NO.		15. ELEVATIONS (Show	whether DF, RT, GR, etc.)		12. COUNTY OF PARISH	
		3664 '			Lea	New Mexi
		· · · · · · · · · · · · · · · · · · ·				L'UCH MCAL
16.	Check Ap	propriate Box to In	dicate Nature of No	tice, Keport, or	r Uther Data	
N	NOTICE OF INTENT	TION TO:		SUBS	EQUENT REPORT OF:	
TEST WATER SHUT-OF	7 <b>F</b>	ULL OR ALTER CASING	WATER	SHUT-OFF	BEPAIRING V	VELL
FRACTURE TREAT	м	ULTIPLE COMPLETE	FRACTU	RE TREATMENT	ALTERING CA	SING
SHOOT OR ACID	▲	BANDON*	SHOOTI	NG OR ACIDIZING	ABANDONME	хт• <u>Х</u>
REPAIR WELL	c:	HANGE PLANS	(Other)			
(Other)				ore: Report resu ompletion or Recor	ilts of multiple completion mpletion Report and Log for	on well m.)
proposed work. If nent to this work.) * 9-3-77	Set CIBP				tical depths for all markers 5x. cement. Circ	-
9-4-77			ing at 3020'. bing to 3054',		jts. ) sx. Class "H" c	ement
9 <b>-</b> 7 <b>-</b> 77 thru				O'. Pulled	tubing to 1395	
9-7-77 thru 9-9-77	pumped 1 BOP. Cu	50 sx. cement. t off 8 5/8" t	Tagged plug		POH w/tubing, re c. cement plug.	
	pumped 1 BOP. Cu dry hole	50 sx. cement. t off 8 5/8" t marker.	Tagged plug	otted 10 sx		
9-9-77	pumped 1 BOP. Cu dry hole	50 sx. cement. t off 8 5/8" t marker.	Tagged plug pradenhead - sp	otted 10 sx		
9-9-77	pumped 1 BOP. Cu dry hole Cut off the foregoing is McClin	50 sx. cement, t off 8 5/8" t marker. anchors & clea true and correct	Tagged plug pradenhead - sp	otted 10 sx	c. cement plug.	Installed
9-9-77 9-10-77 18. I bereby certify that SIGNED	pumped 1 BOP. Cu dry hole Cut off the foregoing is MCCun	50 sx. cement, t off 8 5/8" t marker. anchors & clea true and correct find to Tr Tr we use) TI	Tagged plug pradenhead - spo med up location District 0	perations S	c. cement plug.	Installed

4-

# **Reference 2**

REISSUES PI# 30-T-0014 06/05/89 30-025-28097-0000		33E GE 2
YATES PET 1 PRONGHORN "ACZ" FEDERAL	WS	WS
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 30-025-280 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	97	
01/09 5700 TD, HOLDING FOR DATA TD REACHED 12/20/85 RIG REL 12/22/85 01/16 5700 TD		
01/10S/0012/22/85, D&ACOMP12/22/85, D&ANOCORES, ONE11/05REISSUED TO ADD LOG TOPS, LOGS RREPLACEMENT FOR CT ISSUED 1/20/806/01REISSUED TO ADD DSTREPLACEMENT FOR CT ISSUED 11/10/	6	

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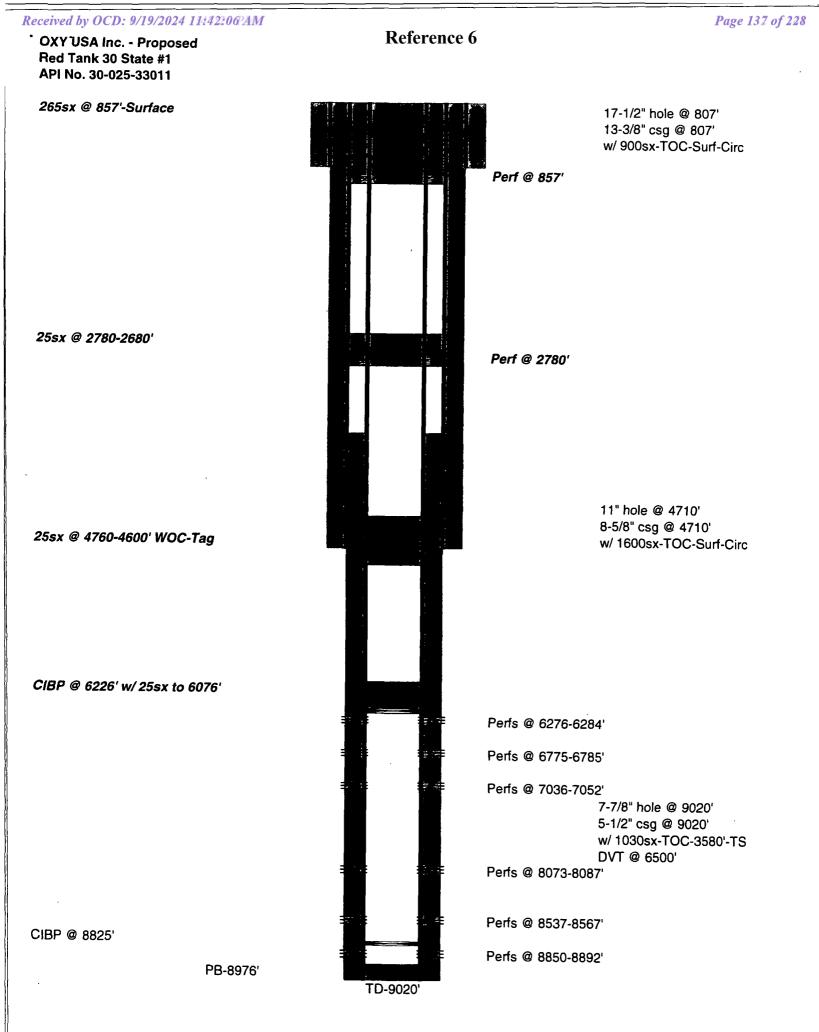


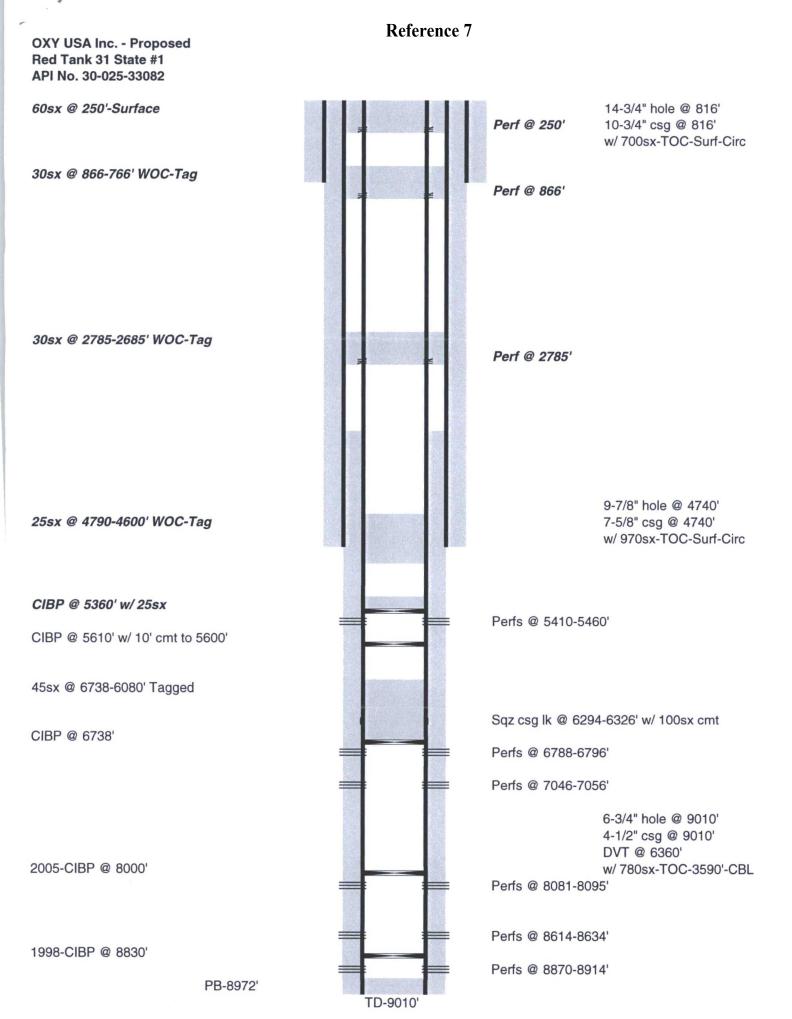
BUREAU OF LAND MANAGEMENT       SUBDRY NOTICES AND REPORTS ON WELLS       Do not use this form for proposais to drill or to deepen or reservity to a different reservat.       Use "APPLICATION FOR PERMIT—" for such proposals       SUBMIT IN TRIPLICATE       1 The of with       SUBMIT IN TRIPLICATE       1 The of with       SUBMIT IN TRIPLICATE       1 The of with       SUBMIT IN TRIPLICATE       1 The of with       SUBMIT IN TRIPLICATE       1 The of with       SUBMIT IN TRIPLICATE       1 The of with       Submit of tripleter No.       Production Colspan="2">December Non       1 Check APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA       TYPE OF SUBMISSION       TYPE OF ACTION       Other Charge Colspan="2">December None       December Proposed or Complete Operation (Charge or Plan: Rese control on the other None, Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese control on the Submit Science (Charge or Plan: Rese contrese (Research on the Submit Sc	une 1990) DEPARTME	ITED STATES NT OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
SUBDRY 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	BUREAU OF	LAND MANAGEMENT	
Do not use this form for proposals to drill or to deepen of rearty to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals        If there or CA. Agreement Deependon          SUBMIT IN TRIPLICATE       If there or CA. Agreement Deependon        If there or CA. Agreement Deependon          Now 30 Deependon        Status        If there or CA. Agreement Deependon          Now 30 Deependon        If there or CA. Agreement Deependon        If there or CA. Agreement Deependon          3 Address of Therefore Non        Status        If thereage, SE. T. R. M. or Survey Deerefords          4 Location of Well Researds, SE. T. R. M. or Survey Deerefords        If the out CA. Agreement Dearefords          3 Address of Therefore Non        Status        If could or Premin, Survey          4 Location of Well Researds, SE. T. R. M. or Survey Deerefords        If could or Premin, Survey          4 Location of Well Researds, SE. T. R. M. or Survey Deerefords        If could or Premin, Survey          7 Sec. S. T. Z2S, R.33B       If the out CA. Agreement Deareford or Preminits          9 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT. OR OTHER DATA        TYPE OF SUBMISSION          10 Decreate Proposal or Competition Organized Report        Advancement        Decreate Proposal or Competition          11 Decreate Proposa		AND DEDORTS ON WELLS	
SUBMIT IN TRIPLICATE         1. Type at Well       Sec.         2. New of Operator       Page T Lake "8" Fed. f         Meridian 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Addition 011 Inc.       915-688-6800         1. Cause of Well (Forage, Sec. T, R. M., e Same, Description)       1. Cause of Phila         1. Cause of Well (Forage, Sec. T, R. M., e Same, Description)       1. Cause of Phila         1. Decame Property Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	Do not use this form for proposals to a	Irill or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Fride Name
IX Weight Content       S. Weight Content       S. Weight Content       S. Weight Content         2 Nume and Stephone No.       Mediatan 011 Inc.       S. Aveight Content       S. Weight Content         3 Address and Telepoore No.       State State State Stephone No.       State State State Stephone No.       State	SUBMI	T IN TRIPLICATE	7. If Unit or CA. Agreement Designation
Meridian 011 Inc.       9. AR Well No.         3 Adjess and Technone No.       9. AR Well No.         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       10. Fedd and Root, or Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. End and Root, or Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. End and Root, or Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. End and Root, or Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. Exploratory Area         2 Leasen of Well Frouge. Sec. T. R. M. or Survey Descriptions       11. Exploratory Provide Sec. T. R. M. or Survey Descriptions         2 C. 6600 'FNL & 1980' FVL.       12. Exploratory Provide Sec. T. R. M. or Survey Descriptions         2 C. 6600 'FNL & 1980' FVL.       12. Exploratory Provide Sec. T. R. M. or Survey Descriptions         2 Subsequent Report       12. Exploratory Provide Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Description Figure Sec. T. R. M. or Survey Descripting Sec. T. R. M. or Survey Descripting T. Sec. Sec. Sec			
P.O. Box 31810, Nidland, TX 79710-1810       915-688-6800       Ib. Feid as Pot. or Exploretry Are Dagger Lake Delavate It. Center of Welf (Forage, Sec. T. R. M. or Survey Description)         I. Leation of Welf (Forage, Sec. T. R. M. or Survey Description)       Ib. Feid as Pot. or Exploretry Are Dagger Lake Delavate It. Center of Welf, State Lea         C. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE. REPORT. OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Vertex of Intern       Abandonnen         Subsequent Report       Progge State         Subsequent Report       Progge State         Subsequent Report       Progge State         It Describe Proposed or Completed Operations (Charry use all perturben details, and give perturent date, including estimated date of stating and progened work. If well is directionally of any and all perturben details and give perturent 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 @4/36' set second plug from 1160'-1060', 42 sxs class "C" w/2% CaCl. jdC 4 hrs. tag top of 3rd plug 2584' pump surf. plug @60' w/17' sxs. class "C" w/2% CaCl. jdC 4 hrs.         14 Thereby Ferrufy fast die foregoing is une and correct         Signed       Tride Production Assistant       Dre _2-17-93         (The Production Assistant       Dre _2-17-93         (The Sections of Regents). If any:       Tride Production Assistant       Dre _2-17-93         (The Sectin figure for federary dive foregoing is une	•		9. API Well No.
C. 660' FNL & 1980' FWL Sec. 8, 1228, R33E  CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF SUBMISSION  Subsequent Report Final Abandoment Noice  Final Abandoment Noice Final A	P.O. Box 51810, Midland, T		10. Field and Pool, or Exploratory Area
C, 660' FNL & 1980' FWL Sec. 8, 1725, R33E       Lea         CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT. OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Nonce of linen       Anandonnesi         Subsequent Report       Change of Plans         Final Abandonnesi Noice       New Comprision         Nonce of linen       Cauge grapsic         Final Abandonnesi Noice       New Comprision         Nonce of Completed Operations (Clearly state all perture) details, and give perturent date. including estimated date of starting any proposed work. If well is directionally or gave subsurface locations and measured and negative matched for all markers and clearly more all dg?         13 Describe Proposed or Completed Operations (Clearly state all perture) details, and give perturent dates. including estimated date of starting any proposed work. If well is directionally or gave subsurface locations and measured and the depts for all markers and clear pertures to this work."         2-6-93 - Set first plug, btm @4911', 58 sixs class "C" w/2% CaCl. woc 4.25 hrs. tag plug of @4736' set second plug from 682'-500' w/42 sixs class "C" w/2% CaCl. widC 4 hrs. tag top of 3rd plug 3584' pump surf. plug @60' w/17' sixs. class "C"         14 Thereby kently fait the foregoing is tok and correct       Trike Production Assistant per	4 Location of Well (Footage, Sec., T., R., M., or Survey	Description)	
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13. Describe Proposed or Completed Operations (Clearly state all pertnent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally agree subsurface locations and measured and true vertical depths for all markers and zones pertnent 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 160'-1060', 42 sxs class "C" w/2% CaCl. pump 3rd plug from 682'-500' w/42 sxs class "C" w/2% CaCl. w0C 4 hrs. tag top of 3rd plug @60' w/17' sxs. class "C" w/2% CaCl. w0C 4 hrs. tag top of 3rd plug @60' w/17' sxs. class "C" 14. Thereby Eentify fait the foregoing is true and correct signed	· ·	Casing Repair	Water Shut-Off
(Note: Report statul of multiple coeploses or and Left Completion of Reports and Left Completion Reports Reports and Left Completion Reports Reports and Left Completion Reports and Left Completion Reports Reports and Left Completion Reports Reports and Left Completion Reports	Final Abandonment Notice	Altering Casing	Conversion to Injection
Competion or Recompleted Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally of 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. Thereby Fertify fait the foregoing is true and correct signed  This spect for Federal of BY Adam Salamen Approved by Conduction Assistant Date		Other	
<ul> <li>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 of give subsurface locations and measured and true vertical depts for all markers and zones pertinent to this work.)*</li> <li>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 3584' pump surf. plug @60' w/17' sxs. class "C"</li> <li>14 Thereby keruly hat the foregoing is true and correct signed</li></ul>			(Note: Report results of multiple completion on Completion or Recompletion Report and Log for
Signed       Title       Production       Assistant       Date       2-17-93         (This space for Federal or, State office use)       (This space for Federal or, State office use)       Date       2/1/93         Approved by	woc 4.25 hrs. tag plug top @4736 set second plug fr pump 3rd plug from WOC 4 hrs. tag top of 3rd plu	' om 1160'-1060', 42 sxs class "C" w/2% 682'-500' w/42 sxs class "C" w/2% CaC g @584'	
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 states			
	Signed (This space for Federal of State office use) (This space for Federal of State office use) Aboroved by	ameh PETROLF. MENGINESR	2/./.

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	T STAT S D T NTROR	FURM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
(sure 1776)	AN MANA M NT	5. Lease Designation and Serial No.
		NM 70343
	<b>D REPORTS ON WELLS</b> or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
· · ·	PERMIT - " for such proposals	
		7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well Other		8. Well Name and No. DAGGER LAKE '8' NO. 2
2. Name of Operator MERIDIAN OIL INC.		9. API Well No.
3. Address and Telephone No. P.O. BOX 51810, Midland, TX	79710-1810 915-688-6943	30-025-32839
4. Location of Well (Footage, Sec., T., R., M., or Survey D		11. County or Parish, State LEA NM
	) TO INDICATE NATURE OF NOTICE, REPO	
12. CHECK APPROPRIATE BOA(S		
	TYPE OF ACT	
Notice of Intent	Abandonment	Change of Plans
X Subsequent Report	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice		Conversion to Injection
	Altering Casing	
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state a	I pertinent details, and give pertinent dates, including estimated date of	
1/17/95: SPUD. DRLD A 12 1/4" SXS 'C' + 2% CACL2 + .25 PPS C	tical depths for all markers and zones pertinent to this work.)* HOLE TO 622'. RAN 8 5/8" 28# CSG ELLOFLAKE. CIRC TO SURF. WOC 14.75	HRS.
1/27/95: WELL WAS DRY HOLE. SET 2ND CMT PLUG (50 SXS) @ 35 PLUG (16 SXS) @ 63'.	RECEIVED APPROVAL TO P & A. SET CM BO'. SET CMT PLUG (35 SXS) @ 661'.	T PLUG (50 SXS) @ 4969'. TAG PLUG @ 510
		د.
MERIDIAN OIL INC.		
	THE MATCH TO THE O	FFSCR III
	SUNDRY MOTICE TO THIS O	
	OF THE PEA OF THE ABO	
WELL AND STR	E WHA TSSUED THE PEA	APPROVACE. C
	Atr Adding 52 1005	mad, P.E.
14. I hereby certify that the foregoing is true and correct - Signed	DETTING REGULATORY ASSISTANT	<u>Data</u> 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.





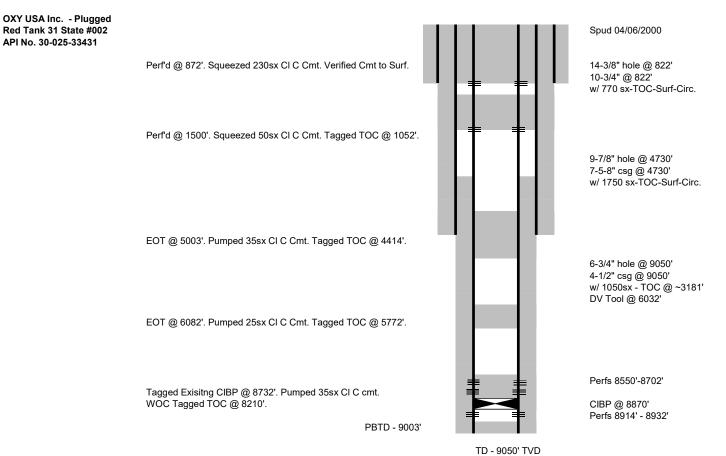
# **Reference 8**

Field: Dagger Lake (E40) Reservoir: Bone Spring

## Well: Bargain BQA Federal #1H

Location         Location           13307-FML         13307-FML           13307-FBL N 13307-FML         Perform 2000000000000000000000000000000000000					Reserve	oir: Bone Spring
13:07-FSL 4:1330*/FNL S2:376445L x1-103.568166 Scatcon: 222 Torwnship: 228 Range: 33E County: Lea, NM       Wellbore Diagram       Rendo: spin 2433 Perf at 215* County: Lea, NM         Elevations GL: 3556* DF: x8: 3683*       33E County: Lea, NM       State 422* Perf at 215* County: Lea, NM       Rendo: spin 2433 Perf at 215* County: Lea, NM         Elevations GL: 3556* DF: x8: 3683*       State 235* Perf at 215* County: Lea, NM       State 255* Size 125* County: Lea, NM         Elevations GL: 3556* DF: x8: 3683*       State 265* Perf at 215* County: Lea, NM       State 265* Perf at 215* County: Lea, NM         Elevations GL: 3556* DF: x8: 3683*       State 265* Perf at 215* County: Lea, NM       State 265* Perf at 215* County: Lea, NM         Elevations GL: 3566* DF: x8: 3683*       State 265* Perf at 215* County: Lea, NM       State 265* Perf at 215* County: Lea, NM         Elevations GL: 3568* Teg at 1456*       State 265* Perf at 215* County: Lea, NM       State 265* Perf at 215* County: Lea, NM         Elevations Feature: Torce BL: 3569* Teg at 4156*       State 265* Perf at 215* County: Lea, NM       State 265* Perf at 215* County: Lea, NM         Elevations Feature: Torce BL: 356* Perf at 215* County: Lea, NM       State 265* Perf at 216* Perf at 215* County: Lea, NM       State 265* Perf at 215*	Location		Actual		Well ID Info	
22.374430 Lat. +005.951665 Section: 22 Toruship: 22.8 Range: 338 County: Lea, NM       Isolate Surface Per at 215" County: Lea, NM       Isolate Surface Per at 215" County: Lea, NM       Isolate Surface Per at 215" County: Lea, NM       Isolate Surface Per at 215" Count from 1535" Size 13.386" Compl. Date: 51101996 Compl. Date: 51101996 Compl. Date: 51101996 Compl. Date: 51101996 Compl. Date: 51101996         Elevations GL: 3556" DF: KB: 3583"       Size 13.386" Count from 1535" Tag at 1284"       Size 13.386" Size 13.386" Weight 328" Size 6.387" TOC @ 516"         Elevations GL: 3556" DF: KB: 3583"       Intermediate Cog: Size 6.387" TOC @ 516"       Size 6.387" Weight 328" Size 6.387" TOC @ 516"         Rustier BOS Build Canyo Cherry Canyon Cherry Canyon S510" Bone Spring 8628"       Size 6.381 Size 6.387" Size 6.387" Size 6.387" Count from 5760" to 5516"         FORMATION TOPS Bone Spring 8628"       Size 6.381 Size 6.387" Size 6.387" Count from 5760" to 5516"         FORMATION TOPS Bone Spring 8628"       Size 6.381 Size 6.387" Count from 5760" to 5516"         FORMATION TOPS Bone Spring 8628"       Size 6.516" Count from 5760" to 5516"         FORMATION TOPS Bone Spring 9628"       Size 6.516" Count from 5760" to 5516"         FORMATION TOPS Bone Spring per at 215" Count from 8777" to 8470"         FORMATION TOPS Bone Spring per at 215" Count from 8777" to 8470"         FORMATION TOPS Bone Spring per at 215" Count from 5760" to 5516"         FORMATION TOPS Bone Spring per at 215" Count from 5760" to 5516"         FORMATION TOPS Bone Spring per at 215" Cou		v				BI4113
Section:         22           Townshp:         228           Range:         38E           County:         Lea, NM           Elevations:         355           GL:         356"           Weight         557           RB:         358"           PF:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         358"           VB:         368"           VB:         576"            VB:	1	<u></u>	Tenbore Diagram			
Tornship:         228           Barges:         33E           County:         Lea, NM           Elevations         State 427/1996           Curr:         State           GL:         3556'           DF:         State           Registrations         State           Curr:         State           Registrations         State           GL:         3556'           DF:         State           Registrations         State           State         State           Version         State           Version         State           Version         State           Version         State           Version         State           Version         State           Version         State           Version         State           Version         State           Version         State           State         State           Boos         State           Boos         State           Boos         State           Boos         State           Boos         State           Boos			=== 215' - 0' =====	Isolate Surface	1.5/1.6	
County:         Lea, NM         Surf. Crg:           Elevations         Surf. Crg:         Surf. Crg:           CL:         3556'         Set. @ 524'           KB:         3583         Set. @ 524'           Weight         54.56'         Set. @ 524'           Wight         54.56'         Set. @ 524'           Wight         54.56'         Weight         54.56'           Vers         TOC @ Surface         Set. @ 4906'           Intermediate Cog:         Size         17.14''           Chi::         Yes         TOC @ Surface           Intermediate Cog:         Size         8-58''           Weight         32#'         Isolate Base of Salt         Set. @ 4906'           Chi::         Yes         TOC @ Surface         Set. # 4906'           Chi::         Size         17.14''         Size:         17.14''           Isolate Base of Salt         Set. @ 4906'         Set: # 14.14''         Set: # 14.14''           Chi::         Yes         Isolate Base of Salt         Set: @ 4906'           Fueller         Solate Brushy Canyon         Cmt from 67.10' to 6460''         Set @ 4906''           Bone Spring         8628'         Set @ 11'''''''         Set @ 11''''''''''''''						
County:         Lea, NM         Surf. Crip:           Elevations         Surf. Crip:         Surf. Crip:           QL:         3556'         Set:         02:           KB:         3583         Set:         02:         Set:         02:           KB:         3583         Set:         02:         Set:         02:           KB:         3583         Set:         02:         Set:         02:           VES         Set:         02:         Virt:         17:14"           Con::         Yes         TOC @         Surface           Intermediate Csp:         Size         6:-68"           Weight         32#         Isolate Base of Salt         Set: @         406"           Cont from 4567'         Hoe Size:         14:14"         Chr::         Yes           Isolate Base of Salt         Set:         14:14"         Chr::         Yes           Isolate Dail, 9:56" Shoe         TOC @         Surface         Chr::         Yes           Isolate Dail, 9:56" Shoe         TOC @         Surface         Chr::         Yes           Bell Canyon         5:090         Solate Brushy Canyon         Chr::         Yes           Chery Qeas' <td< td=""><td></td><td></td><td>001' to 452'</td><td></td><td></td><td></td></td<>			001' to 452'			
Elevations         Surf. Corr.; GL: 3566'         Size 13.38' Tag at 1284'         Size 13.38' Weight 54.58' Weight 54.58' Weight 54.58' Weight 34' Set 202           H28 Concentration >100 PPM7 YES         Intermediate Corr. State 9.58' Weight 32#         Cont from 1537' Weight 32#           H28 Concentration >100 PPM7 YES         Size 9.58' Weight 32#           H28 Concentration >100 PPM7 YES         Size 9.58' Weight 32#           Intermediate Corr. YES         Size 0.531' Weight 32#           Intermediate Corr. Weight 32#         Size 0.531' Weight 32#           Isolate Base of Salt Set @ 4906' Cmt from 4567' Weight 32#         Size 114.14' Corr. Yes           Isolate Base of Salt Set @ 4567' Bail Canyon Solog Cont from 5700' to 5516'         Size 114.14' Corr. Yes           Isolate Cherry Canyon Cmt from 5700' to 5516'         Size 114.14' Corr. Yes           Isolate Brushy Canyon Cmt from 5700 to 5516'         Size 114.14' Corr. Yes           Solate Brushy Canyon Cmt from 8710' to 6460'         Size 114' Weight 14' Corr. Yes           Solate Brushy Canyon Cmt from 8787' to 8470'         Size 5517'' Weight 14'' Corr. Yes           TOC @ 9083' Set 300sx cmt pluf # 9503-8750' (tag)         Bone Spring peri in t/ 9949-1494'' Production Csig: Size 55172'' Weight 177 Weight 1075-9624' (tag)           PBTD 9083'         Size 5112'' Yes					Compi. Date.	5/10/1990
Elevations         Cont from 1535'         Size 13.36''           DF:         3555''         Set: @ 524'           Weight         54.5#         Set: @ 524'           Will         7005 @ 524'         Weight           H25 Concentration >100 PPM7         Set: @ 524'         Weight           H25 Concentration >100 PPM7         Set: @ 524'         Weight           H25 Concentration >100 PPM7         Set: @ 56''         Set: @ 56''           Vies         8-56''         Weight         328           Intermediate Cost:         Set: @ 4906'         Set: @ 4906'           Cont from 4567'         Weight         328           Intermediate Cost:         Set: @ 4906'         Set: @ 4906'           Cont from 509' to 4840'         Isolate Base of Sait         Set: @ 700 @           Boot Spring         991'         Solate Brushy Canyon         Cric: Yes           Cont from 5780' to 5516'         Isolate Brushy Canyon         Crit: from 6710' to 6460'           Bone Spring         8628'         Set: @ 512''         Set: @ 512''           Set: 200x cmt plug ff 9503-8750' (lag)         Bone Spring perf int ff 9949-14940'         Production Csg: Set: Set: 200x cmt plug ff 9503-8750' (lag)           TOC @ 9624'         Set: 200x cmt pluf ff 10075-9624' (lag)         Set @ 117'	County: Lea, NM		=== lagged =====	Isolate Rustler		
GL:         3556'           DP:         Set:         624'           Set:         5333'           H25 Concentration >100 PPM?           VES         Size:         8-5/8''           Weight         5.10'''         Size:         8-5/8'''           Weight         322         Size:         8-5/8'''           Weight         322         Size:         8-5/8'''           Weight         322         Size:         8-5/8'''           Weight         322         Size:         8-5/8'''           Weight         322         Size:         8-5/8'''           Size:         8-5/8'''         Weight         322           Size:         8-5/8'''         Weight         322           Size:         8-5/8'''         Weight         322           Boas         5-10'''         Weight         322           Size:         8-5/8''''         Weight         322           Boas         991''         Size:         Size:         Size:           Boas         991''         Size:         Size:         Size:           Boas         991'''         Size:         Size:         Size:           Size:					Surf. Csg:	
DF:         Set:         0.624           H28 Concentration >100 PPM7         FORMATION TOPS         Sufface           Intermediate Cog:         Size         B-5/8*           Size         8-5/8*         Weight         32#           Isolate Base of Salt         Set:         4406         Size:         14.14*           Circ:         Yes         Size         8-5/8*         Weight         32#           Isolate Base of Salt         Set:         4406         Crc:         Yes           Isolate Base of Salt         Set:         4406         Crc:         Yes           Isolate Base of Salt         Set:         14.14*         Circ:         Yes           Bio         Satis         Set:         14.14*         Circ:         Yes           Isolate Brushy Canyon         Cmt from 576'0 to 5516*         Set:         Set:         Set:         Set:           Satis         Set:         Yes         Set:         S	Elevations			Cmt from 1535'	Size	13-3/8"
KB:         3583'           H2S Concentration >100 PPM?           VES           TOC @ Surface           Intermediate Csg:           Size         8-58''           Weight         328'           Isolate Base of Salt         Set @ 4906'           Cm:         Yes           Isolate Base of Salt         Set @ 4906'           Cmt from 4567'         With:           Isolate Ball, 8-56'' Shoe         TOC @ Surface           Cmt from 590' to 4840''         Isolate Cherry Canyon           Set 4567'         Weight           Build Chryon         576'           Build Chryon         576'           Build Chryon         576'           State Ball, 8-56'' Shoe         TOC @ Surface           Cmt from 576' to 5516'         Isolate Ball, 8-56'' Shoe           Surface         Cmt from 6710' to 6460'           Build Chryon         5712'' RBP set @ 8814'           COC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           Upgrade cement to existing RBP         Tor           Cmt from 8787' to 8470'         Size           Size         5-12''           Weight         777''           Size         517'TVD, 14950' PBTD MD, 15010'TD MD	GL: 3556'			Tag at 1284'	Weight	54.5#
Hole Size:         17.14" Crc:         Yes           TOC @ Surface         Surface           Intermetiate Csg: Size         Surface           Size         8-50" Weight         324           Isolate Base of Salt         Set @ 4900" Crc:         Yes           ToC @ Surface         Surface           Weight         324           Isolate Base of Salt         Set @ 4900" Crc:           ToC @ Surface         Crc:           Weight         324           Isolate Base of Salt         Set @ 4900" Crc:           Del Canyon         590"           Deng Canyon         Crc:           Cre:         Yes           Bell Canyon         5090"           Cherry Canyon         6710"           Bell Canyon         5090"           Cherry Canyon         6710"           Bone Spring         8628"           S-112" RBP set @ 8814'         Upgrade cement to existing RBP Crmt from 8787" to 8470"           TOC @ 9083'         9517 TVD, 14969" PBTD MD, 15010" TD MD           Deme Spring perf int 1/ 9949-14940'         Production Cag: Size           State 200sx cmt pluf 1/ 10075-9624' (tag)         Size           PBTD: : 9083'         Gisti TTMD	DF:				Set: @	624'
Hole Size:         17.14"           H2S Concentration >100 PPM?         Cric:         Yes           TOC @ Surface         Surface           Isolate Base of Salt         Set @ 4906'           Crit from 4567'         With:         1850ast           Size         Set @ 4906'           Crit from 4567'         With:         1850ast           Size:         14.14"         Crit from 4567'           Weight         32#         Isolate Base of Salt         Set @ 4906'           Crit from 4567'         With:         1850ast         Set @ 4906'           Crit from 4567'         With:         1850ast         Crit from 5760' to 5516'           Crit from 5760' to 5516'         Surface         Crit from 5760' to 5516'         Surface           FortWartion TOPS         Selate Brushy Canyon         Crit from 5780' to 6460'         Surface           Cherry Canyon 50766'         Surface         Upgrade cement to existing RBP         Crit from 8787' to 8470'           S-112" RBP set @ 8814'         KoP @ 9083''         Sel17" TVD, 14969' PBTD MD, 15010' TD MD           Demos Spring         Bone Spring perf int 1/ 9949-14940'         Production Cag:           Size         5-112"         Size         5-112''           Vieght         1774'' <td>KB: 3583'</td> <td></td> <td></td> <td></td> <td>With:</td> <td>700sx</td>	KB: 3583'				With:	700sx
H2S Concentration >100 PPM? YES         Circ: Yes TOC @ Surface           Intermediate Csg: Size & 5-58' Weight 32# Height 32# Upgrate Base of Salt Set: @ 400° Cmt from 4567' Hole Size: 14-14' Circ: Yes Isolate Bell, 8-5/8' Shoe Cmt from 509' to 4840' Isolate Bell, 8-5/8' Shoe Cmt from 509' to 4840' Isolate Cherry Canyon Cmt from 570' to 5510' Isolate Brushy Canyon Cmt from 5710' to 5510'           Rustler 901' BOS Den Spring         901' Bone Spring           S-1/2'' RBP set @ 8814'         Viggrade cement to existing RBP Cmt from 878'' to 8470'           TOC @ 9083' Set 200sx cmt pluf ff 10075-9624' (tag)         Bone Spring perf int ff 9949-14940' Production Cxg: Size 5-17'' Neight 7-778' Set 200sx cmt pluf ff 10075-9624' (tag)           PBTD: 9083'         Circ 7-778' Circ					Hole Size <sup>.</sup>	17-1/4"
FORMATION TOPS         State						
FORMATION TOPS         Isolate Base of Sait         Set: @ 4.906'           Weight         3.24'         Ywith:         1850ax           Isolate Base of Sait         Set: @ 4.906'         Cmi from 4567'         With:         1850ax           Cmi from 4567'         Hole Size:         14-14'         Circ:         Yes           Isolate Ball, 8-568'' Shoe         TOC @ Surface         Circ:         Yes           Boos         5-102''         RBP         Circ:         Yes           Boos Spring         8628'         Isolate Brushy Canyon         Cmt from 5760' to 5516'           Set 200x cmp d 6710'         Isolate Brushy Canyon         Cmt from 6710' to 6460'         Upgrade cement to existing RBP           Cmt from 8787' to 8470'         Set 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int ff 9449-14940'           TOC @ 9624'         Set 200sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int ff 9449-14940'           Production Csg:         Size 1205x cmt plug ff 10075-9624' (tag)         Size 1205x cmt plug ff 10075-9624' (tag)           PITD:         9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           Weight 1400'         Size 1205x cmt plug ff 10075-9624' (tag)         Size 1205x cmt plug ff 10075-9624' (tag)						
Size         8-5/8"           Weight         32#           Isolate Base of Sait         Set (@ 4905')           Cmt from 4567'         With:           Tag at 4156'         Hole Size:           14.14"         Circ:           Circ:         Yes           Isolate Ball, 8-5/8" Shoe         TOC @           Surface         Cmt from 5090' to 4840'           Isolate Cherry Canyon         Cmt from 5760' to 5516'           Bell Canyon         5766'           Ball Canyon         6710'           Bone Spring         8628'           State Ball (100000000000000000000000000000000000	YES				100 @	Surface
Size         8-5/8"           Weight         32#           Isolate Base of Sait         Set (@ 4905')           Cmt from 4567'         With:           Tag at 4156'         Hole Size:           14.14"         Circ:           Circ:         Yes           Isolate Ball, 8-5/8" Shoe         TOC @ Surface           Cmt from 5090' to 4840'         Isolate Cherry Canyon           Circ:         Yes           Ball Canyon         5706'           Ball Canyon         6710'           Bone Spring         8628'           State Ball (Introm 5760' to 5516'           Upgrade cement to existing RBP           Cmt from 8787' to 8470'           Bone Spring         8628'           State 3083'         Set (Introm 8787' to 8470')           Set 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int (J 9494-14940')           Production Csg:         Size           Size 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int (J 9494-14940')           Production Csg:         Size 3/12"           Set 200sx cmt pluf ff 10075-9624' (tag)         Set (Introm 5760')           PBTD:         9983'						
Size         8-5/8"           Weight         32#           Isolate Base of Sait         Set (@ 4905')           Cmt from 4567'         With:           Tag at 4156'         Hole Size:           14.14"         Circ:           Circ:         Yes           Isolate Ball, 8-5/8" Shoe         TOC @ Surface           Cmt from 5090' to 4840'         Isolate Cherry Canyon           Circ:         Yes           Ball Canyon         5706'           Ball Canyon         6710'           Bone Spring         8628'           State Ball (Introm 5760' to 5516'           Upgrade cement to existing RBP           Cmt from 8787' to 8470'           Bone Spring         8628'           State 3083'         Set (Introm 8787' to 8470')           Set 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int (J 9494-14940')           Production Csg:         Size           Size 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int (J 9494-14940')           Production Csg:         Size 3/12"           Set 200sx cmt pluf ff 10075-9624' (tag)         Set (Introm 5760')           PBTD:         9983'						
FORMATION TOPS         Weight         32#           Isolate Base of Salt         Set: @ 4906'           Isolate Base of Salt         Cmt from 4567'         With: 1850sx           Tag at 4156'         Hole Size:         14.14"           Circ:         Yes           Isolate Bell, 8-5/8" Shoe         TOC @ Surface           Cmt from 5090' to 4840'         Isolate Cherry Canyon           Cmt from 5760' to 5516'         Isolate Brushy Canyon           Cmt from 6710' to 6460'         Isolate Brushy Canyon           Beil Canyon         Cmt from 6710' to 6460'           Bone Spring         86628'           5-1/2" RBP set @ 8814'         KOP @ 9083'           5-1/2" RBP set @ 8814'         Bone Spring perf Int // 9949-14940'           TOC @ 9624'         Set @ 517' TVD, 14950' PBTD MD, 15010' TD MD           Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf Int f/ 9949-14940'           Forduction Csg:         Size @ 517' TVD, 14950' PBTD MD, 15010' TD MD           Upgrade cement plug f/ 9503-8750' (tag)         Bone Spring perf Int f/ 9949-14940'           Forduction Csg:         Size @ 517' TVD, 14950' PBTD MD, 15010' TD MD           Upgrade cement plug f/ 9503-8750' (tag)         Bone Spring perf Int f/ 9949-14940'           Forduction Csg:         Size @ 517' TVD, 14950' PBTD MD, 15010' TD MD </td <td></td> <td></td> <td></td> <td></td> <td>Intermediate (</td> <td>Csg:</td>					Intermediate (	Csg:
Isolate Base of Salt         Set:@         4906'           Cmt from 4567'         With:         1850x           Tag at 4156'         With:         1850x           Tag at 4156'         With:         1850x           Tag at 4156'         With:         1850x           Isolate Bell, 8-5/8'' Shoe         TOC @         Surface           Cmt from 5090' to 4840'         Isolate Bell, 8-5/8''Shoe         TOC @           Bos         4467'         Isolate Brushy Canyon         Cmt from 5760' to 5516'           Bell Canyon         5090'         Cmt from 6710' to 6460'         Isolate Brushy Canyon           Cmt from 6710' to 6460'         Upgrade cement to existing RBP         Cmt from 8787' to 8470'           Sent System         9617' TVD, 14950' PBTD MD, 15010' TD MD         Immunerative           TOC @ 9083'         Set @         517' TVD, 14950' PBTD MD, 15010' TD MD           Set @ 0517' TVD, 14950' PBTD MD, 15010' TD MD         Immunerative         Immunerative           TOC @ 9083'         Set @         Set @         517'' TVP, 14950' PBTD MD, 15010' TD MD           Set 200sx cmt plug ff 9503-8750' (tag)         Enve         Production Csg:         Size @           Yest 200sx cmt pluf ff 10075-9624' (tag)         Enve         Fre         Set @           PBTD:					Size	8-5/8"
Isolate Base of Salt         Set:@         4906'           Cmt from 4567'         With:         1850x           Tag at 4156'         With:         1850x           Tag at 4156'         With:         1850x           Tag at 4156'         With:         1850x           Isolate Bell, 8-5/8'' Shoe         TOC @         Surface           Cmt from 5090' to 4840'         Isolate Bell, 8-5/8''Shoe         TOC @           Bos         4467'         Isolate Brushy Canyon         Cmt from 5760' to 5516'           Bell Canyon         5090'         Cmt from 6710' to 6460'         Isolate Brushy Canyon           Cmt from 6710' to 6460'         Upgrade cement to existing RBP         Cmt from 8787' to 8470'           Sent System         9617' TVD, 14950' PBTD MD, 15010' TD MD         Immunerative           TOC @ 9083'         Set @         517' TVD, 14950' PBTD MD, 15010' TD MD           Set @ 0517' TVD, 14950' PBTD MD, 15010' TD MD         Immunerative         Immunerative           TOC @ 9083'         Set @         Set @         517'' TVP, 14950' PBTD MD, 15010' TD MD           Set 200sx cmt plug ff 9503-8750' (tag)         Enve         Production Csg:         Size @           Yest 200sx cmt pluf ff 10075-9624' (tag)         Enve         Fre         Set @           PBTD:						
FORMATION TOPS         Surface           Rustler         991'           BOS         4567'           Buil Canyon         5516'           Selate Bell, 8-5/8'' Shoe         TOC @           Surface         Cmt from 590' to 4840'           Isolate Cherry Canyon         Cmt from 5760' to 5516'           Buil Canyon         5516'           Buil Canyon         Cmt from 6710' to 6460'           Bone Spring         8628'           5-1/2'' RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2'' RBP set @ 8814'         KOP @ 9083''           TOC @ 9083''         9517' TVD, 14950' PBTD MD, 15010' TD MD           Upgrade cement plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Forduction Csg:         Size @ 9517' TVD, 14950' PBTD MD, 15010' TD MD           UC @ 9083''         9517' TVD, 14950' PBTD MD, 15010' TD MD           UD @ 9083''         9517' TVD, 14950' PBTD MD, 15010' TD MD           UD @ 9083''         Bone Spring perf int f/ 9949-14940'           Forduction Csg:         Size @ 9517' TVD, 14950' PBTD MD, 15010' TD MD           UD @ 9083''         Set @ 9517' TVD, 14950' PBTD MD, 15010' TD MD           Set @ 9083''         Set @ 9517' TVD, 14950' PBTD MD, 15010' TD MD           VD @ 9083''				Isolate Base of Salt	-	
Tag at 4156°         Hole Size:         14-1/4°           Circ:         Yes           isolate Bell, 8-5/8° Shoe         TOC @         Surface           Tustler         0         6517         Solate Cherry Canyon           Cmt from 5760' to 5516'         Isolate Brushy Canyon         Cmt from 5760' to 5516'           Bell Canyon         5766'         Brushy Canyon         Cmt from 6710' to 6460'           Brushy Canyog         6710'         Boes Spring         8628'           S-1/2° RBP set @ 8814'         VOP @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           Hole Size:         177#           Set 340sx cmt plug ff 9503-8750' (tag)         Bone Spring perf int ff 9949-14940'           TOC @ 9624'         Set @ 9617' TVD, 14950' PBTD MD, 15010' TD MD           Set 200sx cmt pluf ff 10075-9624' (tag)         Bone Spring perf int ff 9949-14940'           Production Csg:         Size @ 14995' MD           Set 200sx cmt pluf ff 10075-9624' (tag)         Yes           PBTD: 9083'         Circ: 'Yes					-	
FORMATION TOPS         Sufface           Rustler         991'           BOS         4567'           Bell Canyon         Cmt from 5090' to 4840'           Isolate Bell, 8-5/8" Shoe         TOC @           Sufface         Cmt from 5090' to 4840'           Isolate Cherry Canyon         Cmt from 5760' to 5516'           Bull Canyon         Solate Brushy Canyon           Cherry Canyon         Cmt from 6710' to 6460'           Bone Spring         8628'           S-1/2" RBP set @ 8814'         Upgrade cement to existing RBP           Cmt from 8787' to 8470'         Cmt from 8787' to 8470'           S-1/2" RBP set @ 8814'         KOP @ 9083'           Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Veight         1774'           Set @ 9624'         Set @ 9617 TVD, With:           Yeight         178'           Set @ 9624'         With:           PBTD: 9083'         Cher: 'Yeight						
FORMATION TOPS         Isolate Bell, 8-5/8" Shoe         TOC @         Surface           Rustier         991'         Bos         4567'         Isolate Cherry Canyon         Cmt from 5760' to 5516'           Bell Canyon         5090'         Cherry Canyon         Cmt from 6710' to 6460'         Isolate Brushy Canyon           Cherry Canyor         6710'         Bos         6460'         Upgrade cement to existing RBP           Cmt from 8787' to 8470'         Upgrade cement to existing RBP         Cmt from 8787' to 8470'         Isolate Strapping           5-1/2" RBP set @ 8814'         KOP @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD         Isolate Spring perf int // 9949-14940'           TOC @ 9083'         Set 340sx cmt plug t/ 9503-8750' (tag)         Bone Spring perf int // 9949-14940'         Production Csg:           TOC @ 9624'         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD           Production Csg:         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD           Production Csg:         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD           Production Csg:         TYP         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD         Set @ 0.0517' TVD, 14950' PBTD MD, 15010' TD MD           Production Csg:				1 ag at 4156'		
FORMATION TOPS           Rustler         991'           BOS         4567'           Bell Canyon         5090' to 4840'           Isolate Cherry Canyon         Cmt from 5760' to 5516'           Brushy Canyon         6710'           Bone Spring         8628'           S-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           S-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9024'         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD           Set (@ 14995' MD						
FORMATION TOPS           Rustler         991'           BOS         4567'           BOS         4567'           BII Canyor         5766'           Brushy Canyor         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           FOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           HUMBURG         HUMBURG           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           HUMBURG         HUMBURG           TOC @ 9083'         Set 340sx cmt plug f/ 9503-8750' (tag)           TOC @ 9624'         Set @ 11990'           PBTD: 9083'         Grift 10075-9624' (tag)           PBTD: 9083'         Grift 10075-9624' (tag)				Isolate Bell, 8-5/8" Shoe	• TOC @	Surface
FORMATION TOPS           Rustler         991'           BOS         4567'           Bell Canyon         5090'           Cherry Canyor         5760'           Brushy Canyon         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         KOP @ 9083'           5-1/2" RBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Size           5-1/2" KBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size 140sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size 005x cmt pluf f/ 10075-9624' (tag)         Bone Spring perf int f/ 949-14940'           PBTD: 9083'         With: 1005 srs           Hole Size:         77/8''				Cmt from 5090' to 4840'		
FORMATION TOPS           Rustler         991'           BOS         4567'           Bell Canyon         5090'           Cherry Canyor         5760'           Brushy Canyon         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         KOP @ 9083'           5-1/2" RBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Size           5-1/2" KBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size 140sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size 005x cmt pluf f/ 10075-9624' (tag)         Bone Spring perf int f/ 949-14940'           PBTD: 9083'         With: 1005 srs           Hole Size:         77/8''						
FORMATION TOPS           Rustler         991'           BOS         4567'           Bell Canyon         5090'           Cherry Canyor         5766'           Brushy Canyon         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         KOP @ 9083'           5-1/2" RBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Size           5-1/2" KBP set @ 8814'         Bone Spring perf int f/ 9949-14940'           TOC @ 9083'         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size 100sx cmt pluf f/ 10075-9624' (tag)         Set @ 177 TVD, Hole Size:           PBTD: 9083'         983'				Isolate Cherry Canvon		
FORMATION TOPS           Rustler         991'           BOS         4567'           Boll Canyon         5090'           Cherry Canyor         5766'           Brushy Canyo         6710'           Bone Spring         8628'           Solate Brushy Canyon         Cmt from 6710' to 6460'           Upgrade cement to existing RBP         Upgrade cement to existing RBP           Cmt from 8787' to 8470'         Event from 8787' to 8470'           Solate Brushy Canyon         Cmt from 8787' to 8470'           FOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           Upgrade cement to existing RBP         Event from 8787' to 8470'           TOC @ 9083'         Set 340sx cmt plug f/ 9503-8750' (tag)           Bone Spring perf int f/ 9949-14940'         Production Csg:           Size         5-1/2"           Weight         17/#           Set (@ 9624'         Set (@ 14995' MD)           Set (@ 9624'         Set (@ 14995' MD)           Set (@ 9624'         Hole Size:           PBTD: 9083'         Circ: Yes						
Rustler         991'           BOS         4567'           Bell Canyon         5090'           Cherry Canyon         5766'           Brushy Canyon         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         KOP @ 9083'           9517' TVD, 14950' PBTD MD, 15010' TD MD           Hole Spring perf int f/ 9949-14940'           Production Csg:           Size         5-1/2"           Veight         177           Set 200sx cmt pluf f/ 10075-9624' (tag)         Bone Spring perf int f/ 9949-14940'           PBTD: 9083'         Orre: Yes				Cmt from 5760 to 5516		
BOS         4567' Bell Canyon         Isolate Brushy Canyon           Cherry Canyor         5766' Brushy Canyon         Cmt from 6710' to 6460'           Bone Spring         8628'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         Vpgrade cement to existing RBP Cmt from 8787' to 8470'           TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           Bone Spring Perf int f/ 9949-14940'         Production Csg:           Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           TOC @ 9624' Set 200sx cmt pluf f/ 10075-9624' (tag)         Production Csg:           PBTD: 9083'         017' TVD						
Bell Canyon         5090'           Cherry Canyor         5766'           Brushy Canyor         6710'           Bone Spring         8628'           5-1/2" RBP set @ 8814'         Upgrade cement to existing RBP Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'         Vegrade cement to existing RBP Cmt from 8787' to 8470'           TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size 9517' TVD, 14950' PBTD MD, 15010' TD MD           TOC @ 9084' Set 200sx cmt pluf f/ 10075-9624' (tag)         Production Csg:           PBTD: 9083'         Size 09517' TVD						
Cherry Canyoi         5766'           Brushy Canyoi         6710'           Bone Spring         8628'           Upgrade cement to existing RBP           Cmt from 8787' to 8470'           5-1/2" RBP set @ 8814'           VOC @ 9083'           Set 340sx cmt plug f/ 9503-8750' (tag)           Bone Spring perf int f/ 9949-14940'           Production Csg:           Size           5-1/2" Weight           170C @ 9084'           Set 200sx cmt pluf f/ 10075-9624' (tag)           PBTD: 9083'	BOS 4567'					
Brushy Canyon       6710'         Bone Spring       8628'         Upgrade cement to existing RBP Cmt from 8787' to 8470'         5-1/2" RBP set @ 8814'       Vpgrade cement to existing RBP Cmt from 8787' to 8470'         TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)       Bone Spring perf int f/ 9949-14940'         Production Csg: Size 9517' TVD, 14950' PBTD MD, 15010' TD MD UHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUH	Bell Canyon 5090'			Isolate Brushy Canyon		
Brushy Canyon       6710'         Bone Spring       8628'         Upgrade cement to existing RBP Cmt from 8787' to 8470'         5-1/2" RBP set @ 8814'       Vpgrade cement to existing RBP Cmt from 8787' to 8470'         TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)       Bone Spring perf int f/ 9949-14940'         Production Csg: Size 9517' TVD, 14950' PBTD MD, 15010' TD MD UHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUH	Cherry Canyor 5766'			Cmt from 6710' to 6460'		
Bone Spring       8628'         Upgrade cement to existing RBP Cmt from 8787' to 8470'         5-1/2" RBP set @ 8814'         KOP @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD         Hole Spring perf int f/ 9949-14940'         Production Csg:         Size         5-1/2" Weight         TOC @ 9083'         Bone Spring perf int f/ 9949-14940'         Production Csg:         Size         Set 340sx cmt plug f/ 9503-8750' (tag)         Pode24'         Set @ 9624'         Set @ 9624'         Set @ 9633'         PBTD: 9083'						
5-1/2" RBP set @ 8814'       Upgrade cement to existing RBP Cmt from 8787' to 8470'         5-1/2" RBP set @ 8814'       KOP @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD         Image: state s						
5-1/2" RBP set @ 8814'       Cmt from 8787' to 8470'         KOP @ 9083'       9517' TVD, 14950' PBTD MD, 15010' TD MD         Hull Hull Hull Hull Hull Hull Hull Hull	Bolle Spillig 0020					
5-1/2" RBP set @ 8814'       Cmt from 8787' to 8470'         KOP @ 9083'       9517' TVD, 14950' PBTD MD, 15010' TD MD         Hull Hull Hull Hull Hull Hull Hull Hull						
5-1/2" RBP set @ 8814'       Cmt from 8787' to 8470'         KOP @ 9083'       9517' TVD, 14950' PBTD MD, 15010' TD MD         Hull Hull Hull Hull Hull Hull Hull Hull						
5-1/2" RBP set @ 8814'       Cmt from 8787' to 8470'         KOP @ 9083'       9517' TVD, 14950' PBTD MD, 15010' TD MD         Hulling Hu						
5-1/2" RBP set @ 8814'         FOC @ 9083'         Set 340sx cmt plug f/ 9503-8750' (tag)         FOC @ 9624'         Set 200sx cmt pluf f/ 10075-9624' (tag)         PBTD: <u>9083'</u> PBTD: <u>9083'</u>				Upgrade cement to exist	ing RBP	
TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				Cmt from 8787' to 8470'		
TOC @ 9083'       9517' TVD, 14950' PBTD MD, 15010' TD MD         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
TOC @ 9083'         9517' TVD, 14950' PBTD MD, 15010' TD MD           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	5-1/2" RBP set @ 88	314'	$\sim$			
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						/
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes						
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg: Size         5-1/2"           Veight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'           Circ:         Yes			KO			5010' TO MO
TOC @ 9083' Set 340sx cmt plug f/ 9503-8750' (tag)       Bone Spring perf int f/ 9949-14940'         Production Csg: Size       5-1/2"         Veight       17#         Set 200sx cmt pluf f/ 10075-9624' (tag)       9517' TVD         PBTD:       9083'         OBTD:       9083'				-		
Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size         5-1/2"           Weight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'			<u> </u>			
Set 340sx cmt plug f/ 9503-8750' (tag)         Bone Spring perf int f/ 9949-14940'           Production Csg:         Size           Size         5-1/2"           Weight         17#           Set 200sx cmt pluf f/ 10075-9624' (tag)         9517' TVD           PBTD:         9083'	TOC @ 9083'					N
TOC @ 9624'     Set @     5-1/2"       Set 200sx cmt pluf f/ 10075-9624' (tag)     With:     1905 sxs       PBTD:     9083'     Circ:     Yes		a)		Bone Spring perf int f/ 0	040-14040'	
Size         5-1/2"           Weight         17#           Set @         14995' MD           Set @         9517' TVD           Set 200sx cmt pluf f/ 10075-9624' (tag)         With:           PBTD:         9083'           Circ:         Yes	201 0-01 0111 pidg 1/ 2000-01 00 (la	9/		Done opining per int l/ s	J-J-1-J+U	
Size         5-1/2"           Weight         17#           Set @         14995' MD           Set @         9517' TVD           Set 200sx cmt pluf f/ 10075-9624' (tag)         With:           PBTD:         9083'           Circ:         Yes					Production Ca	su.
TOC @ 9624'         Set @         14995' MD           Set 200sx cmt pluf f/ 10075-9624' (tag)         With:         1905 sxs           PBTD:         9083'         Circ:         Yes						-
TOC @ 9624'         Set @ 14995' MD           Set 200sx cmt pluf f/ 10075-9624' (tag)         With: 1905 sxs           PBTD: 9083'         Circ: Yes					-	
TOC @ 9624'         Set @         9517' TVD           Set 200sx cmt pluf f/ 10075-9624' (tag)         With:         1905 sxs           PBTD:         9083'         Circ:         Yes					• -	
Set 200sx cmt pluf f/ 10075-9624' (tag)         With:         1905 sxs           PBTD:         9083'         Circ:         Yes	TOC @ 9624'				Υ.	
Hole Size:         7-7/8"           PBTD:         9083'         Circ:         Yes	-	(De				
PBTD: <u>9083'</u> Circ: <u>Yes</u>	2000X 0111 plui 1/ 10070-0024 (la	าช/			-	
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	10. 10000	L.				Canade

# **Reference 9**



Released to Imaging: 9/19/2024 12:13:21PPM

Form 3160-5 (June 1990)	UNITED S Department of Bureau of Lant	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.	
	SUNDRY NOTICES AND form for proposals to drill or Use "APPLICATION FOR PER	to deepen or reentry to a different rese	NM-65655 6 If Indian, Alloutee or Tribe Name rvolr.
	SUBMIT IN 1	RIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well [X] Oil Well Well	Other		8. Well Name and No.
	DLEUM CORPORATION	(505) 748-1471)	Cherwin AIW Federal #1 9. API Well No. 30. 0.25. 225/25
	th St., Artesia, NM 8		30 - 025 - 33 43 5 10 Field and Pool, or Exploratory Area
	age, Sec., T., R., M., or Survey Description 2310' FEL of Section	ny 12-T22S-R33E (Unit G, SWNE)	Wildcat Delaware 11. County or Parish, State Lea Co., NM
IZ. CHECK	APPROPRIATE BOX(s) TO	) INDICATE NATURE OF NOTICE, R	
ΤΥΡΕ ΟΙ	SUBMISSION	TYPE OF AC	
X Notice	of Intent	Abandonment	Change of Plans
X Subsec	quent Report	L Recompletion Plugging Back Casing Repair	New Construction     Non-Routine Fracturing     Water Shut-Off
Final :	Abandonment Notice	Altering Casing	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well
give subsurface to TD 9160 <sup>*</sup> . H	cutions and measured and true vertical depil Reached TD at 12:00 AM	ent details, and give periment dates, including estimated date on is for all markers and zones periment to this work )* I 6-5-96. Tim Bussell, Drilli Vince w/BLM-Hobbs to plug and	ing Foreman for Yates Petroleu
Plug #1: Pl	lug set at 9134' - 125	sacks Class "H" Neat cement	
Plug #2: Pl	lug set at 5267' - 75	sacks "C" Neat cement	÷ 
Plug #3: Pl	lug set from 1722-1622	2' - 50 sacks "C" cement	
Plug #4: Su	urface - 10 sacks "C"	Neat cement	f
	_	lation abandonment marker. F FINAL REPORT. Plugging compl	—
$\bigcirc$			
IA L berehv certify that a	he foregoing is true and correct		

Approved by (ORIG. SGD.) JOE G. LARA Title \_\_\_\_\_\_

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

Date	71.3/96	
	1.0	

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 32@audulent statements Released to Imaging: 9/19/2024 12:13:21/PM

## Received by OCD: 9/19/2024 11:42206PAM

# **Reference 11**

OXY USA Inc. - Plugged Red Tank 31 State #004 Spud 09/30/1996 API No. 30-025-33580 14-3/8" hole @ 820' 10-3/4" @ 820' w/ 780 sx-TOC-Surf-Circ. Perf'd @ 890' Sqzd 200sx CI C Cmt to surface. Verified. EOT @ 1900'. Pumped 25sx CI C Cmt. 9-7/8" hole @ 4770' 7-5-8" csg @ 4770' w/ 1150 sx-TOC-Surf-Circ. EOT @ 5050'. Pumped 40sx CI C Cmt. Tagged TOC @ 4461'. EOT @ 6338'. Pumped 50sx CI 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 CI H. Tagged TOC @ 7712'. Added 25sx CI C. Tagged TOC @ 7397'. Perfs 7820' - 7850' Perfs 8343'-8566' Pumped 25sx CI C on existing CIBP. Tagged TOC @ 8507'. CIBP @ 8900' Perfs 8942' - 8988' PBTD - 9052' TD - 9100' TVD

Received by OCD: 9/19/2024 114422062 Submit 3 Copies to Appropriate Energy District Office	M Refe State of New Mer inerals and Natural Res		v , -	Page 143 of 228
P.O. Box 1980, Hobbs, NM 88240	CONSERVATIO P.O. Box 208 anta Fe, New Mexico	8	WEIL API NO. 30-025-34175 5. Indicate Type of Lease STAT. 6. State Oil & Gas Lease No.	
	TO DRILL OR TO DEEPEN (	OR PLUG BACK TO A	7. Lease Name or Unit Agreen	nent Name
Type of Well:     On.     WELL	OTHER		Flint "6" State	
2. Name of Operator Pogo Producing Company			8. Well No. 1	
3. Address of Operator P. O. Box 10340, Midland, T	X 79702-7340		9. Pool name or Wildcat East Bilbrey Dela	ware
4. Well Location Unit Letter <u>E</u> : <u>2310</u> Feet F	rom The North	Line and 660	Feet From TheWe	st Line
Section 6 Towns	hip 22S Ran		MPM Lea	County
	10. Elevation (Show whether D 3640 ' GR	)F, RK3, RT, GR, etc.)		
II. Check Appropri NOTICE OF INTENTIO	ate Box to Indicate N N TO:		port, or Other Data EQUENT REPORT	OF:
		REMEDIAL WORK	ALTERING	
		COMMENCE DRILLING	OPNS. 🗌 PLUG AND	
ULL OR ALTER CASING		CASING TEST AND CEN		
THER:		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<sub>2</sub> @ 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	on above is true and complete to the best of my knowledge and be	iid. Sonion	Openations Engineer	2/3/08
SIGNATURE	Ma Ame ITTE	<u>Sentor</u>	Operations Engineer	_ DATE
TYPE OR PRINT NAME Barr	ett L. Smith		(915)685-8100	TELEPHONE NO.
(This space for State Use)	ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	3		- DATE
NPROVED BY JAN SOLUTIONS OF APPEDY ALL JAN				124

# **Reference 13**

#### Workover Proposal

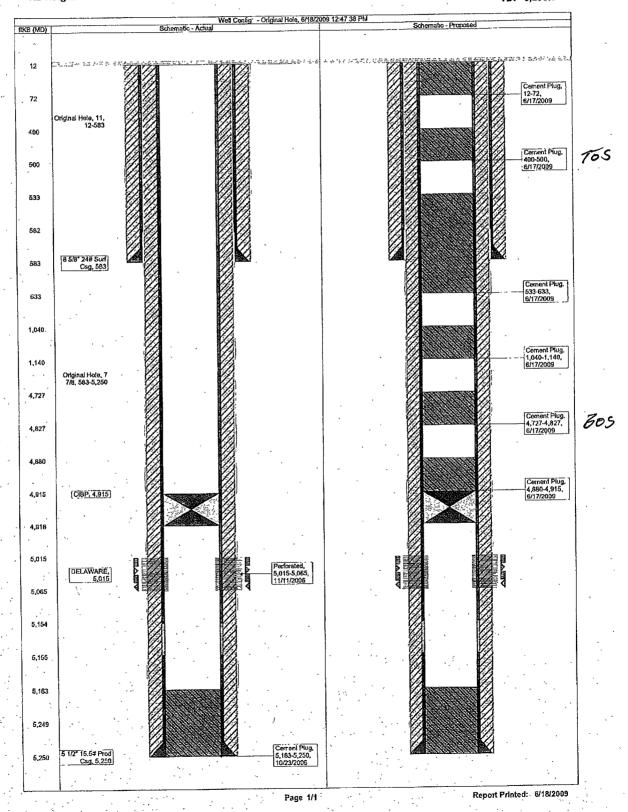
Chesapeake

LIVESTOCK FEDERAL 3-9

Field:Delaware Basin North Project - Sapphire ProspectCounty:LEAState:NEW MEXICOLocation:SEC 9, 22S-33E, 1980 FNL & 1980 FWLElevation:GL 3,617.00KB 3,629.00KB 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 Page 144 of 228

125



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Summer Copy to Appropriate District Office District I = (575) 393-6161	30 <b>Reference</b>	14		Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District 11 - (575) 748-1283			WELL API NO. 30-025-46699	
811 S. First St., Artesia, NM 88210 District III = (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	HOBBS OC JUL 0 9 2020	D	5. Indicate Type of Lea STATE	ase FEE
District IV - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	JUL 0 9 2020		6. State Oil & Gas Lea	se No.
SUNDRY NOTICES (DO NOT USE THIS FORM FOR PROPOSALS	TO DRILL OR TO DEEPEN OR PLU		7. Lease Name or Unit Merchant State Unit	Agreement Name
DIFFERENT RESERVOIR USE "APPLICATIO PROPOSALS.) 1. Type of Well: Oil Well Gas	Well 🗍 Other	IR SUCH	8. Well Number 604¥	
2. Name of Operator			9. OGRID Number	
Advance Ene	rgy Partners Hat Mesa		3724	17
3. Address of Operator 11490 Westheime	er Rd, Houston, TX 77077		10. Pool name or Wild	cat
4. Well Location				
Unit LetterC200	feet from the	Nline an	d 2570 fc	et from the
E line				
Section 35	Township 21S	Range 33E	NMPM	County LEA
	. Elevation (Show whether DR.			
12. Check Appr	opriate Box to Indicate N	ature of Notice,	Report or Other Data	1
			•	
NOTICE OF INTEI			SEQUENT REPOR	
		REMEDIAL WOR		ERING CASING
		COMMENCE DRI		X A DA
		CASING/CEMENT	ГОВ	

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.

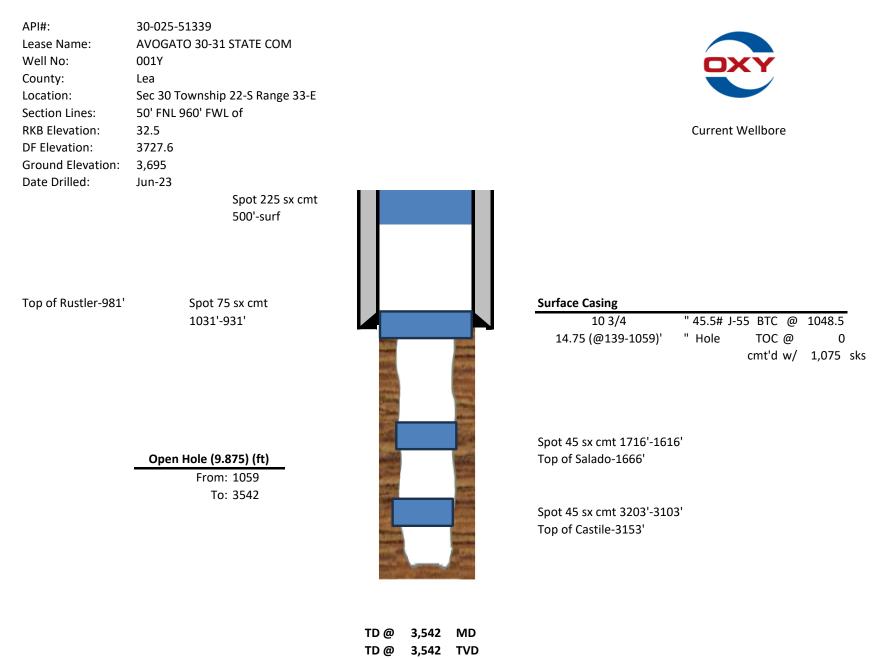
CLOSED-LOOP SYSTEM

OTHER

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.

	Cond	See Attached litions of Approval
Spud Date: 7/8/20	Rig Release Date:	312 IPPM
I hereby certify that the information above is true and con		nd belief.
SIGNATURE: Debbie Moughon E-mail address: dmou		DATE: 7/8/2020 PHONE 832-671-9665
For State Use Only APPROVED BY: Yew Fut Conditions of Approval (if app):	TITLE CO A	DATE 7-9-70 126

# **Reference 15**



# 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 <u>Chevron Exhibit B-1</u>. 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 reinjection 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. <u>Chevron Exhibit A</u> 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 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;
- 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];
- 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];
- 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 ExhibitA 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.

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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<sup>1</sup> 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).

<sup>&</sup>lt;sup>1</sup> 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.

I provided the law firm of Holland & Hart LLP a list of names and addresses of the 41. affected parties identified for purposes of providing notice. Notice was also published in the Hobbs Daily News.

Chevron Exhibit A, B-1 thru B-3 were prepared by me, compiled under my 42. 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

<u>09/04/2024</u> Date

# VICTOR TORREALBA

Senior Production Engineering Advisor

(832) 993-2	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	Expertise Experienc	in reservoir simulation of complex	erization and forecasting workflows a enhanced oil recovery processes nance deliverability with a focus on			
0		0	-O			
2024 - Present		2022 - 2023	2020 - 2021			
Senior PE Advisor Chevron MCBU		Reservoir Engineer Chevron MCBU	Reservoir Simulation Engineer Chevron CTC			
2019 - 2020		2017 - 2019	2015 - 2016			
Reservoir Engineer Chevron ETC		Postdoctoral Fellow KAUST	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

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# **Dagger Lake Wells**

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

Basin	Field	Development area	СТВ	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

#### 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 00	SOPOGO FED COM	Bone Spring		N	1id-Continent	
	DL 10 15 OGOPOGO FED COM 422H							
	Area		Surface UWI		Well Ty			
	Delaware Basin		3002549906		Oil Pro	lucer		
	Latitude 32.404482			Longitude -103.555766				
	North/South Distance (ft)		North/South Reference		nce (ft)		East/We	st Reference
	1986'		SOUTH	1238'			EAST	
	Township		Range		Section	۱		
	22S		33E		10			
	Wellbore Schematic							
	wendore schematic					Well C	Construction Data	
	DL 10 15 OGOPOGO FED	COM 422H					( <u>o</u> ;	
						51	urface Casing	
				Hole Size:	17 1/2"		Casing Size:	13 3/8"
				-		_	Method	
				Cemented with:	643	sx.	Determined:	CIRC
	13 3/8" Csg 1717'			-		_ 37.	Determineu.	
	Cmt to surface			Top of Cement:	SURF	_		
						Inte	rmediate Casing 1	
	9 5/8" Csg 4940'			Hole Size:	12 1/4"		Casing Size:	9 5/8"
	Cmt to surface			-	,	_		-
111				Cemented with:	852		Method	CIRC
					832	SX.	Determined:	CIRC
				Top of Cement:	SURF			
				-		_		
						Inte	rmediate Casing 2	
	7" Csg 9992'	4 1/2'	Csg liner			mee		
	Cmt to surface	TOCO			8 3/4"			7"
		100.9	803.5' - 22065' BOC	Hole Size:	8 3/4	_	Casing Size:	/
				Cemented with:			Method	
	The second second second second second second second second			Cemented with:	988	SX.	Determined:	CIRC
		and the sales of the sales		- Top of Cement:	SURF	_		
					3011	_		
and the second se	A PARTICIPATION AND A PARTY OF THE AND A PARTY OF A PARTY OF THE ADDRESS OF THE A	CONTRACTOR OF THE	NUMBER OF STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREE					
	atha hait maan ay calati ahait a tara a hallad ba			•		Inj	ection Interval	
	Por	ol: WC-025 (	G-06 S223322J		11 572' - 21 96	3' MD	/ MIN 10,939' - MA	X 10 984' TV
			11572' to 21,963'	-	11,572 21,50		, 10117 10,555 IVIA	
	Bones	shing hens	11372 10 21,903					

**EXHIBIT** 

# SLIDE 2 DL 10 15 OGOPOGO FED COM 422H

Tubing:	2 7/8" Liner: IPC Set Depth: 9803.3' MD	Production CSG Liner:		СМТ	
T	Peak Completion Technologies AS1-X	- Hole Size:	6 1/8"	_ Casing Size:	4 1/2"
Type of Packer:		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?		/es	No	
	If no, for what purpose was the well originally d	rilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	2nd BONE SPRING UPP	ER		
3	Name of Field or Pool (if applicable):	BONE SPRING			
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of co		prated		
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propose	ed injection		
	OVERLYING: 1st BONE SPRING - TOP 9960' TVI	D UN	DERLYING: 2nd	BONE SPRING LOWER -	TOP 11125' TVD

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# SLIDE 1 DL 10 15 OGOPOGO FED COM 423H

# Operator: CHEVRON U S A INC

Well N DL 10	lame 15 OGOPOGO FED COM 423H	Lease DL 10 15 00	SOPOGO FED COM	Field Name Bone Spring			Business Uni Mid-Contine		
	15 OGOPOGO FED COM 423H								
Area	vare Basin		Surface UWI 3002549907			ell Type il Producer			
Latitu	de		5002515507	Longitude	0.				
32.40 North	4482 South Distance (ft)		North/South Referen	-103.555685 ce East/West Distar	nce (ft)			Fastivia	st Reference
1986'			SOUTH	1213'	noe (n)			EAST	schereneno
Towns 22S	ship		Range 33E		Se 10	ection )			
	Wellbore Schematic					Well	Construction	n Data	
	DL 10 15 OGOPOGO FED CC	M 423H					Surface Casir		
n distanti institute de la constitu	industra strach teter in mariteste littlesina dan seine sestantika setter	dadih diserandrah dadi	ada da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala da ala d	Hole Size:	17 1/2	п	Casing	Size:	13 3/8"
	13 3/8" Csg 1706' Cmt to surface			- Cemented with:	643	sx.		Method Determined:	CIRC
	cint to surface			Top of Cement:	SURF				
						Inte	ermediate C	asing 1	
<b></b>	9 5/8" Csg 5000'			Hole Size:	12 1/4	4''	Casing	Size:	9 5/8"
	Cmt to surface			Cemented with:	852	sx.		ethod nined:	CIRC
				Top of Cement:	SURF				
	7" Csg 9900'					Inte	ermediate C	asing 2	
	Cmt to surface	4 1/2" Csg		Hole Size:	8 3/4	"	Casing		7"
			.3' - 21742' BOC	Cemented with:	984	sx.		ethod nined:	CIRC
a constitutional	alana panan panan panan panan panan	a ta fi ipit titalo	erent til och Soo et soonde	Top of Cement:	SURF	-			
		1				<u>Ir</u>	ijection Inte	rval	
				_	11,271' - 2	21,677' MI	) / MIN 10,7	03' - MA	X 10,764' T
			-06 S223322J 11,271' to 21,677'						

**EXHIBIT** 

# SLIDE 2 DL 10 15 OGOPOGO FED COM 423H

Tubing: <u>2</u> 7	/8" Liner: IPC Set Depth: 9734.1 MD	Production CSG Liner:	СМТ
Type of Packer:	Peak Completion Technologies AS1-X	Hole Size:	6 1/8" Casing Size: 4 1/2"
Type of Packer.		Cemented with:	749 sx. Method: <u>CALC</u>
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 c	Irilled? PRO	DDUCER - 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 intervals and give plugging detail, i.e. sacks of c		red
	<u>N/A</u>		
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the proposed in	njection
	OVERLYING: 1st BONE SPRING - TOP 9960' TV	D UNDER	RLYING: 2nd BONE SPRING LOWER - TOP 11125' TVD

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#### SLIDE 1 DL 10 15 OGOPOGO FED COM 424H

#### Operator: CHEVRON U S A INC

WellName Lea		Field Name			usiness Unit	
DL 10 15 OGOPOGO FED COM 424H DL 1	10 15 OGOPOGO FED COM	Bone Spring		Mid-Continent		
DL 10 15 OGOPOGO FED COM 424H						
Area Delaware Basin	Surface UWI 3002549908		Well Ty Oil Pro			
Latitude		Longitude				
32.404481 North/South Distance (ft)	North/South Referen	-103.555604 ce East/West Distan	((-)			West Reference
1986'	SOUTH	1188'	ce (rt)		EAST	west hererence
Township	Range		Section	n		
228	33E		10			
Wellbore Schematic						
Wendore Schematic			W	ell Con	struction Data	
DL 10 15 OGOPOGO FED COM 424H				Surf	ace Casing	
Carl of the Carl Street and and				<u>50110</u>		
สระบุปกติปันประเทศแทรแบบริเทศการแบบริเภทการการการการการการการการการการการการการก	ก้านที่มีแบบก็ที่แบบคนที่แบบที่มีแบบที่สามแบบที่	Hole Size:	17 1/2"		Casing Size	. 13 3/8"
13 3/8" Csg 1727'		-	_; _, _		-	•
Cmt to surface		Cemented with:	634		Metho	CIRC
				SX.	Determined	:
		Top of Cement:	SURF			
				Inter	rmediate Casing	<u>g 1</u>
9 5/8" Csg 4984'						0 5 (0)
Cmt to surface		Hole Size:	12 1/4"		Casing Size	: 9 5/8"
ent to surface		Cemented with:			Metho	
		Cemented with.	852	sx.	Determined	: CIRC
7" Csg 9936'		Top of Cement:	SURF			
		-		_		
	2" Csg Liner			Inter	rmediate Casing	g 2
100	C 9651.3' - 21994' BOC					<u> </u>
Teneng and second substances in the second state of the second second second second second second second second		Hole Size:	8 3/4"		Casing Size	. 7"
an and an an an an an an an an an an an an an	HAARMAANA BARAMAANA MARAMAHA				Metho	
		Cemented with:	980	sx.	Determined	CIPC
		Top of Cement:	SURF		Determined	
			JUNF	_		
	025 G-06 S223322J			inje	ection Interval	
Bone Spring p	erfs: 11,537' to 21,927'		11 537' - 21 92	7' MD /	/ MIN 10,945' - I	MAX 11 015' TV

**EXHIBIT** 

\*Note - Diagram not to scale

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# SLIDE 2 DL 10 15 OGOPOGO FED COM 424H

Tubing:	2 7/8" Liner: IPC Set Depth: 9680.8' MD	Production CSG Liner:	СМТ
		Hole Size: 6 1/8	Casing Size:4 1/2"
Type of Packer:	Peak Completion Technologies AS1-X	- Cemented with: 768	
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)	: <u>N/A</u>	
		Additional Data	
1	Is this a new well drilled for injection?	Yes	No
	If no, for what purpose was the well originally	drilled? PRODUCER	R - 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 intervals and give plugging detail, i.e. sacks of c		
	N/A		
5	Give the name of any oil or gas zones underlyir zone in this area:	ng or overlying the proposed injection	
	OVERLYING: 1st BONE SPRING - TOP 9965' TVE	UNDERLYING:	2nd BONE SPRING LOWER - TOP 11125' TVD

hl. Jakata

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#### 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	M	lid-Continent	
DL 10 3 KRAKEN FED COM 207H Area Delaware Basin	Surface UWI 3002549078			Type		
Latitude 32.400054		Longitude -103.563064				
North/South Distance (ft) 370'	North/South Reference SOUTH	East/West Distan 1790"	ice (ft)		East/W WEST	est Referenc
Township 22S	Range 33E		Sect 10	ion		
Wellbore Schematic				<u>Well C</u>	Construction Data	<u>a</u>
DL KRAKEN 10 3 FED COM 207	7H			<u>Su</u>	urface Casing	
no and an and an an an and an an an an an an an an an an an an an	։ Աշտիրինիս ավիրաներին անդրություններին անդրունին անորդին անդրունին անդրունին անդրություններին անդրություններին ա	Hole Size:	17 1/2"		Casing Size:	13 3/8"
13 3/8" Csg 1330' Cmt to surface		Cemented with:	1126	sx.	Method Determined:	CIRC
		Top of Cement:	SURF		-	
9 5/8" Csg 4945	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Inter	rmediate Casing 1	<u>L</u>
Cmt to surface		Hole Size:	12 1/4"		Casing Size:	9 5/8"
, cog sos -	1/2" Csg Liner DC 8851' to 20540' BOC	- Cemented with:	772	sx.	Method Determined:	CIRC
		Top of Cement: _	SURF			
				Inter	rmediate Casing 2	2
		Hole Size:	8 3/4"		Casing Size:	7"
	nankan darakan sebarah mata sebarah para dara dara barakar ana a	- Cemented with:	722	sx.	Method Determined:	CIRC
	C-025 G-06 S223322J	Top of Cement:	SURF		-	
Bone Spring	; perfs: 10,048' to 20,469'			Inje	ection Interval	
		_	10,048' - 2	0,469' M	D / MIN 9,453' - N	יד 'AX 9,480' די

**EXHIBIT** 

# SLIDE 2 DL 10 3 KRAKEN FED COM 207H

Tubing	: 2 7/8" Liner: IPC Set Depth: 8849.3' MD	Production CSG Liner:		CMT	
	Deals Consulation Technologies AC4V	Hole Size: –	6 1/8"	Casing Size:	4 1/2"
Type of packer	Peak Completion Technologies AS1X	Cemented with: _	769 sx		
Packer Setting Depth	: <u>8828.3'</u> 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?	Y	/es	No	
	If no, for what purpose was the well originally c	Irilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRIN	G EAST		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		prated		
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propose	d injection		
	OVERLYING: UPPER AVALON - TOP 8931' TVD		UNDERLYING:	1st BONE SPRING	- TOP 9984' TVD

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# SLIDE 1 DL 10 3 KRAKEN FED COM 208H

# Operator: CHEVRON U S A INC

	WellName	Lease		Field Name		Business Unit		
	DL 10 3 KRAKEN FED COM 208H	DL 10 3 KRAK	EN FED COM	Red Tank / Bone S	Spring East	Mid-Contin	ent	
	DL 10 3 KRAKEN FED COM 208H							
	Area Delaware Basin		Surface UWI 3002549079		Well Type Oil Produ			
	Latitude			Longitude	•			
	32.400054 North/South Distance (ft)		North/South Reference	-103.562983 East/West Distan	ce (ft)		East/We	st Reference
	370'		SOUTH	1815'			WEST	
	Township 22S		Range 33E		Section 10			
	223		552		10			
	Wellbore Schematic				w	ell Constructio	on Data	
	DL KRAKEN 10 3 FED COM	A 208H				Surface Cas	ing	
in the start		120011	Salarah Shine by			Surface Cas	ing	
1	արդիրունին արտանություններին արտանություններին հետու	որթարդիրանիրաներ	նակենեռնունենեն ներաների	Hole Size:	17 1/2"	Casin	g Size:	13 3/8"
							lethod	
	13 3/8" Csg 1330' Cmt to surface			Cemented with:	1126		mined:	CIRC
				Top of Cement:	SURF			
	<u>, , , , , , , , , , , , , , , , , , , </u>					Intermediate	Casing 1	
- 1 TT &	9 5/8" Csg 4915'						<u> </u>	
	Cmt to surface			Hole Size:	12 1/4"	Casin	g Size:	9 5/8"
	7" Csg 8986'	4 1/2" Csg Line	ar			N	1ethod	
		FOC 8772' to 2		Cemented with:	852	sx. Deter	mined:	CIRC
		1000/72 102	0105 000	Top of Cement:	SURF			
	end some to any president and the source of	International Action of the International States	n performante de la companya de la companya de la companya de la companya de la companya de la companya de la c					
4						Intermediate	Casing 2	
					0.0 (4)			7"
6				Hole Size:	8 3/4"		g Size:	/
With some state of the second se	ninanala na minina dana minina mana mana mana mana mana mana		a haran an an an haran haran	Cemented with:	720		1ethod	CIRC
			ک کہ اور بری میں کہ کا اپنے کے	_		sx. Deter	mined:	CINC
				Top of Cement: _	SURF			
		C-025 G-06 S2						
	Bone Sprin	g perfs: 9978	' to 20399'			Injection Int		
					9,978' - 20,399	9' MD / MIN 9,	462' - MAX	X 9,492' TVC

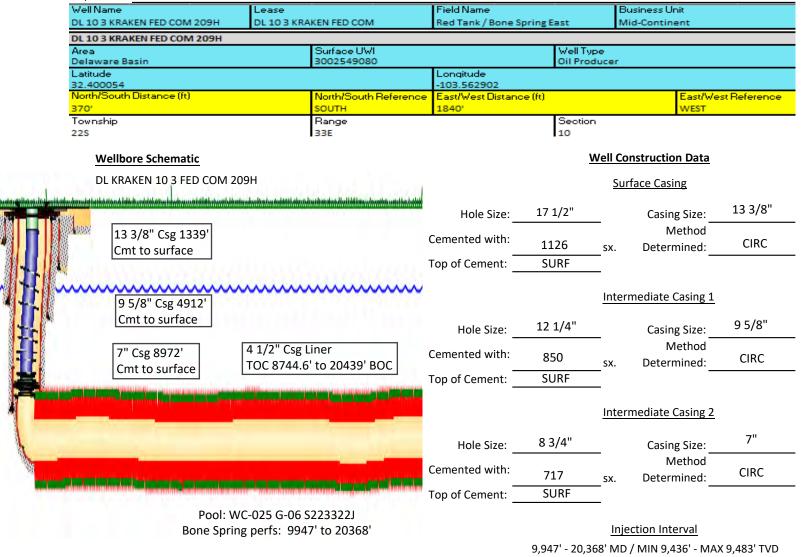
**EXHIBIT** 

# SLIDE 2 DL 10 3 KRAKEN FED COM 208H

Tubing	g: 2 7/8" Liner: IPC Set Depth: 8771.0' 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	<sup>sx.</sup> Method: _	CALC
Packer Setting Depth	: <u>8750.0' MD</u>	Top of Cement:	0770	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 o	drilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG EAST		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated		
	N/A				
5	Give the name of any oil or gas zones underlyir zone in this area:	g or overlying the propo	sed injection		
	OVERLYING: UPPER AVALON - TOP 8933' TVD		UNDERLYING	6: 1st BONE SPRING	6 - TOP 9984' TVD

#### SLIDE 1 DL 10 3 KRAKEN FED COM 209H

#### Operator: CHEVRON U S A INC



**EXHIBIT** 

# SLIDE 2 DL 10 3 KRAKEN FED COM 209H

Tubing	g: 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	r: Peak Completion Technologies AS1X	Cemented with	763	sx. Method: _	CALC
Packer Setting Depth	n: 8722.3' MD	Top of Cement:	8744.6' MD	Bottom of Cmt: _	20439' MD
	Other Type of Tubing/Casing Seal (if applicable)	: <u>N/A</u>			
		Additional Data			
1	Is this a new well drilled for injection?		Yes	No	)
	If no, for what purpose was the well originally o	drilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPR	ING EAST		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated		
	N/A				
5	Give the name of any oil or gas zones underlyir zone in this area:	ng or overlying the propo	sed injection		
	OVERLYING: UPPER AVALON - TOP 8952' TVD		UNDERLYIN	IG: 1st BONE SPRING	i - TOP 9984' TVD

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#### SLIDE 1 DL 15 22 NARWHAL FED COM 219H

# Operator: CHEVRON U S A INC

	Operator. CHEVRON USAT			-				
	WellName	Lease		Field Name			isiness Unit	
	DL 15 22 NARWHAL FED COM 2		RWHAL FED COM	Red Tank / Bone S	spring	Mi	d-Continent	
	DL 15 22 NARWHAL FED COM 2	219H						
	Area Delaware Basin		Surface UWI 3002549081		Well Typ Oil Prod			
	Latitude		5002515001	Longitude	0.11100			
	32.401402			-103.563065				
	North/South Distance (ft)		North/South Reference		ce (ft)			t Reference
	860' Township		<mark>SOUTH</mark> Range	1790'	Section		WEST	
	225		33E		10			
					-			
	Wellbore Schematic				<u>v</u>	/ell Co	nstruction Data	
	DL 15 22 NARWHAL FED COM	V 219H				Sui	rface Casing	
			AND REAL PROPERTY.			<u>-3u</u>	Tace Casilig	
ի հետև հայտարերը, աստո	متصيابا ألتاء طلاأك فتصالبه فالتحاط أأنصاب المطلبهما البابات	վայիեր անդես են հետերին հայտերին հայտ	ألاستها بالأجسا بالبالعي تصابيرا بالعتبا وال		17 1/2"		o	13 3/8"
Water and the second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			Hole Size:	1/ 1/2	-	Casing Size:	13 3/0
	13 3/8" Csg 1435'			Cemented with:			Method	CIRC
	Cmt to surface			-	1114	sx.	Determined:	CIRC
				Top of Cement:	SURF			
X88 🖛 888		A watch to be have		-		-		
		······				Inter	mediate Casing 1	
	9 5/8" Csg 4985'							
	Cmt to surface			Hole Sizer	12 1/4"		Casing Sizes	9 5/8"
8 🕶 8				Hole Size: _	12 1/ 4	-	Casing Size:	
8 📂 8	7" Csg 9027'	4 1/2" Csg Lin	er	Cemented with:	1197		Method	CIRC
1 💳 1	Cmt to surface		791 7' to 20542' BOC	_		SX.	Determined:	CIRC
	cine to surface	1000,511, 1		Top of Cement:	SURF	_		
	and the second se	Consider and any magnetic and other				Inter	mediate Casing 2	
		_						
				Hole Size:	8 3/4"		Casing Size:	7"
1					-	-	Method	
(has		Contractor and the	and the second data and the se	Cemented with:	819	<b></b>		CIRC
Current P	ومرجا ليرزع المرجع والمرجع والترجي والمرجع والم		and the state of the late of the			SX.	Determined:	00
and the second se				Top of Cement: _	SURF	_		
	Роо	I: WC-025 G-06 S	223322J					
	Bone Spri	ing perfs: 10202.	5' to 20471.5'			Inje	ction Interval	
	_ 5.10 op.	01			10 202' 20 /			V 0 5 26' T
				_	10,202' - 20,471' MD / MIN 9,459' - MAX 9,526			1 9,520 T

**EXHIBIT** 

# SLIDE 2 DL 15 22 NARWHAL FED COM 219H

Tubing	: 2 7/8" Liner: IPC Set Depth: 8793.7 ' MD	Production CSG Liner	:	CMT	
	Deals Consultation Technologics ACAV	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of Packer:	Peak Completion Technologies AS1X	Cemented with	773 s	x. 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)	: <u>N/A</u>			
		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 SPR	ING		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated		
	N/A				
5	Give the name of any oil or gas zones underlyir zone in this area:	ng or overlying the propo	sed injection		
	OVERLYING: UPPER AVALON - TOP 8296' TVD		UNDERLYING	: 1st BONE SPRING	6 - TOP 9984' TVD

#### SLIDE 1 DL 15 22 NARWHAL FED COM 220H

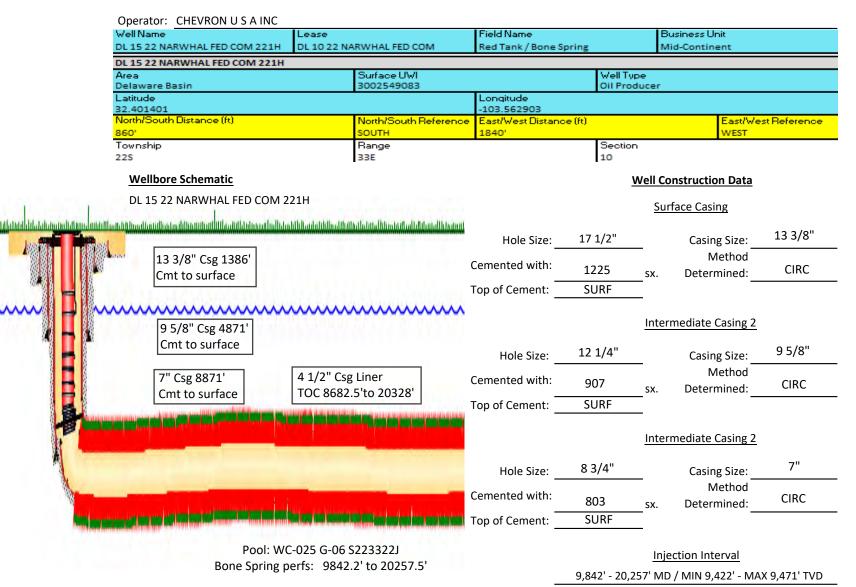
#### Operator: CHEVRON U S A INC **Business Unit** Well Name Field Name Lease DL 15 22 NARWHAL FED COM 220H DL 10 22 NARWHAL FED COM Red Tank / Bone Spring Mid-Continent DL 15 22 NARWHAL FED COM 220H Area Surface UWI Well Type Delaware Basin 3002549082 Oil Producer Latitude Longitude 32.401401 -103.562984 North/South Distance (ft) East/West Distance (ft) North/South Reference East/West Reference SOUTH 1815' WEST 860' Township Range Section 22S 33E 10 **Wellbore Schematic** Well Construction Data DL 15 22 NARWHAL FED COM 220H Surface Casing can National Baadaan oo aliin Haa adaa adaa adaa ha ha Hallahaa da badaha da dii dhisa aa dii na dadaa da dii n 13 3/8" 17 1/2" Hole Size: Casing Size: Method 13 3/8" Csg 1393' Cemented with: CIRC 1114 Determined: SX. Cmt to surface Top of Cement: SURF ~~~~~~~ Intermediate Casing 1 9 5/8" Csg 4851' Cmt to surface 9 5/8" 12 1/4" Hole Size: Casing Size: Method 7" Csg 8883' 4 1/2" Csg liner Cemented with: 928 CIRC sx. Determined: Cmt to surface TOC 8701.7' to 20372' BOC SURF Top of Cement: Intermediate Casing 2 7" 8 - 3/4" Hole Size: Casing Size: Method Cemented with: CIRC 806 Determined: sx. SURF Top of Cement: Pool: WC-025 G-06 S223322J Bone Spring perfs: 9874.7' to 20301.4' Injection Interval 9,874' - 20,301' MD / MIN 9,441' - MAX 9,498' TVD

EXHIBIT

# SLIDE 2 DL 15 22 NARWHAL FED COM 220H

Tubing	: 2 7/8" Liner: IPC Set Depth: 8715.4 ' MD	Production CSG Liner:		CMT	
Turne of Deckory	Deals Completion Technologies AC1V	Hole Size:	6 1/8"	Casing Size:	4 1/2"
Type of Packer:	Peak Completion Technologies AS1X	- Cemented with:	764	_ <sup>sx.</sup> Method:	CALC
Packer Setting Depth	n: 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 c	Irilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated	_	
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propo	ed injection		
	OVERLYING: UPPER AVALON - TOP 8965' TVD		UNDERLYIN	IG: 1st BONE SPRING	- TOP 9984' TVD

#### SLIDE 1 DL 15 22 NARWHAL FED COM 221H



EXHIBIT

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

Tubin	g: 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	Type of Packer: Peak Completion Technologies AS1X		763	sx. Method:	CALC
Packer Setting Dept	h: 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	<b>&gt;</b>
	If no, for what purpose was the well originally c	Irilled?	PRODUCER - OIL		
2	Name of the Injection Formation:	LOWER AVALON			
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRI	NG		
4	Has the well ever been perforated in any other intervals and give plugging detail, i.e. sacks of c		forated		
	N/A				
5	Give the name of any oil or gas zones underlyin zone in this area:	g or overlying the propos	sed injection		
	OVERLYING: UPPER AVALON - TOP 8967' TVD		UNDERLYIN	IG: 1st BONE SPRING	6 - TOP 9984' TVD

•

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

#### Operator: CHEVRON U S A INC

				-				
	WellName	Lease		Field Name			usiness Unit	
	DL 4 33 LOCH NESS FED COM P1 4H	DL 4 33 LOCH N	NESS FED COM	Red Tank / Bone S	pring East	M	id-Continent	
	DL 4 33 LOCH NESS FED COM P1 4H							
	Area		iurface UWI		Well Type			
	Delaware Basin Latitude	51	002546644	Longitude	Oil Produ	lcer		
	32.414283			-103.573242				
	North/South Distance (ft)	N	orth/South Reference	East/West Distance	e (ft)		East/We	st Reference
	264'		оитн	1347'			EAST	
	Township		ange		Section			
	225	33	3E		4			
	Wellbore Schematic				<u>w</u>	<u>ell Co</u>	nstruction Data	
	DL 4 33 LOCH NESS FED CON	Л Р1 <u>4</u> Н				<b>Cr</b>	face Casing	
						<u>3ur</u>	face Casing	
hill and a materia and a start of the	ويطلسلهم وينابينا لنقرء النلاطية وتتبير ولتأريب والتبويلا ومطاقيهم	والمتعينات والبليات وساليلام	ومتعايلات وبالتراء المتعمير المتعا	Hole Size:	16"		Cooling Sizo	13 3/8"
· · · · · · · · · · · · · · · · · · ·	13 3/8" Csg 1365'				10		Casing Size:	, -
288 8 88				Cemented with:	055		Method	CIDC
「 「 「 「 「 」 「 」 「 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 」 「 」 」 」 二 二 二 二	Cmt to surface				855	SX.	Determined:	CIRC
我服 🥄 鐵鐵	9 5/8" Csg 4917'			Top of Cement:	SURF			
一個間 的 間				· _				
<u>∧</u>	Cmt to surface		mmmm			Intor	mediate Casing	
	5 1/2" CSG 20685'					men	mediate casing	
滅 网络 编	Cmt to surface				12 1/4"			9 5/8"
M	cint to surface	the set of the set of the		Hole Size:	12 1/4		Casing Size:	5578
				Cemented with:	4540		Method	
	the state of the s	and an airmach	to - C	cemented with.	1548	sx.	Determined:	CIRC
8 <b>- 1</b>			-	Top of Cement:	SURF			
	and the second second second second second second second second second second second second second second second			· _				
100						Drodu	uction Casing	
						FIUU	uction casing	
188			1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 m		0 1 /2"			5 1/2"
100				Hole Size:	8 1/2"		Casing Size:	5 1/2
1988 I.			and a share the state	Cemented with:			Method	CIDC
A COLORED	d de la facto de la constant de la constante de la constant de la constant de la constant de la constant de la	CALL BURGER BURGER		cementeu with.	3102	sx.	Determined:	CIRC
<b>4</b>	and she provide the first of the first of	ا کال پر ور در پر	او د د د د د د	Top of Cement:	SURF		_	
			and the second se					
	Pool	WC-025 G-06 S	2233221					
		g perfs: 10258.				Inje	ection Interval	
		Phens: 10720	.2 10 20010.0		10.258' - 20.6	10' MI	D / MIN 9.518' - M/	AX 9.686' TV

**EXHIBIT** 

10,258' - 20,610' MD / MIN 9,518' - MAX 9,686' TVD

\*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 d	illed? 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 intervals and give plugging detail, i.e. sacks of ce	
	N/A	
5	Give the name of any oil or gas zones underlying zone in this area:	or overlying the proposed injection
	OVERLYING: UPPER AVALON - TOP 9002' TVD	UNDERLYING: 1st BONE SPRING - TOP 9984' T

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

#### Operator: CHEVRON U S A INC

				Field Name		10		
	Name 33 LOCH NESS FED COM P1 5H	Lease DL43310CF	HNESS FED COM	Red Tank / Bone S	oring Fast		usiness Unit lid-Continent	
	33 LOCH NESS FED COM P1 5H	00433100	THESS FED COM	Red Tallky bolles	pring case	1V	no-continent	
Area			Surface UWI		Well Typ	he		
	aware Basin		3002546645		Oil Proc			
Latit				Longitude				
	+14283 h/South Distance (ft)		North/South Reference	-103.57308 East/West Distance	ce (ft)		East	West Referer
264			SOUTH	1297'			EAST	
	nship		Range		Section	1		
225		1	33E		4			
v	Vellbore Schematic					) اام	Construction Da	ata
						went		
	DL 4 33 LOCH NESS FED COM P	1 5H				Si	urface Casing	
ulidenthaladated	մեններեններեններին անհանդեններին հանդիններին	aninihitatatatata	dinititatidialilitaatuutusatulast				<u> </u>	
				Hole Size:	16"		Casing Size	. 13 3/8
2002 200 4200	13 3/8" Csg 1365'				_	_	Metho	
	Cmt to surface			Cemented with:	856			CID/
						_sx.	Determined	d:
· / ·····		·····	<u></u>	Top of Cement: _	SURF	_		
		5 1/2" Csg 19	782'					
	Cmt to surface	Cmt to surfac	e			Inte	rmediate Casin	g
- M		a sum sum. This little	the same of the latter is a second state					0 5 (0
	and the second s	NAME OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRIDE OF BRID	The Burning of the second second	Hole Size:	12 1/4"	_	Casing Size	e: 95/8
	the second filling a state of the second second		i set unde	Component of with			Metho	
				Cemented with:	1548	SX.	Determined	d: CIRC
				Top of Cement:	SURF	_		
		-		· –		_		
-	and the second se		and the			Proc	luction Casing	
hins such marked by	an and anna dilination	للالق ويدانه أنتاكم ويبازه	الريبية بالمتحاذ ويرأه أنتج الألفي والأنفا			1100		
			ر کا 76 کی کرے ہے ۔	Hole Size:	8 1/2"		Casing Size	. 5 1/2
				1016 5126.	0 -/ -	_	Metho	
				Cemented with:	2720			CIPC
						_sx.	Determined	1:
		NC-025 G-06		Top of Cement: _	SURF	_		
	Bone Spring	perfs: 1050	1.2' to 19713.0'					
						Inj	ection Interval	
					10 501' - 19	713' M	D / MIN 9,594' -	- MAX 9 786'
				_	10,301 - 19,		- 1911 J.J. 94 -	WIAN 3,100

**EXHIBIT** 

\*Note - Diagram not to scale

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

Tu	ubing: 2 7/8" Set Depth: 9128.9' MD	Lining Materia	I: IPC	
Type of Pa	cker: Peak Completion Technologies AS1X			
Packer Setting I	Depth: 9108' MD			
	Other Type of Tubing/Casing Seal (if applicat	ple): N/A		
		Additional Data		
1	Is this a new well drilled for injection?		Yes	No
	If no, for what purpose was the well origina	lly drilled?	PRODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPF	RING EAST	
4	Has the well ever been perforated in any ot intervals and give plugging detail, i.e. sacks		erforated	
	<u>N/A</u>			
5	Give the name of any oil or gas zones under zone in this area:	lying or overlying the prop	osed injection	
	OVERLYING: UPPER AVALON - TOP 9003' T	VD	UNDERLYING:	1st BONE SPRING - TOP 9984' TVE

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

#### Operator: CHEVRON U S A INC

Operator. CHEVRON	NO SAINC			1		1.5		
Well Name	COM DA CU	Lease		Field Name			usiness Unit	
DL 4 33 LOCH NESS FED		DL 4 33 LOCH	NESS FED COM	Red Tank / Bone S	springEast	M	lid-Continent	
DL 4 33 LOCH NESS FED	COM P1 6H		Surface UWI		L.J. II T.			
Area Delaware Basin			3002546646		Well Ty Oil Pro			
Latitude		•		Longitude				
32.414284				-103.572918				
North/South Distance ( 264'	(R)		North/South Reference SOUTH	East/West Distan 1247'	ce (ft)		East	West Referen
Township			Range	1247	Section	-	EAST	
225			33E		4			
Wellbore Schematic					<u>'</u>	Well Co	Instruction Dat	<u>a</u>
DL 4 33 LOCH NESS FEE	COM P1 6H					-	6 a i	
الالبان بالمسيط السيس السيس المسيط بليان وسياليك وتسأير بال	and the state of the	and a local man	A Desilies and the second second			<u>Su</u>	rface Casing	
1 - 1 199 197 9999 999								12 2 /0
	7			Hole Size:	16"		Casing Size	13 3/8
13 3/8" Csg 1365	5'			Concentrations			Metho	
Cmt to surface				Cemented with:	856	sx.	Determined	I: CIRC
				Top of Cement:	SURF			
		mm						
9 5/8" Csg 4921'	5	1/2" Csg 20	684'			Intor	rmediate Casing	
Cmt to surface	C	mt to surfac	e			inter		ž
					12 1/4"		o	. 95/8"
	Autor Contraction of the second second			Hole Size:	12 1/4		Casing Size	
💶 wata . Ammontano mahi . A sasar				Cemented with:	1998		Metho	
		_		-		SX.	Determined	l: CIRC
	and the second second			Top of Cement:	SURF			
				_				
						Prod	luction Casing	
	-							
			addited in the states of the states of the states of the states of the states of the states of the states of the	Hole Size:	8 1/2"		Casing Size	. 5 1/2"
Milat adamikana adalah di Alika	. Dilata di Kina di Alla				, -		Metho	•
	کی کروں ک	-		Cemented with:	3134			CIPC
						SX.	Determined	
		VC-025 G-06		Top of Cement: _	SURF			
	Bone Spring	perfs: 1026	2.0' to 20571.0'					
						Inje	ection Interval	
					10 262' 20		D / MIN 9,515' -	
				_	10,202 - 20,		- 215,8 מווואו / כ	1 00C, 2 XAIN

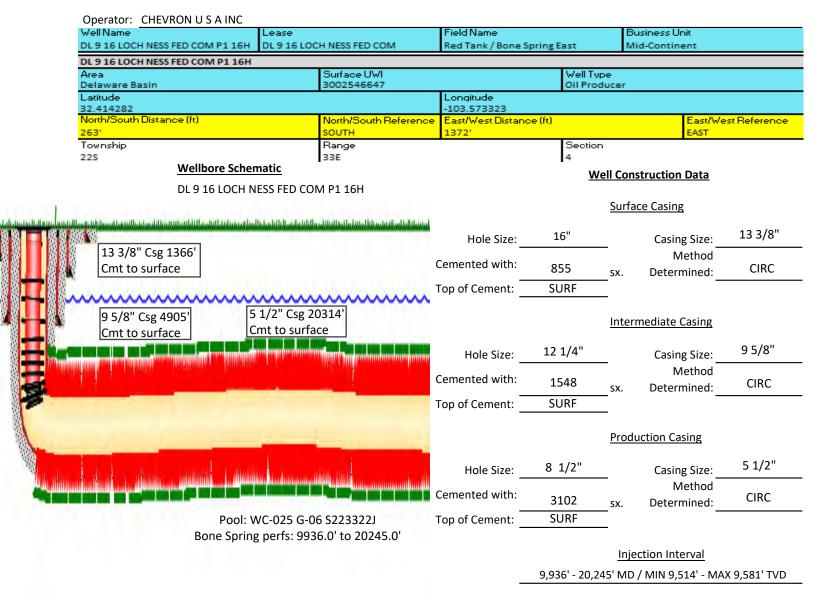
**EXHIBIT** 

\*Note - Diagram not to scale

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

Tubi	ng: 2 7/8" Set	Depth: 9191.0' MD	Lining Materia	I: IPC	
Type of Packe	er: Peak Completio	n Technologies AS1X			
Packer Setting Dep	oth: 9170.0' MD		_		
	Other Type of Tu	bing/Casing Seal (if applicable	e): <u>N/A</u>		
			Additional Data		
1	Is this a new we	ll drilled for injection?		Yes	No
	If no, for what p	ourpose was the well originally	/ drilled?	PRODUCER - OIL	
2	Name of the Inj	ection Formation:	LOWER AVALON		
3	Name of Field o	r Pool (if applicable):	RED TANK / BONE SPR	ING EAST	
4		er been perforated in any othe re plugging detail, i.e. sacks of		erforated	
	N/A				
5	Give the name zone in this are	of any oil or gas zones underly a:	ing or overlying the prop	osed injection	
	OVERLYING: U	PPER AVALON - TOP 9025' TV	D	UNDERLYING:	1st BONE SPRING - TOP 9984' TVD

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



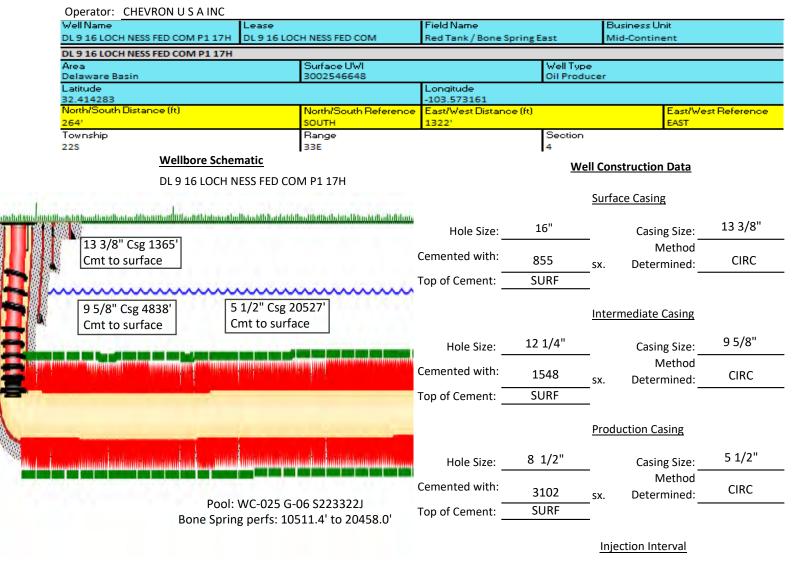
**EXHIBIT** 

\*Note - Diagram not to scale

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

Tu	bing: 2 7/8" Set Depth: 9111.4' MD	Lining Materia	I: IPC	
Type of Pac	cker: Peak Completion Technologies AS1X			
Packer Setting D	epth: 9096.5' MD			
	Other Type of Tubing/Casing Seal (if applica	ble): N/A		
		Additional Data		
1	Is this a new well drilled for injection?		Yes	No
	If no, for what purpose was the well origina	ally drilled?	PRODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPR	ING EAST	
4	Has the well ever been perforated in any of intervals and give plugging detail, i.e. sacks		erforated	
	N/A			
5	Give the name of any oil or gas zones unde zone in this area:	rlying or overlying the prop	osed injection	
	OVERLYING: UPPER AVALON - TOP 8997' 1	ſVD	UNDERLYING:	1st BONE SPRING - TOP 9984' TV

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



**EXHIBIT** 

10,511' - 20,458' MD / MIN 9,653' - MAX 9,766' TVD

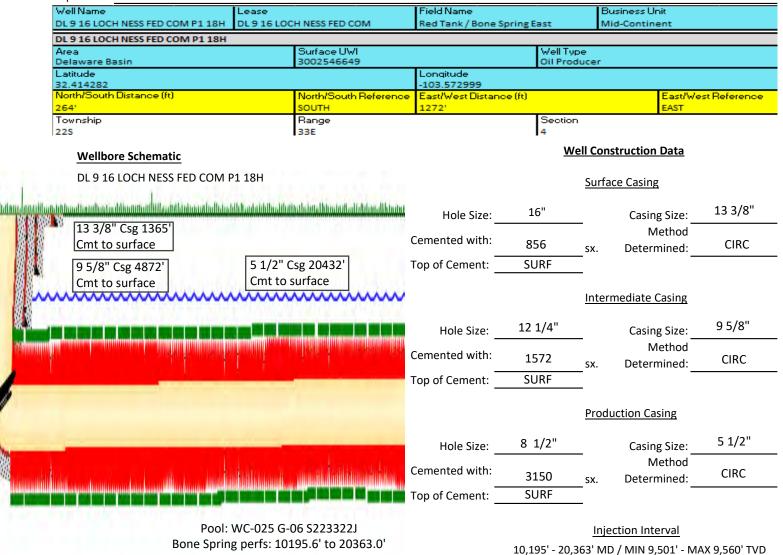
\*Note - Diagram not to scale

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

Tubi	ng: 27/8" Set Depth: 9075.9' MD	Lining Material: IPC
Type of Packe	er: Peak Completion Technologies AS1X	-
Packer Setting Dep	th: 9055.5' MD	_
	Other Type of Tubing/Casing Seal (if applicable)	: <u>N/A</u>
		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 intervals and give plugging detail, i.e. sacks of c	
	N/A	
5	Give the name of any oil or gas zones underlyir zone in this area:	g or overlying the proposed injection
	OVERLYING: UPPER AVALON - TOP 9017' TVD	UNDERLYING: 1st BONE SPRING - TOP 9984' TV

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

#### Operator: CHEVRON U S A INC



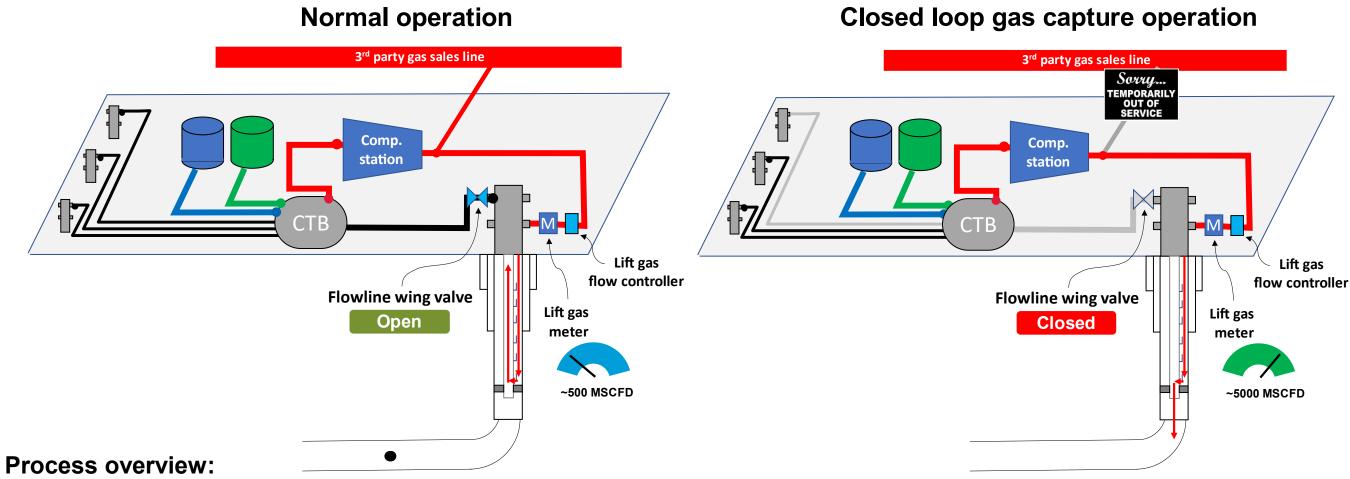
EXHIBIT

\*Note - Diagram not to scale

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

Tu	ubing: 2 7/8" Set Depth: 9081.6' MD	Lining Material: IPC		
Type of Pa	cker: Peak Completion Technologies AS1X			
Packer Setting D	Depth: 9060.7' MD			
	Other Type of Tubing/Casing Seal (if applica	ble): N/A		
		Additional Data		
1	Is this a new well drilled for injection?	Yes	;	No
	If no, for what purpose was the well origina	ally drilled?	ODUCER - OIL	
2	Name of the Injection Formation:	LOWER AVALON		
3	Name of Field or Pool (if applicable):	RED TANK / BONE SPRING E	AST	
4	Has the well ever been perforated in any of intervals and give plugging detail, i.e. sacks		ted	
	N/A			
5	Give the name of any oil or gas zones unde zone in this area:	rlying or overlying the proposed	injection	
	OVERLYING: UPPER AVALON - TOP 9016' 1	VD	UNDERLYING:	1st BONE SPRING - TOP 9984' T

# **Closed Loop Gas Capture (CLGC) introduction**



- During 3<sup>rd</sup> 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.



Page 194 of 228

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.

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 <u>Chevron</u>
 <u>Exhibit C-1</u>. 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 carbonatesiliciclastic 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.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. C Submitted by: Chevron U.S.A. Inc. Hearing Date: September 12, 2024 Case No. 24794 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 Spr	ring 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 fossil coral samples, cutting slabs of samples.	s, collecting				
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 us	ing GPS and				
topographic maps, rock sample collection, and logistics support.					
Research Assistant, Alejandra Rodríguez Delgado, M.S., University of Kansas	<u>Summer 2010</u>				
Thesis Topic: "Geology of Mona Island, Puerto Rico"					
• Duties included geological reconnaissance, making trails through dense vegetation, and ro	ock sample				
collection.					
TEACHING EXPERIENCE					
Geology Lecturer, Geoscience Program, Johnson County Community College	<u>Spring 2022</u>				
• 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 20	018-Spring 2020				
<ul> <li>Assist faculty members with teaching undergraduate courses.</li> </ul>					
<ul> <li>Develop teaching materials prepare and deliver lectures.</li> </ul>					
• Evaluate and grade examinations, assignments, or papers and record grades.					
Graduate Teaching Assistant, Dept. of Geology, Univ. of Puerto Rico, Mayagüez Fall 20	013-Spring 2015				
<ul> <li>Assist faculty members with classroom instruction, exams, and record keeping.</li> </ul>					
• Prepare and deliver lectures, grade examinations, assignments, or papers, and record grade	es.				
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 201	3				
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 34<sup>th</sup> 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.

Hes

Yula Tang

9/6/2024

Date

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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 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

Received by OCD: 9/19/2024 11:42:06 AM

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Adam G. Rankin

September 4, 2024 Date



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 <u>https://www.emnrd.nm.gov/ocd/</u>.

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.

T 505.988.4421 110 North Guadalupe, Suite 1, Santa Fe, NM 87501-1849 Mail to: P.O. Box 2208, Santa Fe, NM 87504-2208 www.hollandhart.com

Alaska Colorado Idaho Montana Nevada New Mexico

Utah Washington, D.C. Wyoming

#### Chevron - CLGC Dagger Lake - Case no. 24794 Postal Delivery Report

9402811898765482552305	Advance Energy Partners Hat Mesa, LLC	5400 Lbj Fwy Ste 1500	Dallas	ТХ	75240-1017	Your item was delivered to an individual at the address at 2:20 pm on August 26, 2024 in DALLAS, TX 75240.
						Your item was delivered to
						an individual at the address
						at 1:45 pm on August 26,
9402811898765482552398	Alan Jochimsen	4209 Cardinal Ln	Midland	ТΧ	79707-1935	2024 in MIDLAND, TX 79707.
						Your item was picked up at
						the post office at 10:43 am
						on August 28, 2024 in
9402811898765482552343	Antelope Energy Company LLC	PO Box 577	Kimball	NE	69145-0577	KIMBALL, NE 69145.
						Your item was picked up at a
						postal facility at 10:00 am on
						August 26, 2024 in DENVER,
9402811898765482552381	Bureau of Land Management	PO Box 25627	Denver	CO	80225-0627	CO 80225.
						Your item was delivered to
						the front desk, reception
						area, or mail room at 1:38
						pm on August 26, 2024 in
9402811898765482552336	Bureau of Land Management	620 E Greene St	Carlsbad	NM	88220-6292	CARLSBAD, NM 88220.
						Your item has been
						delivered and is available at
						a PO Box at 6:48 am on
						August 26, 2024 in ROUND
9402811898765482552015	C Mark Wheeler	PO Box 248	Round Rock	ТΧ	78680-0248	ROCK, TX 78680.
						Your item was picked up at
						the post office at 1:04 pm on
						August 27, 2024 in
9402811898765482552060	Chad Barbe	PO Box 2107	Roswell	NM	88202-2107	ROSWELL, NM 88201.
						Your item has been
						delivered and is available at
						a PO Box at 10:30 am on
						August 26, 2024 in FORT
9402811898765482552008	Charis Royalty F LP	PO Box 470158	Fort Worth	ΤX	76147-0158	WORTH, TX 76147.

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Received by OCD: 9/19/2024 11:42:06 AM

#### Chevron - CLGC Dagger Lake - Case no. 24794 Postal Delivery Report

						Your item has been
						delivered and is available at
						a PO Box at 10:24 am on
						August 27, 2024 in
9402811898765482552046	Chevron USA Inc	PO Box 4791	Houston	ТΧ	77210-4791	HOUSTON, TX 77002.
						Your item has been
						delivered and is available at
						a PO Box at 7:30 pm on
						August 26, 2024 in DALLAS,
9402811898765482552039	Chisos Minerals LLC	PO Box 731112	Dallas	ТΧ	75373-1112	TX 75373.
						Your item was delivered to
						an individual at the address
						at 12:07 pm on August 27,
9402811898765482552411	Cimarex Energy Co.	6001 Deauville Ste 300N	Midland	ТΧ	79706-2671	2024 in MIDLAND, TX 79706.
						Your item was delivered to
						the front desk, reception
						area, or mail room at 1:34
						pm on August 26, 2024 in
9402811898765482552466	Civitas Permian Operating LLC	555 17th St Ste 3700	Denver	CO	80202-3906	DENVER, CO 80202.
						Your item was delivered to
						the front desk, reception
						area, or mail room at 1:33
						pm on August 26, 2024 in
9402811898765482552404	Civitas Resources	555 17th St Ste 3700	Denver	CO	80202-3906	DENVER, CO 80202.
						Your item has been
						delivered and is available at
						a PO Box at 9:28 pm on
						August 26, 2024 in DALLAS,
9402811898765482552480	CML Exploration LLC	PO Box 841738	Dallas	TX	75284-1738	TX 75284.

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Received by OCD: 9/19/2024 11:42:06 AM

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9402811898765482552473	COG Operating LLC	600 W Illinois Ave	Midland	ТХ	79701-4882	Your item was picked up at a postal facility at 7:56 am on August 27, 2024 in
9402811898765482552510	ConocoPhillips	600 W Illinois Ave	Midland	ТХ	79701-4882	MIDLAND, TX 79701.
9402811898765482552558	Cornerstone Family Trust John Kyle Thoma	PO Box 558	Peyton	со	80831-0558	Your item has been delivered and is available at a PO Box at 8:14 am on August 26, 2024 in PEYTON,
9402811898765482552565	Coyanosa Royalties LLC	1801 Broadway Ste 1550	Denver	со	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	тх	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	ОК	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	ОК	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.

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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.
						Your item arrived at the
						AUSTIN, TX 78705 post office
						at 5:14 pm on August 26,
9402811898765482552589	E Cecile Martin	PO Box 302529	Austin	тх	78703-0043	2024 and is ready for pickup.
						Your item was picked up at a
						postal facility at 8:52 am on
						August 26, 2024 in
9402811898765482552572	EOG Resources Inc	5509 Champions Dr	Midland	тх	79706-2843	MIDLAND, TX 79701.
						Your item has been
						delivered and is available at
						a PO Box at 9:28 pm on
						August 26, 2024 in DALLAS,
9402811898765482550219	EOG Resources Inc	PO Box 840321	Dallas	TX	75284-0321	
						Your item was delivered to
						an individual at the address
						at 9:18 pm on August 26,
		1000 Cordova Pl PMB				2024 in SANTA FE, NM
9402811898765482550264	Freddie Jean WheelerMary Helen Johnson Poa	454	Santa Fe	NM	87505-1725	
						Your item was picked up at
						the post office at 11:13 am
						on August 27, 2024 in
9402811898765482550226	Hurt Properties LP	PO Box 1927	Abingdon	VA	24212-1927	ABINGDON, VA 24210.
						Your item was delivered to an individual at the address
						at 3:22 pm on August 26,
9402811898765482550295	laft Investments IIC	5308 Quicksand Cv	Midland	TV	70707 2142	2024 in MIDLAND, TX 79707.
9402011090/00402000290			Midland	TX	79707-5142	Your item was picked up at a
						postal facility at 12:05 pm on
						August 26, 2024 in ODESSA,
9402811898765482550240	James R Hurt	PO Box 72	Odessa	тх	79760-0072	•
3402011030703402330240		10 000 72	Ouessa	17	13700-0072	17.75701.

						Your item was picked up at a
						postal facility at 11:07 am on
						August 28, 2024 in
9402811898765482550288	Jareed Partners Ltd	PO Box 51451	Midland	ТΧ	79710-1451	MIDLAND, TX 79705.
						Your item was delivered to
						an individual at the address
						at 12:31 pm on August 26,
9402811898765482550233	Jkm Energy LLC	26 E Compress Rd	Artesia	NM	88210-9215	2024 in ARTESIA, NM 88210.
						Your item was delivered to
						an individual at the address at 5:50 am on August 27,
9402811898765482550271	Kaisar Francis Oil Co	PO Box 21468	Tulsa	ок		2024 in TULSA, OK 74103.
9402811898703482330271		FO BOX 21408	Tuisa	UK	74121-1408	2024 III TOLSA, OK 74103.
						Your package will arrive later
						than expected, but is still on
						its way. It is currently in
9402811898765482550813	Marathon Oil Permian LLC	306 W Wall St	Midland	тх	79701-5100	transit to the next facility.
						Your item was delivered to
						the front desk, reception
						area, or mail room at 1:40
		990 Town And Country				pm on August 28, 2024 in
9402811898765482550851	Marathon Oil Permian LLC	Blvd Fl 11	Houston	ТΧ	77024-2217	HOUSTON, TX 77024.
						Your item was picked up at a
						postal facility at 10:20 am on
						August 26, 2024 in
9402811898765482550868	Marshall & Winston Inc	PO Box 50880	Midland	TX	79710-0880	MIDLAND, TX 79705.
						Your item was delivered to
		E400 Lundon D Johnson				an individual at the address
0402011000765402550020	Matadar Braduction Company	5400 Lyndon B Johnson Fwy Ste 1500	Dallas	TV	75240 1017	at 2:20 pm on August 26, 2024 in DALLAS, TX 75240.
9402811898765482550820	Matador Production Company	rwy sie 1500	Dallas	TX	/5240-101/	2024 III DALLAS, 1X 75240.
						Your item was delivered to
						an individual at the address
						at 12:31 pm on August 26,
9402811898765482550806	Matthews Properties LLC	26 E Compress Rd	Artesia	NM	88210-9215	2024 in ARTESIA, NM 88210.
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						Your item has been delivered and is available at
						a PO Box at 10:32 am on
						August 26, 2024 in FORT
9402811898765482550899	Mcmullen Minerals LLC Attn William Malloy	PO Box 470857	Fort Worth	ТХ	76147-0857	WORTH, TX 76147.
						Your package will arrive later than expected, but is still on
						its way. It is currently in
9402811898765482550882	Michael Stewart	3714 Mark Ln	Midland	тх	79707-/1330	transit to the next facility.
9402811898709482990882		57 14 Wark En	Ivitulatio		79707-4330	transit to the next facility.
						Your package will arrive later
						than expected, but is still on
						its way. It is currently in
9402811898765482550837	Monty D. Mclane & Karen R. Mclane	PO Box 9451	Midland	тх	79708-9451	transit to the next facility.
						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
9402811898765482550875	Mustang Oil & Gas LLC	PO Box 412	Roswell	NM	88202-0412	
						Your item was picked up at
						the post office at 11:46 am
						on August 26, 2024 in
9402811898765482550752	New Tex Oil Co	PO Box 297	Hobbs	NM	88241-0297	HOBBS, NM 88240.
						Your item was picked up at a
						postal facility at 9:36 am on
						August 26, 2024 in DENVER,
9402811898765482550769	Office Of Natural Resources Revenue	PO Box 25627	Denver	СО	80225-0627	CO 80225.
						Your item has been
						delivered and is available at
						a PO Box at 9:21 am on
						August 28, 2024 in
9402811898765482550707	Oxy USA Inc	PO Box 4294	Houston	TX	77210-4294	HOUSTON, TX 77210.

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9402811898765482550790	Patterson Petroleum LLC	PO Box 1416	Snyder	ТХ	79550-1416	Your item was delivered to an individual at the address at 10:53 am on August 27, 2024 in SNYDER, TX 79549.
						Your item arrived at the MIDLAND, TX 79702 post office at 12:19 pm on August 26, 2024 and is ready for
9402811898765482550783	Paul R Barwis C/O Dutton Harris & Co	PO Box 230	Midland	ТΧ	79702-0230	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	ТХ	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	ТХ	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	тх	76107-1828	The customer has requested that the Postal Service redeliver this item on August 29, 2024 in FORT WORTH, TX 76107.
9402811898765482550929		PO Box 2308	Santa Fe	NM		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.

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						Your item was picked up at
						the post office at 9:45 am on
						August 27, 2024 in
9402811898765482550998	States Royalty Limited Partnership	PO Box 911	Breckenridge	ТΧ	76424-0911	BRECKENRIDGE, TX 76424.
						Your package will arrive later
						than expected, but is still on
						its way. It is currently in
9402811898765482550943	Stryker Energy LLC C/O Jonathan Poche	PO Box 53448	Houston	ТΧ	77052-3448	transit to the next facility.
						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
9402811898765482550981	Tap Rock Minerals Lp	602 Park Point Dr Ste 200	Golden	CO	80401-9359	address is no longer valid.
						Your item was delivered to
						an individual at the address
						at 3:00 pm on August 26,
	The Family Trust U/W/O Richard Kevin Barr, Beverly					2024 in SOUTHLAKE, TX
9402811898765482550936	Jean Renfro Barr, Trustee	804 Park Vista Cir	Southlake	ТΧ	76092-4342	76092.
						Your item was delivered to
						an individual at the address
						at 1:06 pm on August 28,
	The Smith Family Irrevocable Trust James G Smith					2024 in BONITA SPRINGS, FL
9402811898765482550974	And Alyssa C Smtih, Co-Trustees U/A/D 2/20/2018	26750 McLaughlin Blvd	Bonita Springs	FL	34134-3843	34134.
						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
9402811898765482550615	Wells Fargo Bank Na	101 N Phillips Ave	Sioux Falls	SD	57104-6738	the destination.
						Your item was delivered to
						an individual at the address
0403011000705403550055	Wing Deseuroes VIIII C	2100 McKinney Ave Ste	Dallas	TV	75201 24 42	at 10:49 am on August 27,
9402811898765482550653	Wing Resources VI LLC	1540	Dallas	TX	15201-2140	2024 in DALLAS, TX 75201.

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						Your item was picked up at
						the post office at 9:58 am on
						August 27, 2024 in
9402811898765482550622	Wolfcamp Title LLC	PO Box 2423	Roswell	NM	88202-2423	ROSWELL, NM 88201.

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# 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

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 Royaltes LLC; Crownrock Minerals LP; Devon Energy Production Company; Devon Energy Production Company, LP; DG Royalty LLC; E. Cecile Martin; EOG Resources Inc.; Freddle Jean Wheeler, Mary Helen Johnson POA; Hurt Properties LP; Jaft Investments, LLC; James R Hurt; Jareed Partners Ltd.; JKM Energy LLC; Kalser-Francis Oll Co.; Marathon Oll 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 Oll & Gas LLC; New Tero Oll Co.; Office Of Natural Resources Revenue; Oxy USA Inc.; Petterson Petroleum LLC; Pau R Barwis C/O Dutton Harris & Co.; Pegasus Resources LLC; Pico Canyon Properties, LLC; Janyabaw 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 UW/O Richard Kevin Barr, Beverly Jean Renfro Barr, Trustee; The Smith Family Irrevocable Trust UA/D 2/20/2018, James G. Smith and Alyssa C. Smith, Co-Trustee; Weils 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, Olf Conservation Division ('Division') hereby gives notice that the Division will hold p 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 9 16 Loch Ness Federal Com #18H (API No. 30-025-46649);
DL 9 16 Loch Ness Federal Com #18H (API No. 30-025-46649); 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. 30-025-49080);
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 15 Ogopogo Fed Com #422H (API No. 30-025-49086);
DL 10 15 Ogopogo Fed Com #423H (API No. 30-025-49086);
DL 10 15 Ogopogo Fed Com #424H (API No. 30-025-49086);
DL 10 15 Ogopogo Fed Com #424H (API No. 30-025-49086);

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

			Revis	ec		LKCLCG I	Half	mile	e A	OF	R Tab	oulat	ior	ר of	We	)    [	Dat	ta		
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	Total Depth	TVD (TVDSS)	Current Pool	State	Coun
										17.5 12.250 8.750 6.125	Surface- 13.375 Intermediate- 9.625 Production- 7.0 Liner- 4.5 Tubing-	0' - 1132' 0' - 4645' 0' - 12120' 0' - 15400'	950 1250 1700 325	Circ Circ Circ Circ	(ft)	(MD)				
2	30025365830001 30025413640100	CHEVRON U S A INC	LIVESTOCK FEDERAL 9 2 BATTLE 001H	Oil		1450 FNL, 1950 FEL , 22S, 33E, 9 SW NE 160 FNL, 360 FEL , 21S, 33E, 34	4/3/2004 8/21/2014	8/15/2004	15400'	17.5 12.250 8.750	2 375 Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	13645' 0' - 1670' 188' - 5033' 4300' - 15561' 10450'	1570 1360 1950	Circ Calc Theory	10898' - 10970' 11333' - 15362'	15400		MORROW EAST	NM	LEA
4		MARATHON OIL PERMIAN LLC	BATTLE 002H	Oil		240 FSL, 1660 FEL , 21S, 33E, 27	2/24/2015		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		BONE SPRING	NM	LEA
										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						
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'	17.500	Surface- 13.375	0' - 1812'	1300	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 17.500	Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375	0' - 5448' 0' - 21022' 10343' 0' - 1135'	1775 4200 1025	Unknown Unknown Circ	11121' - 20860'	20900	10918	BONE SPRING	NM	LEA
										12.250 12.250 8.750	Intermediate 1- 9.625 Intermediate 2- 9.625 Production- 5.500 Tubing- 2.875	0' - 4000' 0' - 4800' 4350' - 14209' 10964'	1300 1300 2225	Circ Calc Unknown						
11	30025435860100 30025439090000	EOG RESOURCES INC	SPEEDY 16 STATE COM 501H MERCHANT STATE UNIT 503H	Oil		173 FNL, 332 FWL , 225, 33E, 16 100 FNL, 2250 FWL , 215, 33E, 35	3/18/2017		14209' 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	11096' - 15547' 11200' - 20731'	14209 22000		BONE SPRING BONE SPRING	NM	LEA
15	30025453250000	EOG RESOURCES INC	SPEEDY 16 STATE COM 201H	Oil		326 FNL, 581 FWL , 22S, 33E, 16	12/10/2018		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		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 17.500	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375	0' - 1128' 0' - 4734' 3140' - 14286' 8931' 0' - 1175'	1270 1495 1805 1095	Circ Circ Unknown Circ	9655' - 14301'	14364	9405	BONE SPRING	NM	LEA
17	30025453270000	EOG RESOURCES INC	SPEEDY 16 STATE COM 203H	Oil	Active	389 FNL, 1912 FWL , 225, 33E, 16	12/14/2018	12/8/2019	14274'	12.250 8.750 17.500	Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375	0' - 4738' 3818' - 14274' 8933' 0' - 1175'	1560 1990 1195	Circ Unknown Circ	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'	12.250 8.750 17.500 12.250	Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375 Intermediate- 9.625	0' - 4757' 4260' - 14640' 9533' 0' - 1579' 0' - 5123'	1285 1860 1465 2116	Circ Unknown Circ Circ	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'	8.750 17.500 12.250	Production- 5.500 Tubing- Unknown Surface- 13.375 Intermedia 5.625	0' - 15835' Unknown 0' - 1718' 4164' - 5233' 11159'- 21827'	2981 920 1615 2925	Unknown Circ Circ	Unknown - Unknown	15875		BONE SPRING	NM	LEA
20		MATADOR PRODUCTION CO	MERCHANT STATE UNIT 602H	Oil		200 FNL, 990 FWL , 21S, 33E, 35	2/2/2019	3/16/2019	21827'	8.500 16.000 12.250 8.500	Production- 5.500 Tubing- Unknown Surface- 13.375 Intermediate- 9.625 Production- 5.500	Unknown 0' - 1365' 0' - 4917' 0' - 20685'	2925 855 1548 3102	Unknown Circ Circ Circ	11955' - 21756'	21875		BONE SPRING	NM	LEA
22	30025466440000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 4H	Oil		264 FSL, 1347 FEL , 22S, 33E, 4 SW SE 264 FSL, 1297 FEL , 22S, 33E, 4 SE SE	4/29/2020 6/30/2020	7/1/2022	20685'	16.000 12.250 8.500	Tubing- 2.875 Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875	9189' 0' - 1365' 0' - 4896' 0' - 19782' 0138'	856 1548 2720	Circ Circ Circ	10258' - 20610'	20700		BONE SPRING	NM	LEA
24	30025466460000	CHEVRON U S A INC	DL 4 33 LOCH NESS FED COM P1 6H	Oil		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	9128 0' - 1365' 0' - 4921' 0' - 20684' 9191'	856 1998 3134	Circ Circ Circ	10262' - 20571'	20694		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 16.000	Surface- 13.375 Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375	0' - 1366' 0' - 4905' 0' - 20314' 9111' 0' - 1365'	855 1548 3102 855	Circ 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'	12.250 8.500 16.000	Intermediate- 9.625 Production- 5.500 Tubing- 2.875 Surface- 13.375	0' - 4838' 0' - 20527' 9075' 0' - 1365'	1548 3102 856	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'	12.250 8.500 17.500 12.250	Production- 5.500 Tubing- 2.875 Surface- 13.375 Intermediate- 9.625	9081' 0' - 1706' 0' - 5348'	1572 3150 820 1330	Circ 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'	8.500 17.500 12.250	Production- 5.500 Tubing- Unknown Surface- 13.375 Intermediate- 9.625	16244' - 20306' Unknown 0' - 1743' 0' - 5324'	2935 820 1330	Circ Circ Circ	10445' - 20203' Unknown -	20203	10115	BONE SPRING	NM	LEA
29		MATADOR PRODUCTION CO	MERCHANT STATE UNIT 501H	Oil		200 FNL, 830 FWL , 21S, 33E, 35	3/6/2020		21142'	8.500 17.500 12.250 8.500		0' - 21142' Unknown 0' - 1743' 3805' - 5324' 0' - 20722'	2885 820 1330 2935	Circ Circ Circ Circ	Unknown	20665		BONE SPRING	NM	LEA
32		MATADOR PRODUCTION CO	MERCHANT STATE UNIT 509H MERCHANT STATE UNIT 510H	Oil		200 FNL, 870 FWL , 21S, 33E, 35 200 FNL, 1654 FWL , 21S, 33E, 35		12/28/2020	20722'	17.500 12.250 8.500	Tubing- 2.875 Surface- 13.375 Intermediate- 9.625	10005' 0' - 1799' 3923' - 5337' 2189' - 20737'	835 1335 2985	Circ Circ Circ	10859' - 20634'	22318		BONE SPRING BONE SPRING	NM	LEA

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Santa Fe, New Mexico e

Supplemental Exhibit No. G

Submitted by: Chevron U.S.A. Inc.

Hearing Date: September 12, 2024 Case No. 24794

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	1	1	1	l I	1			1		17.500 12.250		0' - 1330' 0' - 4945'	1126 772	Circ Circ					1	1 1
										8.750	Intermediate 2- 7.000	0' - 9031'	722	Circ						
Im										6.125	Production- 4.500 Tubing- 2.875	8851' - 20540' 8849'	769	Calc						
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	f., france 10,075	01 1000	1120	()	10048' - 20469'	20551	9449	BONE SPRING	NM	LEA
ing										17.500 12.250 8.750	Surface- 13.375 Intermediate 1- 9.625	0' - 1330' 0' - 4915' 0' - 8986'	1126 852 720	Circ						
										6.125	Intermediate 2- 7.000 Production- 4.500	8772' - 20460'	763	Circ Calc						
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'		Tubing- 2.875	8771'			9978' - 20399'	20480	9462	BONE SPRING	NM	LEA
3										17.500 12.250	Surface- 13.375 Intermediate 1- 9.625	0' - 1339' 0' - 4912'	1126 850	Circ						
2										8.750	Intermediate 2- 7.000 Production- 4.500	0' - 8972' 8744' - 20439'	717	Circ Calc						
										6.125	Tubing- 2.875	8743' 8743'	/03	Calc						
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	Surface- 13.375	0' - 1435'	1114	Circ	9947' - 20368'	20453	9438	BONE SPRING	NM	LEA
										12.250 8.750	Intermediate 1- 9.625 Intermediate 2- 7.000	0' - 4985' 0' - 9027'	1197 819	Circ						
3				1						6.125	Production- 4.500	8791' - 20542' 8793'	773	Circ Calc						
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'		Tubing- 2.875	5,33			10202' - 20471'	20552	9429	BONE SPRING	NM	LEA
	1			1				<u> </u>		17.500 12.250	Surface- 13.375 Intermediate 1- 9.625	0' - 1393' 0' - 4851'	1114 928	Circ Circ				-		
M										8.750	Intermediate 2- 7.000 Production- 4.500	0' - 8883' 8701' - 20372'	806	Circ Calc						
										0.125	Tubing- 2.875	8715'	704	caic						
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	Surface- 13.375	0' - 1386'	1225	Circ	9874' - 20301'	20382	9498	BONE SPRING	NM	LEA
										12.250 8.750	Intermediate 1- 9.625 Intermediate 2- 7.000	0' - 4871' 0' - 8871'	907 803	Circ Circ						
										6.125	Production- 4.500 Tubing- 2.875	8682' - 20328' 8679'	763	Calc						
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'						9842' - 20257'	20338	9528	BONE SPRING	NM	LEA
										17.500 12.250	Surface- 13.375 Intermediate 1- 9.625	0' - 1717' 0' - 4940'	643 852	Circ Circ						
										8.750 6.125	Intermediate 2- 7.000 Production- 4.500	0' - 9992' 9803' - 22065'	988 765	Circ Calc						
											Tubing- 2.875	9803'								
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	Surface- 13.375	0' - 1706'	643	Circ	11572' - 21963'	22041	10984	BONE SPRING	NM	LEA
										12.250 8.750	Intermediate 1- 9.625 Intermediate 2- 7.000	0' - 5000' 0' - 9900'	852 984	Circ Circ						
										6.125	Production- 4.500 Tubing- 2.875	9694' - 21742' 9743'	749	Calc						
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'						11271' - 21677'	21757	10764	BONE SPRING	NM	LEA
										17.500 12.250	Surface- 13.375 Intermediate 1- 9.625	0' - 1727' 0' - 4984'	634 852	Circ Circ						
										8.750 6.125	Intermediate 2- 7.000 Production- 4.500	0' - 9936' 9561' - 21994'	980 768	Circ Calc						
											Tubing- 2.875	9680'								
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'	13.375	Surface- 13.375	0' - 624'	700	Circ	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'	8.625	Production - 8.625 Tubing - 2.875	0' - 4906' 9020'	1850	Circ	9949' - 14940'	15010	9517	BONE SPRING	NM	LEA
										17.500 12.250	Surface- 13.375 Intermediate- 9.625	0' - 330' 0' - 5035'	300 2150							
53		RAYBAW OPERATING LLC	PEARSON SWD #001	SWD	Active	1980 FNL, 660 FEL, 21S, 33E, 33	5/30/1973	12/23/1973	14820'	8.500 6.500	Production- 7.625 Liner- 5.500	0' - 11098' 0' - 14820'	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*				13.375	Surface- 13.375	0' - 1100'	1075							
										9.625 7.000	Intermediate- 9.625 Production- 7.000	0' - 5460' 0' - 11500'	4000 1860							
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	Tubing- 2.375 Surface- 13.375	14194' 0' - 1650'	1800	Unknown	14344' - 14593'	15092	15092	MORROW EAST	NM	LEA
										9.625 7.000	Intermediate 1- 9.625 Intermediate 2- 7.000	0' - 5219' 0' - 12221'	2300 1110							
56	30025330610000	MATADOR PRODUCTION CO	ABE UNIT 1	Oil	Active	760 FSL, 1980 FEL, 21S, 33E, 28	8/25/1995	11/30/1995	15098'	4.500	Production- 4.500 Tubing- 2.875	0' - 15098' 14121'	275	Unknown	14163' - 14170'	15100	15100	ATOKA MORROW	NM	LEA
							0,20,2000			17.500 12.250	Surface- 13.375 Intermediate- 9.625	0' - 1848' 0' - 5626'	1175 3661	Circ Circ						
57	30025420620000	COG OPERATING LLC	PYGMY 27 STATE 2H	Oil	Active	190 FNL, 1980 FWL, 215, 33E, 27	3/17/2015	5/26/2015	14830'	8.750	Production- 5.500 Tubing- 2.875	0' - 14830' 9651'	2230	ene	10437' - 14470'	14835	10259	BONE SPRING	NM	LEA
5.				1		,,				20.000	Surface- 16.000 Intermediate 1- 11.750	0' - 1748'	1350	1					1	
				1						14.750 10.625 7.785	Intermediate 2- 8.625 Production- 5.500		1575 2035							
				1							Tubing- 2.875	10337'	2150							
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'	26.000	Surface- 20.000	0' - 1129'	2145	Unknown <sup>Circ</sup>	11082' - 15225'	15362	10963	BONE SPRING	NM	LEA
				1						17.500 12.250	Intermediate 1- 13.375		4060 2275	Circ Circ Circ						
				1						8.750	Production- 7.625	0' - 12055' 0' - 16687'	410	Circ						
59	30025441440000	DKL Field Services, LLC	DOODLE BUG SWD STATE 001	SWD	Active	1498 FNL, 2390 FEL, 225, 33E, 16	2/26/2020	10/30/2020	16687'	17.500	Surface- 13.375	0' - 1603'	1630	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'	12.250	Intermediate- 9.625 Production- 5 500	0 - 1605 500' - 5110' 0' - 14493'	2115	Oth	Unknown	14502	9618	BONE SPRING	NM	LEA
								1		17.500 12.250	Surface- 13.375 Intermediate- 9.625	0' - 14493' 0' - 1604' 0' - 5127'	1630 1860	Circ Circ						
61	30025457920000	MARATHON OIL PERMIAN LLC	BATTLE 34 AV FEE 025H	Oil	New	480 FNL, 1525 FEL, 21S, 33E, 34	7/12/2019	I	14394'	8.750	Production- 5.500	0' - 14394'	2685		Unknown	14409	9626	BONE SPRING	NM	LEA

•

# **Dagger Lake Type Log**

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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.

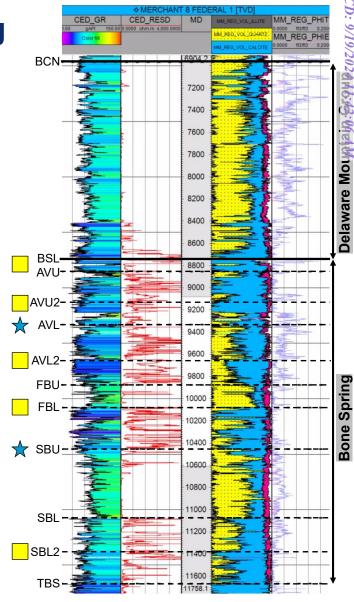
Lower Avalon 2 (AVL2): approximately 200' of tight carbonate interbedded with silica-rich mudstone.

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

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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<sup>-</sup> 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  $(\lambda_n)$  and recovered  $(\lambda_r)$  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:

$$q_{g,n} = q_g^+ \times \lambda_n$$
$$q_{g,r} = q_g^+ \times \lambda_r$$

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