BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING MAY 4, 2023

CASE NO. 23501

CORRAL CANYON CLGC

EDDY COUNTY, NEW MEXICO

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

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, EDDY COUNTY, NEW MEXICO.
CASE

CASE NO. 23501

HEARING PACKET TABLE OF CONTENTS

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

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 23501

APPLICATION

OXY USA Inc. ("OXY" or "Applicant") (OGRID No. 16696) through its undersigned attorneys, hereby files this application with the Oil Conservation Division for an order authorizing OXY to engage in a closed loop gas capture injection pilot project in the Bone Spring formation ("Pilot Project"). In support of this application, OXY states:

PROJECT OVERVIEW

1. OXY proposes to create a 2,640-acre, more or less, project area for this Pilot Project consisting of all of Sections 25, 26, 35 and 36, and the S/2 SW/4 of Section 24, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico (the "Project Area"). *See* **Exhibit A** at 5.

2. The proposed Project Area is part of a larger area OXY refers to as the Corral Canyon and Corral Fly area.

3. OXY seeks authority for this Pilot Project to avoid the 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.

4. Within the proposed Project Area, OXY seeks authority to utilize the following producing wells to occasionally inject produced gas into the Bone Spring formation:

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A
Submitted by: OXY USA INC.
Hearing Date: May 04, 2023
Case No. 23501

- The **Corral Canyon 36-25 Fed Com 21H well** (API No. 30-015-44631) with a surface location 381 feet FNL and 1493 feet FWL (Lot 3) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 1120 feet FSL and 456 feet FWL (Unit M) in Section 24, Township 29 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Canyon 36-25 Fed Com 22H well** (API No. 30-015-44632) with a surface location 381 feet FNL and 1528 feet FWL (Lot 3) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 1143 feet FSL and 1414 feet FWL (Unit N) in Section 24, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Canyon 36-25 Fed Com 23H well** (API No. 30-015-44633) with a surface location 381 feet FNL and 1563 feet FWL (Lot 3) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 1167 feet FSL and 2192 feet FWL (Unit N) in Section 24, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Canyon 36-25 Fed Com 24H well** (API No. 30-015-44634) with a surface location 940 feet FNL and 1283 feet FEL (Lot 1) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 195 feet FNL and 2174 feet FEL (Unit B) in Section 25, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Canyon 36-25 Fed Com 25H well** (API No. 30-015-44635) with a surface location 940 feet FNL and 1248 feet FEL (Lot 1) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 212 feet FNL

and 1293 feet FEL (Unit A) in Section 25, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.

- The **Corral Canyon 36-25 Fed Com 26H well** (API No. 30-015-44636) with a surface location 940 feet FNL and 1213 feet FEL (Lot 1) in Section 1, Township 25 South, Range 29 East, and a bottom hole location 198 feet FNL and 477 feet FEL (Unit A) in Section 25, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Fly 35-26 Fed Com 21H well** (API No. 30-015-44702) with a surface location 694 feet FNL and 1248 feet FWL (Lot 4) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 158 feet FNL and 433 feet FWL (Unit D) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Fly 35-26 Fed Com 22H well** (API No. 30-015-44703) with a surface location 694 feet FNL and 1278 feet FWL (Lot 4) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 140 feet FNL and 1347 feet FWL (Unit C) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Fly 35-26 Fed Com 23H well** (API No. 30-015-44704) with a surface location 694 feet FNL and 1308 feet FWL (Lot 4) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 204 feet FNL and 2213 feet FWL (Unit C) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.

- The **Corral Fly 35-26 Fed Com 24H well** (API No. 30-015-44705) with a surface location 314 feet FNL and 1307 feet FEL (Lot 1) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 202 feet FNL and 2207 feet FEL (Unit B) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Fly 35-26 Fed Com 25H well** (API No. 30-015-44683) with a surface location 314 feet FNL and 1277 feet FEL (Lot 1) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 208 feet FNL and 1240 feet FEL (Unit A) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.
- The **Corral Fly 35-26 Fed Com 26H well** (API No. 30-015-44684) with a surface location 314 feet FNL and 1247 feet FEL (Lot 1) in Section 2, Township 25 South, Range 29 East, and a bottom hole location 208 feet FNL and 428 feet FEL (Unit A) in Section 26, Township 24 South, Range 29 East, NMPM, all in Eddy County, New Mexico.

5. The proposed average injection rate for each well is 3 MMSCFD with a maximum injection rate of 4 MMSCFD during injection. *See* **Exhibit A** at 43.

6. The maximum achievable surface pressure (MASP) for the wells in the Pilot Project is proposed to be 1,300 psi. *See* **Exhibit A** at 43. The current average surface pressures under normal operations for the proposed injection wells range from approximately 675 psi to 981 psi. *Id.*

7. Injection along the horizontal portion of the wellbores will be within the Bone Spring formation, Pierce Crossing; Bone Spring East Pool (Pool Code 96473), at the following approximate true vertical depths:

- **Corral Canyon 36-25 Fed Com 21H well**: between 9,054 feet and 9,100 feet.
- **Corral Canyon 36-25 Fed Com 22H well**: between 9,102 feet and 9,127 feet.
- **Corral Canyon 36-25 Fed Com 23H well**: between 9,066 feet and 9,137 feet.
- **Corral Canyon 36-25 Fed Com 24H well**: between 9,147 feet and 9,156 feet.
- **Corral Canyon 36-25 Fed Com 25H well**: between 9,150 feet and 9,197 feet.
- **Corral Canyon 36-25 Fed Com 26H well**: between 9,167 feet and 9,164 feet.
- **Corral Fly 35-26 Fed Com 21H well**: between 8,879 feet and 8,925 feet.
- **Corral Fly 35-26 Fed Com 22H well**: between 8,920 feet and 8,926 feet.
- **Corral Fly 35-26 Fed Com 23H well**: between 8,902 feet and 8,949 feet.
- **Corral Fly 35-26 Fed Com 24H well**: between 8,980 feet and 9,052 feet.
- **Corral Fly 35-26 Fed Com 25H well**: between 9,006 feet and 9,082 feet.
- **Corral Fly 35-26 Fed Com 26H well**: between 8,966 feet and 9,048 feet.

8. During a mechanical integrity test prior to placing the well in service for temporary injection, a packer will not be set less than one hundred (100) feet below the top of the upper confining layer.

9. A map depicting the pipeline that ties the wells proposed for the Pilot Project into the gathering system and the affected compressor station is included in the attached **Exhibit A** at 5.

WELL DATA

10. Information on the well data, including well diagrams and well construction, casing, tubing, packers, cement, perforations, and other details for each proposed injection well are included in the attached **Exhibit A** at pages 19-42.

11. The proposed maximum achievable surface pressure will not exert pressure at the top perforation in the wellbore of any injection well with a full fluid column of reservoir brine water in excess of 90% of the burst pressure for the production casing or production liner. *See* **Exhibit A** at 43. In addition, the proposed maximum achievable surface pressure will not exert pressure at the topmost perforation in excess of 90% of the formation parting pressure. *See* **Exhibit A** at 43.

12. Cement bond logs[1] for each of the injection wells demonstrate the placement of cement in the wells proposed for this Pilot Project and that there is a good and sufficient cement bond with the production casing and the tie-in of the production casing with the next prior casing in each well.

13. The wells proposed for injection in the Pilot Project have previously demonstrated mechanical integrity. *See* **Exhibit A** at 45. OXY will undertake new tests to demonstrate mechanical integrity for each well proposed for this Pilot Project as a condition of approval prior to commencing injection operations.

[1] Electronic versions of the cement bond logs will be submitted to the Division through each well file.

GEOLOGY AND RESERVOIR

14. Data and a geologic analysis confirming that the Bone Spring formation is suitable for the proposed Pilot Project is included in **Exhibit A** at pages 83-88. A general characterization of the geology of the Bone Spring formation and its suitability for the proposed injection, including identification of confining layers and their ability to prevent vertical movement of the injected gas is included in the analysis. *Id.*

15. The top of the Bone Spring formation in this area is at approximately 6,950 feet total vertical depth and extends down to the top of the Wolfcamp formation at approximately 10,275 feet total vertical depth. *See* **Exhibit A** at 84.

16. Zones that are productive of oil and gas are located above and below the targeted injection interval. *See* **Exhibit A** at 84.

17. Reservoir modeling indicates anticipated horizontal movement of injected gas will be approximately 100 feet or less from each injection wellbore within the Bone Spring formation. *See* **Exhibit A** at 96.

18. OXY has prepared calculations estimating the stimulated reservoir volume based on supporting empirical data and a reservoir model to evaluate potential effects on wells adjacent to the Project Area. *See* **Exhibit A** at 100. OXY's analysis concludes that there will be no change in the oil recovery from each of its proposed injection wells or from any of the offsetting wells. *See id.* at 98.

19. The source of gas for injection will be from OXY's Corral Canyon wells producing from the Delaware, Bone Spring, and Wolfcamp formations that are identified in the list of wells in **Exhibit A** at page 46-47. All proposed temporary injection wells and gas source wells are commingled under the approved gas surface commingling permit PLC-784C. Additional source

wells may be added over time under an approved surface commingling authorization. Each of OXY's proposed injection wells are operated by OXY.

20. OXY has prepared an analysis of the composition of the source gas for injection and a corrosion prevention plan. *See* **Exhibit A** at 48-53.

21. OXY has 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* **Exhibit A** at 89. OXY 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 Pilot Project. *See* **Exhibit A** at 101.

GAS ALLOCATION

28. OXY's proposes a method of gas allocation following a temporary injection event has been previously approved by the Division. *See* **Exhibit A** at 103-105.

AREA OF REVIEW

22. OXY 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, and the half-mile area of review. *See* **Exhibit A** at pages 58-59.

23. A tabulation of data for wells that penetrate the proposed injection interval or the confining layer within the half-mile area of review is included in **Exhibit A** at pages 60-62, along with well-bore schematics for wells that are plugged and abandoned or temporarily abandoned. *See* **Exhibit A** at 63-82.

OPERATIONS AND SAFETY

24. OXY 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* **Exhibit A** at pages 54-56. OXY will also monitor and track various operational parameters at the Pilot Project's central tank battery and central gas lift compressors. *See* **Exhibit A** at pages 54-56.

25. 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 list of the affected parties subject to notice is included in **Exhibit A** at 109, along with a map and list identifying each tract and affected persons given notice. *See* **Exhibit A** at 102.

26. Approval of this Pilot Project is in the best interests of conservation, the prevention of waste, and the protection of correlative rights.

WHEREFORE, OXY USA Inc. requests that this Application be set for hearing before an Examiner of the Oil Conservation Division on May 4, 2023, and that after notice and hearing this Application be approved.

Respectfully submitted,

HOLLAND & HART LLP

By: _____

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ATTORNEYS FOR OXY USA INC.

CASE _____: **Application of OXY USA Inc. for Closed Loop Gas Capture Injection Pilot Project, Eddy County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to engage in a closed loop gas capture injection pilot project ("Pilot Project") in the Bone Spring formation in the, within a 2,640-acre, more or less, project area for this Pilot Project consisting of all of Sections 25, 26, 35 and 36, and the S/2 SW/4 of Section 24, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico (the "Project Area"), by occasionally injecting into the following wells:

- The **Corral Canyon 36-25 Fed Com 21H well** (API No. 30-015-44631).
- The **Corral Canyon 36-25 Fed Com 22H well** (API No. 30-015-44632).
- The **Corral Canyon 36-25 Fed Com 23H well** (API No. 30-015-44633).
- The **Corral Canyon 36-25 Fed Com 24H well** (API No. 30-015-44634).
- The **Corral Canyon 36-25 Fed Com 25H well** (API No. 30-015-44635).
- The **Corral Canyon 36-25 Fed Com 26H well** (API No. 30-015-44636).
- The **Corral Fly 35-26 Fed Com 21H well** (API No. 30-015-44702).
- The **Corral Fly 35-26 Fed Com 22H well** (API No. 30-015-44703).
- The **Corral Fly 35-26 Fed Com 23H well** (API No. 30-015-44704).
- The **Corral Fly 35-26 Fed Com 24H well** (API No. 30-015-44705).
- The **Corral Fly 35-26 Fed Com 25H well** (API No. 30-015-44683).
- The **Corral Fly 35-26 Fed Com 26H well** (API No. 30-015-44684).

OXY seeks authority to utilize these producing wells to occasionally inject produced gas into the Bone Spring formation at total vertical depths of between approximately 8,879 feet to 9,197 feet along the horizontal portion of each wellbore at surface injection pressures of no more than 1,300 psi. at an average injection rate of 3 MMSCF per day and a maximum injection rate of 4 MMSCF per day. The source of the produced gas will be from the Bone Spring and Wolfcamp formations. The subject acreage is located approximately 12 miles southeast of Malaga, New Mexico.

Corral Canyon and Corral Fly Area
CLGC Project 2023

EXHIBIT A

Facilities and Production

General Project Description: Closed Loop Gas Capture (CLGC) Project
Oxy- 2023 Corral Canyon and Corral Fly

About

Summary of Requested Relief

1. Authority to operate a closed loop gas capture project ("CLGC") project consisting of twelve (12) wells. The project will help to prevent waste and reduce adverse impacts from temporary interruptions of gas pipeline capacity.
2. Maximum Allowable Surface Pressure (MASP) of 1300 psi.
3. An exception for the 100-foot packer setting depth requirement applied to vertical injection wells.

Overview

Oxy USA Inc. (Oxy) is proposing a Closed Loop Gas Capture (CLGC) project. On occasion, third-party gas purchasers reduce takeaway capacity and cause interruptions that result in flaring or shut in production. During these interruptions, Oxy will utilize CLGC wells to capture gas and reduce flaring.

Oxy has experienced interruptions where the third-party gas purchaser temporarily reduced takeaway capacity from this project area, resulting in the flaring of gas or the immediate shut-in of production. Approval of this application will significantly reduce such flaring or shut-in production in the future.

Operations During Interruption	Operations During Interruption With CLGC System	Benefits
• Flare gas • Shut in production	• Store gas • Continue production • No additional surface disturbances	• Reduce greenhouse gas emissions • Improve economic recovery of mineral resources including gas that might have been flared • Utilize existing infrastructure

Proposed Operations

Oxy has an extensive high-pressure gas system in the Corral area. It is used for gas lift operations, a type of artificial lift. Oxy plans to utilize the same system for gas storage operations. Very minimal equipment on surface will need to be installed prior to starting storage operations.

Energy Transfer (ETC) is the third-party gas purchaser for the Corral area. If an interruption occurs, Oxy will divert gas from the takeaway line back into the gas lift injection system. Gas will flow from the Central Gas Lift (CGL) Compressor Stations through the flow meter, control valve, safety shutdown valve, wellhead and into the wellbore for storage. Gas will be injected down the casing/tubing annulus in these wells. Simultaneously, the proposed CLGC well will be shut in by closing the electric choke upstream of the production flowline. After the interruption has ended, the electric choke will open and the CLGC well resumes production.

Gas Surface Commingling Permit

The Corral Canyon and Corral Fly area wells are commingled under the approved gas surface commingling permit PLC-784C.

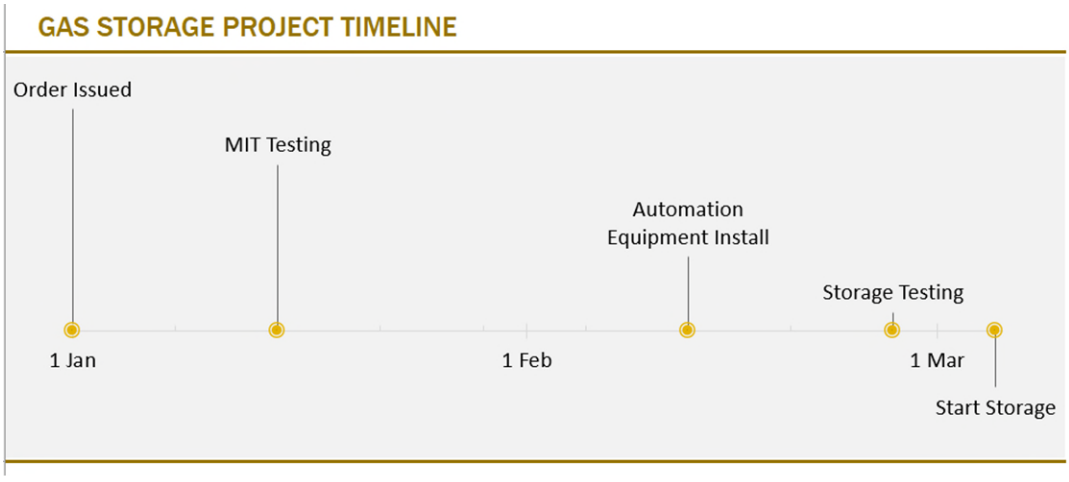
Wells

There are 12 wells proposed in this application.

API	Well Name
30-015-44631	Corral Canyon 36-25 Fed Com 21H
30-015-44632	Corral Canyon 36-25 Fed Com 22H
30-015-44633	Corral Canyon 36-25 Fed Com 23H
30-015-44634	Corral Canyon 36-25 Fed Com 24H
30-015-44635	Corral Canyon 36-25 Fed Com 25H
30-015-44636	Corral Canyon 36-25 Fed Com 26H
30-015-44702	Corral Fly 35-26 Fed Com 21H
30-015-44703	Corral Fly 35-26 Fed Com 22H
30-015-44704	Corral Fly 35-26 Fed Com 23H
30-015-44705	Corral Fly 35-26 Fed Com 24H
30-015-44683	Corral Fly 35-26 Fed Com 25H
30-015-44684	Corral Fly 35-26 Fed Com 26H

Timeline

Since no new surface disturbances are required, this project can be implemented with minimal facility modifications. The timeline below assumes an order is issued on January 1 for illustration purposes.



FACILITIES MAP

PROJECT AREA

EDDY

T24S R29E

T25S R29E

T24S R30E

T25S R30E

CORRAL-FLY-35 26 FEDERAL-COM 021H
CORRAL-FLY-35 26 FEDERAL-COM 022H
CORRAL-FLY-35 26 FEDERAL-COM 023H
CORRAL-FLY-35 26 FEDERAL-COM 024H
CORRAL-FLY-35 26 FEDERAL COM 025H
CORRAL-FLY-35 26 FEDERAL-COM 026H
CORRAL-CANYON 36 25 FEDERAL-COM 021H
CORRAL CANYON 36 25 FEDERAL COM 022H
CORRAL-CANYON 36 25 FEDERAL-COM 023H
CORRAL-CANYON 36 25 FEDERAL-COM 024H
CORRAL-CANYON 36 25 FEDERAL-COM 025H
CORRAL CANYON 36 25 FEDERAL COM 026H

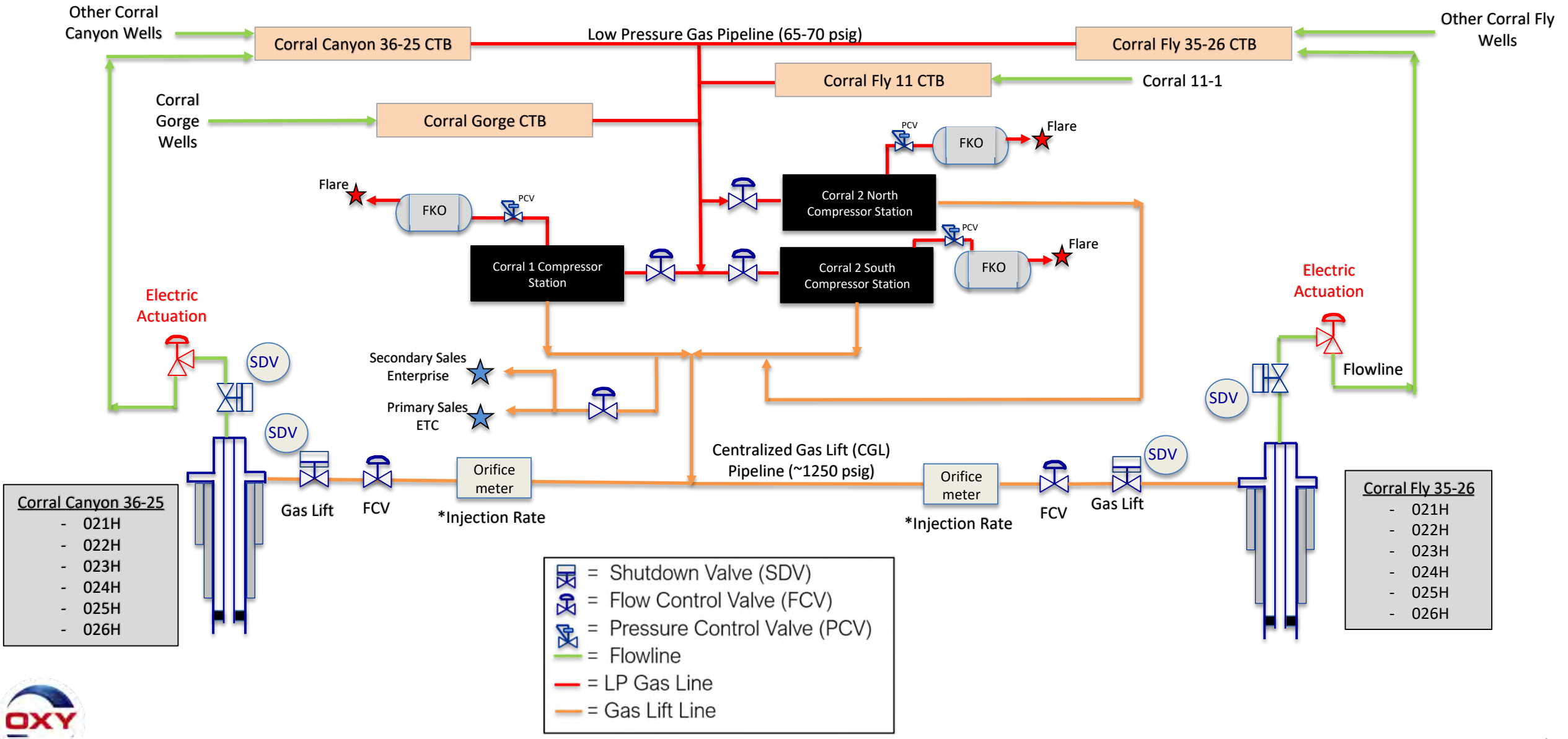
- Flare
- Gas Takeaway
- Flowline
- Gas Lift Line
- LP Pipeline
- Third Party Gas
- Tank Battery
- Compressor Station
- Gas Storage Wells

Gas Storage Well TPs

Type

- FTP
- LTP

Corral Canyon and Corral Fly Gas Process Flow Diagram



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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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

API Number	Pool Code	Pool Name
30-015-44631	96473	Pierce Crossing; Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	21H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3111.5'

Surface Location

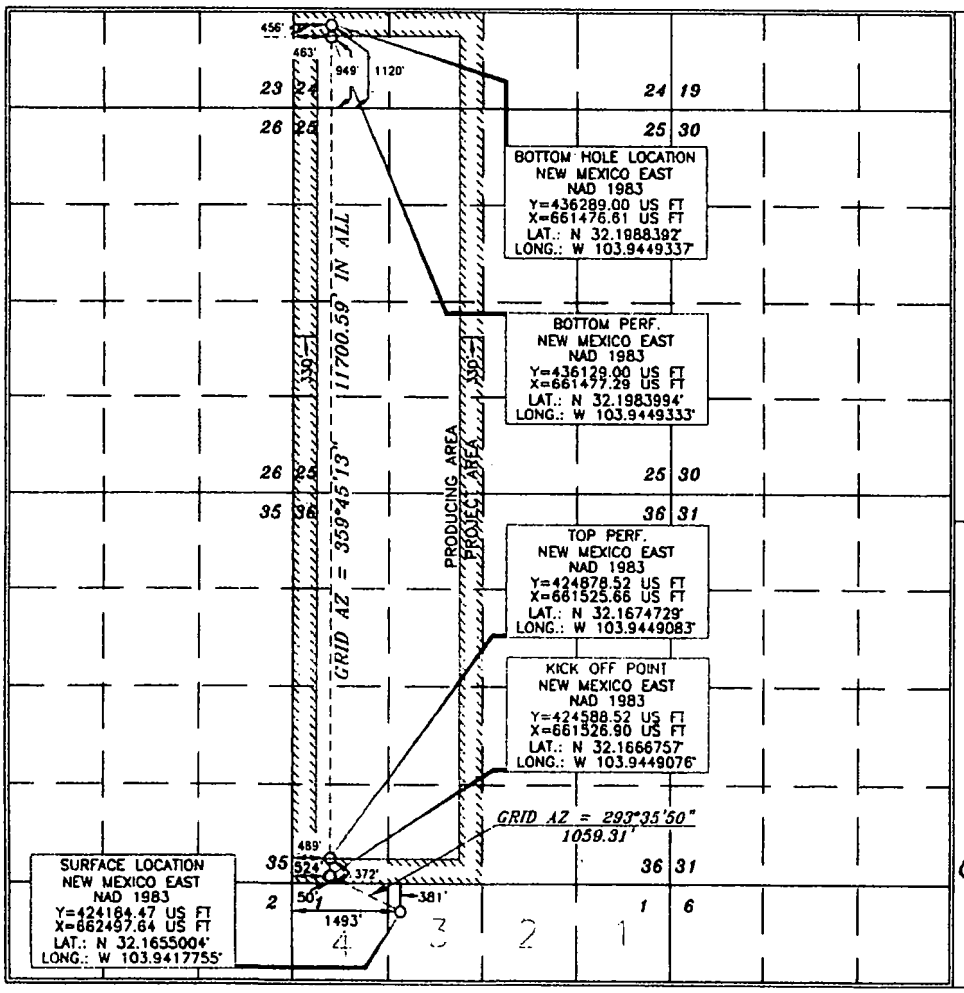
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25 SOUTH	29 EAST, N.M.P.M.		381'	NORTH	1493'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	24 SOUTH	29 EAST, N.M.P.M.		1120'	SOUTH	456'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
720	Y		TP: 372 FSL 489 FWL BP: 949 FSL 463 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Sarah Mitchell 6/1/18
Signature Date

Sarah Mitchell
Printed Name

sarah_mitchell@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

AUGUST 10, 2017
Date of Survey

Signature and Seal of Professional Surveyor

TERRY J. ASEL
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

12/13/2017

15079
Certificate Number

WO# 170810WL-o (Rev. A) (KA)

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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
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44632	96473	Pierce Crossing; Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	22H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3112.3'

Surface Location

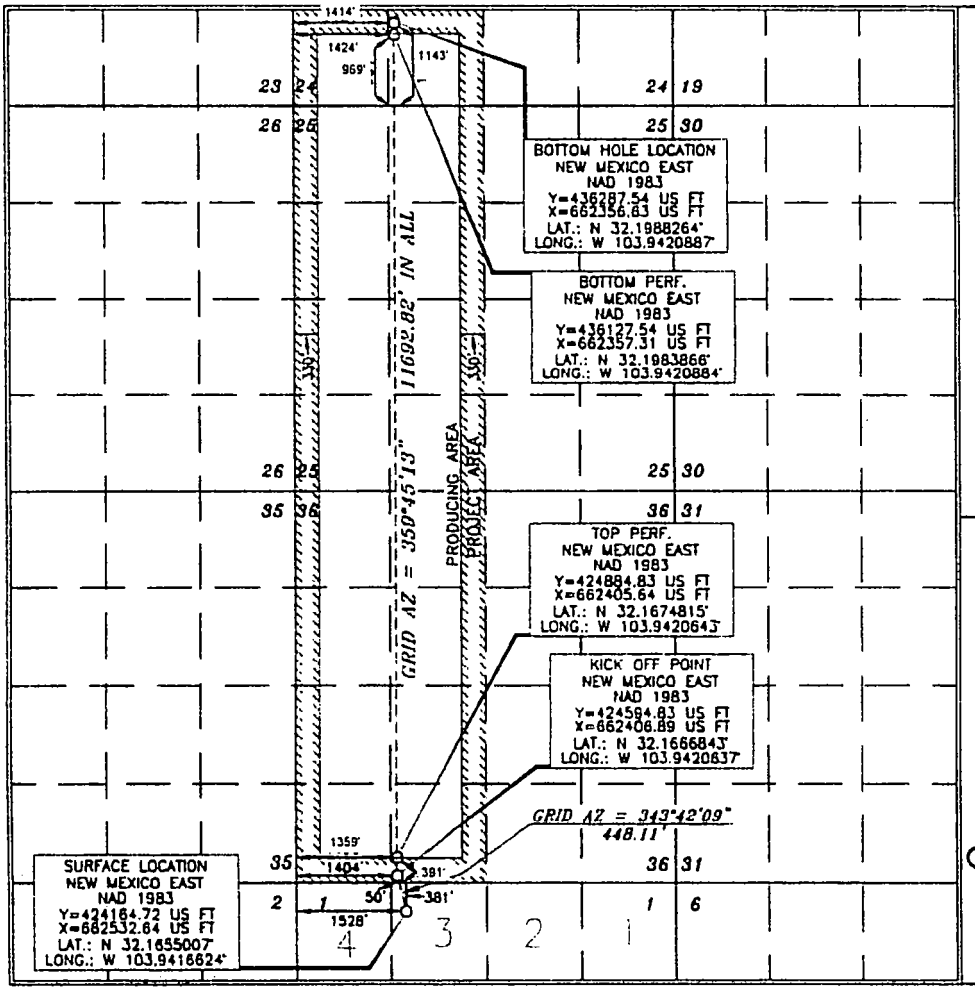
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25 SOUTH	29 EAST, N.M.P.M.		381'	NORTH	1528'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	24 SOUTH	29 EAST, N.M.P.M.		1143'	SOUTH	1414'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
720	Y		TP: 391 FSL 1359 FWL, BP: 969 FSL 1424 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Sarah Mitchell 6/5/18
Signature Date

Sarah Mitchell
Printed Name

sarah_mitchell@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

AUGUST 10, 2017
Date of Survey

Signature and Seal of Professional Surveyor:

TERRY J. ASEL — NEW MEXICO — 15079 — PROFESSIONAL LAND SURVEYOR

Terry J. Asel 12/13/2017
Certificate Number 15079

WO# 170810WL-c (Rev. A) (KA)

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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

API Number	Pool Code	Pool Name
30-015-44633	96473	Pierce Crossing; Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	23H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3113.5'

Surface Location

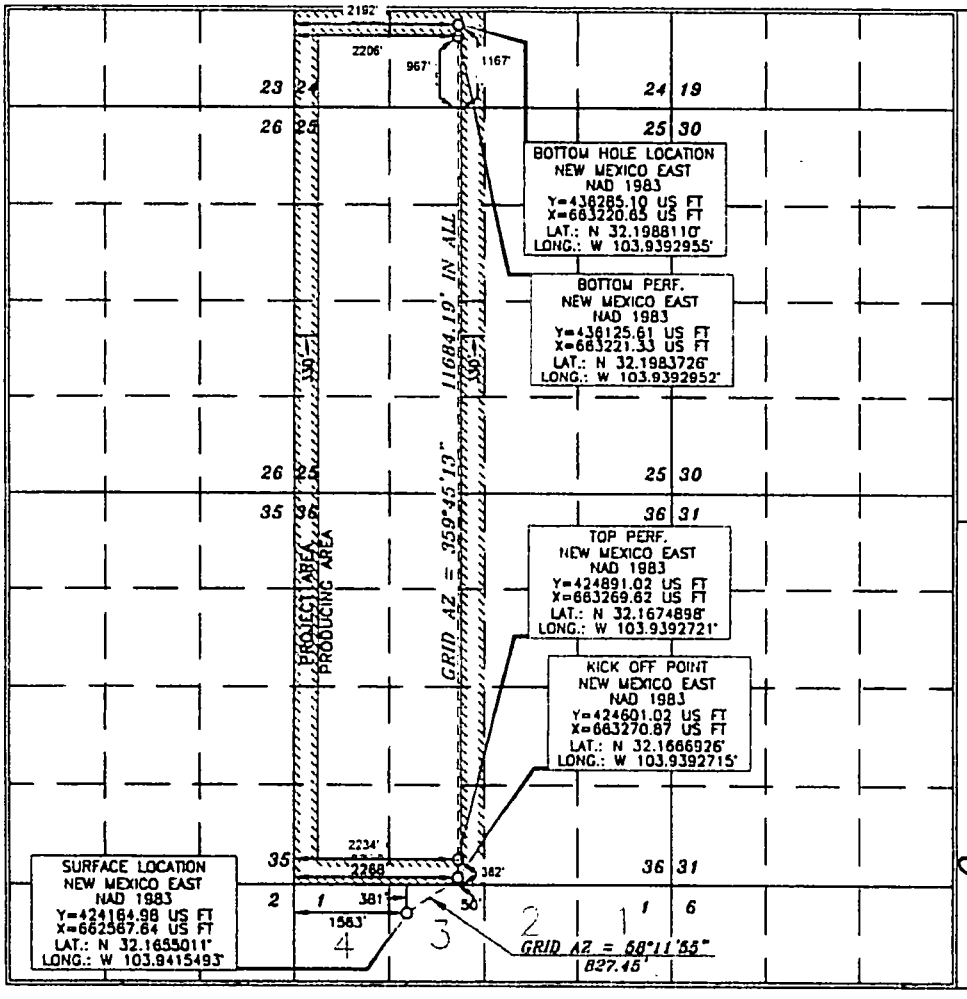
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25 SOUTH	29 EAST, N.M.P.M.		381'	NORTH	1563'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	24 SOUTH	29 EAST, N.M.P.M.		1167'	SOUTH	2192'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
720	Y		TP: 382 FSL 2234 FWL BP: 967 FSL 2206 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Sarah Mitchell 6/5/18
Signature Date

Sarah Mitchell
Printed Name

sarah_mitchell@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

JERRY J. ASH
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

AUGUST 10, 2017
Date of Survey

Signature and Seal of Professional Surveyor

Jerry J. Ash 12/13/2017
Certificate Number 15079

WO# 170810WL-d (Rev. A) (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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Form C-102
Revised August 1, 2011
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☑ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44634	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	24H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3135.9'

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	1	25 SOUTH	29 EAST, N.M.P.M.		940'	NORTH	1283'	EAST	EDDY

Bottom Hole Location If Different From Surface

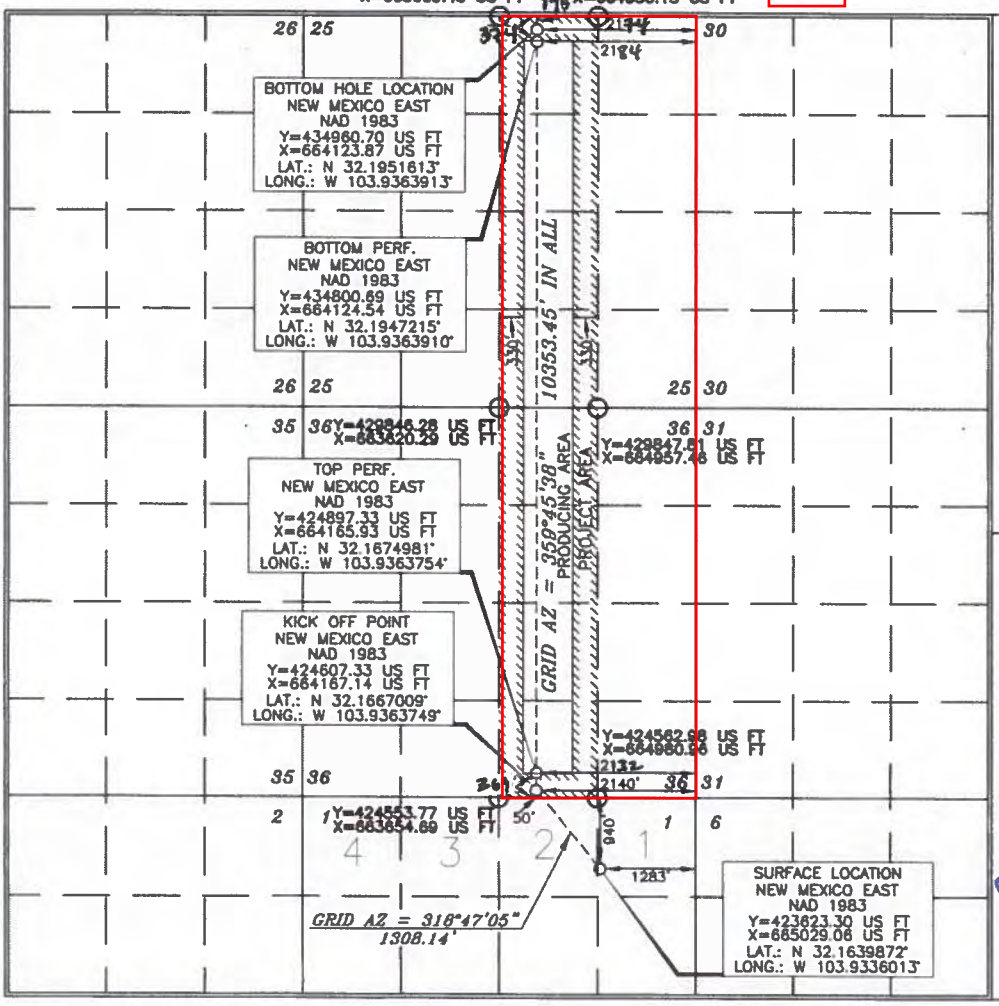
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	25	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 195	NORTH	~~2140'~~ 2174	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640	Y		BP- 374 FNL 2184 FEL TP- 369 FSL 2132 FEL

01/2021 - updated HSU to reflect new Horizontal rules.

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.

HSU Boundary



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 — 5/29/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

15079
AUGUST 11, 2017
Date of Survey

Signature and Seal of Professional Surveyor

TERRY J. ASEL — NEW MEXICO — 15079 — PROFESSIONAL LAND SURVEYOR

5/26/2017

Certificate Number 15079

WO# 170811WL-c-XY (KA)

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

Form C-102
Revised August 1, 2011
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☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44635	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	25H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3135.6'

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	1	25 SOUTH	29 EAST, N.M.P.M.		940'	NORTH	1248'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 212	NORTH	~~1200'~~ 1293	EAST	EDDY

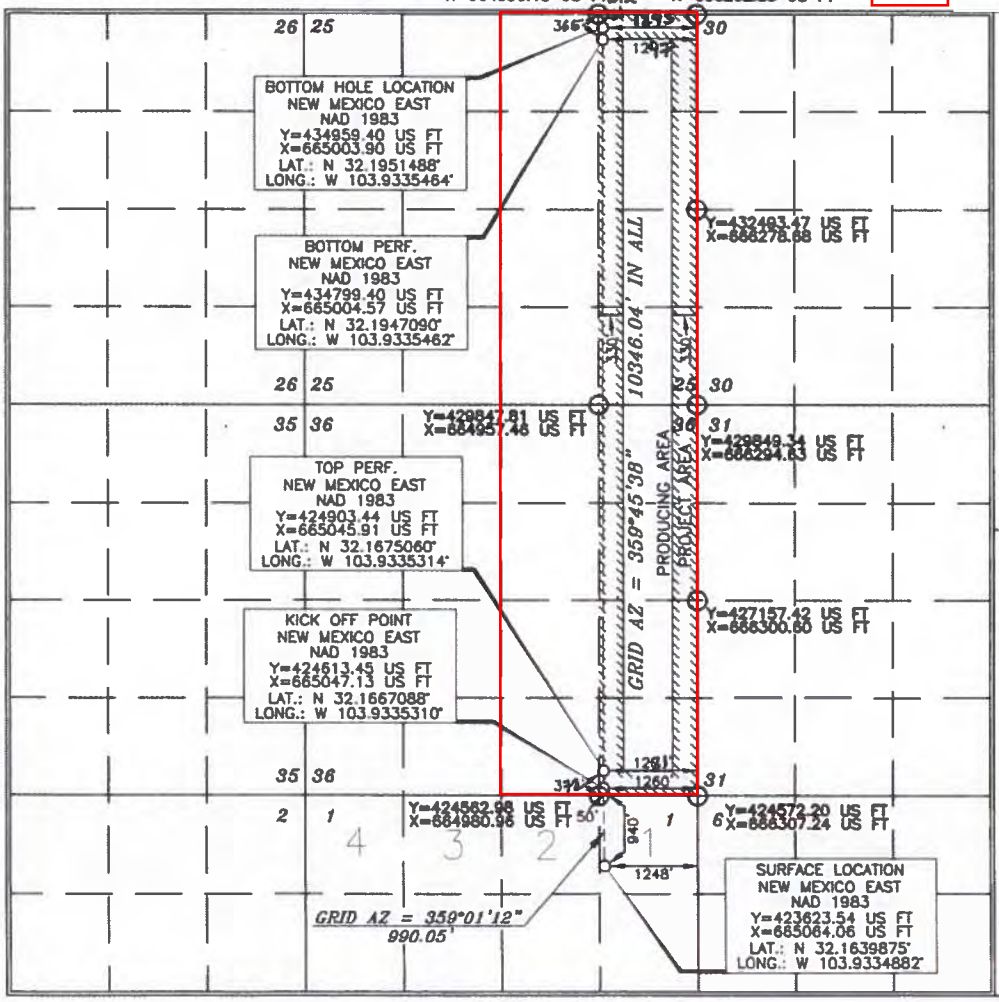
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640	Y		NSL-7682

BP- 365 FNL 1297 FEL
TP- 372 FSL 1281 FEL

01/2021 - updated HSU to reflect new Horizontal rules.

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.

HSU Boundary



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 5/29/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

AUGUST 11, 2017
Date of Survey

Signature and Seal of Professional Surveyor:

TERRY J. ASEL — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

Terry J. Asel 9/26/2017
Certificate Number 15079

WO# 170811WL-d-XY (KA)

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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

API Number	Pool Code	Pool Name
30-015-44636	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320631	CORRAL CANYON "36-25" FEDERAL COM	26H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3136.0'

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	1	25 SOUTH	29 EAST, N.M.P.M.		940'	NORTH	1213'	EAST	EDDY

Bottom Hole Location If Different From Surface

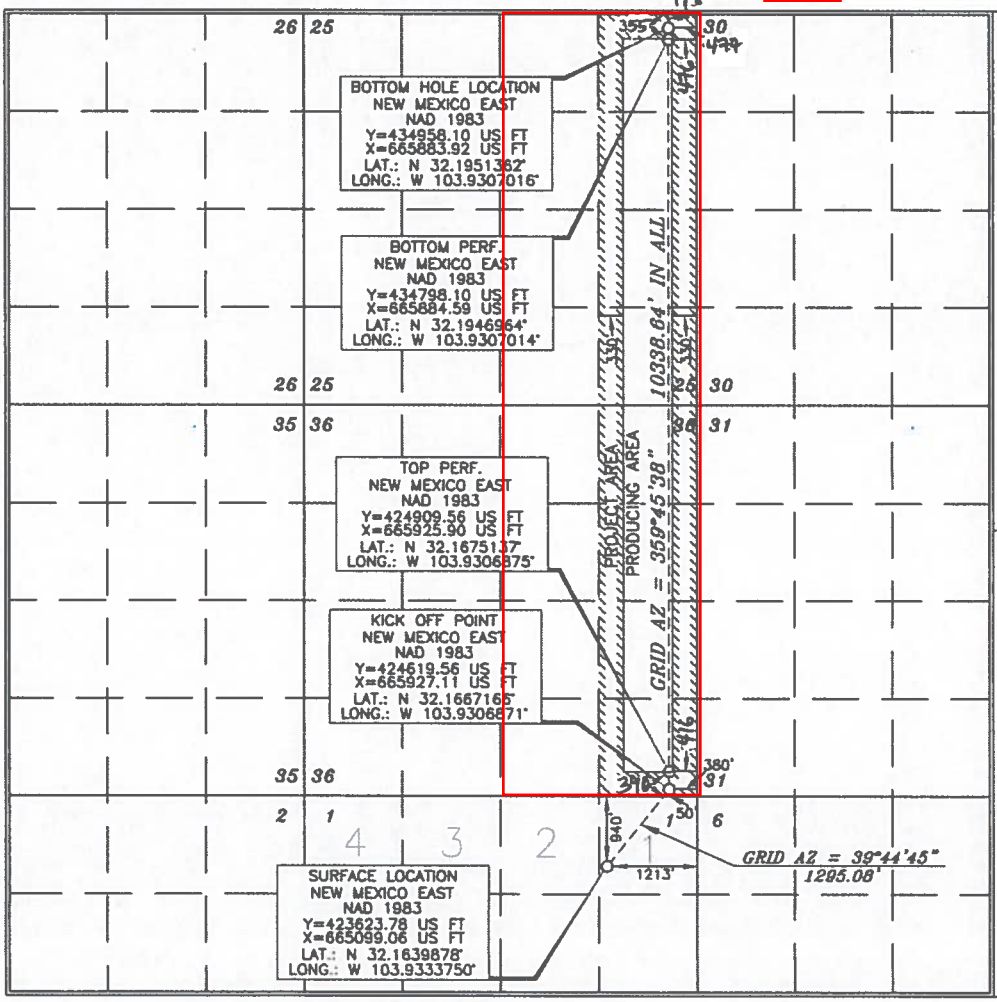
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	24 SOUTH	29 EAST, N.M.P.M.		~~330'~~ 198	NORTH	~~990'~~ 477	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	~~Order No.~~
640	Y		BP- 355 FNL 476 FEL TP- 396 FSL 416 FEL

01/2021 - updated HSU to reflect new Horizontal rules.

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.

HSU Boundary



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 5/29/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

15079
AUGUST 14, 2017
Date of Survey

Signature and Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number 15079 9/26/2017

WO# 170814WL-b (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Energy, Minerals & Natural Resources Department
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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

API Number	Pool Code	Pool Name
30-015-44702	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	21H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3016.0'

Surface Location

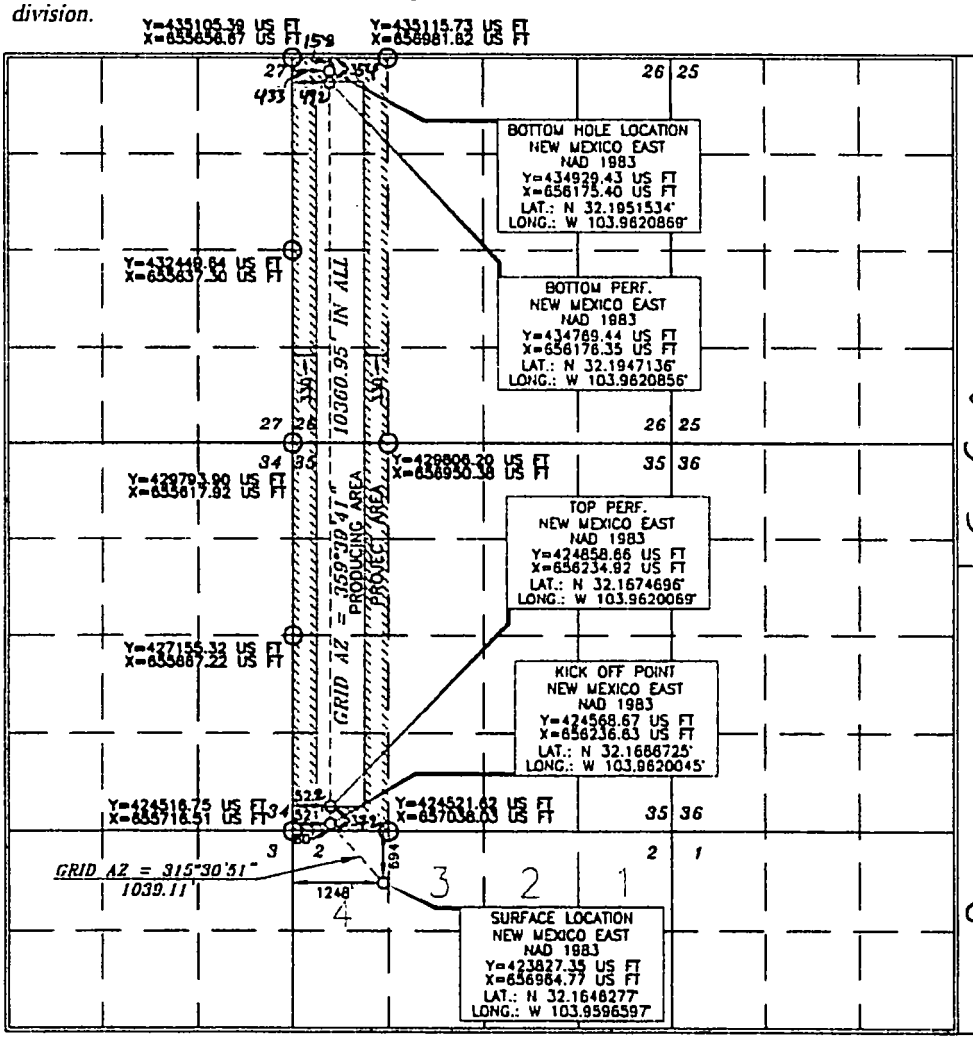
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		694'	NORTH	1248'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 158	NORTH	~~500'~~ 433	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	~~Order No.~~
320	Y		BP - 354 FNL 492 FWL TP - 372 FSL 522 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Signature 7/12/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

TERRY J. ASEL
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

MAY 15, 2017
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Asel 1/1/2018
Certificate Number 15079

WO# 160524WL-a-XY (Rev. E) (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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State of New Mexico
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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

API Number	Pool Code	Pool Name
30-015-44703	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	22H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3018.2'

Surface Location

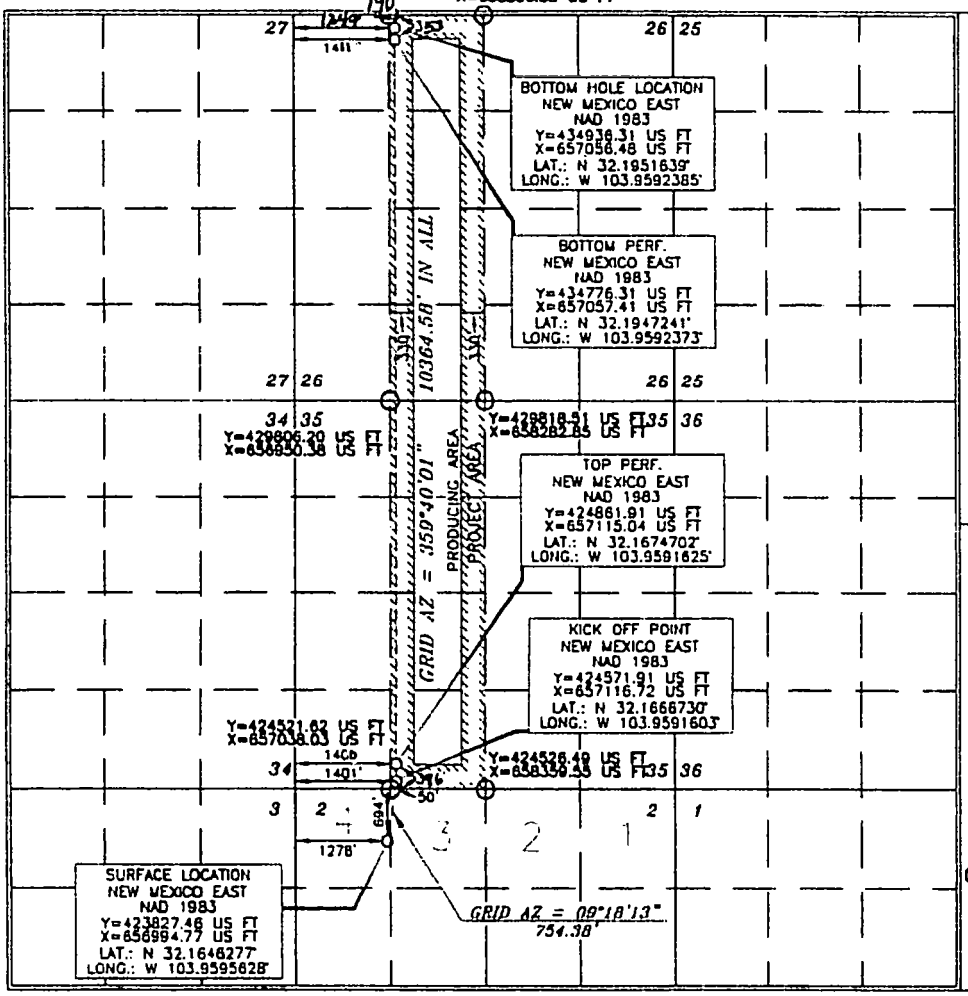
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		694'	NORTH	1278'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 190	NORTH	~~1401'~~ 1347	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.	
320	Y		NSL-7705	BP - 353 FNL 1411 FWL TP - 386 FSL 1400 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Signature 7/12/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 15079

MAY 15, 2017
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number 15079 7/10/2017

WO# 160524WL-b-XY (Rev. C) (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Form C-102
Revised August 1, 2011
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☑ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44704	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	23H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3018.5'

Surface Location

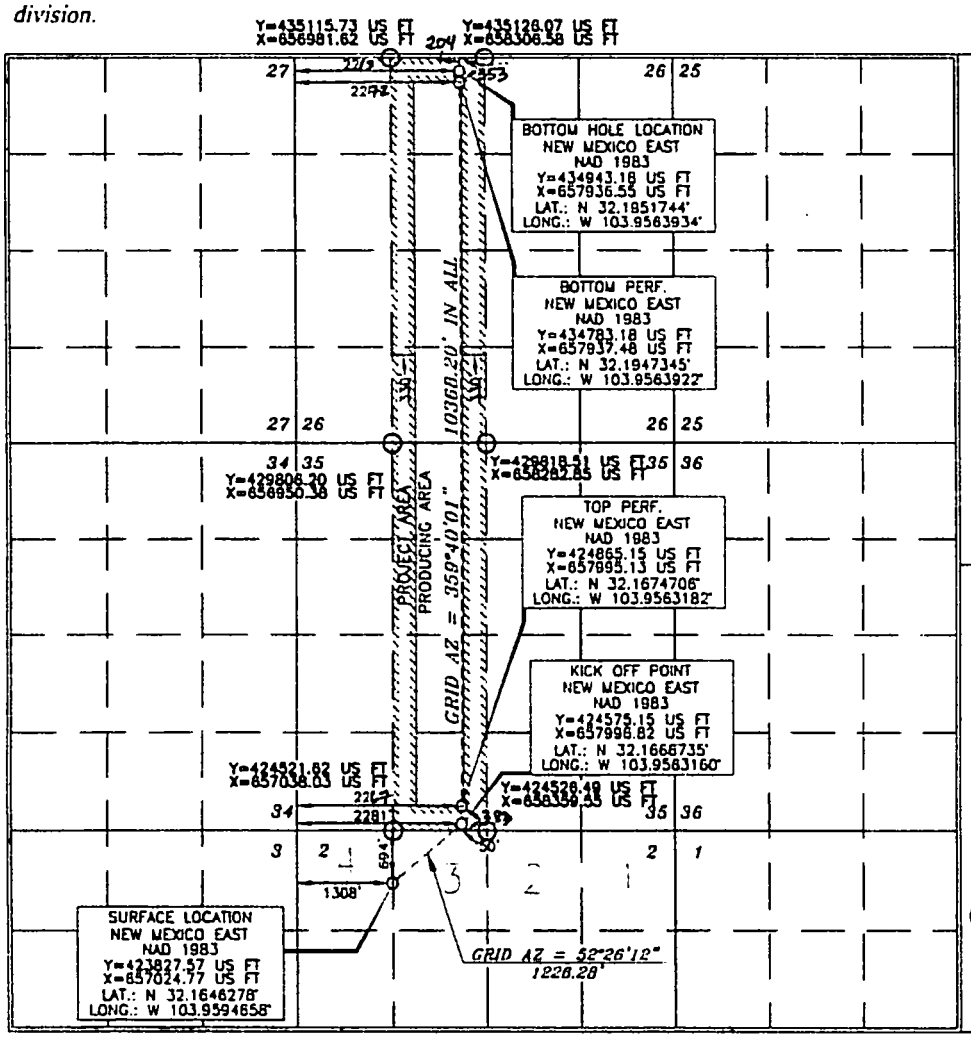
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		694'	NORTH	1308'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	24 SOUTH	29 EAST, N.M.P.M.		~~100'~~ 204	NORTH	~~2381'~~ 2273	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y		BP- 353 FNL 2272 FWL TP- 383 FSL 2267 FWL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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Signature 7/12/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

15079
MAY 15, 2017
Date of Survey

Signature and Seal of Professional Surveyor
NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR

Terry J. Asel 7/10/2017
Certificate Number 15079

WO# 160524WL-c-XY (Rev. C) (KA)

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☑ AMENDED REPORT
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44705	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	24H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3072.1'

Surface Location

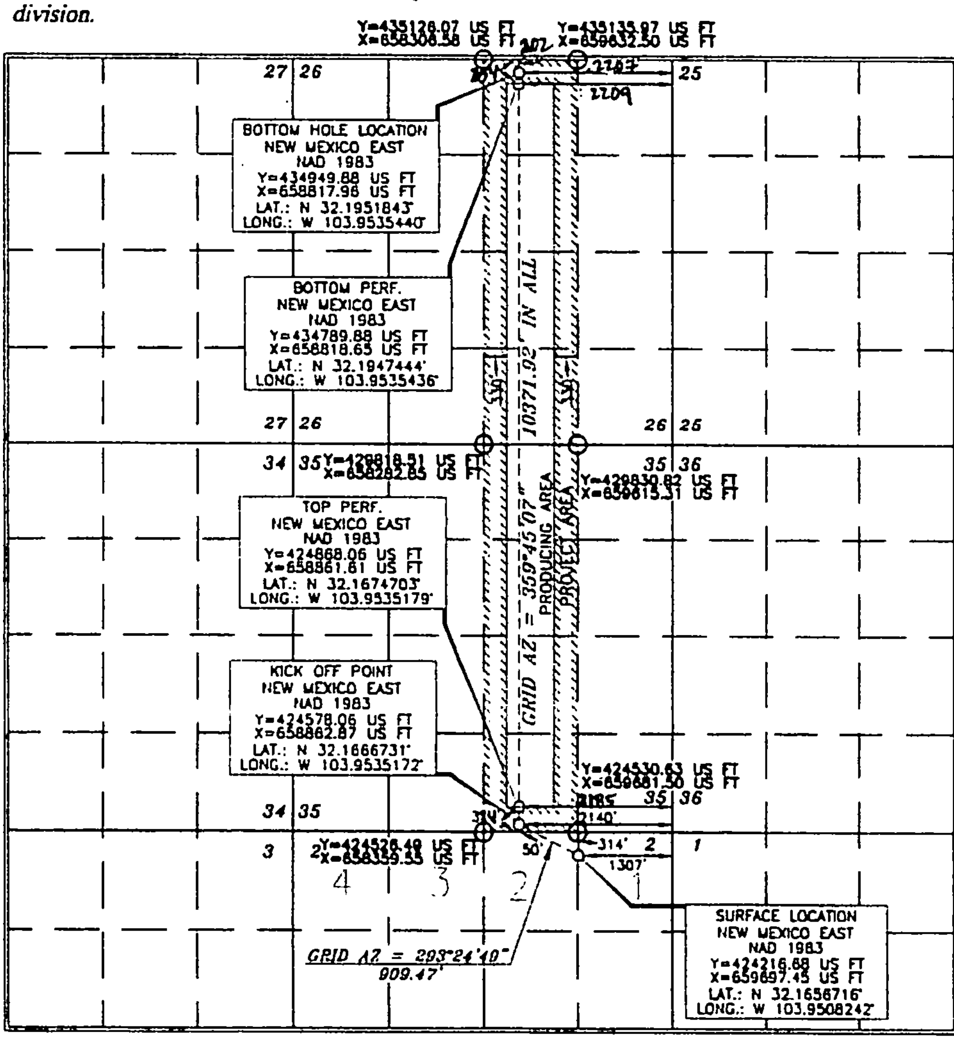
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	2	25 SOUTH	29 EAST, N.M.P.M.		314'	NORTH	1307'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 202'	NORTH	~~2119'~~ 2207	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	~~Order No.~~
320	Y		BP- 354 FNL 2209 FEL TP- 384 FSL 2185 FEL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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Signature: [signature]   Date: 7/26/18

Printed Name: Jana Mendiola

E-mail Address: janalyn_mendiola@oxy.com

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.

TERRY J. ASEL, NEW MEXICO, 15079, REGISTERED PROFESSIONAL LAND SURVEYOR

Date of Survey: MAY 15, 2017

Signature and Seal of Professional Surveyor: [signature] 7/6/2017

Certificate Number: 15079

WO# 160526WL-a-XY (Rev. C) (KA)

District I
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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

API Number	Pool Code	Pool Name
30-015-44683	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	25H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3071.9'

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	2	25 SOUTH	29 EAST, N.M.P.M.		314'	NORTH	1277'	EAST	EDDY

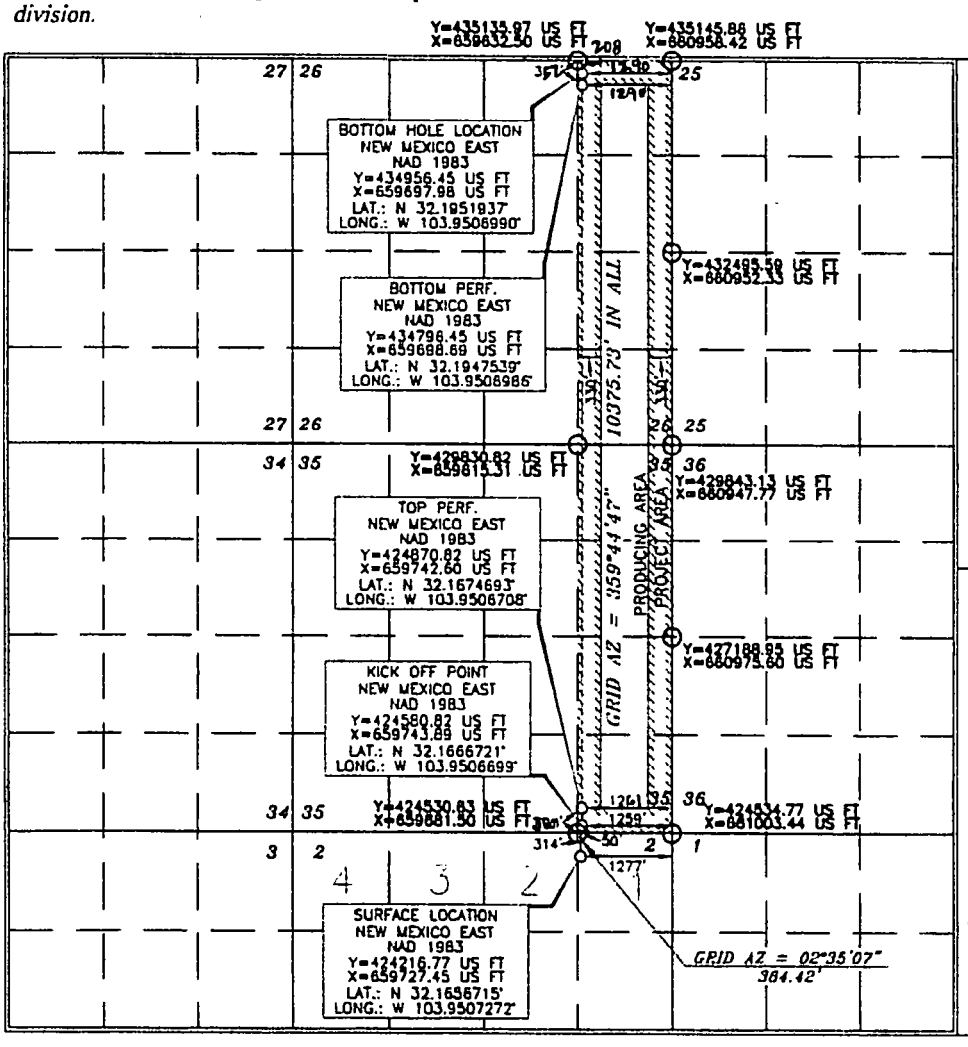
Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	24 SOUTH	29 EAST, N.M.P.M.		~~180'~~ 208	NORTH	~~1277'~~ 1290	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y		NSL-7488

BP- 352 FNL 1290 FEL
TP- 380 FSL 1261 FEL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Signature 7/26/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

MAY 16, 2017
Date of Survey

Signature and Seal of Professional Surveyor:

GERRY J. ASH
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

7/6/2017

Certificate Number 15079

WO# 160526WL-b-XY (Rev. C) (KA)

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

☑ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44684	96473	Pierce Crossing Bone Spring, East

Property Code	Property Name	Well Number
320767	CORRAL FLY "35-26" FEDERAL COM	26H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3072.2'

Surface Location

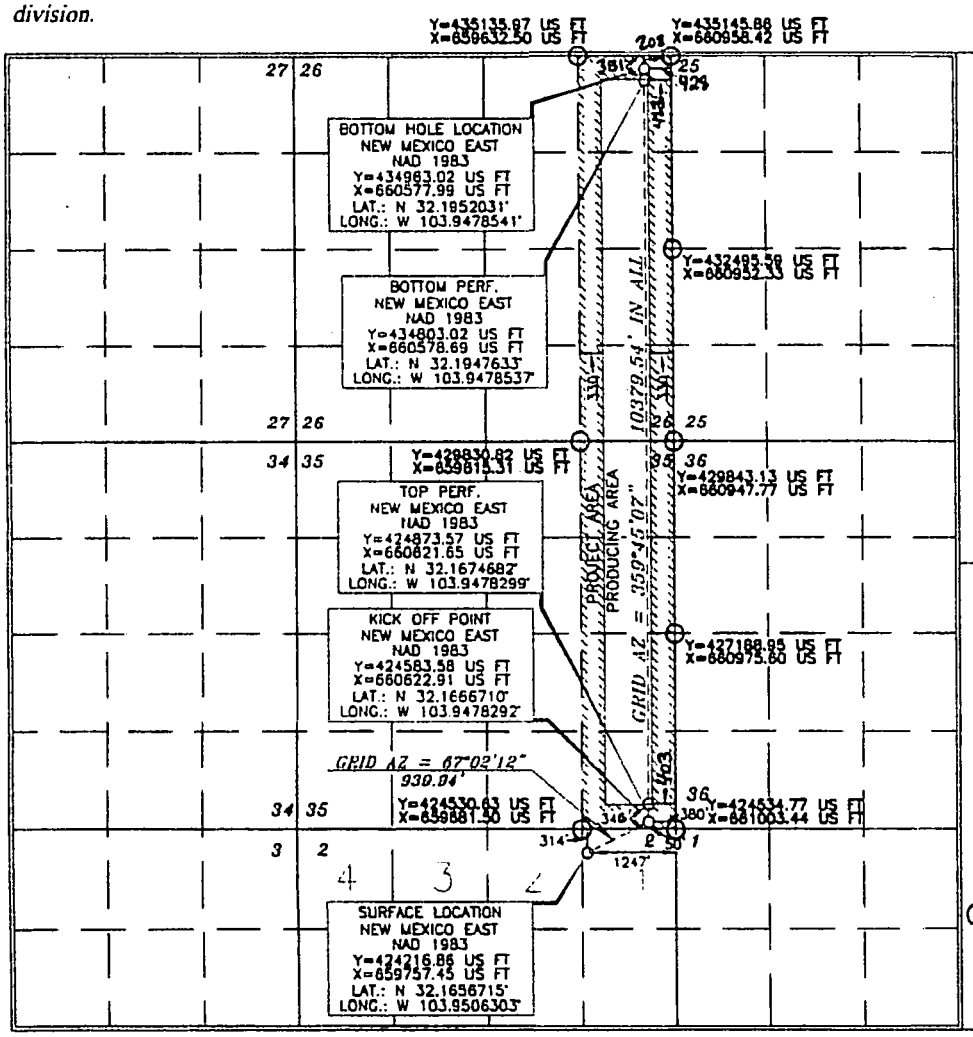
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	2	25 SOUTH	29 EAST, N.M.P.M.		314'	NORTH	1247'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	24 SOUTH	29 EAST, N.M.P.M.		~~100~~ 408	NORTH	~~380~~ 423	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	~~Order No.~~
320	Y		BP - 351 FNL 423 FEL TP - 346 FSL 403 FEL

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

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

Signature 7/26/18 Date

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
Email Address

SURVEYOR CERTIFICATION

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

MAY 15, 2017
Date of Survey

Signature and Seal of Professional Surveyor

NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

7/6/2017

Certificate Number 15079

WO# 160526WL-c-XY (Rev. C) (KA)

Side 1

INJECTION WELL DATA SHEET

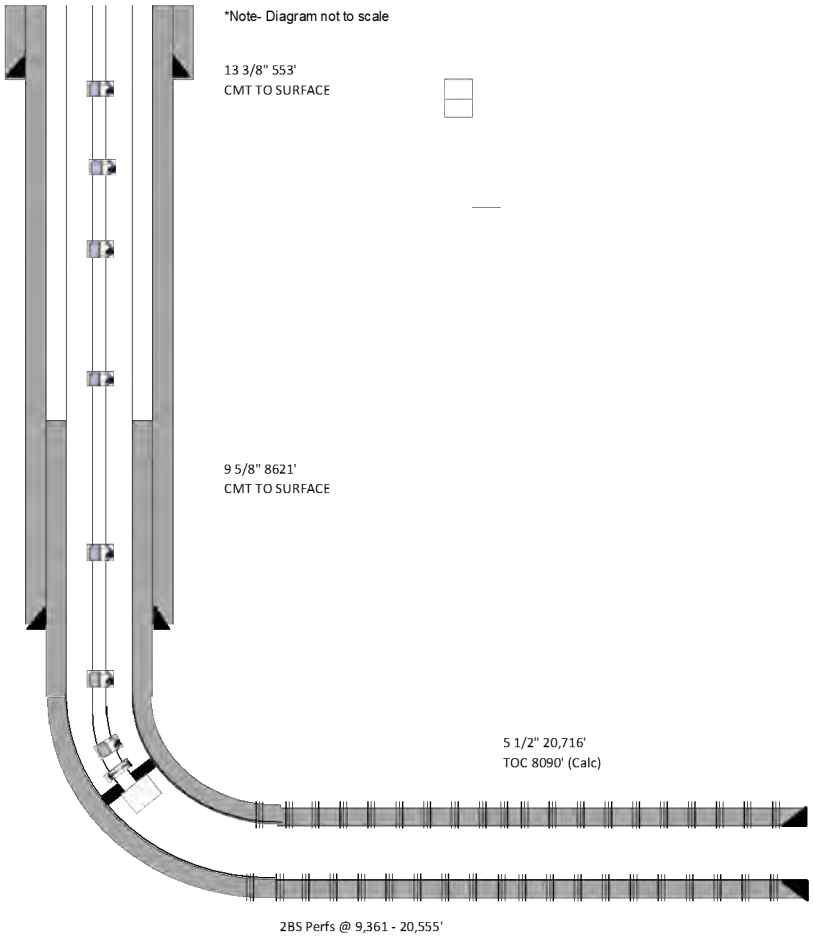
OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: Corral Canyon 36-25 Fed Com 21H 30-015-44631

WELL LOCATION: 381 FNL, 1493 FWL | C | 1 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 650 sx. ***or*** _____ ft^3

Top of Cement: SURFACE Method Determined: Circ

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 3138 sx. ***or*** _____ ft^3

Top of Cement: SURFACE Method Determined: Circ

Production Casing

Hole Size: 8.5" Casing Size: 5.5"

Cemented with: 2474 sx. ***or*** _____ ft^3

Top of Cement: 8090' Method Determined: CBL

Total Depth: 20726' MD / 9101' TVD

Injection Interval

9361' MD / 9054.5' TVD feet to 20555' MD / 9100.2' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: _____

Type of Packer: AX1S

Packer Setting Depth: 8964' MD / 8780' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes X_____No

   If no, for what purpose was the well originally drilled? _____
   PRODUCTION

2. Name of the Injection Formation: SECOND BONE SPRING SAND

3. Name of Field or Pool (if applicable): PIERCE CROSSING; BONE SPRING, EAST

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____
   NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
   OVERLYING: FIRST BONE SPRING SAND 7900' TVD

   UNDERLYING: THIRD BONE SPRING SAND 9900' TVD

Side 1

INJECTION WELL DATA SHEET

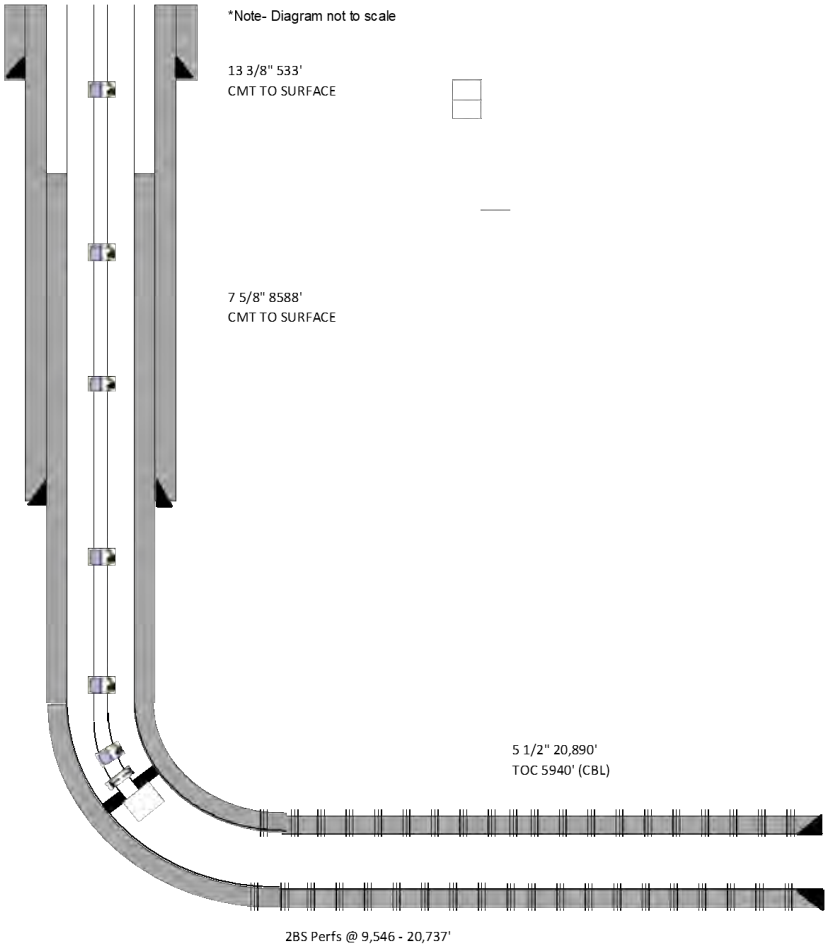
OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: Corral Canyon 36-25 Fed Com 22H 30-015-44632

WELL LOCATION: 381 FNL, 1528 FWL | C | 1 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 650 sx. ***or*** _____ ft^3

Top of Cement: SURFACE Method Determined: Circ

Intermediate Casing

Hole Size: 9.875" Casing Size: 7.625"

Cemented with: 2149 sx. ***or*** _____ ft^3

Top of Cement: SURFACE Method Determined: Circ

Production Casing

Hole Size: 6.75" Casing Size: 5.5"

Cemented with: 775 sx. ***or*** _____ ft^3

Top of Cement: 5940' Method Determined: CBL

Total Depth: 20880' MD / 9118.1' TVD

Injection Interval

9546' MD / 9102.2' TVD feet to 20737' MD / 9126.9' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: _____

Type of Packer: AX1S

Packer Setting Depth: 8924' MD / 8843.4' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes X_____No

   If no, for what purpose was the well originally drilled? _____
   PRODUCTION

2. Name of the Injection Formation: SECOND BONE SPRING SAND

3. Name of Field or Pool (if applicable): PIERCE CROSSING; BONE SPRING, EAST

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____
   NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
   OVERLYING: FIRST BONE SPRING SAND 7900' TVD

   UNDERLYING: THIRD BONE SPRING SAND 9900' TVD

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

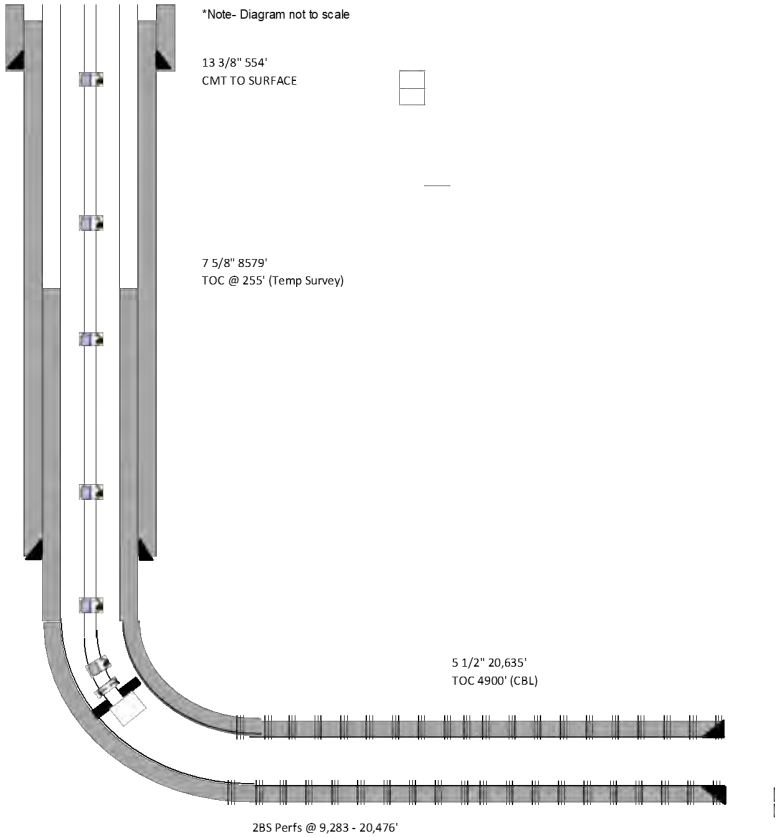
WELL NAME & NUMBER: Corral Canyon 36-25 Fed Com 23H 30-015-44633

WELL LOCATION: 381 FNL, 1563 FWL | C | 1 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

Proposed Diagram:



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 685 sx. ***or*** _____ ft^3

Top of Cement: SURFACE Method Determined: Circ

Intermediate Casing

Hole Size: 9.875" Casing Size: 7.625"

Cemented with: 2149 sx. ***or*** _____ ft^3

Top of Cement: 255' Method Determined: Temp Survey

Production Casing

Hole Size: 6.75" Casing Size: 5.5"

Cemented with: 923 sx. ***or*** _____ ft^3

Top of Cement: 4900' Method Determined: CBL

Total Depth: 20675' MD / 9138' TVD

Injection Interval

9283' MD / 9066.1' TVD feet to 20476' MD / 9136.8' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: _____

Type of Packer: AX1S

Packer Setting Depth: 8750' MD / 8612.3' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes X_____No

   If no, for what purpose was the well originally drilled? _____
   PRODUCTION

2. Name of the Injection Formation: SECOND BONE SPRING SAND

3. Name of Field or Pool (if applicable): PIERCE CROSSING; BONE SPRING, EAST

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____
   NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
   OVERLYING: FIRST BONE SPRING SAND 7900' TVD

   UNDERLYING: THIRD BONE SPRING SAND 9900' TVD

Side 1

INJECTION WELL DATA SHEET

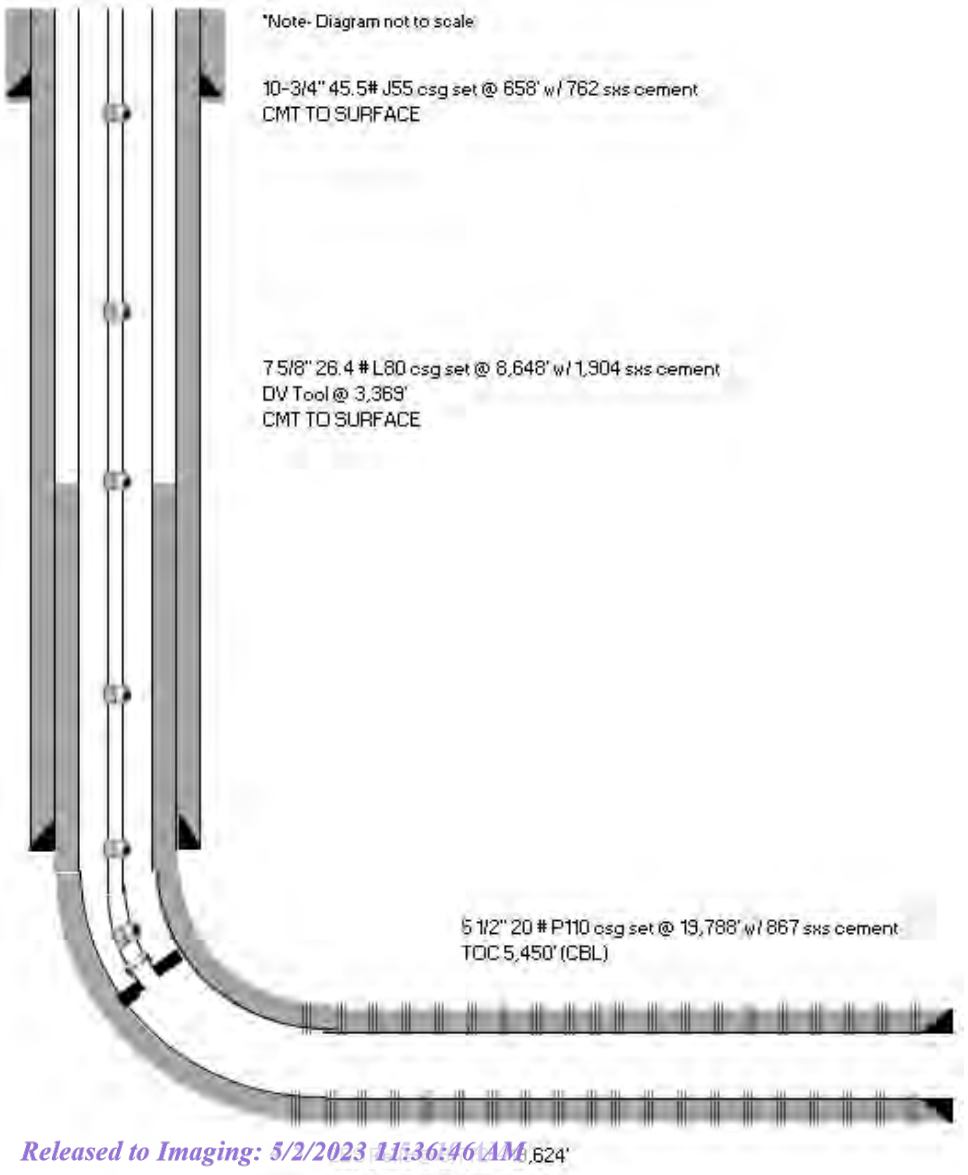
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Canyon 36 25 Fed Com 024H 30-015-44634

WELL LOCATION: 940 FNL, 1,283' FEL | A | 01 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 762 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,904 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 867 sx. ***or*** _____ ft^3

Top of Cement: 5,450 Method Determined: CBL

Total Depth: 19,788' MD/9,156' TVD

Injection Interval

9,772' MD/9,147' TVD feet to 19,624' MD/9,156' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,989' MD/8,869' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

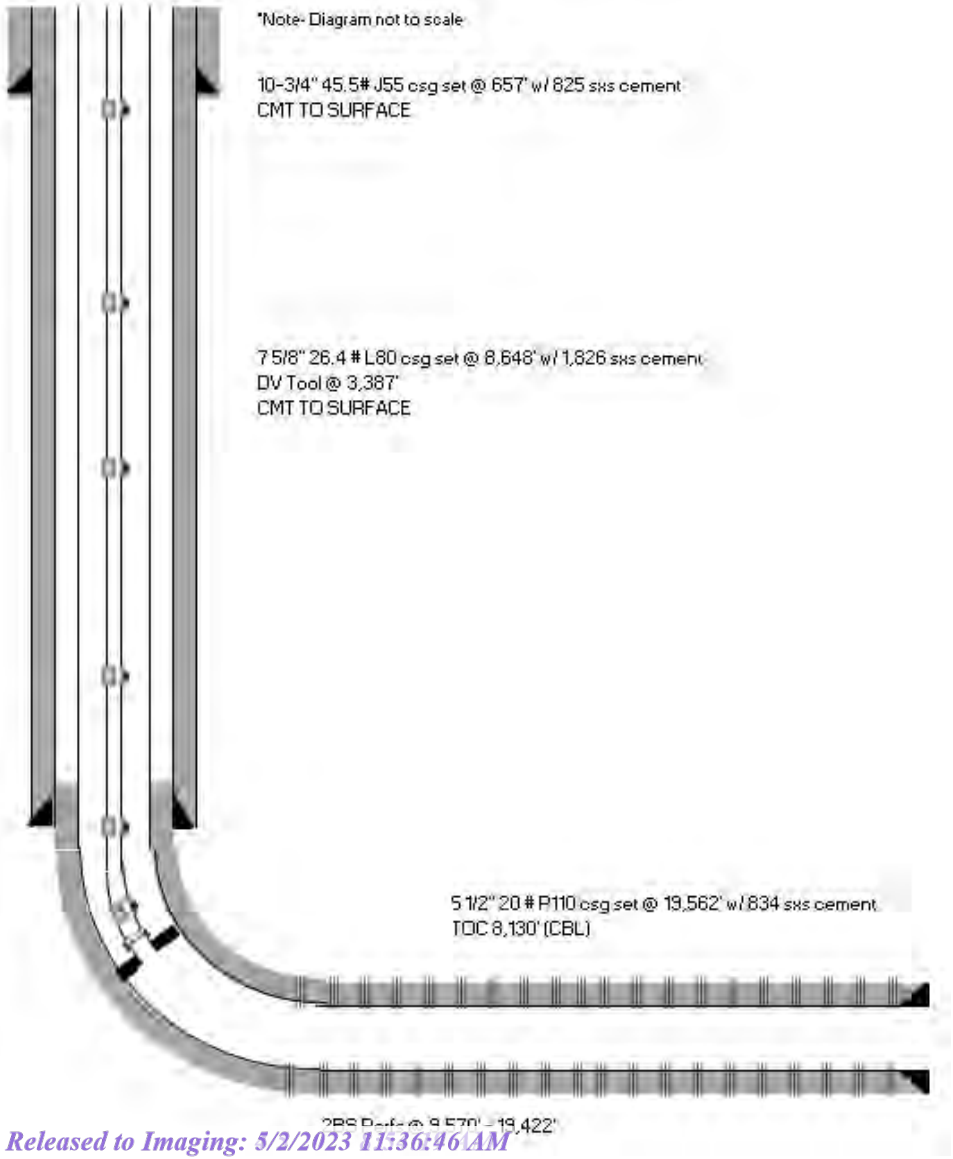
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Canyon 36 25 Fed Com 025H 30-015-44635

WELL LOCATION: 940' FNL, 1,248' FEL | A | 01 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 825 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,826 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 834 sx. ***or*** _____ ft^3

Top of Cement: 8,130' Method Determined: CBL

Total Depth: 19,562' MD/9,197' TVD

Injection Interval

9,570' MD/9,150' TVD feet to 19,422' MD/9,197' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,908' MD/8,835' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

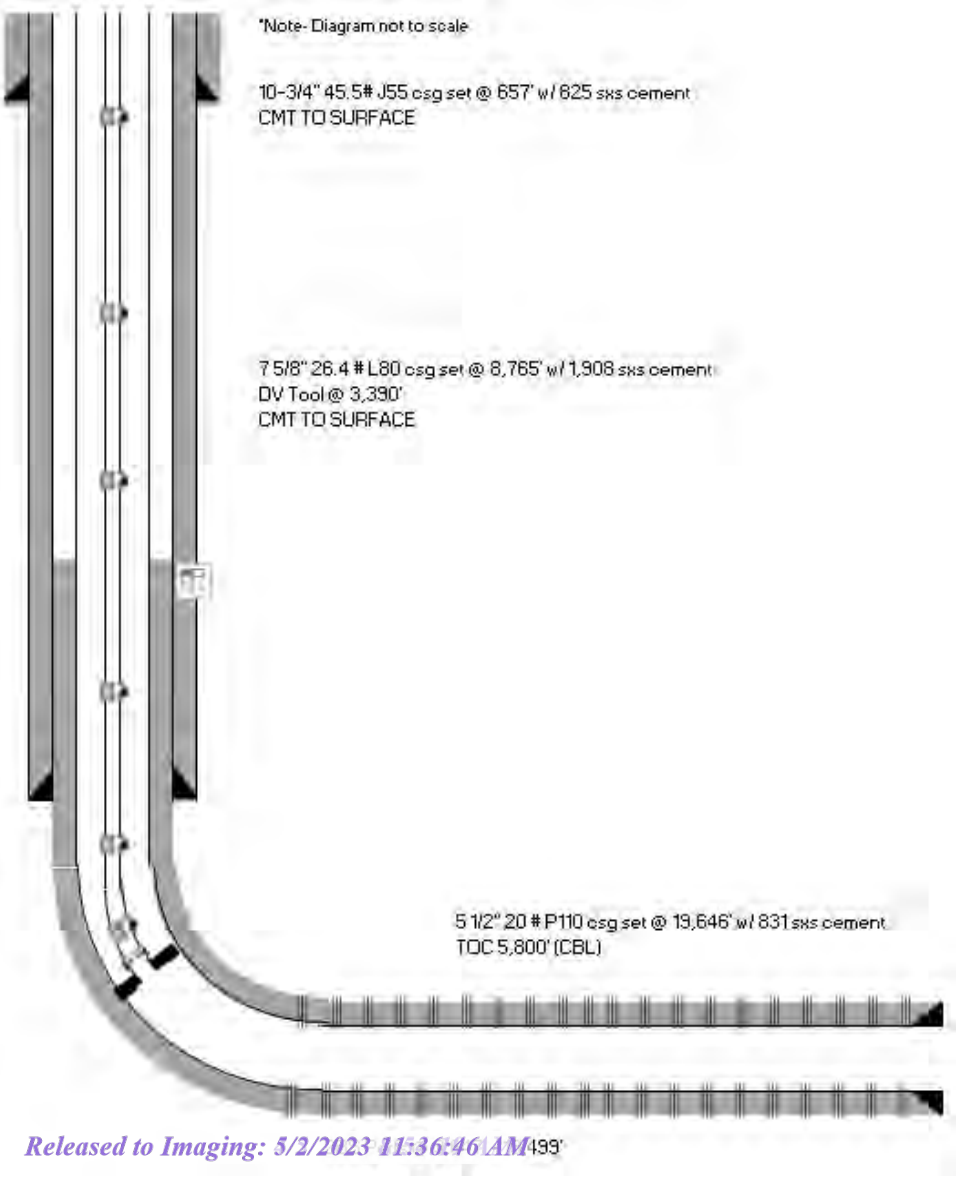
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Canyon 36 25 Fed Com 026H 30-015-44636

WELL LOCATION: 940 FNL, 1,213 FEL | A | 01 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 825 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,908 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 831 sx. ***or*** _____ ft^3

Top of Cement: 5,800' Method Determined: CBL

Total Depth: 19,646' MD/9,188' TVD

Injection Interval

9,647' MD/9,167' TVD feet to 19,499' MD/9,164' TVD

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 9,005' MD/8,871' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

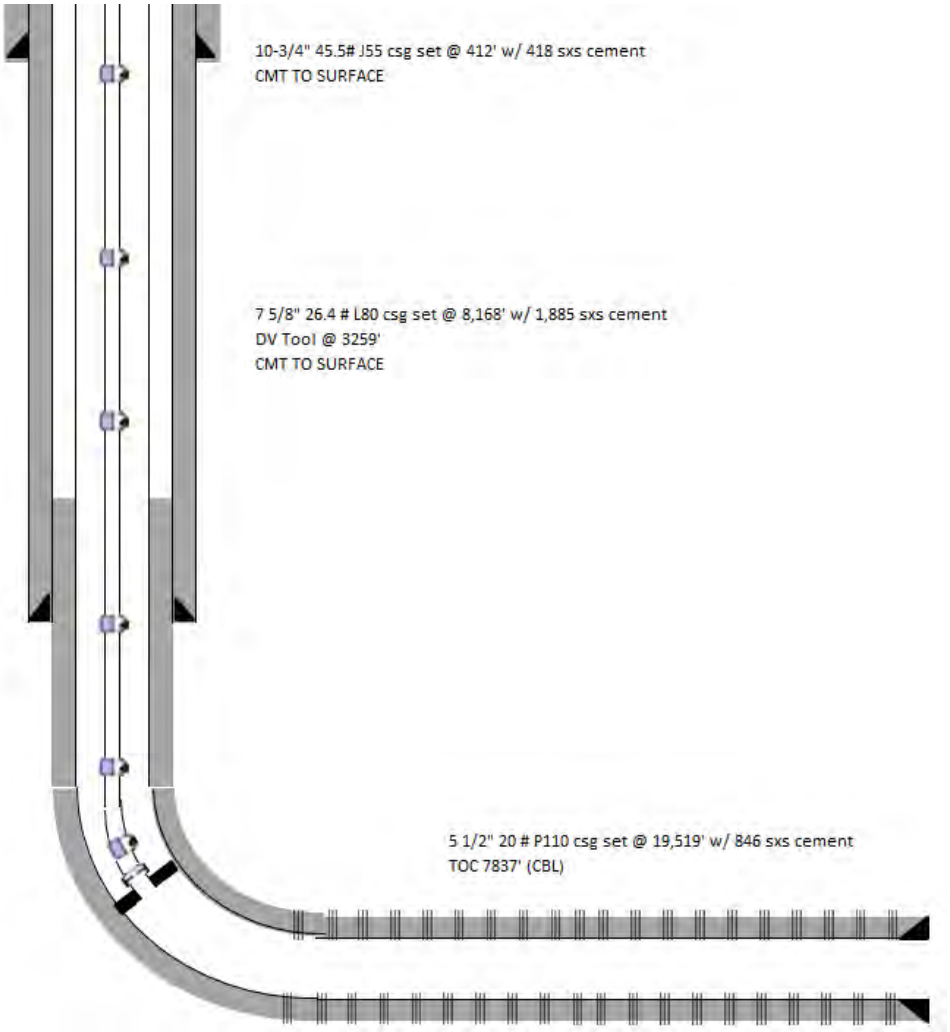
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 21H 30-015-44702

WELL LOCATION: 694 FNL, 1248 FWL | D | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 418 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,885 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 846 sx. ***or*** _____ ft^3

Top of Cement: 7837' Method Determined: CBL

Total Depth: 19,519' MD/8,927' TVD

Injection Interval

9,509' MD/8879' TVD - perforated feet to 19,389' MD/8,925' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,594' MD/8,530' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

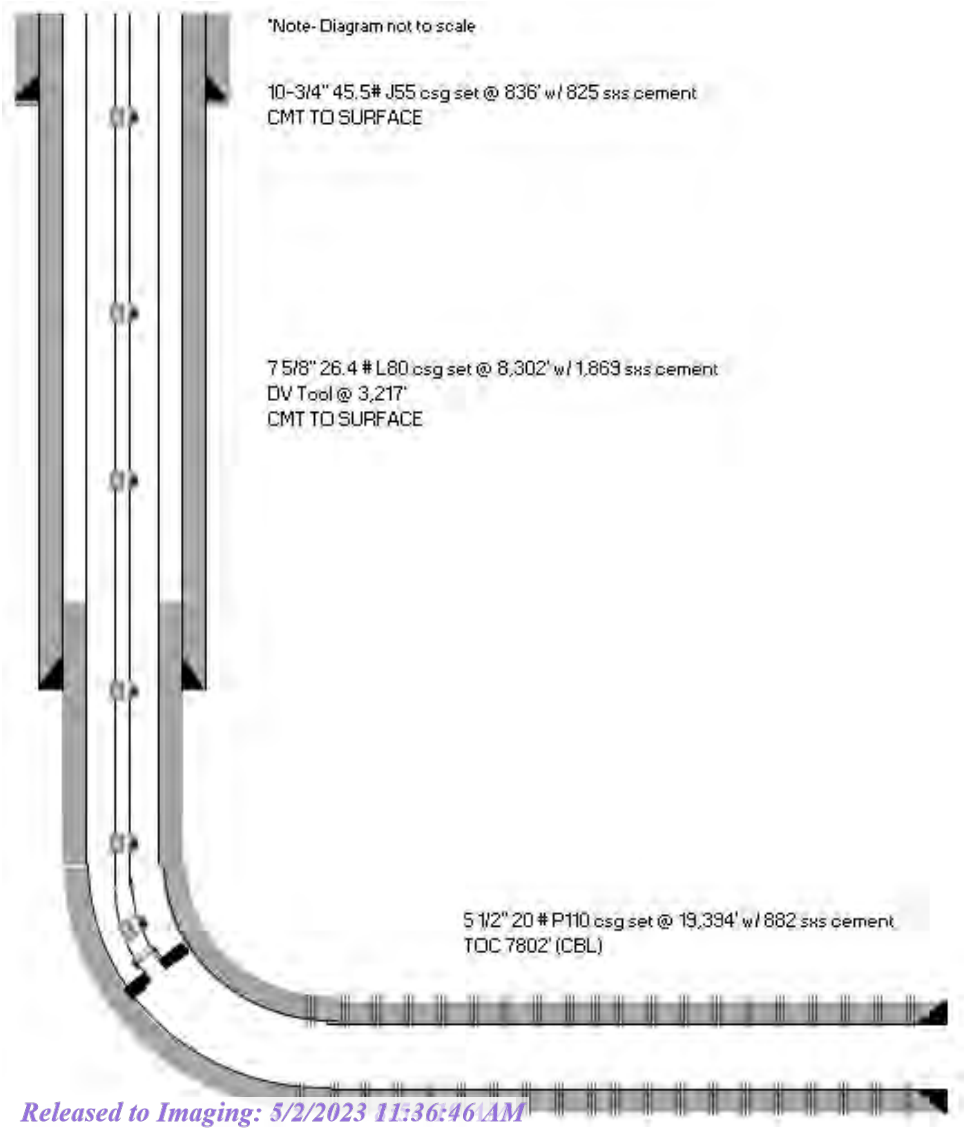
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 22H

WELL LOCATION: 694 FNL, 1278 FEL | D | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 836 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,869 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 882 sx. ***or*** _____ ft^3

Top of Cement: 7802 Method Determined: CBL

Total Depth: 19,394' MD/8,930' TVD

Injection Interval

9,373' MD/8,920' TVD - perforated feet to 19,248 MD/8,926' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,823' MD/8,768' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

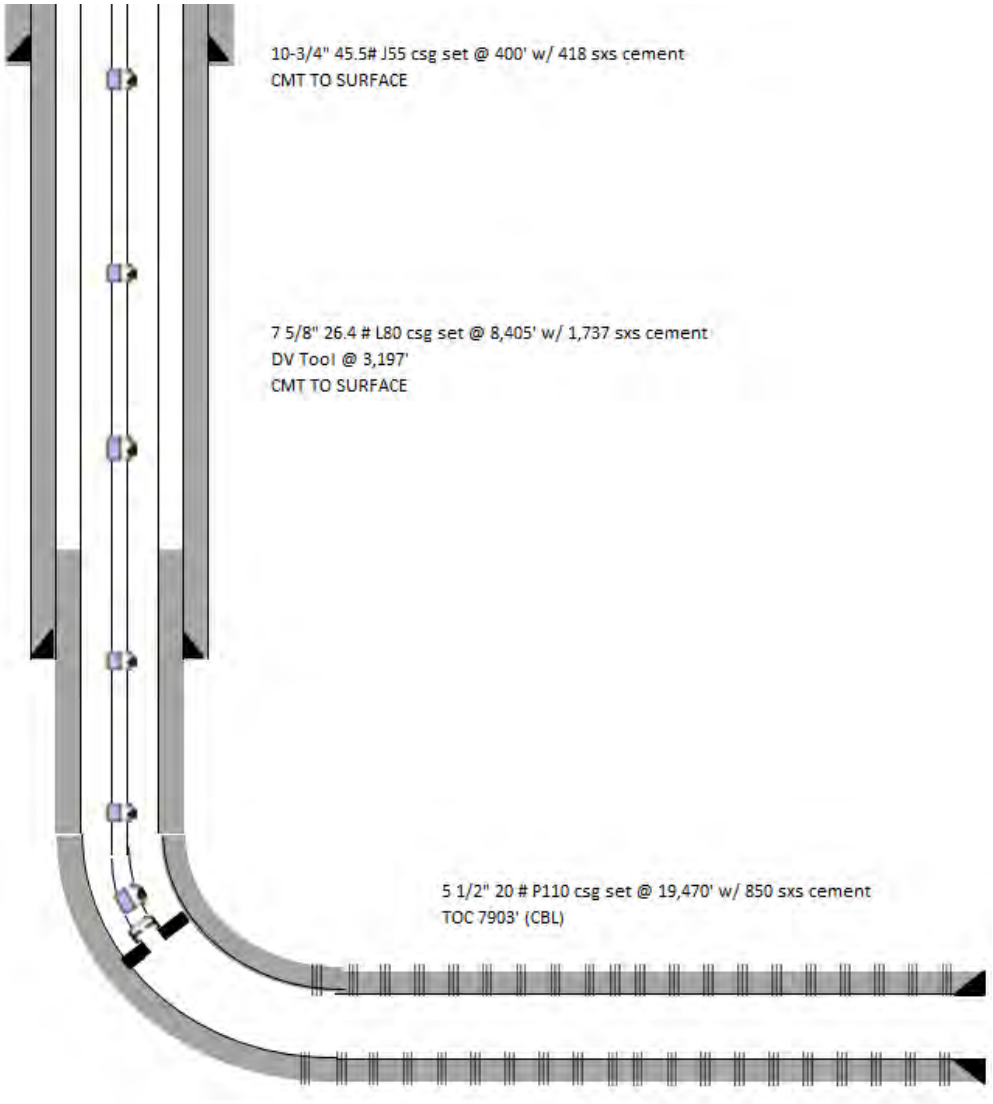
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 23H 30-015-44704

WELL LOCATION: 694 FNL, 1308 FWL | D | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 418 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,737 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 850 sx. ***or*** _____ ft^3

Top of Cement: 7903' Method Determined: CBL

Total Depth: 19,470' MD/8,949' TVD

Injection Interval

9,463' MD/8,902' TVD - perforated feet to 19,338 MD/8,949' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,555' MD/8,461' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

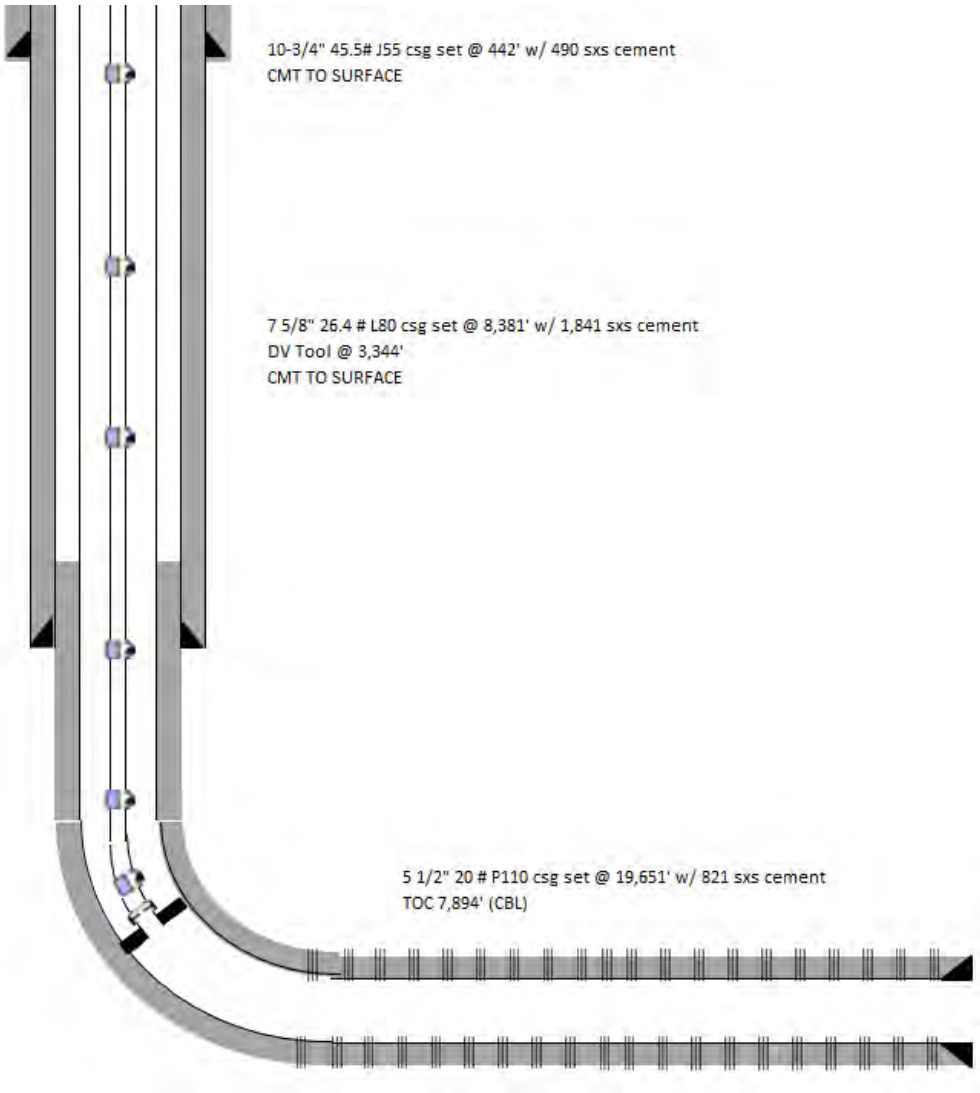
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 24H 30-015-44705

WELL LOCATION: 314 FNL, 1307' FEL | A | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 490 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,841 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 821 sx. ***or*** _____ ft^3

Top of Cement: 7894' Method Determined: CBL

Total Depth: 19,651' MD/9,055' TVD

Injection Interval

9,643' MD/8,980' TVD - perforated feet to 19,519' MD/9,052' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,737' MD/8,659' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

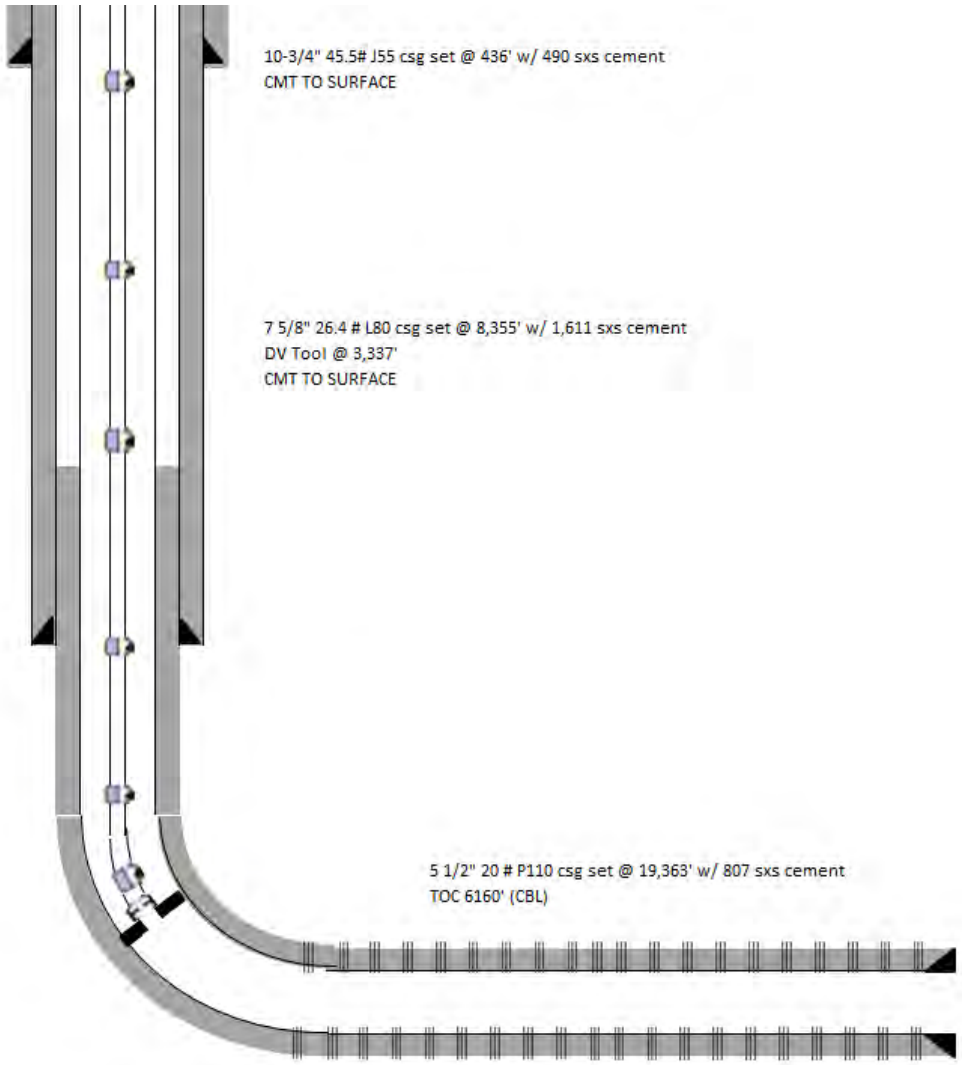
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 25H 30-015-44683

WELL LOCATION: 314 FNL, 1277 FEL | A | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 490 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,611 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 807 sx. ***or*** _____ ft^3

Top of Cement: 6160' Method Determined: CBL

Total Depth: 19,363' MD/9084' TVD

Injection Interval

9,358' MD/9,006' TVD - perforated feet to 19,234' MD/9,082' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,755' MD/8,730' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Side 1

INJECTION WELL DATA SHEET

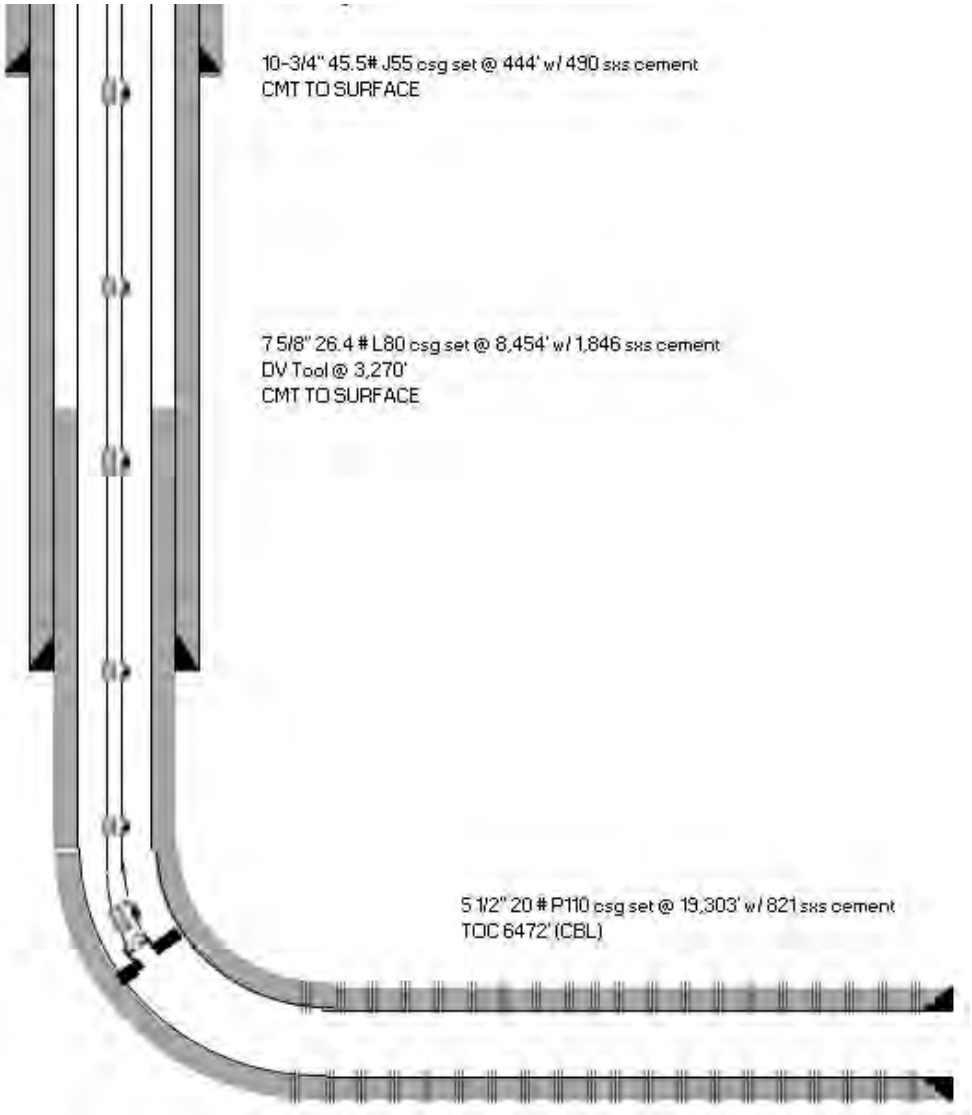
OPERATOR: OXY USA INC.

WELL NAME & NUMBER: Corral Fly 35-26 Fed Com 26H 30-015-44684

WELL LOCATION: 314 FNL, 1247 FEL | A | 02 | 25S | 29E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14-3/4" Casing Size: 10-3/4"

Cemented with: 490 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Intermediate Casing

Hole Size: 9-7/8" Casing Size: 7-5/8"

Cemented with: 1,846 sx. ***or*** _____ ft^3

Top of Cement: surface Method Determined: circ

Production Casing

Hole Size: 6-3/4" Casing Size: 5-1/2"

Cemented with: 821 sx. ***or*** _____ ft^3

Top of Cement: 6472' Method Determined: CBL

Total Depth: 19,303' MD/9,050' TVD

Injection Interval

9,243' MD/8,966' TVD - perforated feet to 19,169 MD/9,048' TVD - perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# L80 Lining Material: unlined

Type of Packer: AS1-X 5.5"

Packer Setting Depth: 8,604 MD/8,528' TVD

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

Additional Data

1. Is this a new well drilled for injection? _____Yes x_____No

   If no, for what purpose was the well originally drilled? Producer - Oil

2. Name of the Injection Formation: SECOND BONE SPRING

3. Name of Field or Pool (if applicable): Pierce Crossing Bone Spring East

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

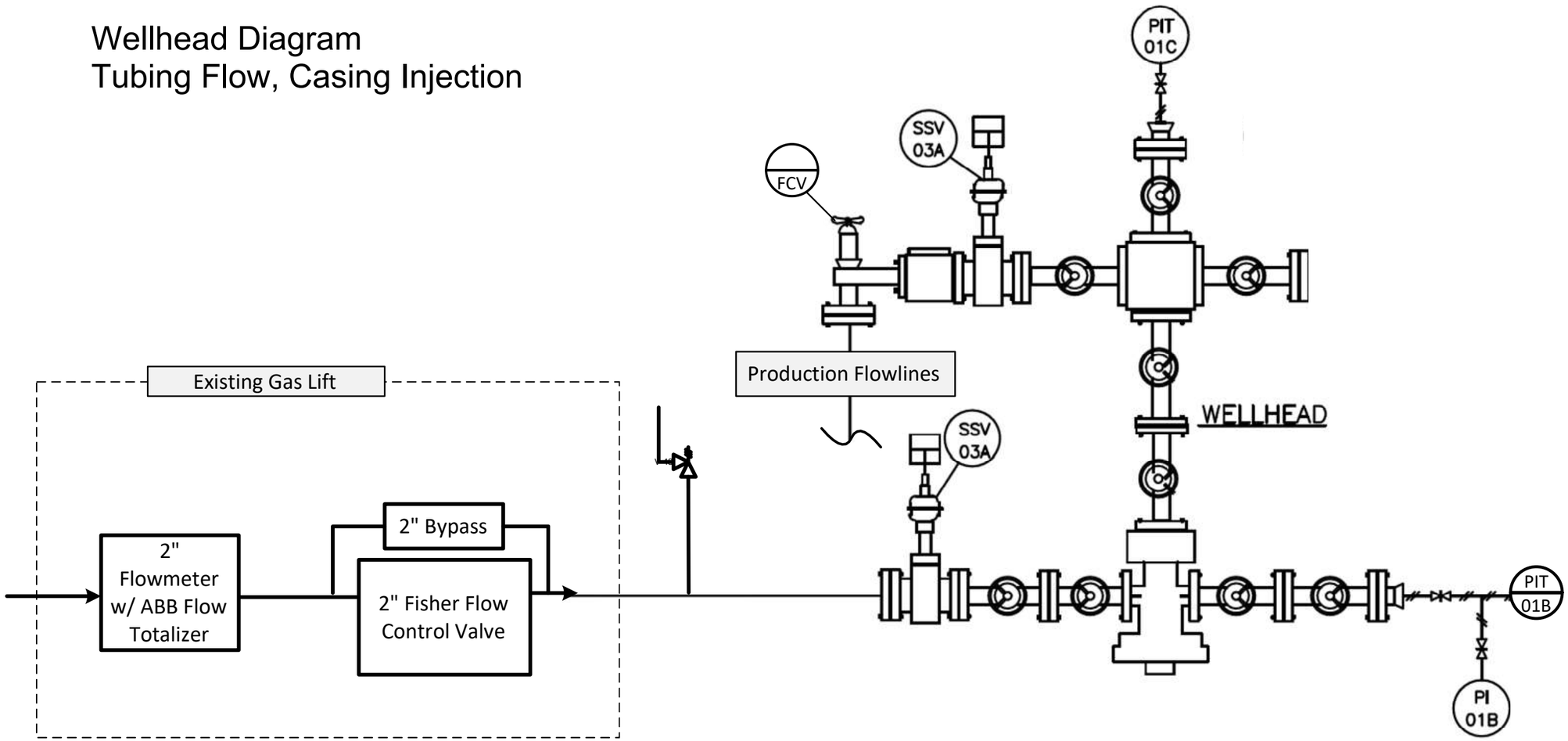
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying zone - 1st Bone Spring Sand with top TVD of 7,967', Underlying zone - 3rd Bone Spring Sand w/ top TVD of 9,923'

Max Allowable Surface Pressure (MASP) Table
4/2/23 Update

	Column	1	2	3	4	5
	Calculation					
API10	**Well Name**	**Proposed Max Allowable Surface Pressure (MASP) (PSI)**	**Current Average Surface Pressure (PSI)**	**Max Achievable Surface Pressure, Current Infrastructure (PSI)**	**Proposed Average Injection Rate (MMSCFPD)**	**Proposed Max Injection Rate (MMSCFPD)**
30-015-44631	Corral Canyon 36-25 Fed Com 21H	1,300	787	1,300	3	4
30-015-44632	Corral Canyon 36-25 Fed Com 22H	1,300	797	1,300	3	4
30-015-44633	Corral Canyon 36-25 Fed Com 23H	1,300	981	1,300	3	4
30-015-44634	Corral Canyon 36-25 Fed Com 24H	1,300	781	1,300	3	4
30-015-44635	Corral Canyon 36-25 Fed Com 25H	1,300	793	1,300	3	4
30-015-44636	Corral Canyon 36-25 Fed Com 26H	1,300	820	1,300	3	4
30-015-44702	Corral Fly 35-26 Fed Com 21H	1,300	675	1,300	3	4
30-015-44703	Corral Fly 35-26 Fed Com 22H	1,300	835	1,300	3	4
30-015-44704	Corral Fly 35-26 Fed Com 23H	1,300	695	1,300	3	4
30-015-44705	Corral Fly 35-26 Fed Com 24H	1,300	800	1,300	3	4
30-015-44683	Corral Fly 35-26 Fed Com 25H	1,300	745	1,300	3	4
30-015-44684	Corral Fly 35-26 Fed Com 26H	1,300	730	1,300	3	4

	Column	6	7	8	9	10	11	12	13	14	15
API10	Calculation				= (1+6*7) / 8		= 1/10				= (1+12*13) / (12/14)
30-025-44934	**Well Name**	**Burst Calculation Depth (FT TVD)**	**Brine Pressure Gradient (PSI/FT)**	**Casing or Liner Burst (PSI)**	**MASP + Reservoir Brine Hydrostatic as a percentage of Casing or Liner Burst Pressure (%)**	**Top Perforation Depth (FT TVD)**	**MASP Gradient (PSI/FT)**	**Top Perforation Depth (FT TVD)**	**Gas Pressure Gradient (PSI/FT)**	**Formation Parting Pressure Gradient (PSI/FT)**	**MASP + Gas Hydrostatic as a percentage of Formation Parting Pressure (%)**
30-015-44631	Corral Canyon 36-25 Fed Com 21H	9,055	0.468	12,640	44%	9,055	0.144	9,055	0.200	0.650	53%
30-015-44632	Corral Canyon 36-25 Fed Com 22H	9,102	0.468	12,640	44%	9,102	0.143	9,102	0.200	0.650	53%
30-015-44633	Corral Canyon 36-25 Fed Com 23H	9,066	0.468	12,640	44%	9,066	0.143	9,066	0.200	0.650	53%
30-015-44634	Corral Canyon 36-25 Fed Com 24H	9,147	0.468	12,640	44%	9,147	0.142	9,147	0.200	0.650	53%
30-015-44635	Corral Canyon 36-25 Fed Com 25H	9,150	0.468	12,640	44%	9,150	0.142	9,150	0.200	0.650	53%
30-015-44636	Corral Canyon 36-25 Fed Com 26H	9,171	0.468	12,640	44%	9,171	0.142	9,171	0.200	0.650	53%
30-015-44702	Corral Fly 35-26 Fed Com 21H	9,509	0.468	12,640	45%	9,509	0.137	9,509	0.200	0.650	52%
30-015-44703	Corral Fly 35-26 Fed Com 22H	9,372	0.468	12,640	45%	9,372	0.139	9,372	0.200	0.650	52%
30-015-44704	Corral Fly 35-26 Fed Com 23H	9,462	0.468	12,640	45%	9,462	0.137	9,462	0.200	0.650	52%
30-015-44705	Corral Fly 35-26 Fed Com 24H	9,643	0.468	12,640	46%	9,643	0.135	9,643	0.200	0.650	52%
30-015-44683	Corral Fly 35-26 Fed Com 25H	9,358	0.468	12,640	45%	9,358	0.139	9,358	0.200	0.650	52%
30-015-44684	Corral Fly 35-26 Fed Com 26H	9,243	0.468	12,640	45%	9,243	0.141	9,243	0.200	0.650	52%

Wellhead Diagram
Tubing Flow, Casing Injection



KEY
SSV – Safety Shutdown Valve
PI – Pressure Indicator
PIT – Pressure Indicating Transmitter
FCV- Flow Control Valve

Mechanical Integrity Test (MIT) Summary Table

API10	Well Name	MIT #1	
		Date	Surface Pressure
30-015-44631	Corral Canyon 36-25 Fed Com 21H	4/30/2018	9800 psi
30-015-44632	Corral Canyon 36-25 Fed Com 22H	4/30/2018	9800 psi
30-015-44633	Corral Canyon 36-25 Fed Com 23H	5/6/2018	9800 psi
30-015-44634	Corral Canyon 36-25 Fed Com 24H	5/7/2018	9800 psi
30-015-44635	Corral Canyon 36-25 Fed Com 25H	5/4/2018	9800 psi
30-015-44636	Corral Canyon 36-25 Fed Com 26H	5/22/2018	8000 psi
30-015-44702	Corral Fly 35-26 Fed Com 21H	6/18/2018	9800 psi
30-015-44703	Corral Fly 35-26 Fed Com 22H	6/18/2018	9800 psi
30-015-44704	Corral Fly 35-26 Fed Com 23H	6/23/2018	9800 psi
30-015-44705	Corral Fly 35-26 Fed Com 24H	7/3/2018	9800 psi
30-015-44683	Corral Fly 35-26 Fed Com 25H	6/26/2018	9800 psi
30-015-44684	Corral Fly 35-26 Fed Com 26H	6/26/2018	9800 psi

Corral Fly and Corral Canyon Gas Source Well List

Note- Any additional wells drilled, completed, and added to this gas gathering system after the application filing date will be included in the gas source well list.

API10	Well Name	CTB
30-015-28716	Corral 11-1	CORRAL FLY 11 CTB
30-015-37296	Challenger 1 state 2H	CORRAL FLY 35-26 CTB
30-015-44507	CF02-01 021H	CORRAL FLY 35-26 CTB
30-015-44508	CF02-01 022H	CORRAL FLY 35-26 CTB
30-015-44509	CF02-01 023H	CORRAL FLY 35-26 CTB
30-015-44510	CF02-01 024H	CORRAL FLY 35-26 CTB
30-015-44512	CF02-01 025H	CORRAL FLY 35-26 CTB
30-015-44513	CF02-01 026H	CORRAL FLY 35-26 CTB
30-015-44585	CF02-01 031H	CORRAL FLY 35-26 CTB
30-015-44586	CF02-01 032H	CORRAL FLY 35-26 CTB
30-015-44587	CF02-01 033H	CORRAL FLY 35-26 CTB
30-015-44588	CF02-01 034H	CORRAL FLY 35-26 CTB
30-015-44589	CF02-01 035H	CORRAL FLY 35-26 CTB
30-015-44590	CF02-01 036H	CORRAL FLY 35-26 CTB
30-015-44631	CCFC-021H	CORRAL CANYON 36-25 CTB
30-015-44632	CCFC-022H	CORRAL CANYON 36-25 CTB
30-015-44633	CCFC-023H	CORRAL CANYON 36-25 CTB
30-015-44634	CCFC-024H	CORRAL CANYON 36-25 CTB
30-015-44635	CCFC-025H	CORRAL CANYON 36-25 CTB
30-015-44636	CCFC-026H	CORRAL CANYON 36-25 CTB
30-015-44640	CCFC-031H	CORRAL CANYON 36-25 CTB
30-015-44642	CCFC-032H	CORRAL CANYON 36-25 CTB
30-015-44643	CCFC-033H	CORRAL CANYON 36-25 CTB
30-015-44644	CCFC-034H	CORRAL CANYON 36-25 CTB
30-015-44645	CCFC-035H	CORRAL CANYON 36-25 CTB
30-015-44646	CCFC-036H	CORRAL CANYON 36-25 CTB
30-015-44683	CF35-26 025H	CORRAL FLY 35-26 CTB
30-015-44684	CF35-26 026H	CORRAL FLY 35-26 CTB
30-015-44702	CF35-26 021H	CORRAL FLY 35-26 CTB
30-015-44703	CF35-26 022H	CORRAL FLY 35-26 CTB
30-015-44704	CF35-26 023H	CORRAL FLY 35-26 CTB
30-015-44705	CF35-26 024H	CORRAL FLY 35-26 CTB
30-015-44726	CF35-26 031H	CORRAL FLY 35-26 CTB
30-015-44727	CF35-26 032H	CORRAL FLY 35-26 CTB
30-015-44728	CF35-26 033H	CORRAL FLY 35-26 CTB
30-015-44729	CF35-26 034H	CORRAL FLY 35-26 CTB
30-015-44730	CF35-26 035H	CORRAL FLY 35-26 CTB
30-015-44731	CF35-26 036H	CORRAL FLY 35-26 CTB

30-015-47201	CG1213-034H	CORRAL GORGE 12-13 CTB
30-015-47205	CG1213-035H	CORRAL GORGE 12-13 CTB
30-015-47206	CG1213-036H	CORRAL GORGE 12-13 CTB
30-015-47207	CG1213-037H	CORRAL GORGE 12-13 CTB
30-015-47208	CG1213-038H	CORRAL GORGE 12-13 CTB
30-015-47212	CG1213-031H	CORRAL GORGE 12-13 CTB
30-015-47214	CG1213-032H	CORRAL GORGE 12-13 CTB
30-015-47215	CG1213-311H	CORRAL GORGE 12-13 CTB

Corral Canyon and Corral Fly Analysis Summary 4/2/23

- The primary, third-party gas takeaway is Enterprise (ETC).
- Central Tank Batteries (CTBs)
  - All producing wells flow to the Corral Canyon 36-25 CTB, Corral Gorge CTB, or the Corral Fly 35-26 CTB.
  - See Gas Source Well List for list of wells.
  - All low-pressure gas lines are combined downstream of the CTBs.
- Centralized Gas Lift Compressors (CGLs)
  - All low-pressure gas lines connect to the Corral 1 CGL, Corral 2 North CGL, Corral 2 South CGL.
  - CGLs increase pressure from ~70 psig to ~1250 psig.
  - All high-pressure gas lines are combined downstream of the CGLs.
- Gas analysis is provided for:
  - Injection gas
  - Second Bone Spring production (target storage zone)

Natural Gas Analysis Report
GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	CORRAL FLY 2 1 NORTH CGL
WELL NAME/EU#/FMP#	CORRAL FLY 2 1 NORTH CGL DEHY INLET/
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	11-01-2022
Air temperature	71
Flow Rate (MCF/Day)	
Heat Tracing	Heated Hose & Gasifier
Type of Sample	spot-cylinder
Sampling Method	fill and empty
Operator	AKM MEASUREMENT
State	New Mexico
Region Name	Permian EOR
API#	
Feild	
Sampling point	
Method Name	C9
Injection Date	2022-11-01 16:31:02
Report Date	2022-11-01 16:34:28
EZReporter Configuration File	6-17-2022 OXY GPA C9+ H2S #2.cfgx
Source Data File	51f72916-da03-449e-9d57-187995762dc8
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	INFICON Fusion Connector

Component Results

Component Name	Peak Area	Raw Amount	Response Factor	Norm Mole%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	19102.2	1.0777	0.00005642	1.0806	0.0	0.01045	0.119	
Methane	1049239.2	76.6683	0.00007307	76.8762	778.2	0.42582	13.078	
CO2	2996.3	0.1414	0.00004718	0.1418	0.0	0.00215	0.024	
Ethane	271731.1	12.3485	0.00004544	12.3820	219.6	0.12855	3.323	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	187331.8	6.0890	0.00003250	6.1056	154.0	0.09296	1.688	
iso-butane	69167.9	0.7656	0.00001107	0.7676	25.0	0.01540	0.252	
n-Butane	163533.9	1.7926	0.00001096	1.7975	58.8	0.03607	0.569	
iso-pentane	33495.6	0.3232	0.00000965	0.3241	13.0	0.00807	0.119	
n-Pentane	36504.4	0.3427	0.00000939	0.3436	13.8	0.00856	0.125	
hexanes	15963.0	0.1192	0.00000747	0.1195	5.7	0.00356	0.049	
heptanes	8559.0	0.0513	0.00000600	0.0515	2.8	0.00178	0.024	
octanes	1966.0	0.0100	0.00000507	0.0100	0.6	0.00039	0.005	
nonanes+	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Total:		99.7294		100.0000	1271.6	0.73377	19.375	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.7294		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	0.0		
Flowing Pressure (psia)	1224.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1271.6	1249.5	
Gross Heating Value (BTU / Real cu.ft.)	1276.3	1254.6	
Relative Density (G), Real	0.7362	0.7345	

			Lower Limit	Upper Limit	Status	
Total un-normalized amount		99.7294	97.0000	103.0000	Pass	

Natural Gas Analysis Report
GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	CORRAL FLY 35-26 FED COM
WELL NAME/EU#/FMP#	CORRAL FLY 35-26 FED COM 21H GL/ 18221I
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	9-26-2022
Air temperature	77
Flow Rate (MCF/Day)	
Heat Tracing	Heated Hose & Gasifier
Type of Sample	spot-cylinder
Sampling Method	fill and empty
Operator	AKM MEASUREMENT
State	New Mexico
Region Name	Permian EOR
API#	
Feild	
Sampling point	
Method Name	C9
Injection Date	2022-10-10 18:24:30
Report Date	2022-10-10 18:27:51
EZReporter Configuration File	6-17-2022 OXY GPA C9+ H2S #2.cfgx
Source Data File	78c58e42-07e3-468e-9059-12970924d9dd
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	INFICON Fusion Connector

Component Results

Component Name	Peak Area	Raw Amount	Response Factor	Norm Mole%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	17662.5	0.9948	0.00005632	0.9959	0.0	0.00963	0.110	
Methane	1060959.2	77.6830	0.00007322	77.7713	787.3	0.43078	13.228	
CO2	2287.6	0.1083	0.00004736	0.1085	0.0	0.00165	0.019	
Ethane	270649.9	12.3471	0.00004562	12.3611	219.3	0.12833	3.317	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	175606.6	5.7509	0.00003275	5.7574	145.2	0.08766	1.591	
iso-butane	61156.5	0.6792	0.00001111	0.6800	22.2	0.01365	0.223	
n-Butane	141612.4	1.5562	0.00001099	1.5580	50.9	0.03127	0.493	
iso-pentane	28066.4	0.2712	0.00000966	0.2715	10.9	0.00676	0.100	
n-Pentane	32224.9	0.3033	0.00000941	0.3036	12.2	0.00756	0.110	
hexanes	16802.0	0.1254	0.00000746	0.1255	6.0	0.00373	0.052	
heptanes	8982.0	0.0540	0.00000602	0.0541	3.0	0.00187	0.025	
octanes	2531.0	0.0128	0.00000505	0.0128	0.8	0.00050	0.007	
nonanes+	72.0	0.0003	0.00000463	0.0003	0.0	0.00001	0.000	
Total:		99.8864		100.0000	1257.7	0.72341	19.275	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.8864		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	101.0		
Flowing Pressure (psia)	1227.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1257.7	1235.9	
Gross Heating Value (BTU / Real cu.ft.)	1262.3	1240.8	
Relative Density (G), Real	0.7257	0.7242	

		Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.8864	97.0000	103.0000	Pass	

Corrosion Prevention Plan

Existing Corrosion Prevention Plan

- Produced gas is processed through a gas dehydration unit to remove water.
- 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 well.

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

- Fluid samples will be taken prior to injection to establish a baseline for 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.

NM GAS STORAGE OPERATIONAL PLAN

Operational Plan

WELLSITE CLGC

Oxy USA Inc. (Oxy) will monitor the following items on each Closed Loop Gas Capture (CLGC) well via SCADA system:

- Injection flow rate and volume
  - Instantaneous Rate
  - Total Injected by Day (volume)
- Tubing Pressure
- Casing Pressure
- Bradenhead Pressures
- Safety devices
  - Pressure kills have an automated kill sequence that is initiated by SCADA system readings.
  - Injection pressure kills on production stream for injection
  - Relief Valves for both production and gas storage/injection streams to prevent overpressure (not monitored via SCADA other than pressure trend)
  - Control of injection rate and pressures via control valve at each well injection stream
  - Control of production stream via automated choke valves to ensure controlled production and prevent over pressurization of flowline

CENTRAL TANK BATTERY (CTB)

Oxy will monitor the following items at each CTB via SCADA system:

- Production Rates
  - Oil
  - Gas
  - Water
- Safety devices
  - Flares at CTBs
  - Injection pressure kills on production/gas storage stream for injection
  - Emergency Shutdown (ESD) of wells that are local and remote for automatic shut downs to safe the system
  - Control of injection rate and pressures via control valve at each well injection stream

CENTRAL GAS LIFT (CGL) COMPRESSOR(S)

Oxy will monitor the following items on each Central Gas Lift (CGL) Compressor Station via SCADA system:

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

remote monitoring of valve position; but still monitored in some sense of the pressure trend for the station)

SUPERVISORY CONTROL AND DATA ACQUISTION (SCADA)

Oxy SCADA system consists of PLCs at each CTB, Wellsite, and Central Gas Lift compressor or station.

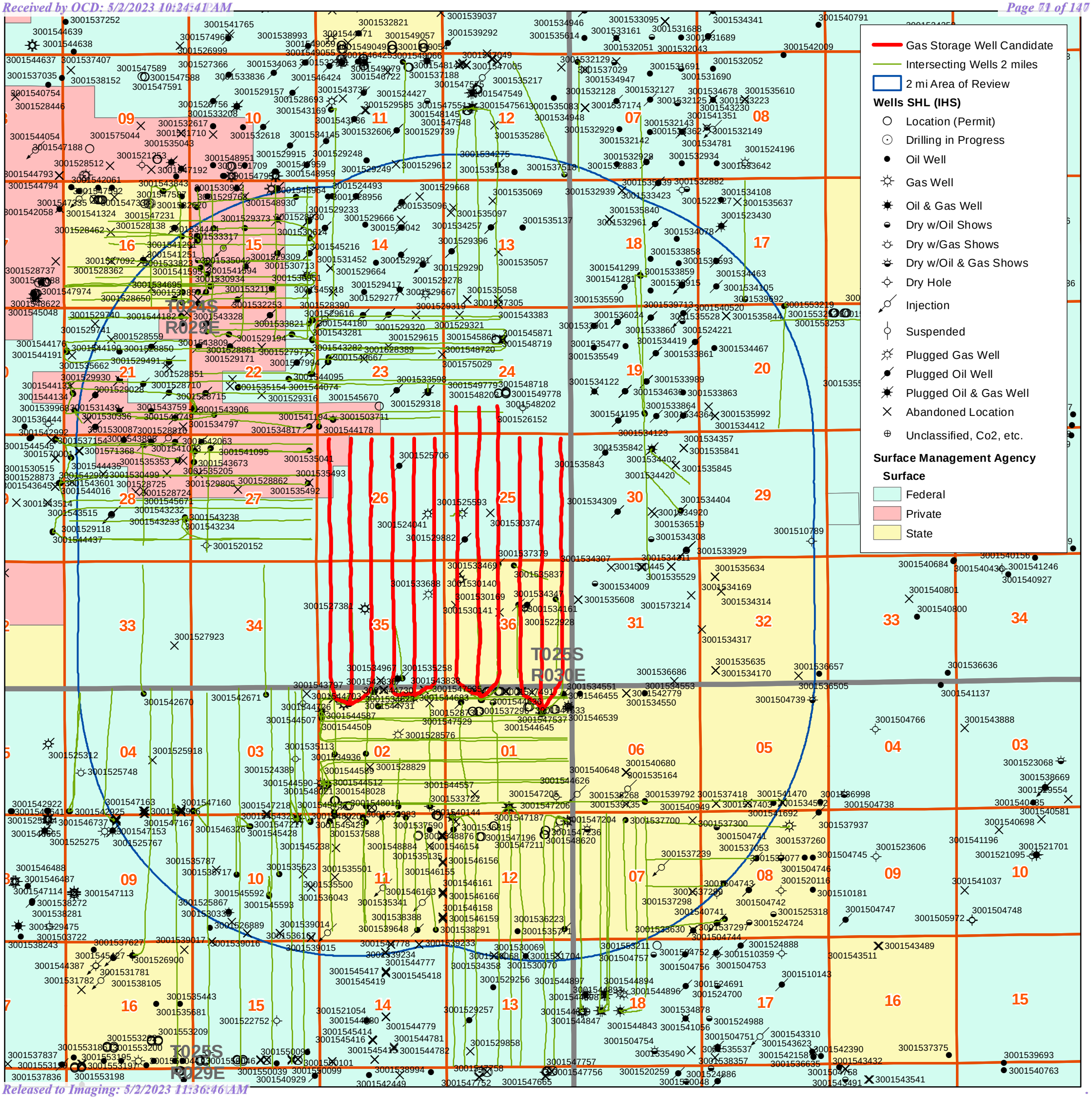
- The Programmable Logic Controller (PLCs) will take action immediately (within seconds or minutes) as programmed to automatically safe the system as required; for the system and certain device shut down(s).
- The High Alarms and High-High Alarms will be logged and registered in the SCADA system. Also the call center will take the High Alarm and make the physical phone call notification to the production techs to acknowledge the alarm & take action.

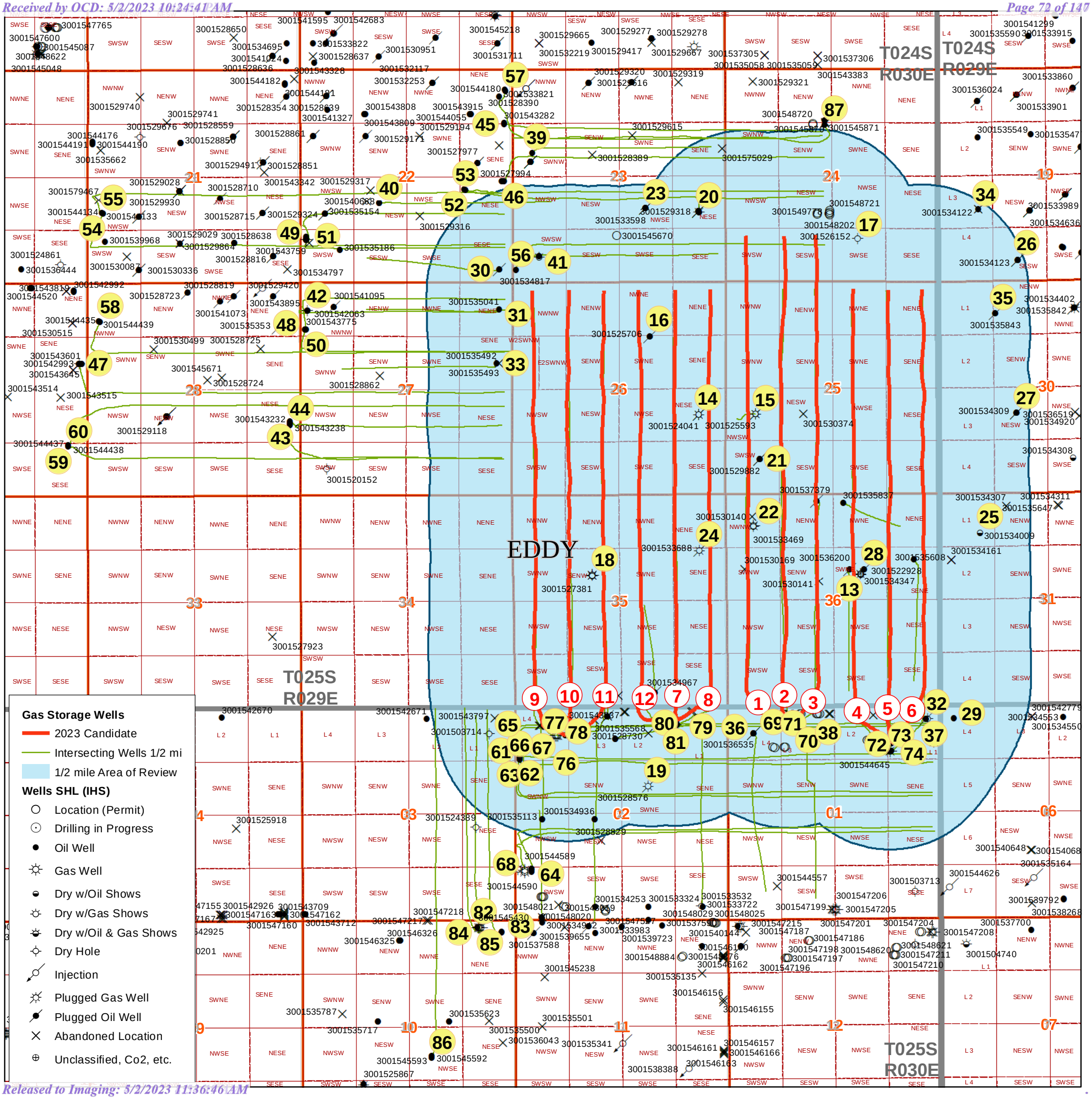
ENVIRONMENTAL/SPILL RESPONSE

Oxy will report and track any spill recordable or non-recordable via our CDR system

- Any spill or gas release will be reported by operations calling in to our Call Center to make the report of spill/release. The fluid type and release amount will be disclosed along with location details; and if it's a recordable or non-recordable spill.
- Liquids will be contained and isolated and vacuum trucks will be called in to recover the liquid and will also report the amount of liquid recovered on the same CDR spill form.
    - Additional reclamation will be coordinated to ensure proper recovery of contaminated soil and liquid.

Area of Review


Gas Storage Well Candidate
Intersecting Wells 2 miles
2 mi Area of Review
Wells SHL (IHS)
Location (Permit)
Drilling in Progress
Oil Well
Gas Well
Oil & Gas Well
Dry w/Oil Shows
Dry w/Gas Shows
Dry w/Oil & Gas Shows
Dry Hole
Injection
Suspended
Plugged Gas Well
Plugged Oil Well
Plugged Oil & Gas Well
Abandoned Location
Unclassified, Co2, etc.
Surface Management Agency
Surface
Federal
Private
State
T024S R028E
T025S R030E
T025S R029E


T024S R030E
T024S R029E
T025S R029E
T025S R030E
EDDY
Gas Storage Wells
2023 Candidate
Intersecting Wells 1/2 mi
1/2 mile Area of Review
Wells SHL (IHS)
Location (Permit)
Drilling in Progress
Oil Well
Gas Well
Dry w/Oil Shows
Dry w/Gas Shows
Dry w/Oil & Gas Shows
Dry Hole
Injection
Plugged Gas Well
Plugged Oil Well
Abandoned Location
Unclassified, Co2, etc.

Corral AOR Table 3/22/23
Note- Red texts indicates Candidate CLGC well

Well ID	API NUMBER	Current Operator	LEASE NAME	WELL NUMBER	Well Type:	Status:	Footages N/S	N/S	Footages E/W	E/W	Surface Location Unit / Lot	Surface Location Section	Surface Location TShip	Surface Location Range	Spud:	True Vertical Depth:	Measured Vertical Depth:	HOLE SIZE	CSG SIZE	SET AT	SX CMT	CMT TO	HOW MEASURED	Current Completion [ft]	Comment	Current Producing Pool
1	30-015-44631	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	021H	Oil	Active	381	N	1493	W	C	1	25S	29E	2/20/2018	9101	20726	17.5	13.375	553	650	Surf	Circ	9361-20555		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		12.25	9.625	8621	3138	Surf	Circ			
																		8.5	5.5	20716	2474	8090	Calc			
2	30-015-44632	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	022H	Oil	Active	381	N	1528	W	C	1	25S	29E	2/20/2018	9117	20890	17.5	13.375	533	650	Surf	Circ	9546-20737		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8588	2149	Surf	Circ			
																		6.75	5.5	20880	775	5940	CBL			
3	30-015-44633	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	023H	Oil	Active	381	N	1563	W	C	1	25S	29E	2/21/2018	9138	20675	17.5	13.375	554	685	Surf	Circ	9283-20476		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8579	1986	Surf	Circ			
																		6.75	5.5	20635	923	4900	CBL			
4	30-015-44634	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	024H	Oil	Active	940	N	1283	E	A	1	25S	29E	2/22/2018	9156	19803	14.75	10.75	658	762	Surf	Circ	9772-19624		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8648	1904	Surf	Circ			
																		6.75	5.5	19788	867	Surf	5450			
5	30-015-44635	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	025H	Oil	Active	940	N	1248	E	A	1	25S	29E	2/24/2018	9197	19575	14.75	10.75	657	825	Surf	Circ	9570-19422		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8648	1826	Surf	Circ			
																		6.75	5.5	19562	834	8130	CBL			
6	30-015-44636	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	026H	Oil	Active	940	N	1213	E	A	1	25S	29E	2/25/2018	9189	19660	14.75	10.75	657	825	Surf	Circ	9647-19499		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8765	1908	Surf	Circ			
																		6.75	5.5	19646	831	5800	CBL			
7	30-015-44683	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	025H	Oil	Active	314	N	1277	E	A	2	25S	29E	3/23/2018	9084	19378	14.75	10.75	436	490	Surf	Circ	9358-19234		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8355	1611	Surf	Circ			
																		6.75	5.5	19363	807	6160	CBL			
8	30-015-44684	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	026H	Oil	Active	314	N	1247	E	A	2	25S	29E	3/24/2018	9050	19313	14.75	10.75	444	490	Surf	Circ	9243-19169		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8454	1846	Surf	Circ		DVT at 3391	
																		6.75	5.5	19303	821	6472	Calc			
9	30-015-44702	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	021H	Oil	Active	694	N	1248	W	D	2	25S	29E	3/31/2018	8928	19584	14.75	10.75	412	418	Surf	Circ	9509-19389		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8168	1885	Surf	Circ			
																		6.75	5.5	19519	846	7837	Calc			
10	30-015-44703	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	022H	Oil	Active	694	N	1278	E	D	2	25S	29E	3/31/2018	8930	19410	14.75	10.75	382	836	Surf	Circ	9373-19248		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8302	1869	Surf	Circ			
																		6.75	5.5	19394	882	7802	Calc			
11	30-015-44704	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	023H	Oil	Active	694	N	1308	W	D	2	25S	29E	4/1/2018	8949	19480	14.75	10.75	400	418	Surf	Circ	9463-19338		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8405	1737	Surf	Circ			
																		6.75	5.5	19470	850	7903	Calc			
12	30-015-44705	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	024H	Oil	Active	314	N	1307	E	A	2	25S	29E	3/22/2018	9056	19671	14.75	10.75	442	490	Surf	Circ	9643-19519		[96473] PIERCE CROSSING; BONE SPRING, EAST
																		9.875	7.625	8381	1841	Surf	Circ			
																		6.75	5.5	19651	821	7894	Calc			
13	30-015-22928	DEVON ENERGY PRODUCTION COMPANY, LP	OSCAR STATE SWD	1	Gas	PA	1980	N	1980	E	G	36	24S	29E	10/19/1979	14395	14395	17.50	13.38	518	530	Surf	Circ	N/A		N/A
																		12.25	10.75	3292	1035	Surf	Calc			
																		9.50	7.63	11140	665	Surf	Circ			
																		7.63	5.00	14394	455	11736	Calc			
14	30-015-24041	OXY USA WTP LIMITED PARTNERSHIP	MAYER FEDERAL	1	Gas	PA	1980	S	660	E	I	26	24S	29E	12/31/1981	14028	14028	20	16	600	1550	Surf	Circ	N/A		N/A
																		12.25	10.75	3280	6400	Surf	Circ			
																		9.5	7.625	11002	975	5122	Calc			
																		6.125	5	13471	435	6742	Calc			
15	30-015-25593	OXY USA WTP LIMITED PARTNERSHIP	OWEN MESA 25 FEDERAL COM	1	Gas	PA	1980	S	760	W	L	25	24S	29E	3/23/1986	13090	13090	17.5	13.375	665	625	Surf	Circ	N/A	TOL at 10,911'	N/A
																		12.25	9.625	3168	1050	Surf	Circ			
																		8.75	7	11200	1325	800	CBL			
																		6.25	4.5	13090	300	10911	Circ			
16	30-015-25706	OXY USA INC	OWEN MESA 26 FEDERAL	1	Oil	PA	1350	N	1880	E	G	26	24S	29E	12/31/1986	12860	12860	13.375	13.375	680	500	Surf	Circ	N/A		N/A
																		9.625	9.625	3050	1955	Surf	Circ			
																		8.75	7	11050	1525	337	Calc			
																		6.125	4.5	12860	340	9047	Calc		TOL @10696	
17	30-015-26152	BASS ENTERPRISES PRODUCTION Co	POKER LAKE UNIT	74	Oil	PA	1060	S	1980	E	D	24	24S	29E	4/25/1991	14100	14100	17.50	13.38	820	1050	Surf	Circ	N/A		N/A
																		12.25	9.63	3295	1600	Surf	Circ			
																		8.75	7.00	11000	800	5380	Calc			
18	30-015-27381	OXY USA WTP LIMITED PARTNERSHIP	CORRAL FLY 35 FED COM	1	Gas	Active	1980	N	1980	W	F	35	24S	29E	7/9/1993	14000	14000	17.50	13.375	535	750	Surf	Circ	11398-11585	Recompletion Sundry submitted on 7/12/2012	[98220] PURPLE SAGE; WOLFCAMP (GAS)
																		12.25	9.625	3181	2100	Surf	Circ			
																		8.75	7	11314	2710	3100	Calc		DV Tool at 7,525'	
																		7.00	4.50	13998	275	11590	CBL			
19	30-015-28576	OXY USA WTP LIMITED PARTNERSHIP	CORRAL FLY UNIT	1	Gas	PA	1980	N	1980	E	G	2	25S	29E	7/29/1995	14002	14002	17.50	13.375	677	700	Surf	Circ	N/A		N/A
																		12.25	9.625	3112	2100	535	Temp			
																		8.75	7	10405	1895	4010	Temp		DV Tool @7017	
																		7.00	4.5	13985	460	10044	Circ		Top of liner 10,044'	
20	30-015-29318	OXY USA INC	CANYON 23 FEDERAL	1	Oil	PA	1750	S	660	E	I	23	24S	29E	2/28/1997	13950	13950	17.50	13.38	500	600	Surf	Circ	N/A		N/A
																		12.25	9.63	3100	1250	Surf	Circ			
																		8.50	7.00	11200	2000	1936	CBL			
																		6.13	5.00	14250	250	10900	Circ		Top of liner 10,900'	
21	30-015-29882	OXY USA WTP LIMITED PARTNERSHIP	SPUDS 25 A FEDERAL	3	Oil	PA	860	S	860	W	M	25	24S	29E	11/20/1997	8570	8570	17.50	13.375	355	395	Surf	Circ	N/A		N/A
																		11.00	8.625	3215	1320	Surf	Circ			
																		7.88	5.5	8570	900	2856	Calc			
22	30-015-33469	OXY USA INC	PIERCE CROSSING 36 STATE	1	Gas	TA	830	N	845	W	D	36	24S	29E	10/23/2004	14068	14068	17.5	13.375	776	500	Surf	Circ	N/A		N/A
																		12.25	9.625	4778	1775	Surf	Circ			
																		8.75	7	10938	1175	1900	CBL			
																		6.13	5.00	14068	350	10441	Circ/CBL		Top of liner at 10441'	
23	30-015-33598	OXY USA INC	RIVERBEND 23 FEDERAL	016Q	Oil	PA	1830	S	1980	E	J	23	24S	29E	8/31/2004	7850	8320	17.5	13.375	612	850	Surf	Circ	N/A		N/A
																		11	8.625	3060	1430	Surf	Circ			
																		7.875	5.5	8320	1690	1530	CBL		DVT at 5534'	
24	30-015-33688	OXY USA INC	PIERCE CROSSING 35 FEDERAL COM	1	Gas	PA	1400	N	660	E	H	35	24S	29E	4/16/2005	13513	13513	17.5	13.375	522	600	Surf	Circ	N/A		N/A
																		12.25	9.625	3158	1400	Surf	Circ			
																		8.75	7	10490	1850	2740	Temp		DVT at 5462'	
																		6.125	5	13511	325	9993	CBL		TOL at 9993'	
25	30-015-34009	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	232	Oil	PA	990	N	990	W	D	31	24S	30E	7/28/2005	7490	7490	14.75	11.75	719	1250	Surf	Circ	N/A		N/A
																		7.875	5.5	7488	720	3410	Temp			
26	30-015-34123	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	222	Oil	PA	510	S	1980	W	N	19	24S	30E	9/27/2005	7470	7470	14.75	11.75	475	550	Surf	Circ	N/A		N/A
																		7.875	5.5	7470	900	2905	Temp			
27	30-015-34309	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	235	Oil	PA	1980	S	1930	W	K	30	24S	30E	4/20/2006	7500	7500	12.25	8.625	625	425	Surf	Circ	N/A		N/A
																		7.875	5.5	7500	795	1780	Temp			
28	30-015-34347	XTO PERMIAN OPERATING LLC.	HORNED TOAD 36 STATE	7	Oil	PA	1880	N	1880	E	G	36	24S	29E	12/14/2005	7374	7374	14.75	11.75	972	400	Surf	Circ	N/A		N/A
																		11	5.5	2717	260	Surf	Circ			
																		7.875	5.5	7373	230	3300	Temp			
29	30-015-34551	COG OPERATING LLC	OHKAY BHH STATE	1	Oil	Active	330	N	330	W	D	6	25S	30E	3/9/2006	9200	9200	17.5	13.375	603	650	Surf	Circ	5826-9068		[47545] NASH DRAW; DELAWARE/BS (AVALON SAND)
																		11.00	8.625	3152	1350	Surf	Circ			

																7.875	5.5	9200	1650	6205	CBL			
30	30-015-34817 OXY USA INC	VORTEC 22	1	Oil	PA	330	S	330	E	P	22	24S	29E	4/28/2006	10852	10852	17.50	13.38	555	475	Surf	Circ N/A		N/A
																	12.25	9.63	2915	1075	Surf	Circ		
																	8.5-7.875	5.50	10852	2100	4190	CBL		
31	30-015-35041 OXY USA INC	VORTEC 27	1	Oil	Active	660	N	330	E	A	27	24S	29E	10/1/2006	10848	10848	17.5	13.375	552	600	Surf	Circ 10770-8102	C-103 Submitted for Liner, Perf and frac.	[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.625	2898	1030	Surf	Calc		
																	8.50	5.5	10848	2200	5900	CBL		
32	30-015-35094 EOG Y RESOURCES, INC.	CANYON BJK STATE	1	Oil	PA	330	N	330	E	A	1	25S	29E	8/15/2008	8616	8616	17.5	13.375	610	505	Surf	Circ N/A		N/A
																	11	8.625	3165	931	Surf	Circ		
33	30-015-35492 OXY USA INC	VORTEC 27	2	Oil	Active	2010	N	380	E	H	27	24S	29E	8/31/2007	11376	7300	17.50	13.38	550	500	Surf	Circ 7981-11180		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.63	2920	950	Surf	Circ		
																	8.5-7.875	5.50	11376	2250	2400	CBL		
34	30-015-35628 XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	220	Oil	Active	1780	S	990	W	L	19	24S	30E	4/25/2008	7400	7400	12.25	8.625	611	510	Surf	Circ 5570-7279		[47545] NASH DRAW; DELAWARE/BS (AVALON SAND)
																	7.875	5.5	7399	1870	4966	Circ	DV Tool at 4,967'	
35	30-015-35843 XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	240	Oil	PA	810	N	1420	W	C	30	24S	30E	4/8/2008	7428	7428	12.25	8.625	721	430	Surf	Circ N/A		N/A
																	7.875	5.5	7427	1650	Surf	Circ	DV Tool	
36	30-015-36535 OXY USA INC	CHALLENGER 1 STATE	001H	Oil	PA	660	N	660	W	D	1	25S	29E	8/30/2008	11865	11865	17.5	13.375	585	500	Surf	Circ N/A		N/A
																	12.25	9.625	3125	1100	Surf	Circ		
																	7.875	5.5	11865	2100	4040	CBL		
37	30-015-36605 EOG RESOURCES INC	CANYON BJK STATE	001Y	Oil	PA	330	N	360	E	A	1	25S	29E	9/14/2008	9320	9320	17.5	13.375	626	505	Surf	Circ N/A		N/A
																	11	8.625	3250	1060	Surf	Circ		
																	7.875	5.5	9310	900	2840	CBL		
38	30-015-37296 OXY USA INC	CHALLENGER 1 STATE	002H	Oil	Active	660	N	1980	W	3	1	25S	29E	3/3/2010	5453	9460	17.5	13.38	540	580	Surf	Circ 5570-9370		[96464] CORRAL CANYON; DELAWARE,NORTHWEST
																	11	8.625	3190	940	Surf	Circ		
																	7.875	5.5	9414	1490	Surf	Circ		
39	30-015-40667 OXY USA INC	CEDAR CANYON 23	001H	Oil	Active	2068	N	483	W	E	23	24S	29E	10/1/2012	7886	11968	17.5	13.375	447	965	Surf	Circ 8190-11782		[96238] CORRAL DRAW; BONE SPRING
																	12.25	9.625	3146	2219	Surf	Circ		
																	8.50	5.5	11945	3000	1850	CBL	DVT at 6498'	
40	30-015-40668 OXY USA INC	CEDAR CANYON 22	001H	Oil	Active	1980	S	1980	W	K	22	24S	29E	10/27/2012	7905	11885	17.5	13.375	465	540	Surf	Circ 8240-11692		[96238] CORRAL DRAW; BONE SPRING
																	12.25	9.625	3260	1910	Surf	Circ		
																	8.50	5.5	11870	2440	Surf	CBL	DVT at 3576	
41	30-015-41194 OXY USA INC	CEDAR CANYON 23	002H	Oil	Active	650	S	660	W	M	23	24S	29E	8/17/2014	8902	13430	14.75	11.75	467	721	Surf	Circ 8610-13220		[50371] PIERCE CROSSING; BONE SPRING
																	10.63	8.63	3020	1120	Surf	Circ		
																	7.88	5.50	13421	1360	Surf	Circ		
42	30-015-42063 OXY USA INC	CEDAR CANYON 27 STATE COM	004H	Oil	Active	700	N	173	W	D	27	24S	29E	7/17/2014	8826	13589	14.75	11.75	464	910	Surf	Circ 9110-13340		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	10.625	8.625	3115	880	Surf	Circ		
																	7.875	5.5	13585	1620	Surf	Circ		
43	30-015-43232 OXY USA INC	CEDAR CANYON 27 FEDERAL	006H	Oil	Active	1920	S	200	E	I	28	24S	29E	10/10/2015	8732	13695	14.75	10.75	436	540	Surf	Circ 9257-13441		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8003	1530	Surf	Circ		
																	6.75	5.5	8826	740	Surf	Circ		
																	6.75	4.5	13680	740	200	CBL		
44	30-015-43233 OXY USA INC	CEDAR CANYON 27 FEDERAL	007H	Oil	Active	1745	S	200	E	I	28	24S	29E	9/22/2015	8769	13900	14.75	10.75	438	540	Surf	Circ 9453-13798		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.88	7.63	7997	1580	Surf	Circ	DVT at 2988'	
																	6.75	5.50	8949	610	5010	CBL		
																	6.75	4.50	13886	610	5010	CBL		
45	30-015-43281 OXY USA INC	CEDAR CANYON 23 FEDERAL	004H	Oil	Active	1415	N	155	E	H	22	24S	29E	11/26/2015	9006	16535	14.75	10.75	444	550	Surf	Circ 9312-16403		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	7490	4000	Surf	Circ	DVT at 3069'	
																	6.75	5.5	8945	1090	6330	CBL		
																	6.75	4.5	16509	1090	6330	CBL		
46	30-015-43290 OXY USA INC	CEDAR CANYON 23 FEDERAL	003H	Oil	Active	2540	S	200	E	I	22	24S	29E	10/26/2016	9010	16430	14.75	10.75	482	382	Surf	Circ 9016-16282		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8221	3238	Surf	Circ	DVT at 3083	
																	6.75	5.5	8962	830	6400	CBL		
47	30-015-43645 OXY USA INC	CEDAR CANYON 28 27 FEDERAL COM	005H	Oil	Active	1990	N	180	E	H	29	24S	29E	12/21/2016	8733	18714	17.50	13.38	667	735	Surf	Circ 8626-18482		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.63	8190	2620	Surf	Circ		
																	8.50	5.50	355-18704	1790	8055	Circ		
48	30-015-43673 OXY USA INC	CEDAR CANYON 27 STATE COM	010H	Gas	Active	1154	N	121	W	D	27	24S	29E	5/28/2016	10125	14880	14.75	10.75	500	530	Surf	Circ 10136-14712		[50373] PIERCE CROSSING; WOLFCAMP (ABOLISH)
																	9.875	7.625	9032	1640	Surf	Circ		
																	6.75	5.5	10189	590	6000	CBL		
																	6.75	4.5	14870	590	6000	CBL		
49	30-015-43758 OXY USA INC	CEDAR CANYON 22 FEDERAL COM	005H	Oil	Active	1120	S	207	W	M	22	24S	29E	8/6/2016	8819	13525	14.75	10.75	437	470	Surf	Circ 8939-13358		[96238] CORRAL DRAW; BONE SPRING
																	9.875	7.625	7650	3500	Surf	Circ	DVT at 2936'	
																	6.75	5.5	8921	0	5329	Calc		
																	6.75	4.5	13514	580	5329	Calc		
50	30-015-43775 OXY USA INC	CEDAR CANYON 27 FEDERAL COM	005H	Oil	Active	1154	N	151	W	D	27	24S	29E	5/28/2016	8819	13743	14.75	10.75	518	530	Surf	Circ 9079-13583		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8102	1500	Surf	Circ		
																	6.75	5.5	8886	600	6350	CBL		
																	6.75	4.50	13734	600	6350	CBL		
51	30-015-43906 OXY USA INC	CEDAR CANYON 22 FEDERAL COM	006Y	Oil	Active	1040	S	207	W	M	22	24S	29E	9/27/2016	8850	13405	14.75	10.75	435	740	Surf	Circ 8610-13196		[96238] CORRAL DRAW; BONE SPRING
																	9.875	7.625	8163	1300	Surf	Circ		
																	6.75	5.5	8957	540	7100	CBL		
																	6.75	4.5	13397	540	7100	CBL		
52	30-015-44074 OXY USA INC	CEDAR CANYON 23 FEDERAL COM	033H	Gas	Active	2344	S	1199	E	I	22	24S	29E	4/29/2017	10329	17935	14.75	10.75	420	350	Surf	Circ 10521-17749		[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9737	1370	Surf	Circ		
																	6.75	4.5	17915	765	9468	Circ	TOL at 9468	
53	30-015-44095 OXY USA INC	CEDAR CANYON 23 FEDERAL COM	006H	Oil	Active	2329	S	1173	E	I	22	24S	29E	4/30/2017	8974	17351	14.75	10.75	418	350	Surf	Circ 9946-17187		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8348	1870	150	Calc	DVT at 3060'	
																	6.75	5.5	8181	875	10648	Calc		
																	6.75	4.5	17341	875	10648	Cac		
54	30-015-44133 OXY USA INC	CEDAR CANYON 21 22 FEDERAL COM	033H	Oil	Active	1754	S	374	W	L	21	24S	29E	5/10/2017	10002	19951	17.5	13.375	542	633	Surf	Circ 9908-19667		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.625	9183	2235	1305	Temp		
																	8.5	5.5	19842	1730	8918	Circ		
55	30-015-44134 OXY USA INC	CEDAR CANYON 21 22 FEDERAL COM	034H	Oil	Active	1737	S	399	W	L	21	24S	29E	5/9/2017	9997	19980	17.5	13.375	540	617	Surf	Circ 9978-19797		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.625	9242	2335	Surf	Circ		
																	8.5	5.5	19968	1735	9115	Circ	TOL at 9115	
56	30-015-44178 OXY USA INC	CEDAR CANYON 23 24 FEDERAL COM	034H	Oil	Active	319	S	88	W	M	23	24S	29E	7/5/2017	10119	17582	14.75	10.75	428	329	Surf	Circ 10188-17410		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	9377	1656	Surf	Circ		
																	6.75	4.5	17572	1028	9233	Circ	TOL at 9233	
57	30-015-44180 OXY USA INC	CEDAR CANYON 23 24 FEDERAL	032H	Oil	Active	520	N	172	E	A	22	24S	29E	6/19/2017	10169	17665	14.75	10.75	422	385	Surf	Circ 10240-17475		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	9495	1600	Surf	Circ		
																	6.75	4.5	17650	790	9280	Circ	TOL at 9280	
58	30-015-44435 OXY USA INC	CEDAR CANYON 27 28 FEDERAL	042H	Oil	Active	956	N	325	W	D	28	24S	29E	8/5/2018	9982	20134	14.75	10.75	670	1000	Surf	Circ 9934-20031		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	9382	817	Surf	Circ	DVT at 2966'	
																	6.75	5.5	20122	864	9197	Calc		
59	30-015-44437 OXY USA INC	CEDAR CANYON 27 28 FEDERAL	043H	Gas	Active	1275	S	465	E	P	29	24S	29E	9/28/2017	10097	20270	17.5	13.375	765	965	Surf	Circ 10286-20110		[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	12.25	9.625	9485	3387	Surf	Circ		
																	8.5	5.5	20257	2312	8485	Calc		
60	30-015-44438 OXY USA INC	CEDAR CANYON 27 28 FEDERAL	044H	Gas	Active	1245	S	465	E	P	29	24S	29E	9/27/2017	10106	20285	17.5	13.375	784	965	Surf	Circ 10303-20127		[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	12.25	9.625	9354	3086	Surf	Circ		
																	8.5	5.5	20275	2286	8345	Calc		
61	30-015-44507 OXY USA INC	CORRAL FLY 02 01 STATE	021H	Oil	Active	1230	N	120	W	D	2	25S	29E	12/9/2017	9037	18990	17.5	13.375	418	1216	Surf	Circ 8938-18840		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	12.25	9.625	8295	2368	Surf	Circ		
																	8.5	5.5	18980	1825	8097	Circ	TOL at 8097	
62	30-015-44508 OXY USA INC	CORRAL FLY 02 01 STATE	022H	Oil	Active	1265	N	120	W	D	2	25S	29E	12/12/2017	9033	18875	17.5	13.375	418	418	Surf	Circ 8789-18736		[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8212	1611	Surf	Circ		

																	6.75	5.5	18865	784	7700	Calc				
63	30-015-44509	OXY USA INC	CORRAL FLY 02 01 STATE	023H	Oil	Active	1300	N	120	W	D	2	25S	29E	12/13/2017	9027	19006	17.5	13.375	416	535	Surf	Circ 8938-18865			[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8444	1594	Surf	Circ				
																	6.75	5.5	18996	784	7862	Calc				
64	30-015-44510	OXY USA INC	CORRAL FLY 02 01 STATE	024H	Oil	Active	1275	S	420	W	M	2	25S	29E	12/20/2017	9064	18922	17.5	13.375	396	535	Surf	Circ 8817-18768			[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	8416	1805	Surf	Circ				
																	6.75	5.5	18912	18912	7416	Calc				
65	30-015-44585	OXY USA INC	CORRAL FLY 02 01 STATE	031H	Gas	Active	980	N	120	W	D	2	25S	29E	7/7/2018	10302	20250	14.75	10.75	411	882	Surf	Circ 10212-20063			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9637	1686	Surf	Circ				
																	6.75	5.5	20240	815	9935	Calc	DVT at 3256			
66	30-015-44586	OXY USA INC	CORRAL FLY 02 01 STATE	032H	Gas	Active	1015	N	120	W	D	2	25S	29E	7/9/2018	10345	20261	14.75	10.75	391	500	Surf	Circ 10217-20093			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9610	1489	Surf	Circ				
																	6.75	5.5	20250	815	9945	Calc				
67	30-015-44587	OXY USA INC	CORRAL FLY 02 01 STATE	033H	Gas	Active	1050	N	120	W	D	2	25S	29E	7/10/2018	10380	20445	14.75	10.75	390	575	Surf	Circ 10382-20295			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9750	1520	Surf	Circ	DV Tool at 3283			
																	6.75	5.5	20431	813	10151	Calc				
68	30-015-44588	OXY USA INC	CORRAL FLY 02 01 STATE	034H	Gas	Active	1275	S	240	W	M	2	25S	29E	7/1/2018	10396	20332	14.75	10.75	392	511	Surf	Circ 10312-20113			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9754	1785	Surf	Circ				
																	6.75	5.5	20329	853	5448	CBL				
69	30-015-44640	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	031H	Gas	Active	561	N	1493	W	C	1	25S	29E	6/29/2018	10444	20630	14.75	10.75	558	579	Surf	Circ 10556-20308			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9807	1285	Surf	Circ				
																	6.13	5.5	9698	934	5480	Est				
																	6.125	4.5	20616	934	5480	Est				
70	30-015-44642	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	032H	Gas	Active	561	N	1528	W	C	1	25S	29E	6/30/2018	10400	20718	14.75	10.75	558	680	Surf	Circ 10451-20500			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9849	1235	Surf	Circ				
																	6.75	5.5	20708	827	6500	Est				
71	30-015-44643	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	033H	Gas	Active	561	N	1563	W	C	1	25S	29E	7/15/2018	10420	20861	14.75	10.75	580	700	Surf	Circ 10525-20625			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9906	1289	Surf	Circ				
																	6.75	5.5	20852	903	7550	Est				
72	30-015-44644	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	034H	Gas	Active	1120	N	1284	E	A	1	25S	29E	7/14/2018	10418	21175	14.75	10.75	598	700	Surf	Circ 11168-20870			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9925	1513	Surf	Circ	DVT at 3376			
																	6.75	5.5	20980	903	9420	Est				
73	30-015-44645	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	035H	Gas	Active	1120	N	1249	E	A	1	25S	29E	7/13/2018	10506	21108	14.75	10.75	598	660	Surf	Circ 11130-20981			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9968	1400	Surf	Circ	DVT at 3386			
																	6.75	5.5	21088	900	9454	Est				
74	30-015-44646	OXY USA INC	CORRAL CANYON 36 25 FEDERAL COM	036H	Gas	Active	1120	N	1214	E	A	1	25S	29E	7/12/2018	10533	21233	14.75	10.75	599	690	Surf	Circ 11260-21091			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	10060	1317	Surf	Circ				
																	6.75	5.5	21223	853	9420	Est				
76	30-015-44726	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	031H	Gas	Active	694	N	1008	W	D	2	25S	29E	11/18/2018	10239	20840	14.75	10.75	722	1150	Surf	Circ 11173-20578			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9772	2094	Surf	Circ				
																	6.75	5.5	20827	880	9268	Est				
77	30-015-44727	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	032H	Gas	Active	694	N	1038	W	D	2	25S	29E	11/19/2018	10245	20568	14.75	10.75	723	1100	Surf	Circ 10617-20493			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9492	1271	Surf	Circ				
																	6.75	5.5	20609	849	9099	Est				
78	30-015-44728	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	033H	Gas	Active	694	N	1068	W	D	2	25S	29E	11/23/2018	10260	20990	14.75	10.75	721	1290	Surf	Circ 11013-20864			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9849	1280	Surf	Circ				
																	6.75	5.5	20970	859	9348	Est				
79	30-015-44729	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	034H	Gas	Active	434	N	1308	E	A	2	25S	29E	10/2/2018	10366	20705	14.75	10.75	454	410	Surf	Circ 10687-20541			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9715	1693	Surf	Circ				
																	6.75	5.5	20649	857	6200	Est				
80	30-015-44730	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	035H	Gas	Active	434	N	1278	E	A	2	25S	29E	10/2/2018	10358	20570	14.75	10.75	453	412	Surf	Circ 10571-20421			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9759	1690	Surf	Circ				
																	6.75	5.5	20561	884	6200	Circ				
81	30-015-44731	OXY USA INC	CORRAL FLY 35 26 FEDERAL COM	036H	Gas	Active	434	N	1248	E	A	2	25S	29E	10/3/2018	10364	20483	14.75	10.75	453	412	Surf	Circ 10537-20387			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	9.875	7.625	9530	1698	Surf	Circ				
																	6.75	5.5	20483	884	6200	Est				
82	30-015-45430	XTO ENERGY, INC	CORRAL CANYON 3 34 FEDERAL	127H	Gas	Active	185	N	914	E	A	10	25S	29E	2/9/2019	10442	15535	17.5	13.375	632	970	Surf	Circ 10859-15391			[98220] PURPLE SAGE; WOLFCAMP (GAS)
																	12.25	9.625	9188	4575	Surf	Circ				
																	8.75	5.5	15532	2210	Surf	Circ				
83	30-015-45431	XTO ENERGY, INC	CORRAL CANYON FEDERAL	024H	Gas	Active	285	N	330	E	A	10	25S	29E	1/12/2019	8882	14202	17.5	13.375	875	1388	Surf	Circ 9360-14067			[96217] WILLOW LAKE; BONE SPRING, SOUTHEAST
																	12.50	9.63	3100	1293	Surf	Circ				
																	8.75	5.50	14202	2024	25	Est				
84	30-015-45432	XTO ENERGY, INC	CORRAL CANYON 3 34 FEDERAL	907H	Oil	Active	185	N	944	E	A	10	25S	29E	6/8/2019	10033	15535	17.5	13.625	632	1007	Surf	Circ 10387-15402			[96217] WILLOW LAKE; BONE SPRING, SOUTHEAST
																	12.25	9.63	7350	3620	3200	Circ				
																	8.50	5.50	15535	1692	3200	Calc				
85	30-015-45433	XTO ENERGY, INC	CORRAL CANYON 3 34 FEDERAL	108H	Oil	Active	185	N	885	E	A	10	25S	29E	12/25/2018	10207	15205	17.5	13.625	672	1142	Surf	Circ 9360-14034			[96217] WILLOW LAKE; BONE SPRING, SOUTHEAST
																	12.25	9.625	9130	3860	310	Temp	DVT at 749'			
																	8.75	5.5	15200	2535	Surf	Circ				
86	30-015-45593	XTO ENERGY, INC	CORRAL CANYON FEDERAL	221H	Oil	Active	1895	S	2080	E	J	10	25S	29E	7/6/2019	8832	16970	17.50	13.38	646	1048	Surf	Circ 9231-16833			[96217] WILLOW LAKE; BONE SPRING, SOUTHEAST
																	12.25	9.63	7448	3277	Surf	Circ	DVT at 708			
																	8.5	5.5	16970	1998	3200	Calc				
87	30-015-45871	OXY USA INC	GUACAMOLE CC 24 23 FEDERAL	012H	Oil	Active	1395	N	2490	W	F	24	24S	29E	5/4/2019	7741	15650	17.5	13.375	460	620	Surf	Circ 8056-15528			[96473] PIERCE CROSSING; BONE SPRING, EAST
																	9.875	7.625	7110	1139	Surf	Circ				
																	6.75	5.5	7982	1014	6000	Est				
																	6.75	4.5	15624	1014	6000	Est				

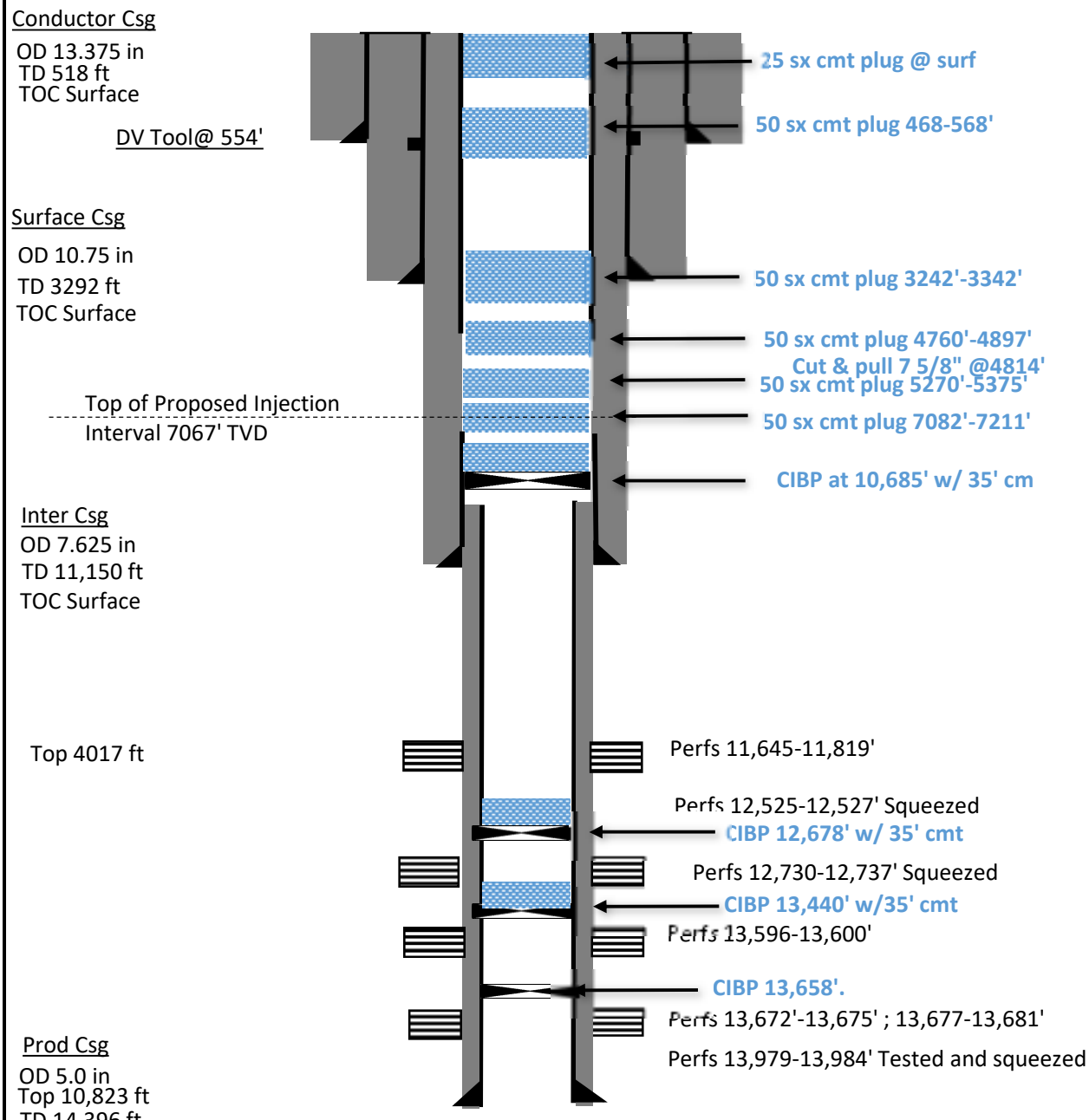
AOR WELL ID 13

Current Wellbore

Oscar State SWD 1

30-015-22928

Eddy



OXY USA WTP LP - Actual PA WBD
Mayer Federal #001
API No. 30-015-24041

AOR WELL ID 14

Perf'd 650', spotted 150sx f/ 700' to surface. Verified cement to surface.

Perf'd 970', sqzd 70sx Cl C to 793'

Perf'd 1980, sqzd 70sx Cl C to 1787'

Perf'd 3330', sqzd 75sx Cl C to 3123'

Perf'd 5175', sqzd 85sx Cl C to 4970'

40sx Cl C f/ 5951' to 5800'

55sx Cl C f/ 7043' to 6717'

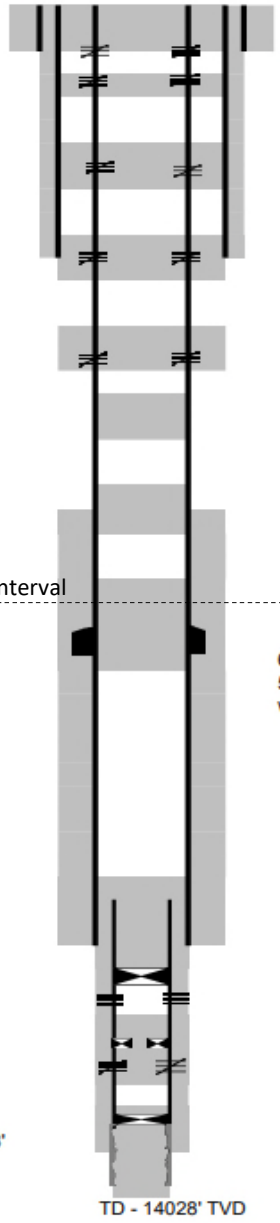
Top of Proposed Injection Interval
6970' TVD

55sx Cl H f/ 8109' to 7869'

55sx Cl H f/ 10380' to 10084'

CIBP @ 11208' w/ 60sx Cl H to 10497'

PBTD 12008'



Spud 10/24/1972

20" hole @ 600'
16" csg @ 600'
w/ 1550 sx-TOC-Surf-Circ.

12-1/4" hole @ 3280'
10-3/4" csg @ 3280'
w/ 6400 sx-TOC-Surf-Circ.

9-1/2" hole @ 11002'
7-5/8" csg @ 11002'
w/ 975 sx-TOC-6586'-Calc
DVT @ 8014'

6-1/8" hole @ 13471'
5" liner @ 10320'-13471'
w/ 435sx-TOC-10320'-Circ

Perfs @ 11499'-11809'
Perfs @ 12716'-12726'

OH @ 13471'-14028'

TD - 14028' TVD

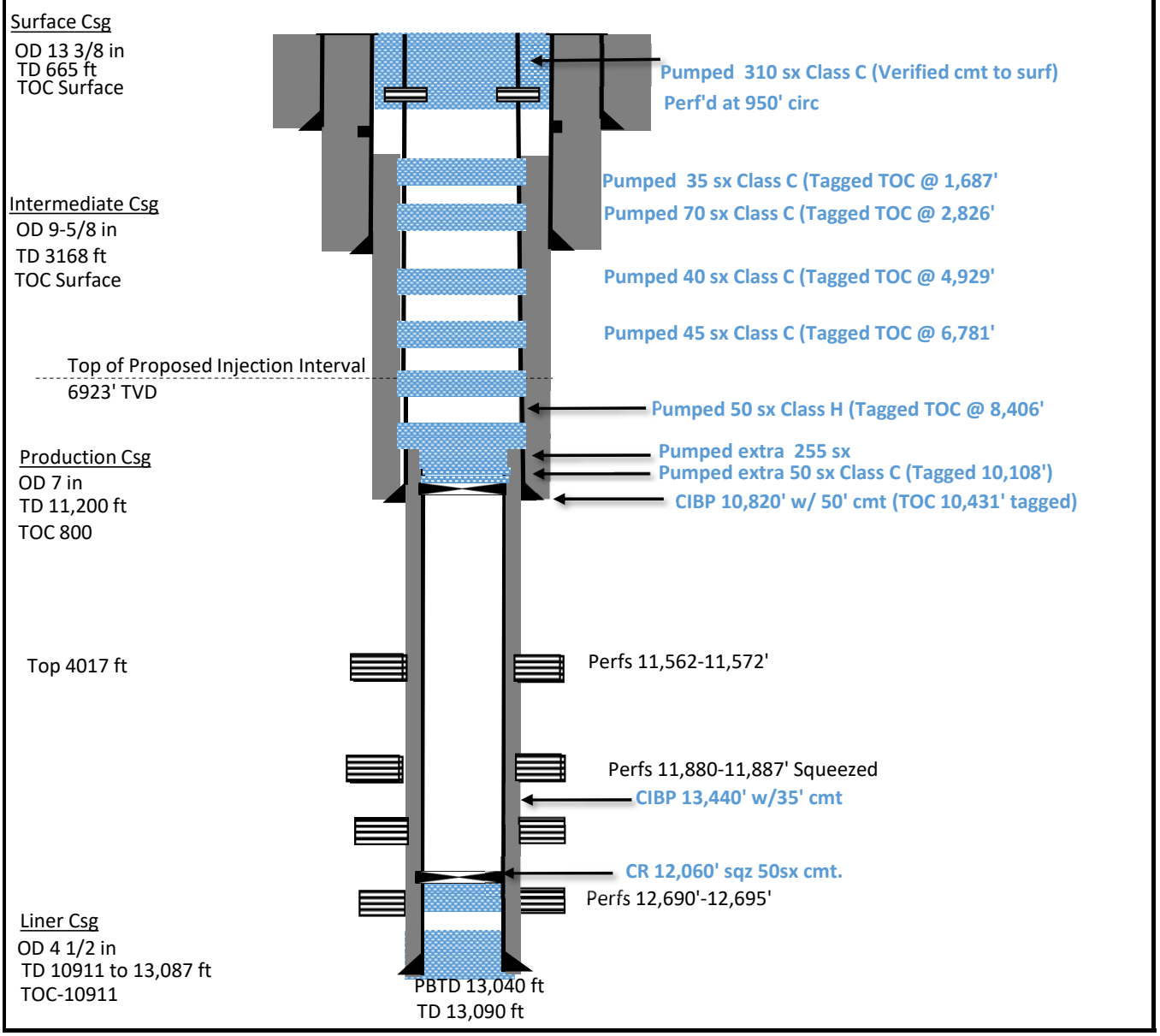
AOR WELL ID 15

Current Wellbore

OWEN MESA 25 FEDERAL COM 1

30-015-25593

Eddy



Received by OCD: 6/7/2021 9:05:34 AM

AOR WELL ID 16

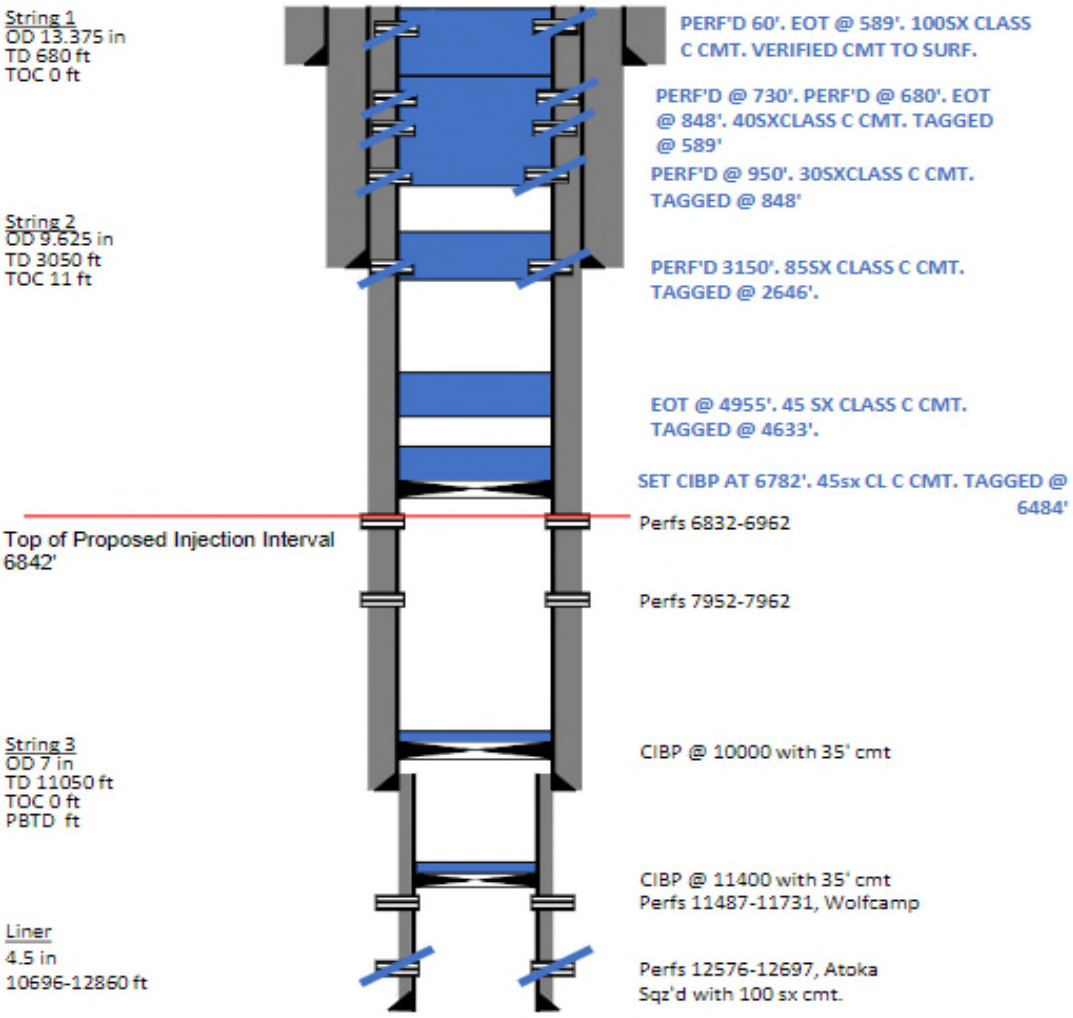
ACTUAL P&A SUBSEQUENT WBD

6/7/2021

Owen Mesa 26 Federal Com #001

30-015-25706-0000

Eddy



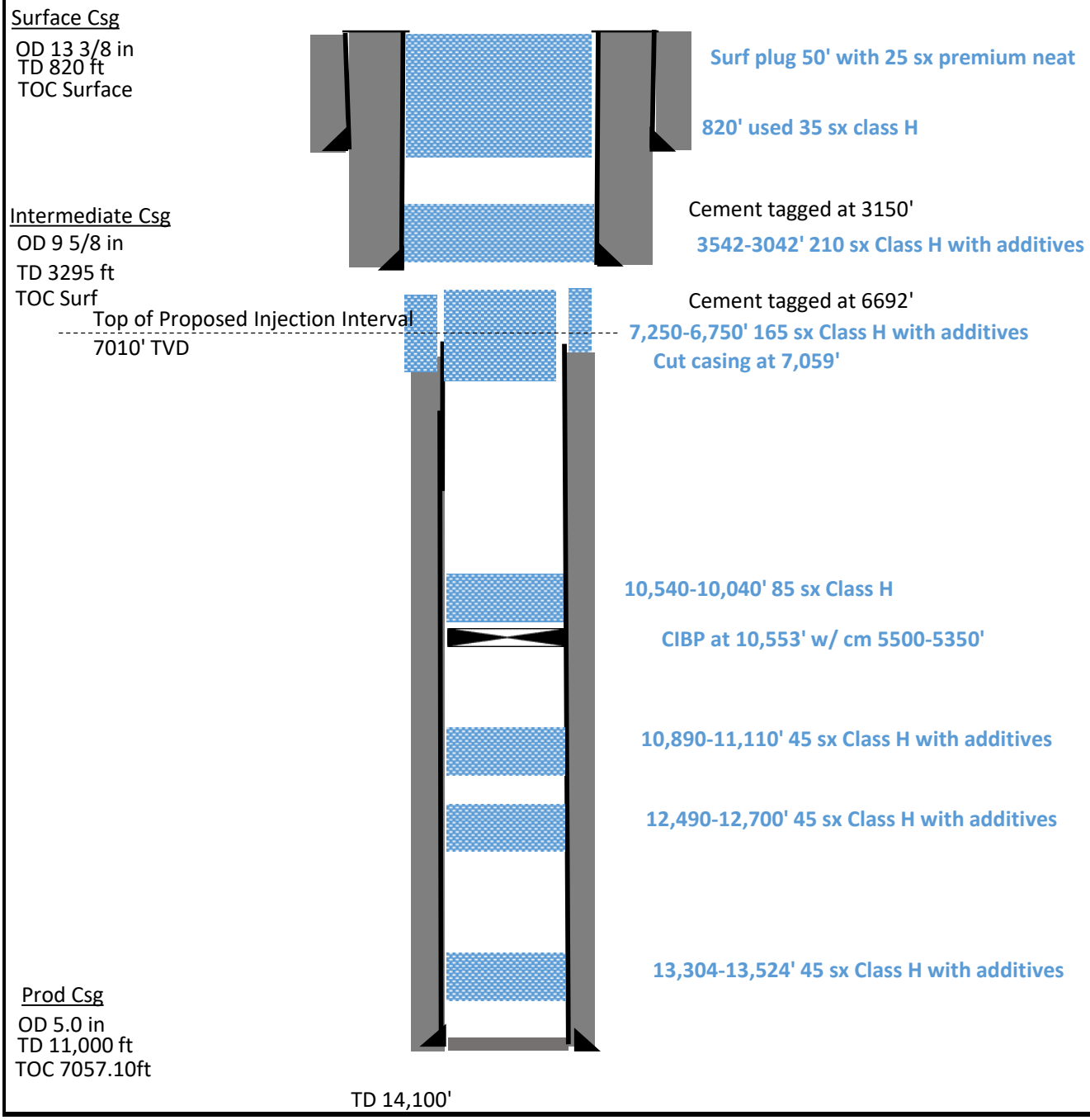
AOR WELL ID 17

Current Wellbore

Poker Lake Unit 74

30-015-26152

Eddy



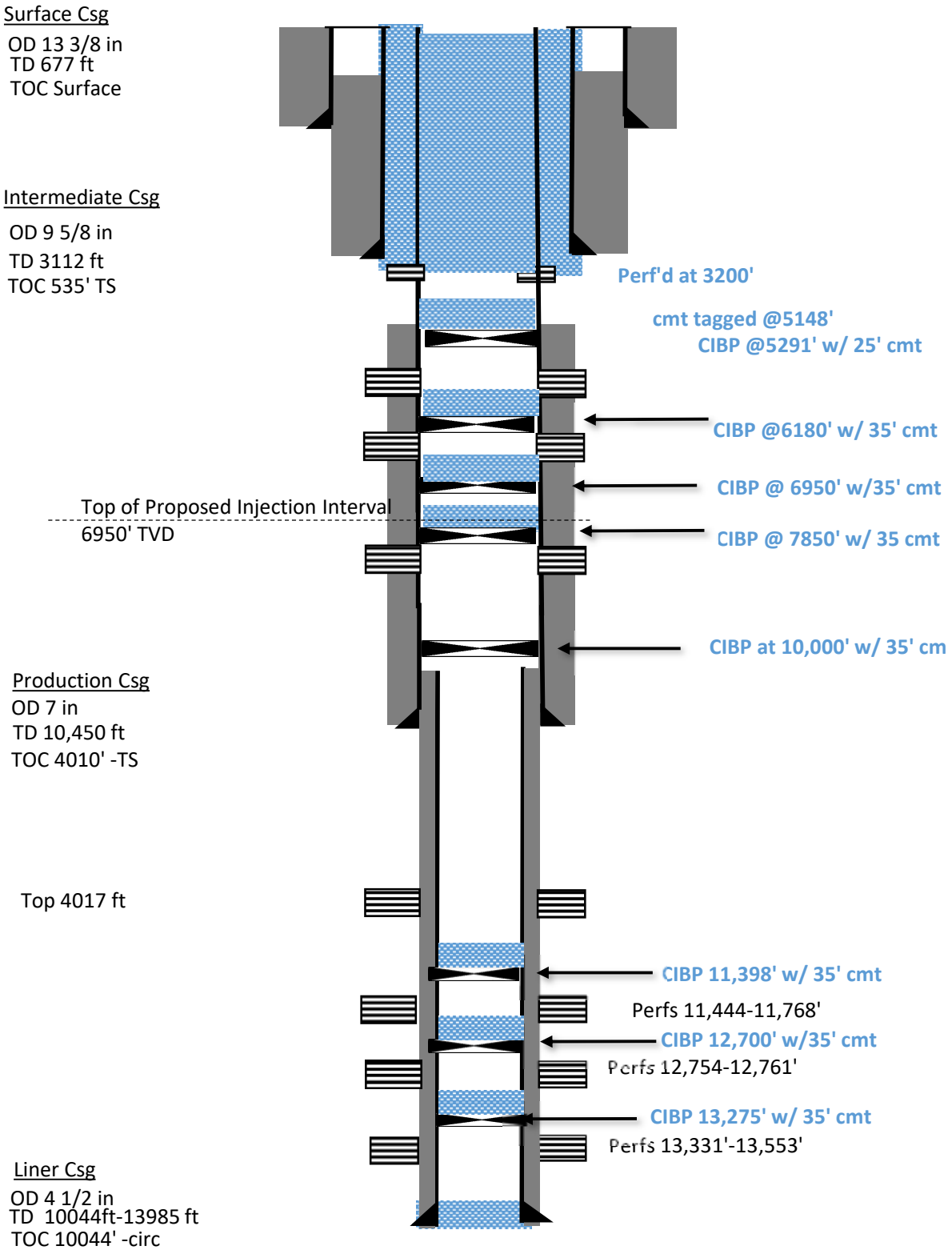
AOR WELL ID 19

Current Wellbore

Corral Fly Unit #1

30-015-28576

Eddy



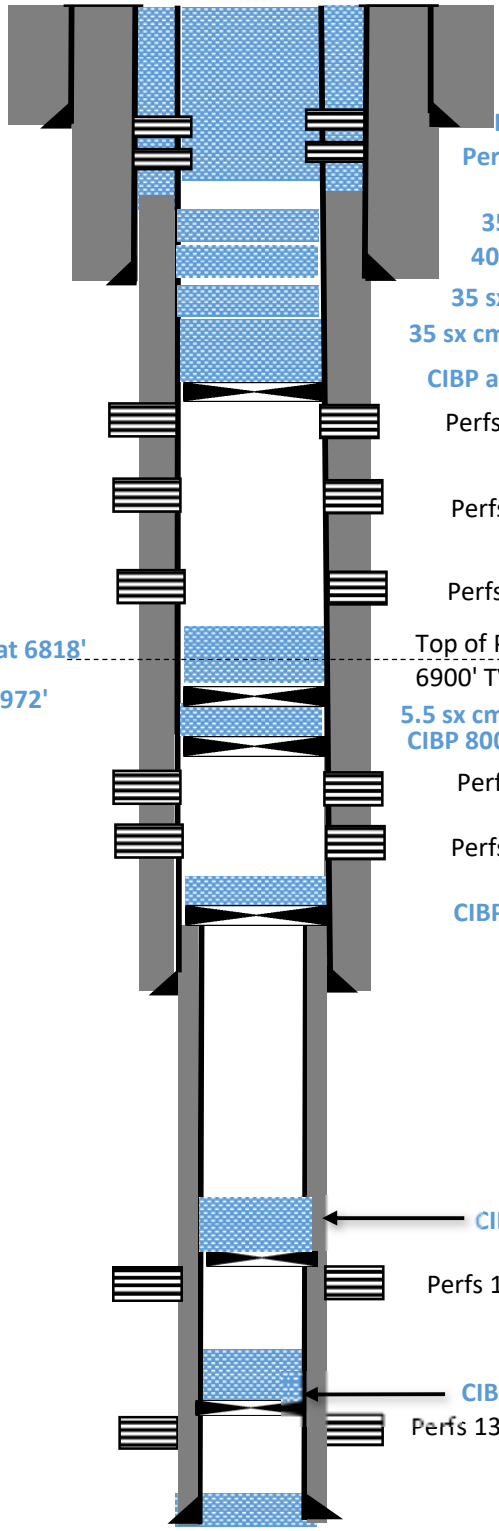
AOR WELL ID 20

Current Wellbore

CANYON 23 FEDERAL 1

30-015-29318

Eddy



Surface Csg
OD 13 3/8 in
TD 516 ft
TOC Surface

Intermediate Csg
OD 9 5/8 in
TD 3120 ft
TOC Surf

Production Csg
OD 7 in
TD 10,500 ft
TOC 1936' -CBL

Top 4017 ft

Liner Csg
OD 5 in
TD 10242ft-13930 ft
TOC 10242' -circ

Perf'd at 566'
Perf'd at 950'
35 sx cmt plug 2557'
40 sx cmt plug 3017'
35 sx cmt plug 4157'
35 sx cmt plug 5183'
CIBP at 5413'
Perfs 5,464-5,478'
Perfs 5,809-5,822'
Perfs 6,530-6,772'
40 sx cl C cmt at 6818'
Top of Proposed Injection Interval
6900' TVD
CIBP at 6972'
5.5 sx cmt plug 7925'
CIBP 8000'
Perfs 8,064-8,100'
Perfs 8,782-9,032'
CIBP 10,240' w/ 50' cmt to 9,957'
CIBP 12,712' w/ 35' cmt to 12,677'
Perfs 12,736-12,748'
CIBP 13,600' w/ 36' cmt to 13,564'
Perfs 13,618'-13,680'

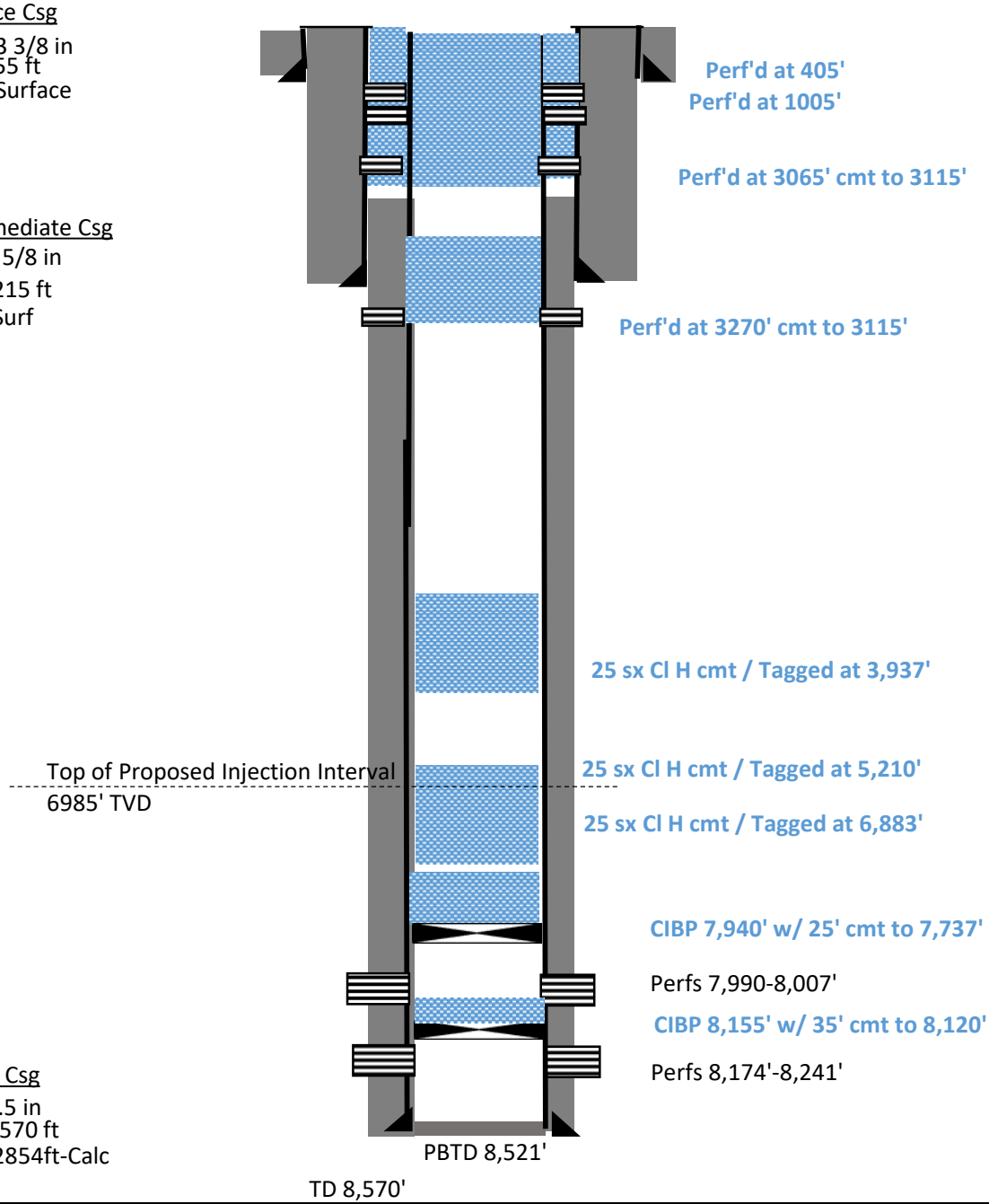
AOR WELL ID 21

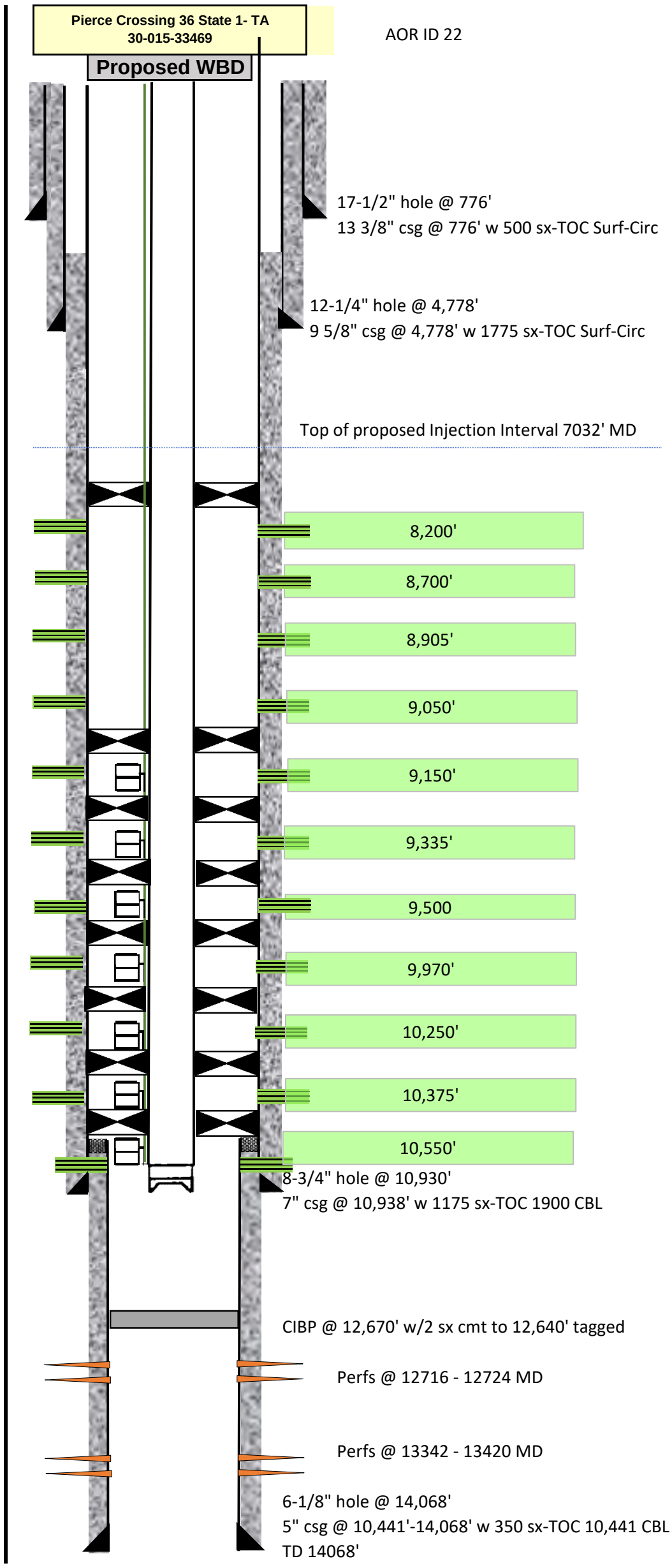
Current Wellbore

SPUDS 25 A FEDERAL 3

30-015-29882

Eddy




Pierce Crossing 36 State 1- TA
30-015-33469
Proposed WBD
AOR ID 22
17-1/2" hole @ 776'
13 3/8" csg @ 776' w 500 sx-TOC Surf-Circ
12-1/4" hole @ 4,778'
9 5/8" csg @ 4,778' w 1775 sx-TOC Surf-Circ
Top of proposed Injection Interval 7032' MD
8,200'
8,700'
8,905'
9,050'
9,150'
9,335'
9,500
9,970'
10,250'
10,375'
10,550'
8-3/4" hole @ 10,930'
7" csg @ 10,938' w 1175 sx-TOC 1900 CBL
CIBP @ 12,670' w/2 sx cmt to 12,640' tagged
Perfs @ 12716 - 12724 MD
Perfs @ 13342 - 13420 MD
6-1/8" hole @ 14,068'
5" csg @ 10,441'-14,068' w 350 sx-TOC 10,441 CBL
TD 14068'

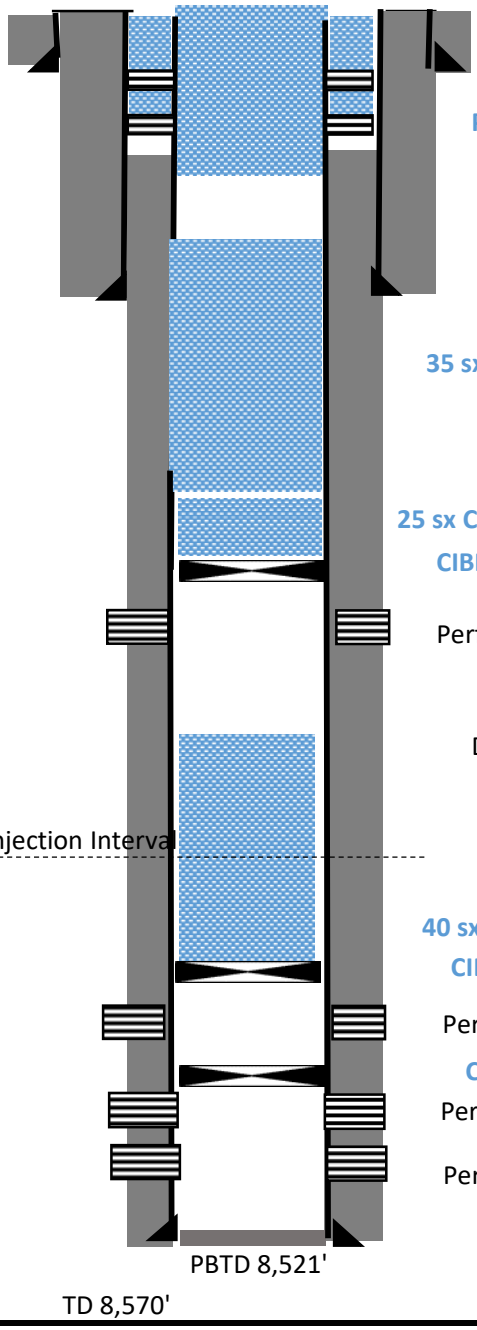
AOR WELL ID 23

Current Wellbore

RIVERBEND 23 FEDERAL #016Q

30-015-33598

Eddy



Surface Csg
OD 13 3/8 in
TD 612 ft
TOC Surface

185 sx Class C cmt
Perf'd at 662'
85 sx Class C cmt
Perf'd at 1410'

Intermediate Csg
OD 8 5/8 in
TD 3060 ft
TOC Surf

35 sx Cl C cmt / Tagged at 2930'

25 sx Cl C cmt to 5166'
CIBP 5,390'

Perfs 5,440-5,450'

DVT 5534'

Top of Proposed Injection Interval
6985' TVD

40 sx Cl C cmt to 6822'
CIBP 7,180'

Perfs 6,707-6,735'

CIBP 7,850'

Perfs 7,227-7,323'

Perfs 7,918'-8,066'

Prod Csg
OD 5.5 in
TD 8,320 ft
TOC 1530'ft-CBL

PBTD 8,521'

TD 8,570'

Received by OCD: 2/7/2022 6:59:34 AM

AOR WELL ID 24

Pierce Crosing 35 Federal Com #001 - Plugged
OXY USA Inc.
API No. 30-015-33688

PERF'D @ 940'. SQZD 393SX CL C TO SURFACE. VERIFIED.

EOT @ 3218'. PUMPED 50SX CL C. TAGGED TOC @ 2925'.

EOT @ 5525'. PUMPED 35SX CL C. TAGGED TOC @ 5297'.

EOT @ 7052'. PUMPED 35SX CL C. TAGGED TOC @ 6870'.

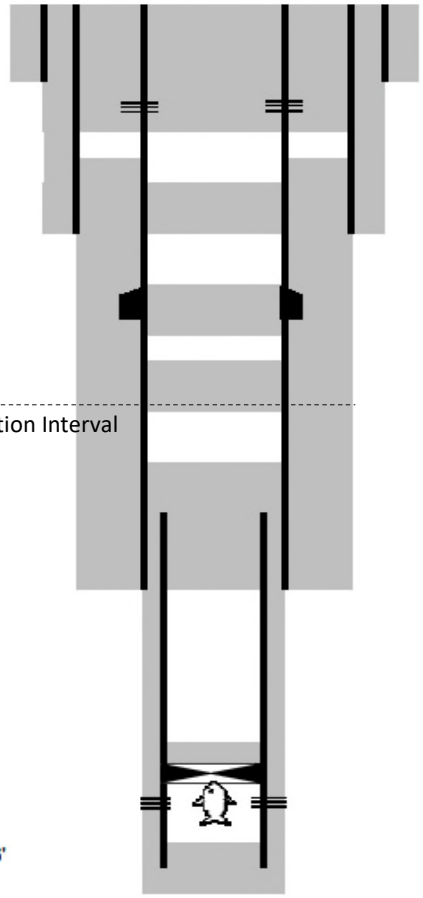
Top of Proposed Injection Interval
6966' TVD

EOT @ 10540'. PUMPED 100SX CL H. TAGGED TOC @ 9573'.

CIBP @ 12636'. PUMPED 30SX CL H. TAGGED TOC @ 12290'.

TOF @ 12640' - Cut tubing.

PBTD - 13456'



TD - 13513'

Spud 04/16/2005

17-1/2" hole @ 522'
13-3/8" 48# csg @ 522'
w/ 600 sx-TOC-Surf-Circ.

12-1/4" hole @ 3158'
9-5/8" 40# csg @ 3158'
w/ 1400 sx-TOC-Surf-Circ.

DV TOOL - Calc est depth 5462'

8-3/4" hole @ 10490'
7" 26# csg @ 10490'
w/ 1850 sx-TOC-~2740'

6-1/8" hole @ 13511'
5" 18# liner f/ 9993' - 13511'
w/ 325sx-TOC ~9993'

Perfs 12697' - 12705'

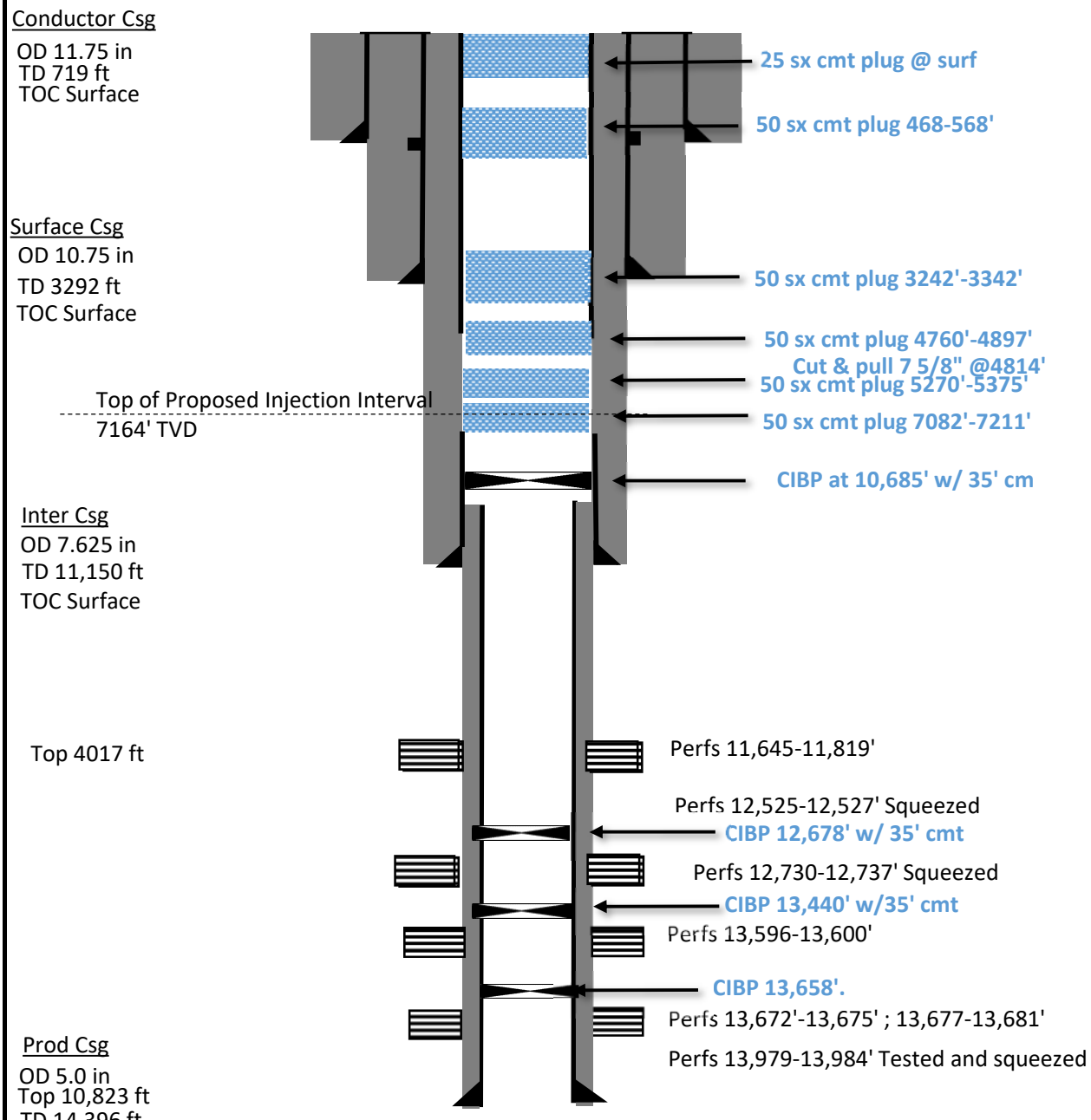
AOR WELL ID 25

Current Wellbore

Poker Lake Unit 232

30-015-34009

Eddy



AOR WELL ID 26

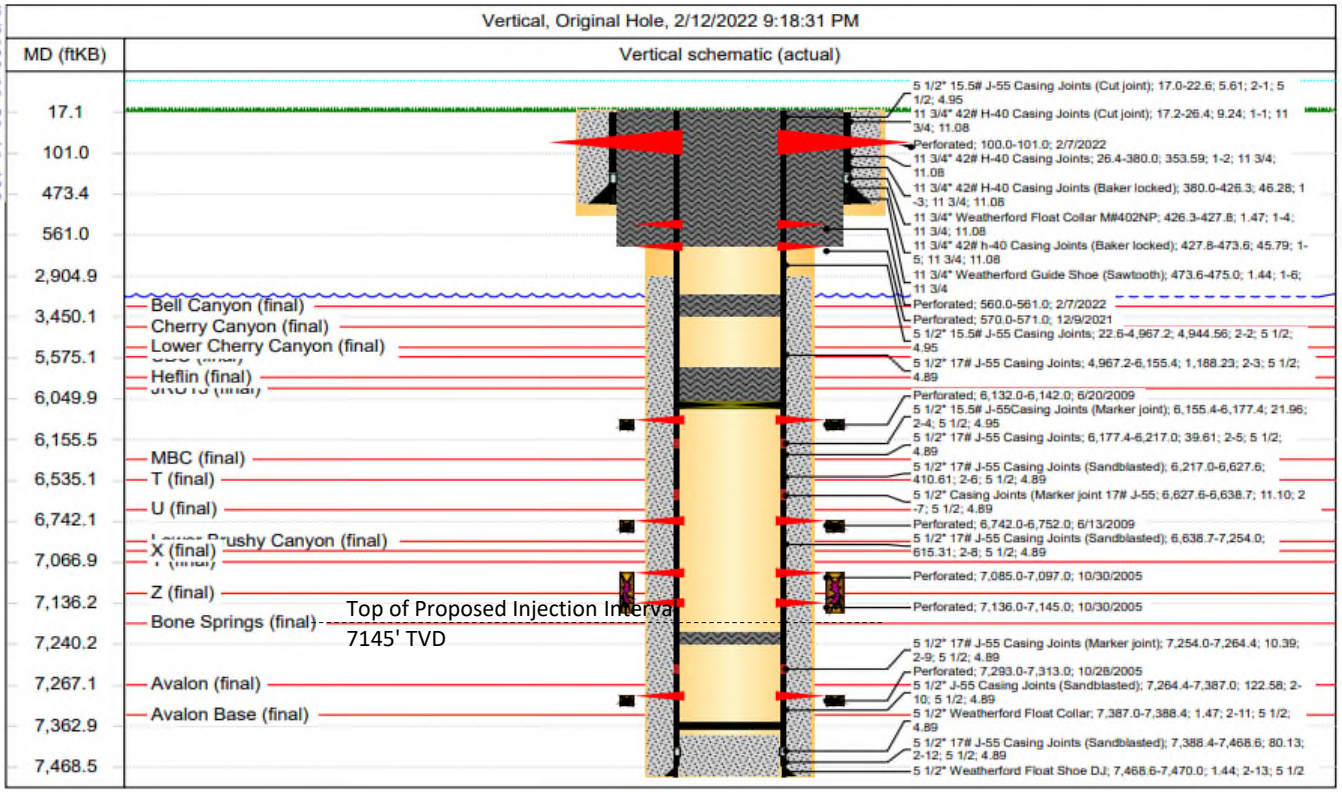
Wellbore Diagram - RRC

Well Name: POKER LAKE UNIT 222

API/UWI	SAP Cost Center ID	Permit Number	State/Province	County
3001534123	1138131001		New Mexico	Eddy

Surface Location	Spud Date	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevatio...
T24S-R30E-S19	9/27/2005 13:30	3,152.00	3,135.00	17.00	

Lease: Poker Lake Unit



Perforations

Top (ftKB)	Btm (ftKB)	Current Status
100.0	101.0	
560.0	561.0	
570.0	571.0	
6,132.0	6,142.0	Active (6,132.0 - 6,142.0 ftKB)
6,742.0	6,752.0	Active (6,742.0 - 6,752.0 ftKB)
7,085.0	7,097.0	Active (7,085.0 - 7,097.0 ftKB)
7,136.0	7,145.0	Active (7,136.0 - 7,145.0 ftKB)
7,293.0	7,313.0	Active (7,293.0 - 7,313.0 ftKB)

Cement

Des	Top (ftKB)	Top Meas Meth	Class	Amount (sacks)
Surface Casing Cement	17.0	Tagged	A	150
Surface Casing Cement	17.0	Tagged	A	400
Production Casing Cement	2,905.0	Tagged		780
Production Casing Cement	2,905.0	Tagged		120

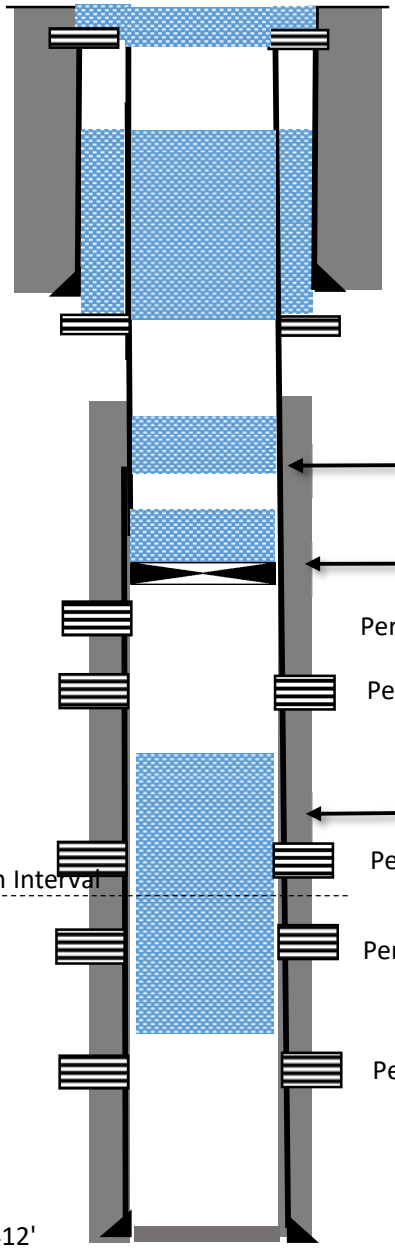
AOR WELL ID 27

Current Wellbore

PoKer Lake Unit 235

30-015-34309

Eddy



Conductor Csg
OD 8 5/8 in
TD 625 ft
TOC Surface

Production Csg
OD 5 1/5 in
TD 7500 ft
TOC 1780

Inter Csg
OD 7.625 in
TD 11,150 ft
TOC Surface

Prod Csg
OD 5.0 in
Top 10,823 ft
TD 14,396 ft

Perf'd at 60'. Squeezed 25 sx 680'-505'

Perf'd at 680'. Squeezed 185 sx 680'-505'

Spotted 25 sx Class C 3476'-3164'

CIBP at 5500' w/ cm 5500-5350'

Perfs 5542'-5552'

Perfs 6184'-6194'

Spotted 25 sx Class C 7275'-7050'

Perfs 7132'-7144'

Top of Proposed Injection Interval
7179' TVD

Perfs 7192'-7204'

Perfs 7340'-7360'

PBTD 7412'

AOR WELL 28

Wellbore Diagram - RRC

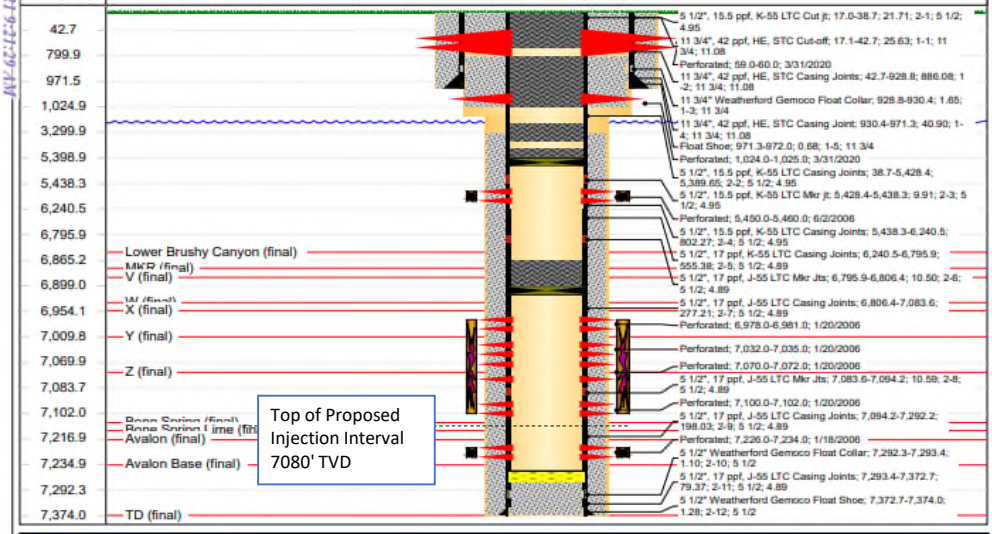
Well Name: HORNED TOAD 36 STATE 007

API/UWI	SAP Cost Center ID	Permit Number	State/Province	County
3001534347	1138202001		New Mexico	Eddy

Surface Location	Spud Date	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevatio...
T24S-R29E-S36	12/14/2005 19:00	3,117.00	3,100.00	17.00	

Lease: Horned Toad 36 State

Vertical, Original Hole, 12/1/2021 11:11:45 AM



Top of Proposed Injection Interval 7080' TVD

Perforations

Top (ftKB)	Btm (ftKB)	Current Status
59.0	60.0	
1,024.0	1,025.0	
5,450.0	5,460.0	Active (5,450.0 - 5,460.0 ftKB)
6,978.0	6,981.0	Active
7,032.0	7,035.0	Active (7,032.0 - 7,035.0 ftKB)
7,070.0	7,072.0	Active (7,070.0 - 7,072.0 ftKB)
7,100.0	7,102.0	Active (7,100.0 - 7,102.0 ftKB)
7,226.0	7,234.0	Active (7,226.0 - 7,234.0 ftKB)

Cement

Des	Top (ftKB)	Top Meas Meth	Class	Amount (sacks)
Surface Casing Cement	17.0	Circulated	Fresh Wtr	
Surface Casing Cement	17.0	Circulated	35/65	400
Surface Casing Cement	17.0	Circulated	C	200
Production Casing Cement	3,300.0	Tagged		260
Production Casing Cement	3,300.0	Tagged		230

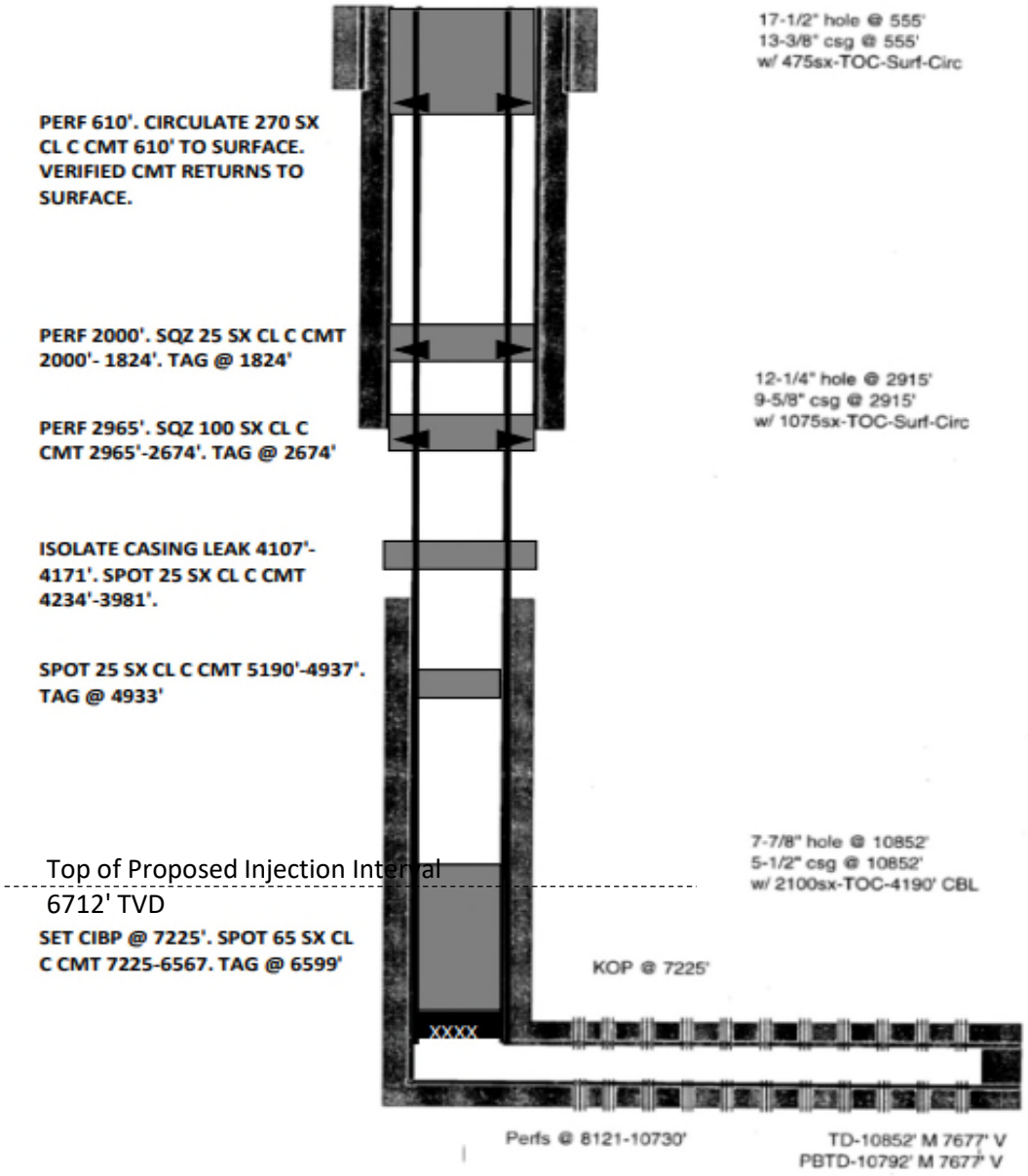
XTO Energy | Page 1/1 | Report Printed: 12/1/2021

Received by OCD: 4/27/2022 2:59:55 PM

AOR WELL ID 30

OXY USA INC.- FINAL WELLBORE
VORTEC 22 #1
30-015-34817

STEPHEN JANACEK 4/27/2022



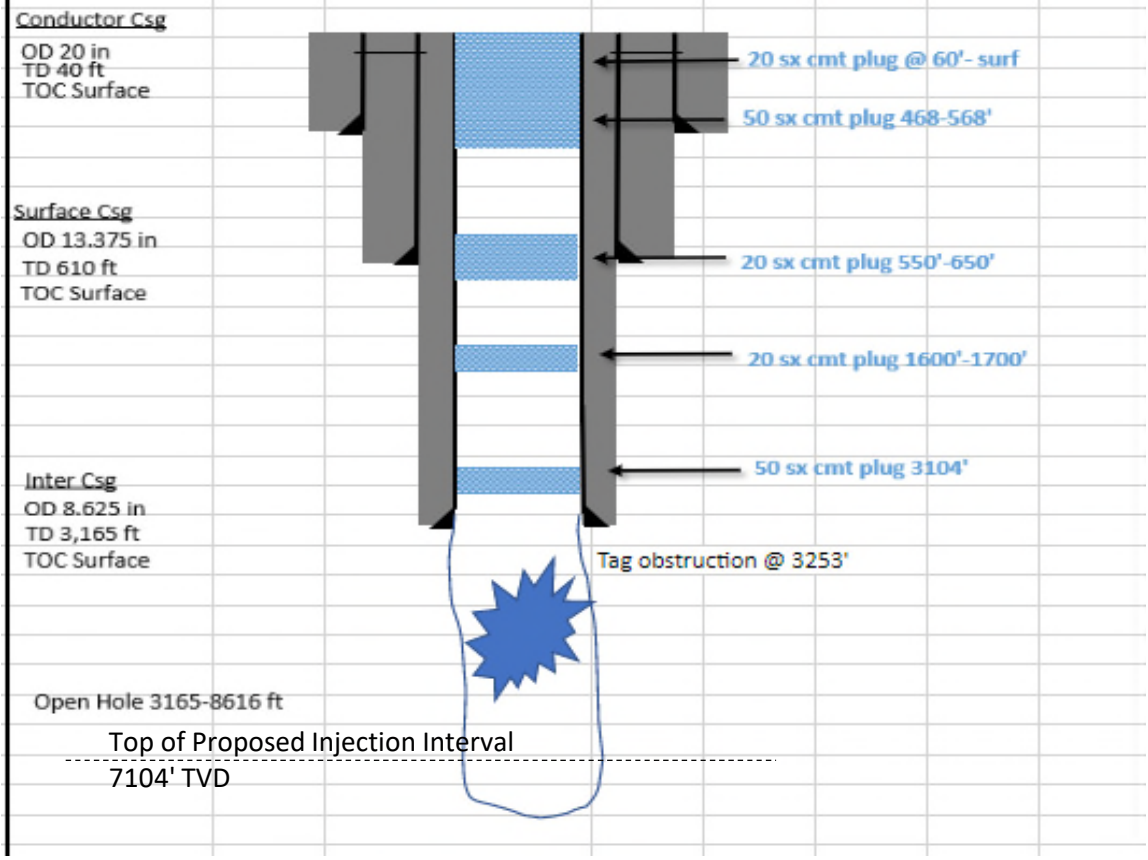
Current Wellbore

AOR WELL ID 32

Canyon BKJ State 1

3001535094

Eddy



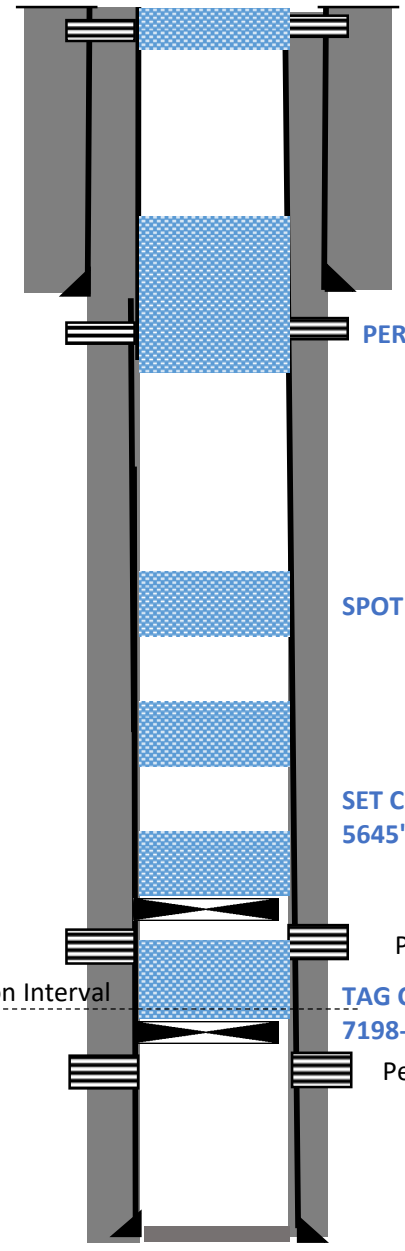
AOR WELL ID 35

Current Wellbore

Power Lake Unit 240

30-015-35843

Eddy



PERF AT 60'. CIRC 25 SX CMT.

PERF AT 775'. SPOT CMT 775'-582' (TAG).

SPOT 40 SX CMT 3435'-3025' (TAG).

SET CIBP 5900'. SPOT 25 SX CMT 5900'-5645' (TAG).

Perfs 5938-6985

Top of Proposed Injection Interval
7157' MD

TAG CIBP AT 7198. SPOT 25 SX CMT 7198-6945 (TAG).

Perfs 7276-7322

Inter Csg
OD 8-5/8 in
TD 721 ft
TOC Surface

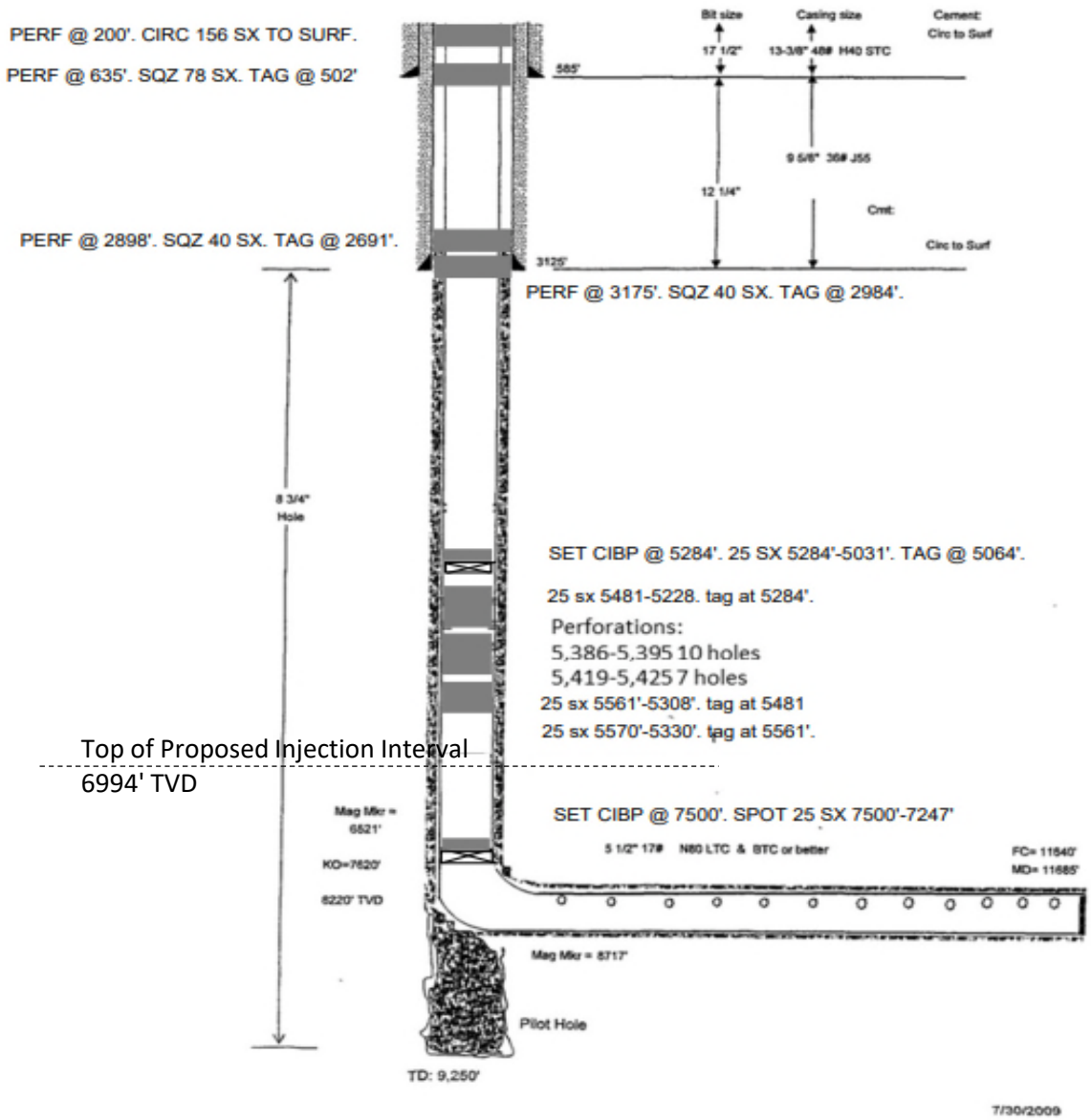
Prod Csg
OD 5.5 in
TD 7,427 ft
TOC surface (circ)

Received by OCD: 4/28/2022 8:19:56 AM

AOR WELL ID 36

STEPHEN JANACEK
4/28/22

FINAL WELLBORE DIAGRAM
CHALLENGER 1 STATE #1H
30-015-36535

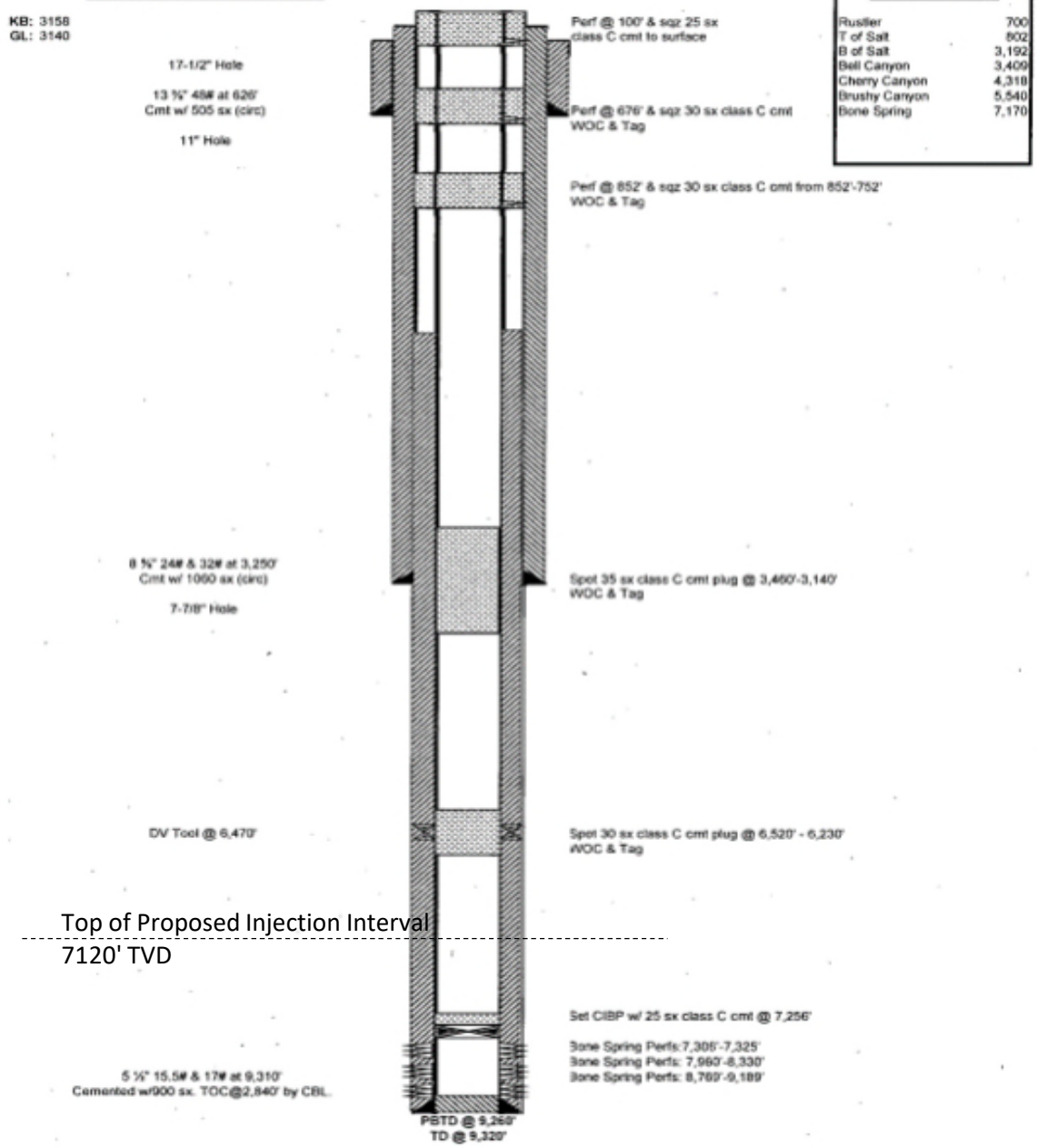


Location:	330' FNL & 360' FEL Sec. 1-25S-29E
County:	Eddy County, NM
Lat/Long:	32.165741,-103.930687 NAD83
API #:	30-015-36605
Spud Date:	9/14/08
Compl. Date:	11/11/08

AOR WELL ID 37

eog resources

Proposed Wellbore Diagram:



Formation Tops

Rustler	700
T of Salt	802
B of Salt	3,192
Bell Canyon	3,409
Cherry Canyon	4,318
Brushy Canyon	5,540
Bone Spring	7,170

Geology

CORRAL CANYON & CORRAL FLY 2ND BONE SPRING STORAGE ZONE AND PERMEABILITY BARRIERS

Proposed Storage Zone

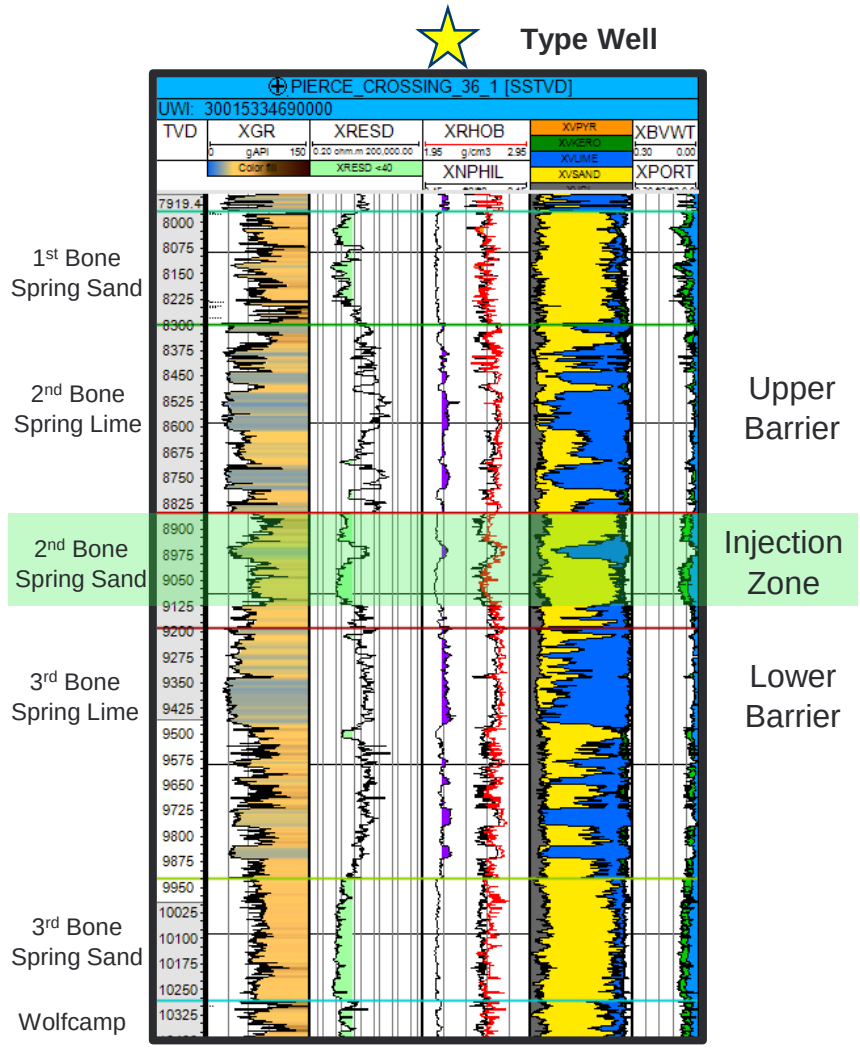
- 2nd Bone Spring Sand
  - The reservoir is comprised of tight siltstone. Core data indicates that the grain sizes range from coarse siltstone to very-fine-grained subarkose sandstone. Samples show evidence of moderate compaction. Minor amounts of illite and smectitie clays are found throughout the samples ranging from 5% to 15%. Cements are Fe-calcite, Fe-dolomite, pore-bridging illite and some quartz overgrowths. Minor amounts of pyrite (<1%) are present. The resulting reservoir rock has a porosity between 8-18% with an average porosity of 9.7%. Permeability measured by injection fall-off tests conducted within the reservoir ranges from 10 millidarcies to 0.003 millidarcies.

Adjacent Oil & Gas Production Zones

- 1st Bone Spring Sand
  - The reservoir is comprised of tight siltstone. Core data indicates that the grain sizes range from coarse siltstone to very-fine-grained subarkose sandstone. Samples show evidence of moderate compaction. Minor amounts of illite and smectitie clays are found throughout the samples ranging from 5% to 15%. Cements are Fe-calcite, Fe-dolomite, and some quartz overgrowths. Minor amounts of pyrite (<1%) are present. The resulting reservoir rock has a porosity between 8-18% with an average porosity of 11.7%. Permeability measured by injection fall-off tests conducted within the reservoir ranges from .02 millidarcies to 0.001 millidarcies. Siliceous mudstone with natural permeability is in the nan-darcy range.
- 3rd Bone Spring Sand
  - The reservoir is comprised of tight siltstone. Core data indicates that the grain sizes range from coarse siltstone to very-fine-grained subarkose sandstone. Samples show evidence of moderate compaction. Minor amounts of illite and smectitie clays are found throughout the samples ranging from 5% to 15%. Cements are Fe-calcite, Fe-dolomite, and some quartz overgrowths. Minor amounts of pyrite (<1%) are present. The resulting reservoir rock has a porosity between 8-18% with an average porosity of 11.7%. Permeability measured by injection fall-off tests conducted within the reservoir ranges from .02 millidarcies to 0.001 millidarcies. Siliceous mudstone with natural permeability is in the nan-darcy range.

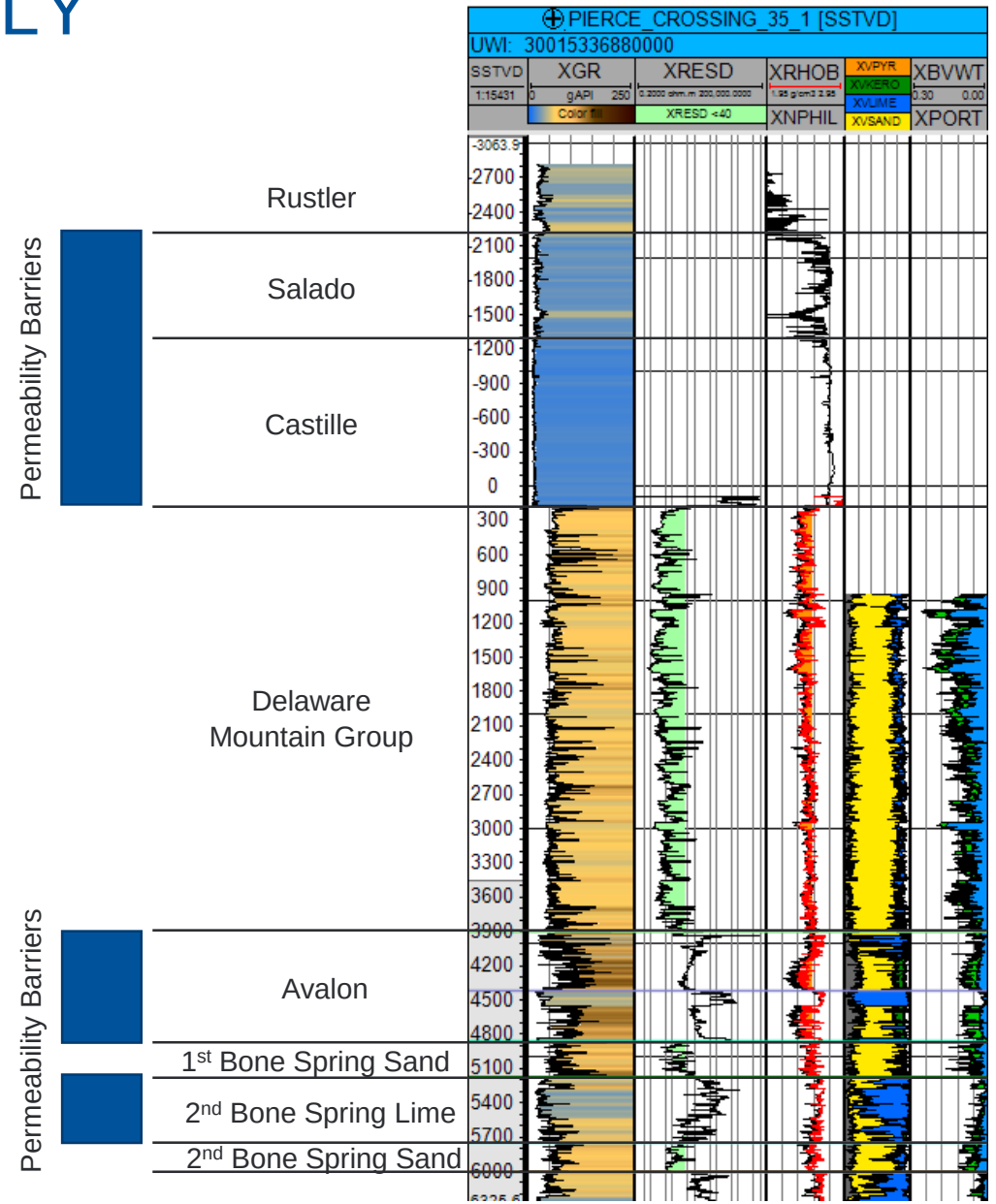
Confining Layers

- Low-permeability barriers act as seals above and below the reservoir. These barriers consist of carbonate mudstone, dolomudstone, and shales that are ~970 ft. thick above and ~570 ft. thick below. Laterally, the injection will be primarily contained by the reservoir volume that has been previously and partially depleted by the adjacent producing wells.
- 2nd Bone Spring Limestone is the upper permeability barrier between the 2nd Bone Spring Sand storage zone and the adjacent 1st Bone Spring Sand. The barrier is comprised of tight dolomudstones and shales.
- 3rd Bone Spring Limestone is the lower permeability barrier between the 2nd Bone Spring Sand storage zone and the adjacent 3rd Bone Spring Sand. The barrier is comprised of tight dolomudstones and shales.



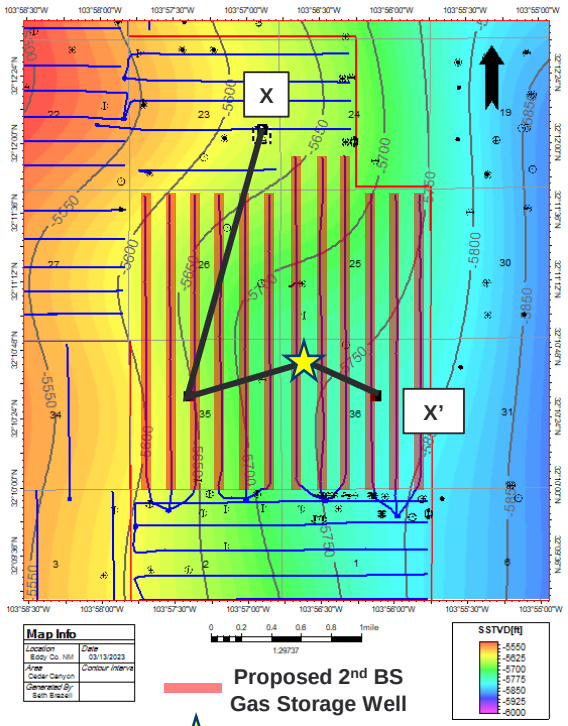
CORRAL CANYON & CORRAL FLY FRESHWATER AQUIFERS

- The top of the Bone Spring Formation is at ~6,950 ft. (true vertical depth) with over 1,400 ft. of carbonate mudstones and shales acting as additional permeability barriers to upward migration of injected gas.
- Above that the Delaware Mountain Group consists of connate water bearing and hydrocarbon-bearing sands, with minor limestone and shale intervals and is over 3,700 ft. thick.
- Above that is the Castile Formation consisting of very low permeability anhydrite, gypsum, and calcite that acts as another 1,500 ft. thick barrier to upward movement of fluids.
- The Salado overlies the Castile and forms a 1,000 ft. thick barrier of salt. The top of the Salado is at 892 ft. and the deep aquifers found just above the Salado at the base of the Rustler are saline water.
- The top of Rustler Formation is at about 210 ft. The Rustler top is a continuous anhydrite layer that acts as another permeability barrier creating a perched aquifer above it that is the lowest level where fresh water is known in the area. Because of the thickness of multiple impermeable rock layers above the injection reservoir there is no possible path for migration upward into freshwater aquifers where they exist.
- An investigation of existing shallow water wells has not found any freshwater wells within a two-mile radius of these injectors.

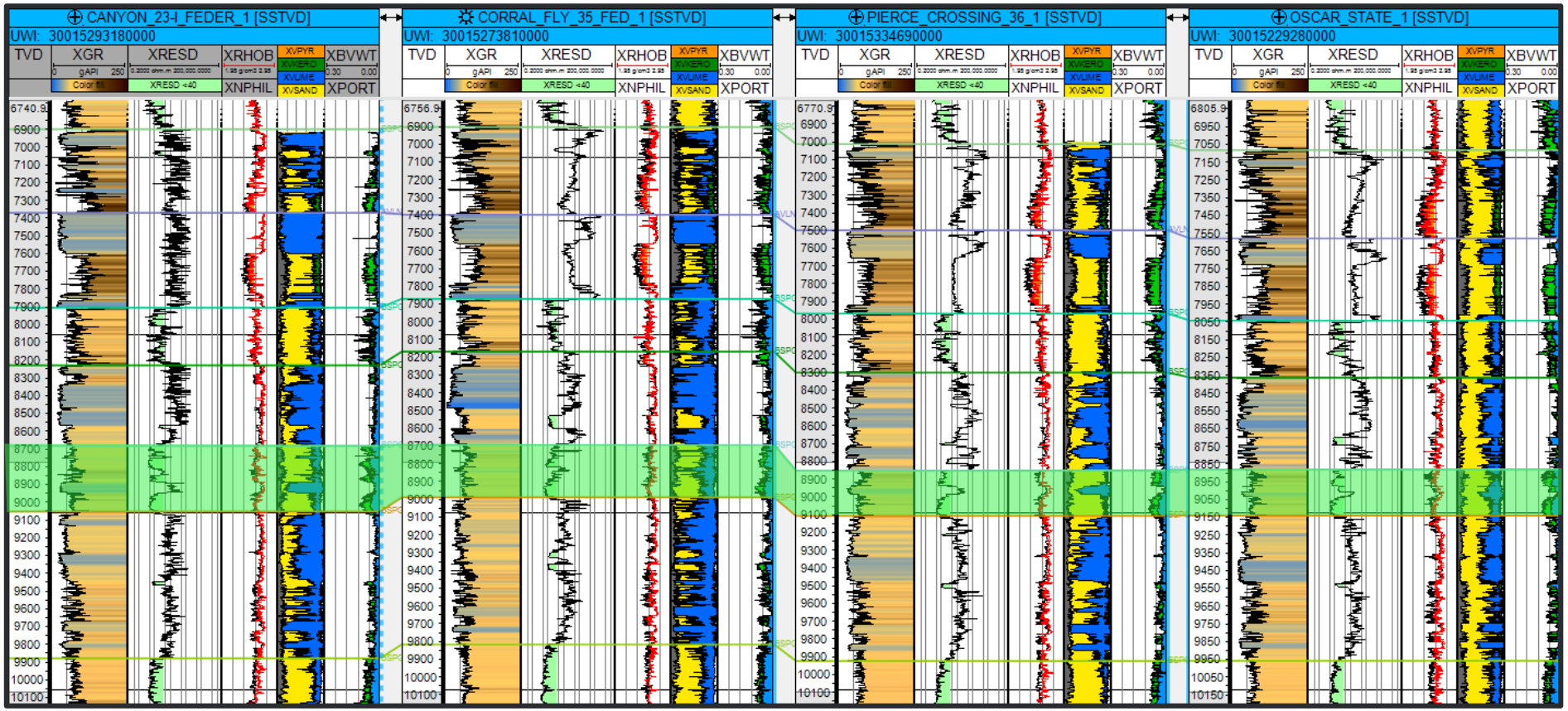


2ND BONE SPRING SAND STRUCTURAL CROSS-SECTION

Cross Section Location



X X'

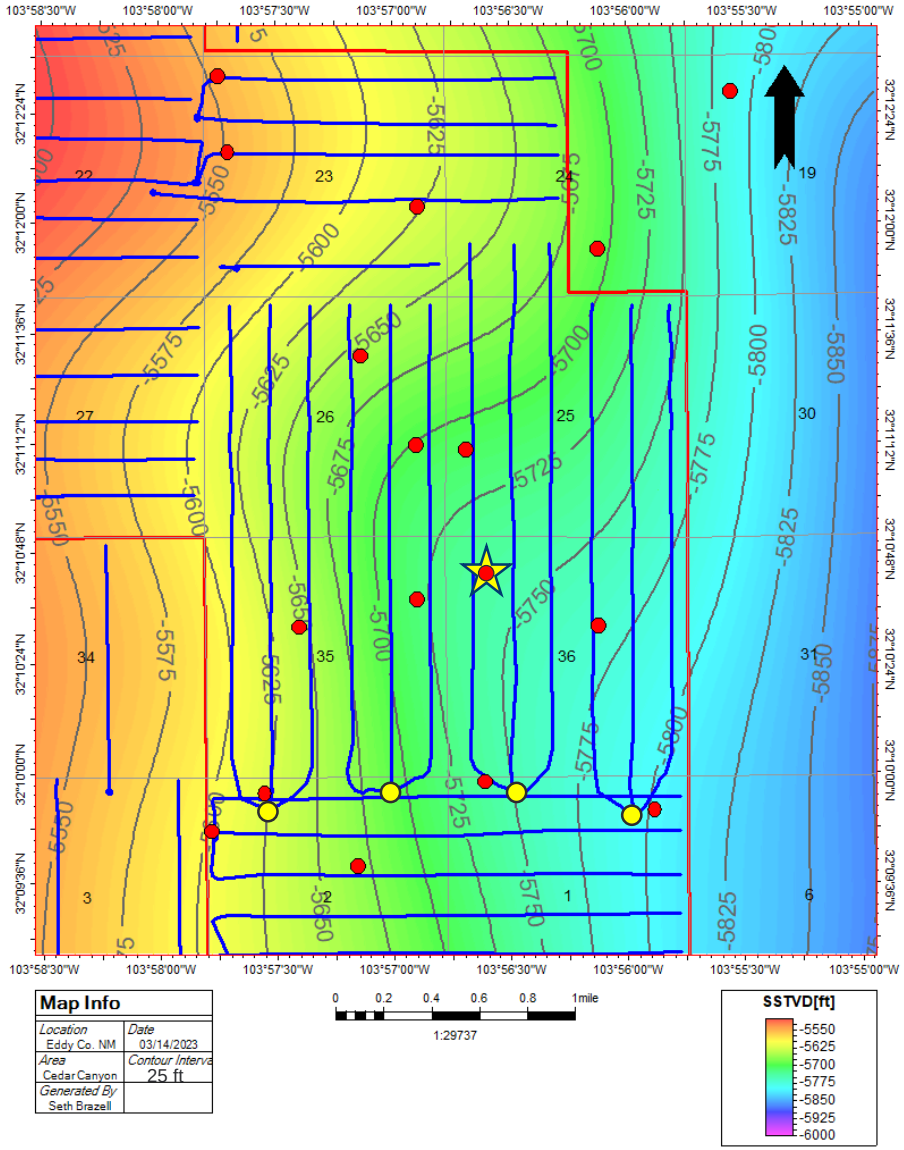


Corral Canyon and Corral Fly CLGC Candidates

API	Well Name	Status
30-015-44631	Corral Canyon 36-25 Fed Com 21H	2023 Candidate
30-015-44632	Corral Canyon 36-25 Fed Com 22H	2023 Candidate
30-015-44633	Corral Canyon 36-25 Fed Com 23H	2023 Candidate
30-015-44634	Corral Canyon 36-25 Fed Com 24H	2023 Candidate
30-015-44635	Corral Canyon 36-25 Fed Com 25H	2023 Candidate
30-015-44636	Corral Canyon 36-25 Fed Com 26H	2023 Candidate
30-015-44702	Corral Fly 35-26 Fed Com 21H	2023 Candidate
30-015-44703	Corral Fly 35-26 Fed Com 22H	2023 Candidate
30-015-44704	Corral Fly 35-26 Fed Com 23H	2023 Candidate
30-015-44705	Corral Fly 35-26 Fed Com 24H	2023 Candidate
30-015-44683	Corral Fly 35-26 Fed Com 25H	2023 Candidate
30-015-44684	Corral Fly 35-26 Fed Com 26H	2023 Candidate

CORRAL CANYON & CORRAL FLY 2ND BONE SPRING SAND TOP STRUCTURE MAP

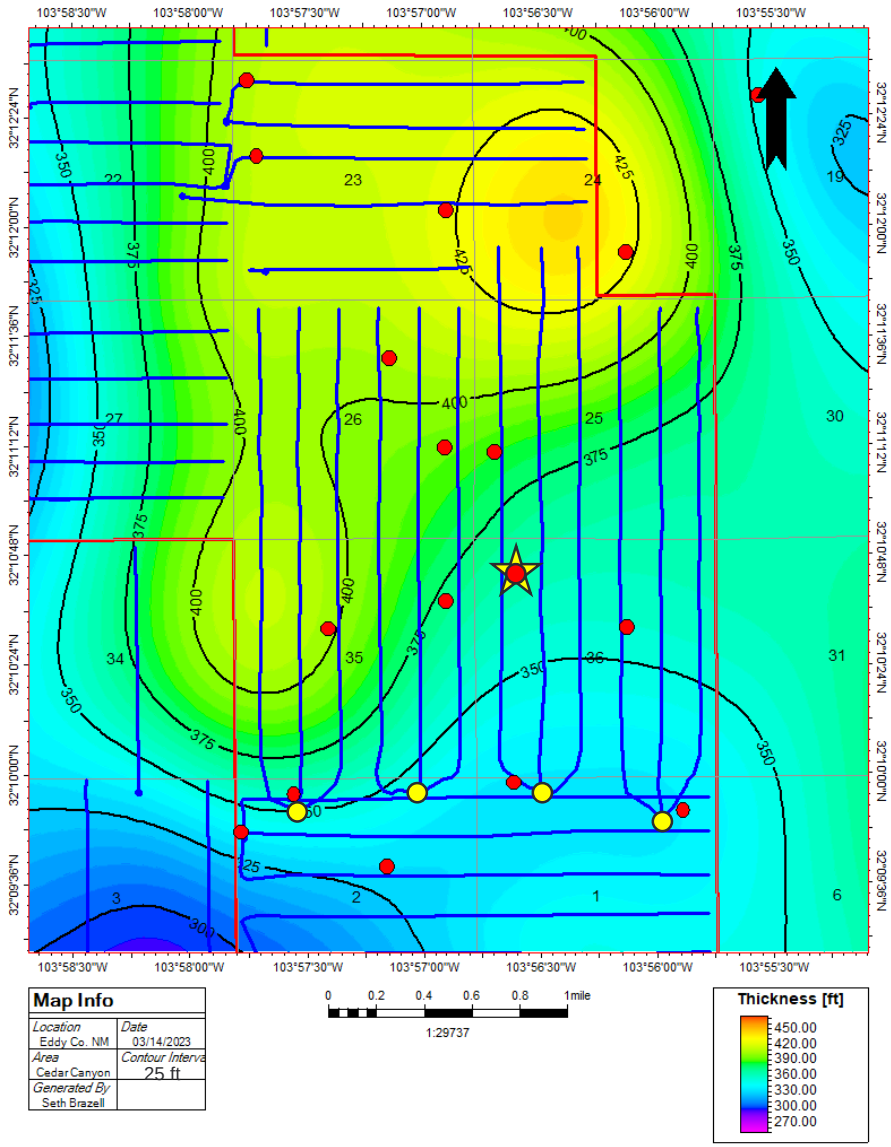
- Sections highlighted include CLGC candidate sections 25, 26, 35, 36 and adjacent sections
- OXY operated sections include 22, 23, 25, 26, 27, 35, 36 and portions of section 24 in township T24S R29E and sections 1 and 2 in township T25S R29E
- Posted depths show top of 2nd Bone Spring Sand reservoir in SSTVD units
- Structural well control highlighted by red circles
- Surface hole locations of CLGC candidates highlighted by yellow circles



- Well Control
- CLGC Well SHL
- Type Log Well

CORRAL CANYON & CORRAL FLY 2ND BONE SPRING SAND ISOCHORE MAP

- Sections highlighted include CLGC candidate sections 25, 26, 35, 36 and adjacent sections
- OXY operated sections include 22, 23, 25, 26, 27, 35, 36 and portions of section 24 in township T24S R29E and sections 1 and 2 in township T25S R29E
- Posted values show 2nd Bone Spring Sand reservoir thickness in feet
- Isochore well control highlighted by red circles
- Surface hole locations of CLGC candidates highlighted by yellow circles



- Well Control
- CLGC Well SHL
- Type Log Well

Closed Loop Gas Capture (CLGC) Project

Affirmative Statement 1

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.

Seth Brazell, Geologist — Date: 3/14/2023

Rahul Joshi, Reservoir Engineer — Date: 3/14/2023

Reservoir

Project Overview

- Closed loop gas capture project (CLGC) IN Oxy's NM assets
- Produced gas injection into productive formation in NM (2BS)
- Gas injection into horizontal wells of 10,000 ft lateral length
- Purpose of Modeling
  - >Review potential effects on wells adjacent to the CLGC area
  - >Quantify movement of the injected gas
  - >Utilize data from Cedar Canyon Huff and Puff Projects

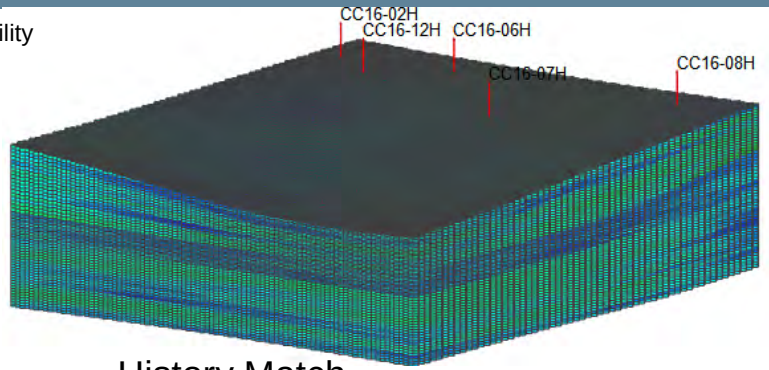
Model Set-up

- Uses Cedar Canyon Sec 16 2nd BSS (as shown in layout below)
- Gas Injection pilot (EOR) was implemented in CC16-7H well in 2017
- Reservoir model is history matched for primary production and gas injection pilot
- Model is also tuned to capture injection gas breakthrough in offset wells that was observed during pilot period
- Gas injection pilot wells are 4 wells per section; model is adjusted to simulate the effect of closer wells (6 wps)

Cedar Canyon Section-16 Reservoir Model

Location:	Lea County,NM
Model Acreage:	640
Pay Horizon:	2nd Bone Springs Sand
Lithology:	Sandstone interbedded with Limestone
Trap Type:	Stratigraphic
Nominal Depth:	8400 ft
Gas Cap (at discovery):	No
Primary Drive Mechanism:	Solution Gas Drive

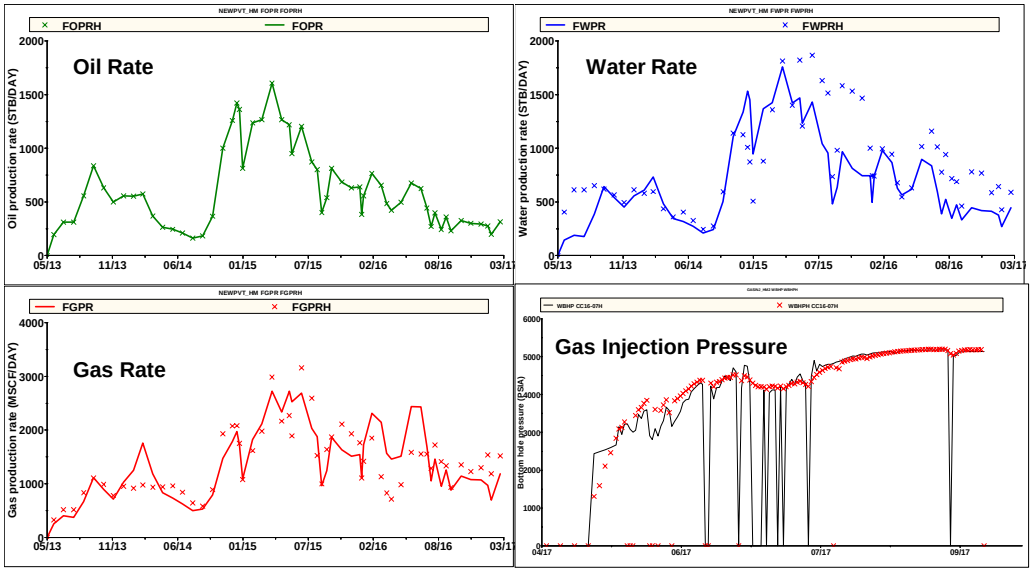
Structure & Permeability
1,177,400 Grids
56 Layers



Model Inputs

Gross Pay:	320 ft
Net Pay:	320 ft
Avg Porosity:	6.8%
Initial Sw:	50%
Permeability:	0.001md (matrix)
Initial Reservoir Pressure:	4500 psi
Reservoir Temperature:	150 F
Oil Gravity:	42 API
Boi:	1.63 RB/STB
Rsi:	1480 SCF/STB
Original Oil in Place:	28 MMSTB

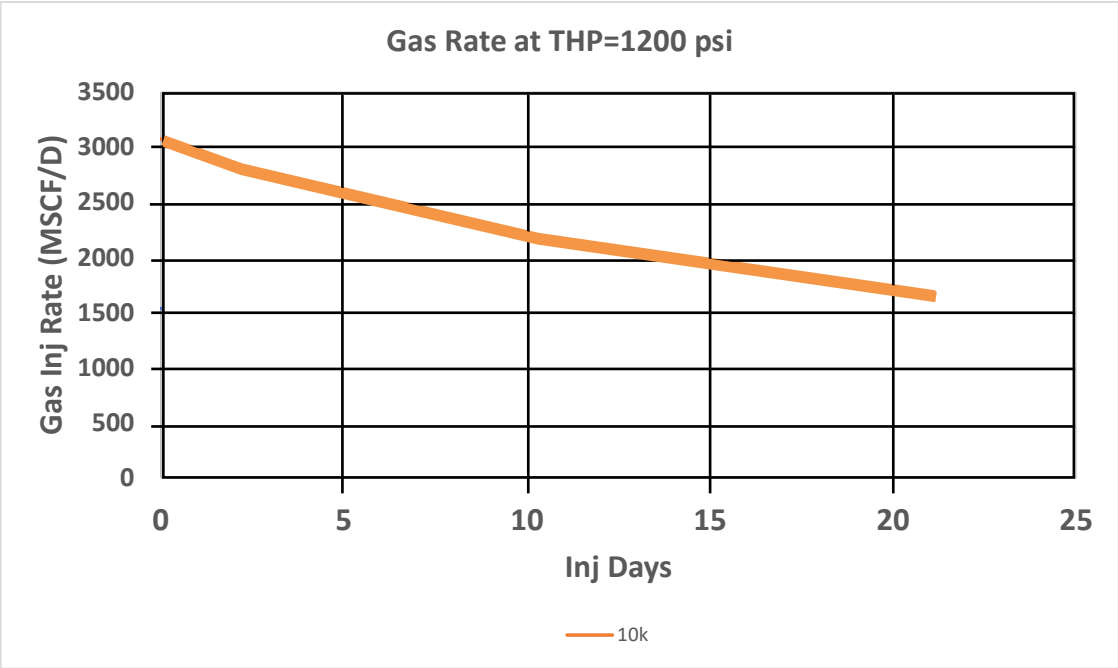
History Match



Gas Storage Simulation Process

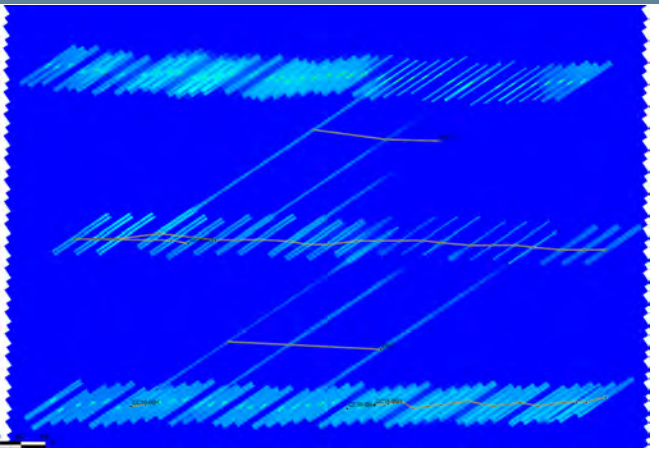
- Run primary production for all wells for additional period (post history match) – Base Case
- Inject gas in injection well at 2MMSCFPD for 7 days
- Produce the injection well post injection – Injection Case
- Observe the effect on oil, gas rate/recovery in injection well and offset wells by comparing Base and Injection cases

Gas Injection Rates

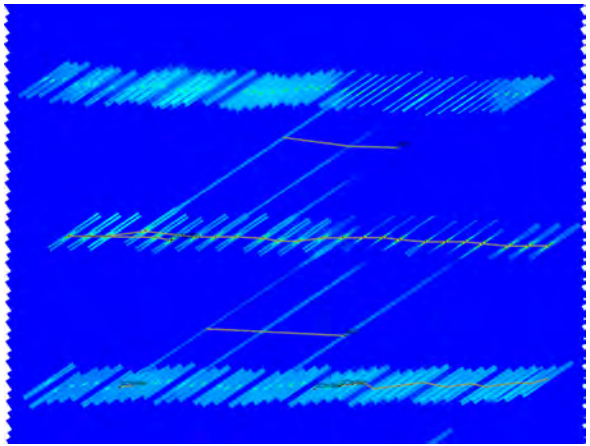


For a 10k well, 3 MMSCFPD is the max injection rate at THP of 1200 psi. Injection rate declines to about 50% of its initial value in 3 weeks. For long injection case a flat injection rate of 3MMSCFPD for 3 weeks is used as worst-case scenario.

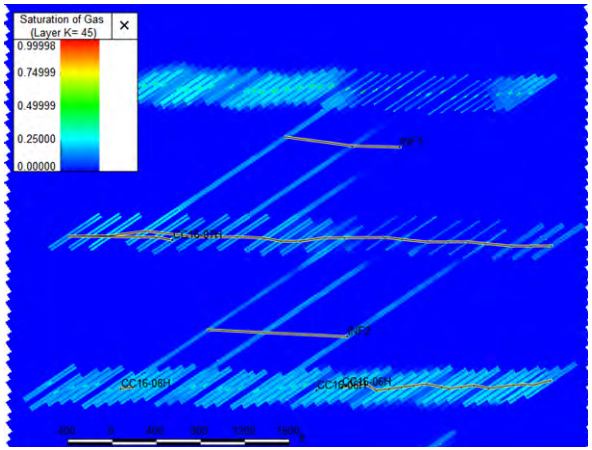
Gas Injection Profile



Before injection

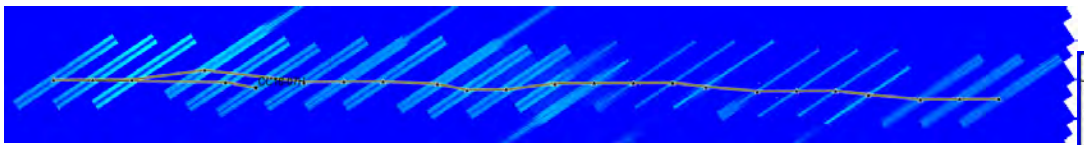


After 1 week of injection (3 MMSCFPD)

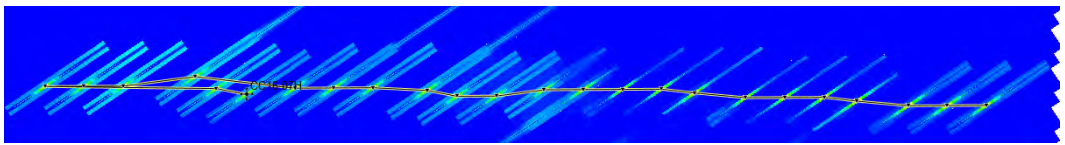


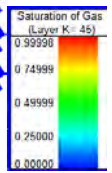
After 16 months production

Before Injection CC16-7H Blow-up



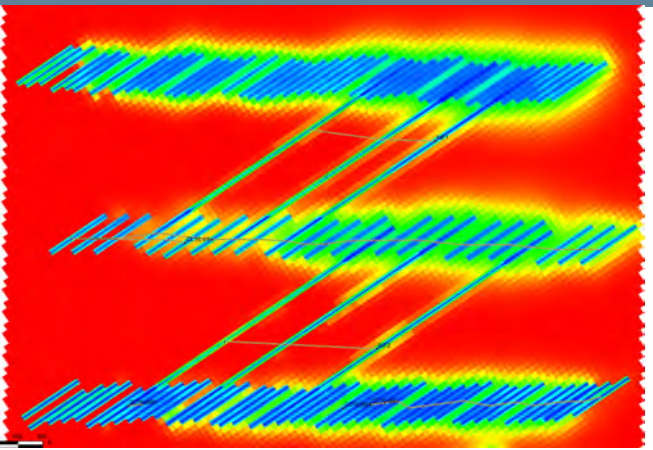
After Injection CC16-7H Blow-up



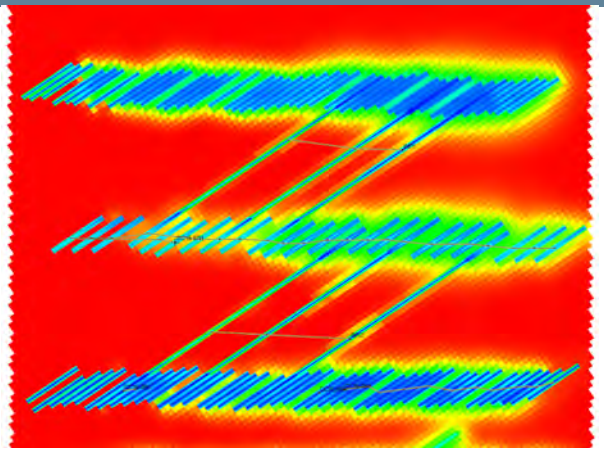


- Gas is stored within fractures.
- All injection cases indicate horizontal gas movement of 100 ft or less into the fractures.

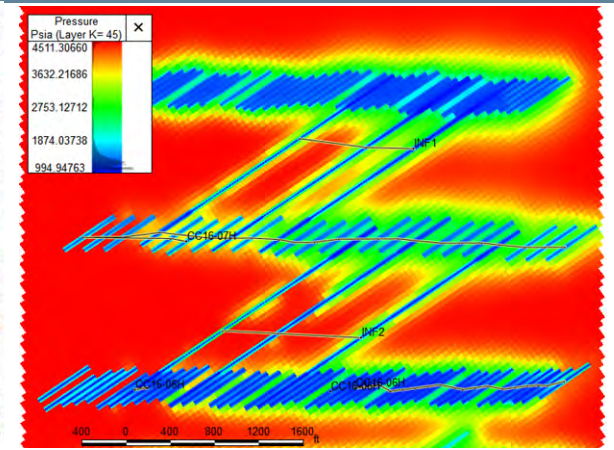
Pressure Profile



Before injection

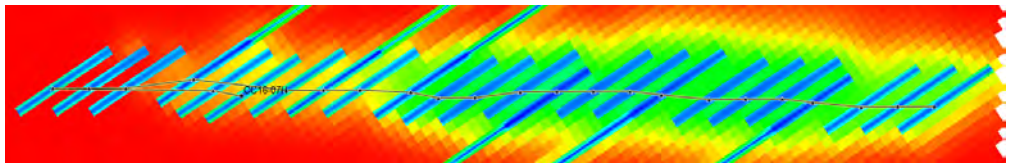


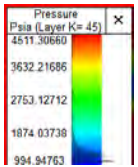
After 1 week of injection (3 MMSCFPD)



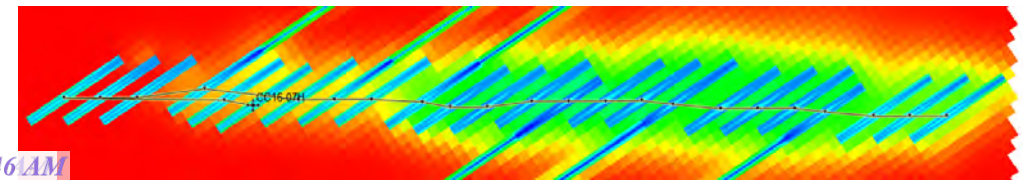
After 16 months production

Before Injection CC16-7H Blow-up





After Injection CC16-7H Blow-up



Summary of Cases

Case	Injection Description*	WPS	Oil recovery effect in injected well (MBO)	Oil recovery effect in offset wells (MBO)	Gas breakthrough in Offset well
1	Single Well	4	No change	No change	No
2	Single Well**	6	No change	No change	No
3	Single Well	8	No change	No change	No
4	Single Well (Multiple injection and production cycles)	6	No change	No change	No
5	Single well***	6	No change	No change	No
6	Multiple Adjacent Wells	4	No change	No change	No
7	Multiple Adjacent Wells	6	No change	No change	No
8	Multiple Adjacent Wells	8	No change	No change	No

**All injection at 2MMSCF/DAY for 7 days except cases 2 and 5*

***Injection at 3MMSCF/DAY for 7 days*

****Injection at constant surface pressure of 1200 psi for 21 days*

Gas Storage Capacity

API	Well	Fracture Gas Volume (MMSCF)	Total prod gas equivalent, mmscf
3001544631	Corral Canyon 36-25 Fed Com 21H	144	1348
3001544632	Corral Canyon 36-25 Fed Com 22H	144	1438
3001544633	Corral Canyon 36-25 Fed Com 23H	145	1403
3001544634	Corral Canyon 36-25 Fed Com 24H	126	1153
3001544635	Corral Canyon 36-25 Fed Com 25H	127	1082
3001544636	Corral Canyon 36-25 Fed Com 26H	128	908
3001544702	Corral Fly 35-26 Fed Com 21H	126	1549
3001544703	Corral Fly 35-26 Fed Com 22H	125	1363
3001544704	Corral Fly 35-26 Fed Com 23H	124	1250
3001544705	Corral Fly 35-26 Fed Com 24H	128	1447
3001544683	Corral Fly 35-26 Fed Com 25H	129	1467
3001544684	Corral Fly 35-26 Fed Com 26H	130	1357

Stimulated Rock Volume (SRV)

API	Well Name	Avg Xf (ft)	Avg H (ft)	Well Length (ft)	SRV, ft3
3001544631	Corral Canyon 36-25 Fed Com 21H	400	350	10000	2,800,000,000
3001544632	Corral Canyon 36-25 Fed Com 22H	400	350	10000	2,800,000,000
3001544633	Corral Canyon 36-25 Fed Com 23H	400	350	10000	2,800,000,000
3001544634	Corral Canyon 36-25 Fed Com 24H	400	350	10000	2,800,000,000
3001544635	Corral Canyon 36-25 Fed Com 25H	400	350	10000	2,800,000,000
3001544636	Corral Canyon 36-25 Fed Com 26H	400	350	10000	2,800,000,000
3001544702	Corral Fly 35-26 Fed Com 21H	400	350	10000	2,800,000,000
3001544703	Corral Fly 35-26 Fed Com 22H	400	350	10000	2,800,000,000
3001544704	Corral Fly 35-26 Fed Com 23H	400	350	10000	2,800,000,000
3001544705	Corral Fly 35-26 Fed Com 24H	400	350	10000	2,800,000,000
3001544683	Corral Fly 35-26 Fed Com 25H	400	350	10000	2,800,000,000
3001544684	Corral Fly 35-26 Fed Com 26H	400	350	10000	2,800,000,000

Gas storage capacity is high for each well

- SRV : 2*Xf*Xh*WellLength

Closed Loop Gas Capture (CLGC) Project

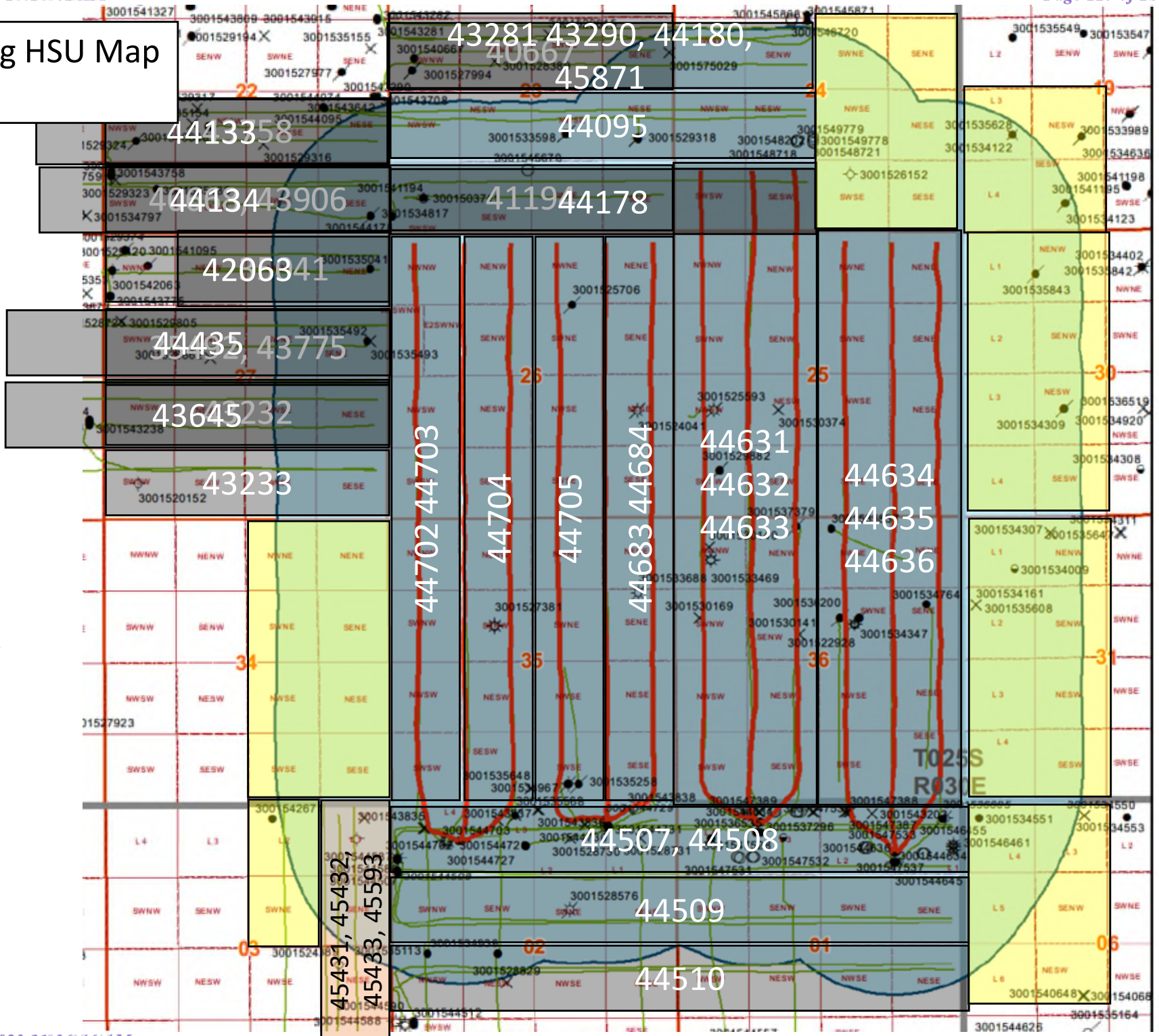
Affirmative Statement 2

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.

_____ 02/17/2023_____

Rahul Joshi, Reservoir Engineer Date

Bone Spring HSU Map
3/21/23



GOR Gas Allocation

GOR Gas Allocation Plan for CLGC Wells

Application

The following methodology will apply to CLGC wells on a well by well basis. The application will start after a CLGC storage event and will end after 100% of the Storage Gas Injection Inventory is recovered. Afterwards, Gas Allocation will revert to previous accounting procedures.

Overview

During a CLGC storage event, a portion of the combined gas streams from source wells will be stored in a CLGC well. After a storage event, the wellhead gas produced from a CLGC well will consist of three components: Gas Lift Gas, Native Gas, and Storage Gas Production. Both Native Gas and Storage Gas Production are produced from the reservoir, and the combined production is Reservoir Gas.

Wellhead Gas Produced = Gas Lift Gas + Native Gas + Storage Gas Production

Gas Lift Gas is measured continuously for each well. This methodology applies a Gas-Oil-Ratio (GOR) Calculation to determine the Native Gas (owned by the owners of the CLGC well) and Storage Gas Production (owned by the owners of the source wells).

A Well Test Allocation Method will be utilized after a storage event. In the example below, the well tests values are highlighted. The values between are interpolated.

Example

The following data is a simulated, 1-Day storage event.

- 2000 mscf is injected over 24 consecutive hours.
- The well is produced back immediately following a storage event.
- The data has been truncated at 24 days because it is included for illustration purposes.

The input and calculated values for an example well are listed below:

Values	Description
Wellhead Gas Produced, mscf/d	Wellhead gas, measured with well test
Gas Lift Gas, mscf/d	Gas Lift Gas injection, measured with flow meter
Reservoir Gas, mscf/d	Reservoir Gas, the difference between Wellhead Gas and Gas Lift Gas, calculated
Oil, bbl/d	Oil production, measured with well test
Water, bbl/d	Water production, measured with well test
GOR, scf/bbl	Gas Oil Ratio (GOR), engineer calculation based on previous oil and gas well tests before a storage event
Native Gas- GOR Calc, mscf/d	Minimum of Reservoir Gas or Native Gas Production using GOR, calculated
Storage Gas Injection, mscf/d	Storage Gas Injection, measured with flow meter

Storage Gas Injection Inventory, mscf	Storage Gas Injection Inventory, cumulative amount of storage gas injection minus storage gas production, calculated
Storage Gas Production, mscfd	Storage Gas Production, difference between Reservoir Gas and Calculated Native Gas Production, calculated

Column	1	2	3	4	5	6	7	8	9	10
Calculation or measurement	Well Test	Flow Meter	1-2	Well Test	Well Test	Engineer Analysis	MIN (3,4*6/1000)	Flow Meter	8-10 + 9_PreviousRow	IF(9>0, 3-7,0)
Day	Wellhead Gas Produced, mscf/d	Gas Lift Gas, mscf/d	Reservoir Gas, mscf/d	Oil, bbl/d	Water, bbl/d	GOR, scf/bbl	Native Gas-GOR Calc, mscf/d	Storage Gas Injection, mscf/d	Storage Gas Injection Inventory, mscf	Storage Gas Production, mscfd
-90	626	500	126	63	103	2,005	126	0	0	0
-60	625	500	125	62	101	2,032	125	0	0	0
-30	624	500	124	60	99	2,053	124	0	0	0
1	623	500	123	59	96	2,081	123	0	0	0
2	0	0	0	0	0	2,050	0	2000	2000	0
3	850	500	350	45	80	2,050	92	0	1743	257
4	741	500	241	50	86	2,050	102	0	1604	139
5	713	500	213	52	88	2,050	107	0	1498	106
6	685	500	185	54	91	2,050	111	0	1424	73
7	675	500	175	55	92	2,050	113	0	1362	62
8	665	500	165	56	93	2,050	115	0	1313	50
9	661	500	161	57	93	2,050	116	0	1267	45
10	657	500	157	57	94	2,050	117	0	1227	40
11	653	500	153	57	94	2,050	117	0	1192	35
12	649	500	149	58	95	2,050	118	0	1161	31
13	647	500	147	58	95	2,050	118	0	1133	28
14	645	500	145	58	95	2,050	119	0	1106	26
15	643	500	143	58	95	2,050	119	0	1082	24
16	641	500	141	58	95	2,050	119	0	1060	22
17	640	500	140	58	95	2,050	119	0	1038	21
18	639	500	139	58	94	2,050	119	0	1018	20
19	639	500	139	58	94	2,050	119	0	998	20
20	638	500	138	58	94	2,050	119	0	980	19
21	637	500	137	58	93	2,050	119	0	962	18
22	636	500	136	58	93	2,050	119	0	945	17
23	635	500	135	58	93	2,050	119	0	930	16
24	634	500	134	58	92	2,050	119	0	915	15

Well Test Allocation Method

Following an injection period, the allocation of oil and gas production shall be based on the production life of each CLGC well as measured for three periods: (a) the initial production period shall be measured from the end of the injection period until the peak gas production rate is reached; (b) the plateau period shall be measured from the end of the initial production period to the peak decline rate; and (c) the decline period shall be measured from the end of the plateau period until the well has recovered the previously-injected volume.

During the initial production period, the oil and gas production for each CLGC well shall be allocated using daily well tests or separated and metered individually prior to commingling.

During the plateau period, the oil and gas production for each CLGC well shall be allocated using a production curve calculated from a minimum of three (3) well tests per month. The production curve shall be calculated by interpolating daily production for each day using the known daily production obtained by well tests and shall use a method of interpolation that is at minimum as accurate as maintaining a constant rate of change for each day's production between the known daily production values.

During the decline period, the oil and gas production for each CLGC well shall be allocated using a production curve calculated from a minimum well testing frequency as follows: (a) a minimum of three (3) well tests per month when the decline rate is greater than 22% per month; (b) a minimum of two (2) well tests per month when the decline rate is between 22% and 10% per month; and (c) a minimum of one (1) well test per month when the decline rate is less than 10% per month. The production curve shall be calculated by interpolating daily production for each day using the known daily production obtained by well tests and shall use a method of interpolation that is at minimum as accurate as maintaining a constant rate of change for each day's production between the known daily production values.

Applicant shall conduct a well test by separating and metering the oil and gas production from each well for either (a) a minimum of twenty-four (24) consecutive hours; or (b) a combination of nonconsecutive periods that meet the following conditions: (i) each period shall be a minimum of six (6) hours; and (ii) the total duration of the nonconsecutive periods shall be a minimum of eighteen (18) hours.

CLGC Candidate Selection

In selecting candidates for CLGC injectors, all wells tied into the gas sales system were evaluated based on their native gas production, oil production, and flowing bottom hole pressure (FBHP). To minimize impact to oil production, wells were evaluated based on the Gas Reduced to Oil Ratio (GROR) calculation. This metric is the sum of native gas production and the maximum proposed injection gas (storage volume) divided by the oil production. FBHP was subsequently used to target more depleted wells.

$$GROR = \frac{Native\ gas\ rate\ (mscfd) + Storage\ gas\ rate\ (mscfd)}{Oil\ rate\ (bbl/d)}$$

CLGC Candidate Sequencing

Storage well sequencing will be handled similarly to the candidate selection process. Wells will be prioritized based on GROR (defined above) until the total gas removed from the system is greater than the temporary reduction in takeaway capacity.

Notice

Corral Canyon and Corral Fly Notice List 4/3/23

Party	Address
Agencies and Surface Owners	
Bureau of Land Mangment	301 Dinosaur Trail Santa Fe, NM 87508
State Land Office	P.O. Box 1148 Santa Fe, NM 87504
Offset Operators	
XTO ENERGY, INC	XTO ENERGY, INC 6401 Holiday Hill Rd, Building #5 Midland, TX 79707
Other Affected Persons and Parties	
Bettis Brothers Inc	Bettis Brothers Inc 500 West Texas #830 Midland, TX 79701
Chevron USA Inc	Chevron USA Inc 1400 Smith Street Houston, TX 77002 Attn: NM Land
CNX Gas Co LLC	CNX Gas Co LLC PO Box 1248 Jane Lew, WY 26378-1248
COG Operating LLC	COG Operating LLC 600 West Illinois Midland, TX 79701
Contango Resources Inc	Contango Resources Inc 717 Texas Avenue, Suite 2900 Houston, TX 77002
CTV O&G NM LLC	CTV O&G NM LLC 201 Main Street, Ste. 2700 Ft. Worth, TX 76102-3131
Eleven Sands Exploration Inc	Eleven Sands Exploration Inc P.O. Box 31560 Edmond, OK 73003
Kona LTD	Kona LTD 1302 West Avenue Austin, TX 78701
SBI West Texas I LLC	SBI West Texas I LLC 6702 Broadway Galveston, TX 77554
XTO Holdings, LLC	XTO Holdings, LLC 22777 Springwoods Village Pkwy Spring, TX 77389-1425

Exhibits

CORRAL CLOSED LOOP GAS CAPTURE (CLGC) PROJECT

OCD Exhibit A

Order Number:	NA
Operator:	Oxy USA, Inc. (16696)

Project Pools

Pool Name:	Pool Code:
PIERCE CROSSING; BONE SPRING, EAST	96473

Project Area (NMPM)

UL or Q/Q:	S-T-R:
M, N	24-24S-29E
ALL	25-24S-29E
ALL	26-24S-29E
ALL	35-24S-29E
ALL	36-24S-29E

CLGC Wells

Well API:	Well Name:	UL or Q/Q:	S-T-R:	Pool:
30-015-44702	Corral Fly 35-26 Fed Com 21H	W/2 OF W/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		W/2 OF W/2	26-24S-29E	
30-015-44703	Corral Fly 35-26 Fed Com 22H	E/2 OF W/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2 OF W/2	26-24S-29E	
30-015-44704	Corral Fly 35-26 Fed Com 23H	E/2 OF W/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2 OF W/2	26-24S-29E	
30-015-44705	Corral Fly 35-26 Fed Com 24H	W/2 OF E/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		W/2 OF E/2	26-24S-29E	
30-015-44683	Corral Fly 35-26 Fed Com 25H	E/2 OF E/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2 OF E/2	26-24S-29E	
30-015-44684	Corral Fly 35-26 Fed Com 26H	E/2 OF E/2	35-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2 OF E/2	26-24S-29E	
30-015-44631	Corral Canyon 36-25 Fed Com 21H	W/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		W/2	25-24S-29E	
		M, N	24-24S-29E	
30-015-44632	Corral Canyon 36-25 Fed Com 22H	W/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		W/2	25-24S-29E	
		M, N	24-24S-29E	
30-015-44633	Corral Canyon 36-25 Fed Com 23H	W/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		W/2	25-24S-29E	
		M, N	24-24S-29E	
30-015-44634	Corral Canyon 36-25 Fed Com 24H	E/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2	25-24S-29E	
30-015-44635	Corral Canyon 36-25 Fed Com 25H	E/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2	25-24S-29E	
30-015-44636	Corral Canyon 36-25 Fed Com 26H	E/2	36-24S-29E	PIERCE CROSSING; BONE SPRING, EAST
		E/2	25-24S-29E	

OCD Exhibit B

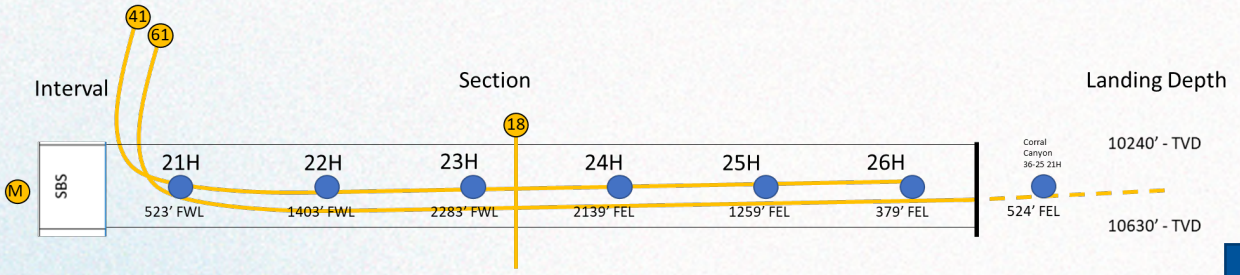
Order Number: NA
Operator: Oxy USA, Inc. (16696)

CLGC Wells and Offset Wells

Well API:	Well Name:	Upper Confining Layer:	AOR ID Number:	Offset Well API:	Offset well Name:
30-015-44702	Corral Fly 35-26 Fed Com 21H	Second Bone Spring Limestone above Second Bone Spring Sandstone	41	30-015-41194	CEDAR CANYON 23 #002H
			42	30-015-42063	CEDAR CANYON 27 STATE COM #004H
			43	30-015-43232	CEDAR CANYON 27 FEDERAL #006H
			44	30-015-43233	CEDAR CANYON 27 FEDERAL #007H
			47	30-015-43645	CEDAR CANYON 28 27 FEDERAL COM #005H
			50	30-015-43775	CEDAR CANYON 27 FEDERAL COM #005H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44703	Corral Fly 35-26 Fed Com 22H	Second Bone Spring Limestone above Second Bone Spring Sandstone	41	30-015-41194	CEDAR CANYON 23 #002H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44704	Corral Fly 35-26 Fed Com 23H	Second Bone Spring Limestone above Second Bone Spring Sandstone	18	30-015-27381	CORRAL FLY 35 FED COM #001
			41	30-015-41194	CEDAR CANYON 23 #002H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44705	Corral Fly 35-26 Fed Com 24H	Second Bone Spring Limestone above Second Bone Spring Sandstone	18	30-015-27381	CORRAL FLY 35 FED COM #001
			41	30-015-41194	CEDAR CANYON 23 #002H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44683	Corral Fly 35-26 Fed Com 25H	Second Bone Spring Limestone above Second Bone Spring Sandstone	41	30-015-41194	CEDAR CANYON 23 #002H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44684	Corral Fly 35-26 Fed Com 26H	Second Bone Spring Limestone above Second Bone Spring Sandstone	41	30-015-41194	CEDAR CANYON 23 #002H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44631	Corral Canyon 36-25 Fed Com 21H	Second Bone Spring Limestone above Second Bone Spring Sandstone	53	30-015-44095	CEDAR CANYON 23 FEDERAL COM #006H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44632	Corral Canyon 36-25 Fed Com 22H	Second Bone Spring Limestone above Second Bone Spring Sandstone	53	30-015-44095	CEDAR CANYON 23 FEDERAL COM #006H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44633	Corral Canyon 36-25 Fed Com 23H	Second Bone Spring Limestone above Second Bone Spring Sandstone	53	30-015-44095	CEDAR CANYON 23 FEDERAL COM #006H
			61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44634	Corral Canyon 36-25 Fed Com 24H	Second Bone Spring Limestone above Second Bone Spring Sandstone	61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44635	Corral Canyon 36-25 Fed Com 25H	Second Bone Spring Limestone above Second Bone Spring Sandstone	61	30-015-44507	CORRAL FLY 02 01 STATE #021H
30-015-44636	Corral Canyon 36-25 Fed Com 26H	Second Bone Spring Limestone above Second Bone Spring Sandstone	61	30-015-44507	CORRAL FLY 02 01 STATE #021H

CORRAL FLY 35-26: GUNBARREL VIEW

Gunbarrel View

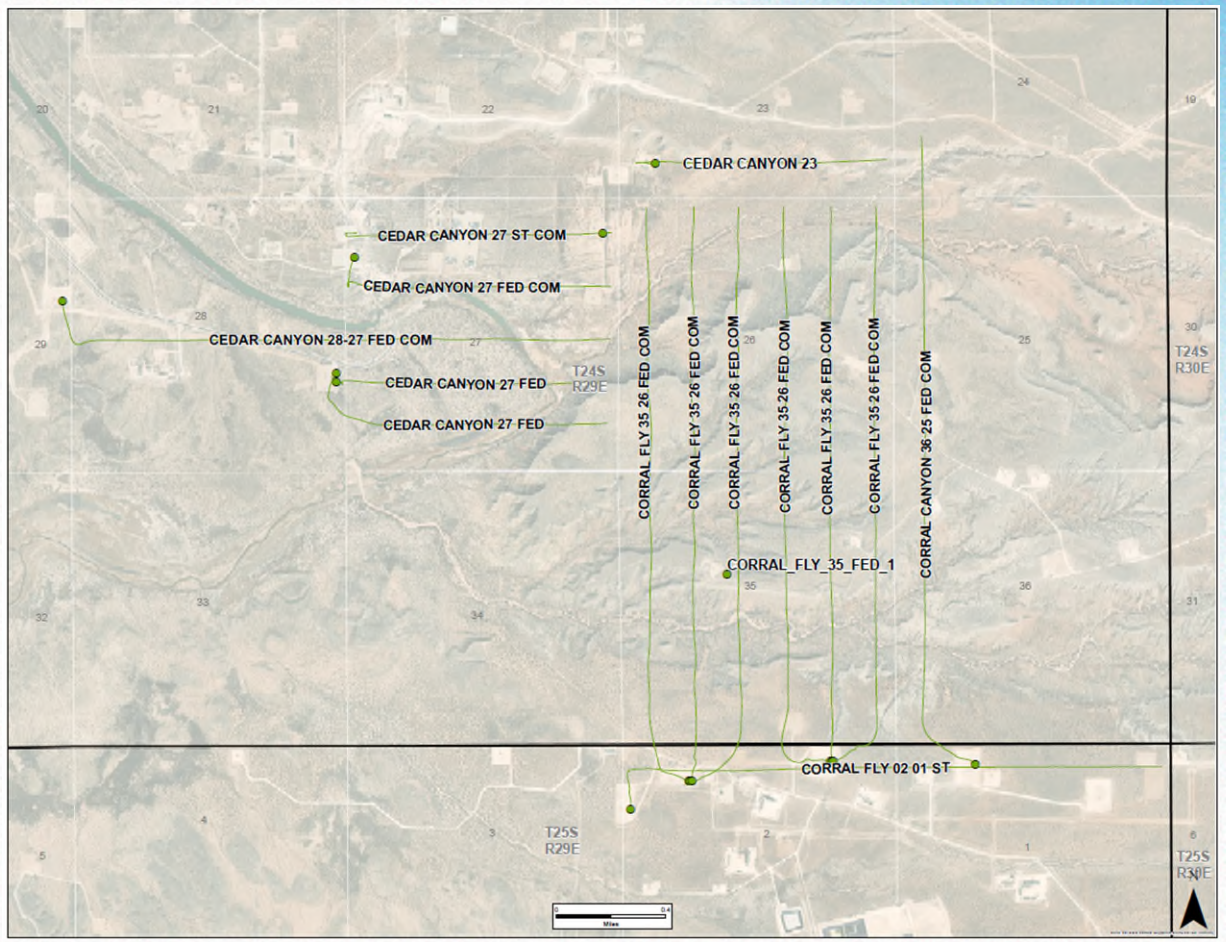


Key

- Proposed CLGC Well Number
- Offset Active Well with Well AOR ID #
- (M) Multiple offset perpendicular wells- Well AOR ID # 42, 43, 44, 47, 50

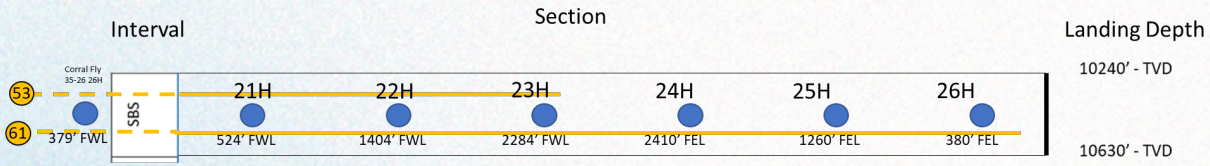
Note- Well ID # 41 and 61 are offset, perpendicular horizontal wells

Top View



CORRAL CANYON 36-25: GUNBARREL VIEW

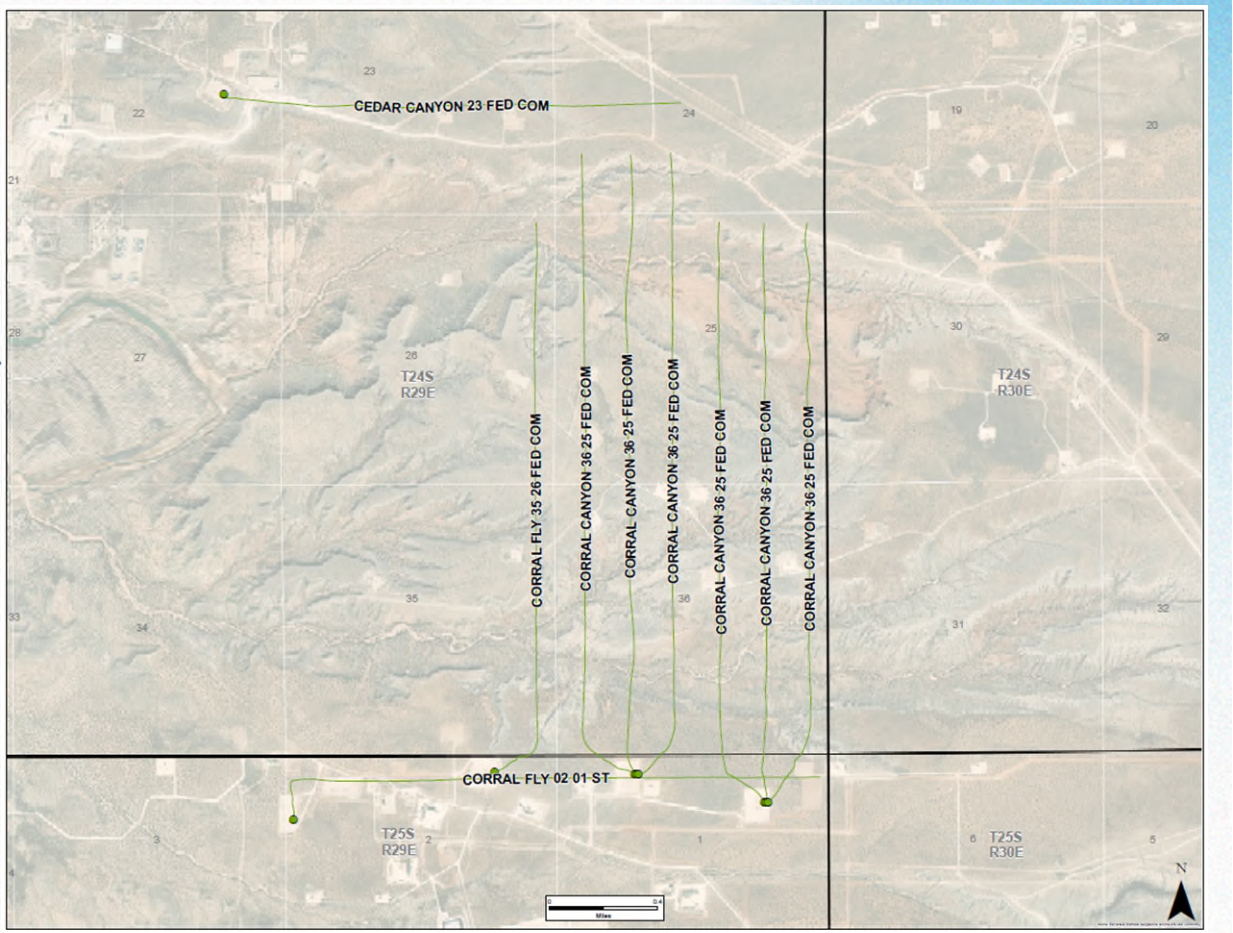
Gunbarrel View



Key

- Proposed CLGC Well Number
- Offset Active Well with Well AOR ID Number

Top View



RESERVOIR ANALYSIS FOR CLOSED LOOP GAS CAPTURE PROJECT

Rahul Joshi/Xueying Xie

RAHUL JOSHI

Education

- Indian Institute of Technology, India
  - B.S. Geological Sciences- 1999
- University of Tulsa
  - M.S. Petroleum Engineering- 2003

Experience

- Vintage Petroleum, Tulsa OK (2004-2006)
  - Reservoir Modelling & Simulation – Reservoir model for full field development AnNagyah field, Yemen

- Occidental Oil & Gas, Houston (2006-2007)
  - Reservoir Modelling & Simulation – Reservoir model for full field development for Oxy Yemen

- Occidental Permian, Midland/Houston (2007-2013)
  - Reservoir Engineer – Field development and reservoir management for Oxy Permian's waterflood and CO2 properties

- Occidental Oil & Gas, Houston (2013-2014)
  - Reservoir Modelling & Simulation – Reservoir model for feasibility study of CO2 flood for MBB sand at Elk Hills, Oxy California

- Occidental Resources, Houston (2014-Present)
  - Reservoir Modelling & Simulation – Reservoir model for unconventional primary development (wells/per section) and EOR

CONTENTS

CEDAR CANYON EOR INJECTION MODEL, 2017

Purpose of Model

- Built model to history match EOR line drive gas injection in horizontal wells in unconventional reservoirs for project feasibility.

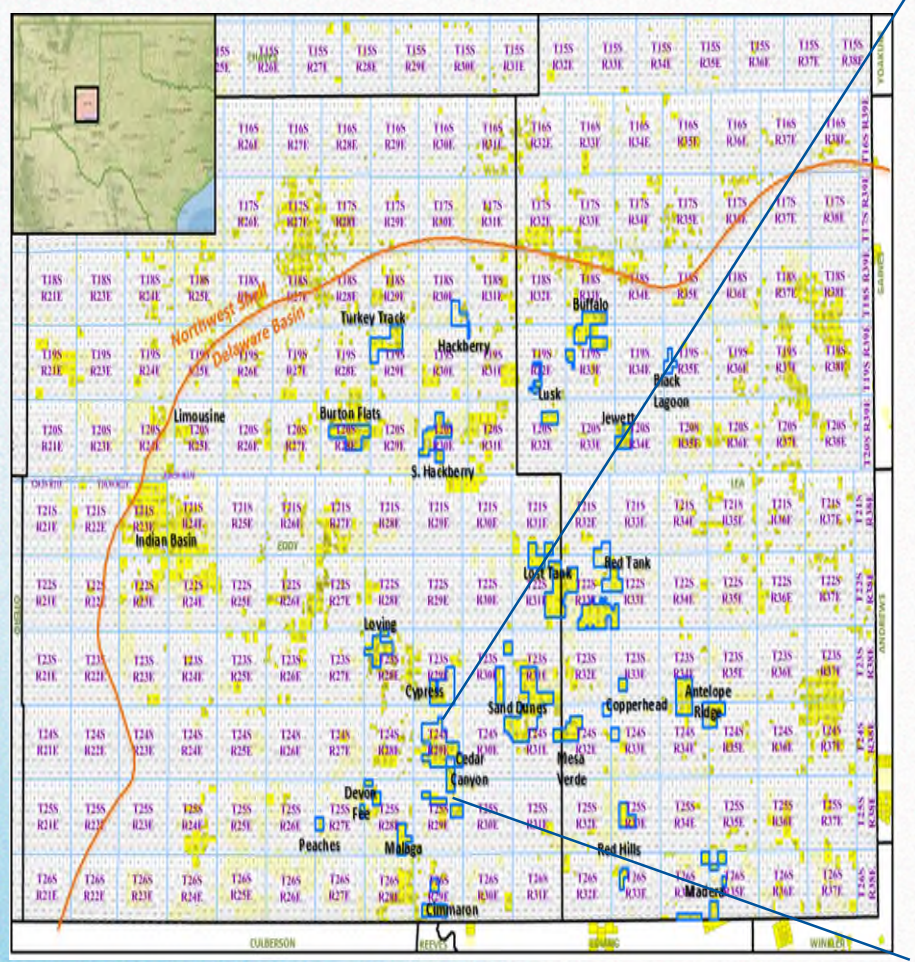
Model Inputs

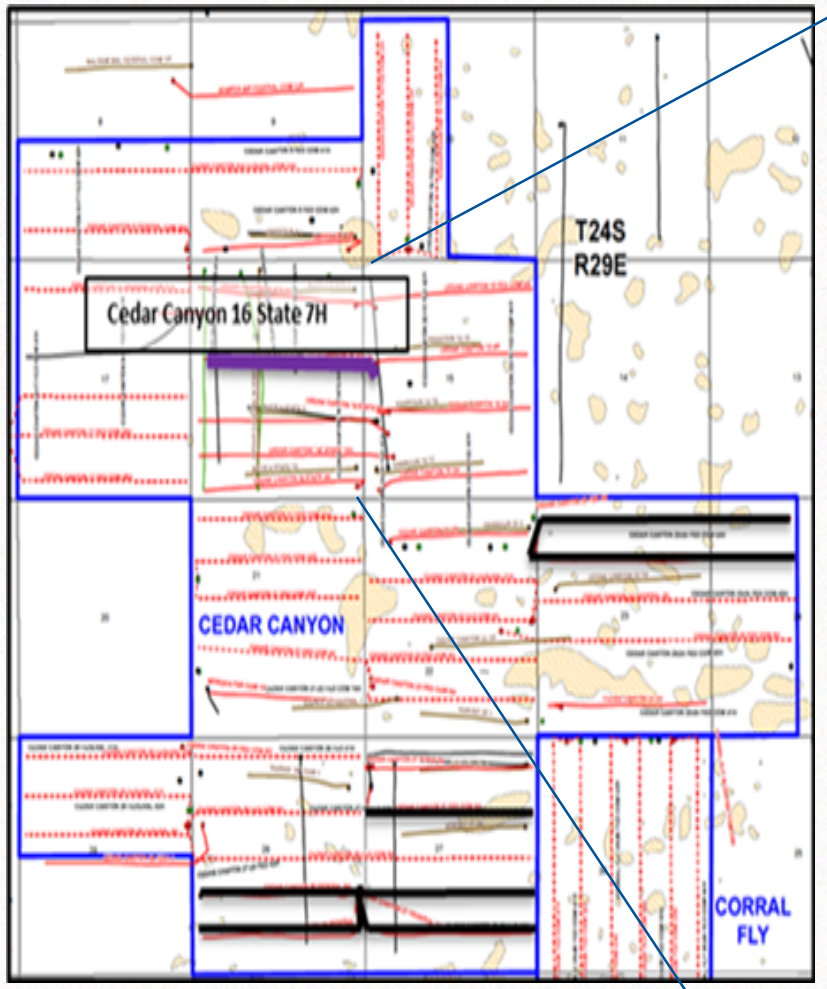
- Horizontal wells with 5,000 ft laterals
- Geologic and Reservoir properties of the Second Bone Spring Sandstone Formation
- 4 Horizontal Wells per section

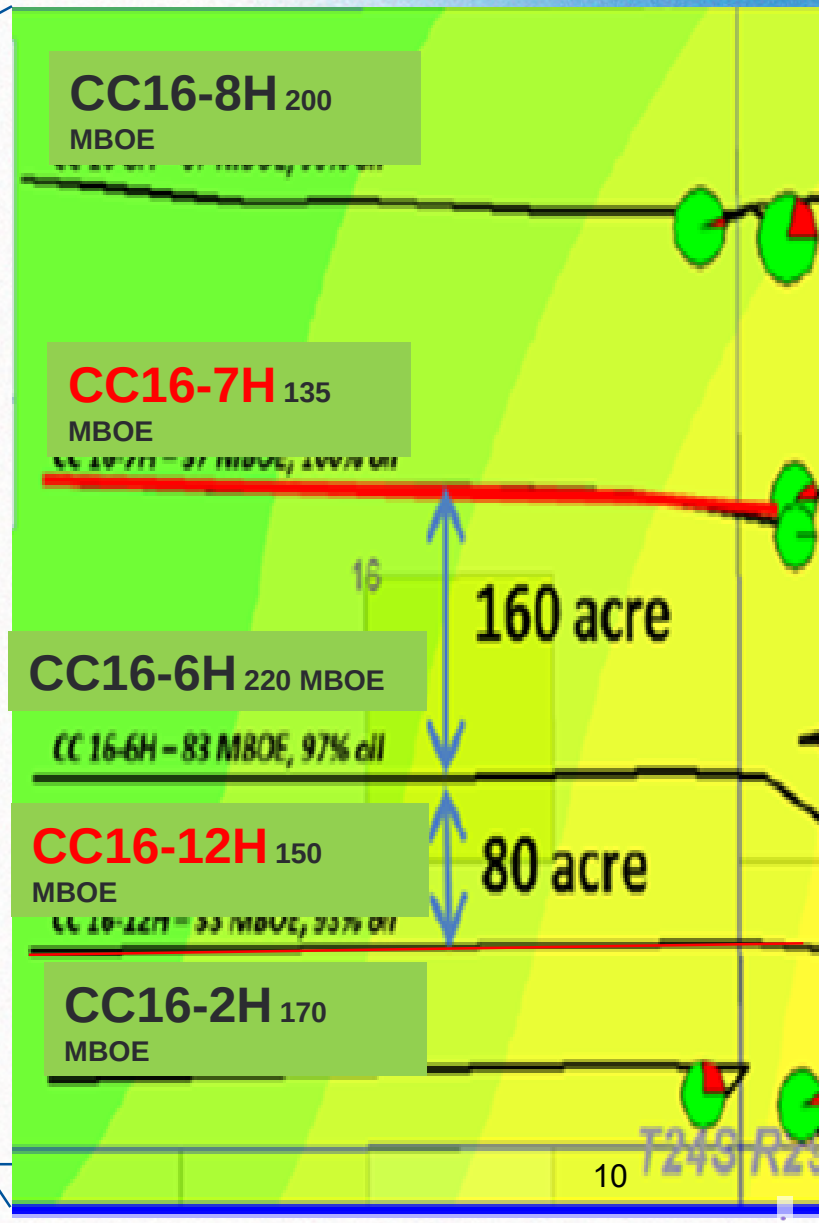
History Match

- Primary production (oil rate, water rate and gas rate) prior to 2017
- EOR injection (gas rate, gas injection pressure) during 2017: High-pressure (4250 psi MASP), high-rate gas injection (7 MMSCFPD, sustained)
- Model incorporates injection gas breakthrough observed in offset wells after 3 months of EOR injection.

MODEL SET-UP







CEDAR CANYON SECTION-16 RESERVOIR MODEL

Location: Lea County,NM

Model Acreage: 640

Pay Horizon: 2nd Bone Springs Sand

Lithology: Sandstone interbedded with Limestone

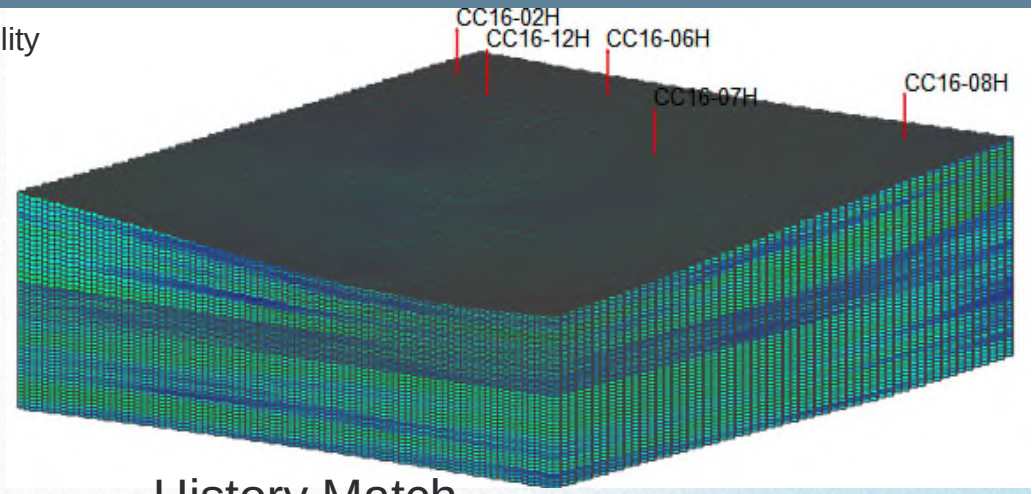
Trap Type: Stratigraphic

Nominal Depth: 8400 ft

Gas Cap (at discovery): No

Primary Drive Mechanism: Solution Gas Drive

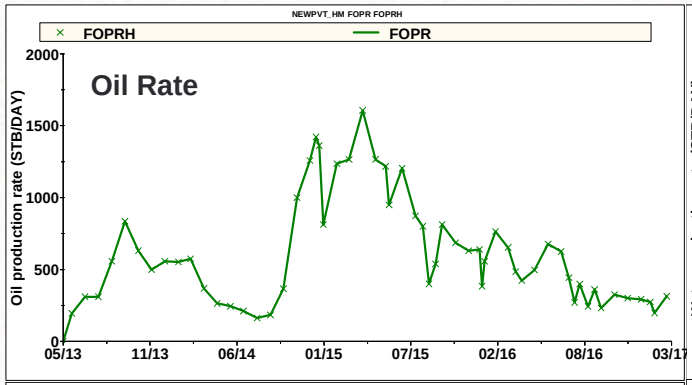
Structure & Permeability
1,177,400 Grids
56 Layers

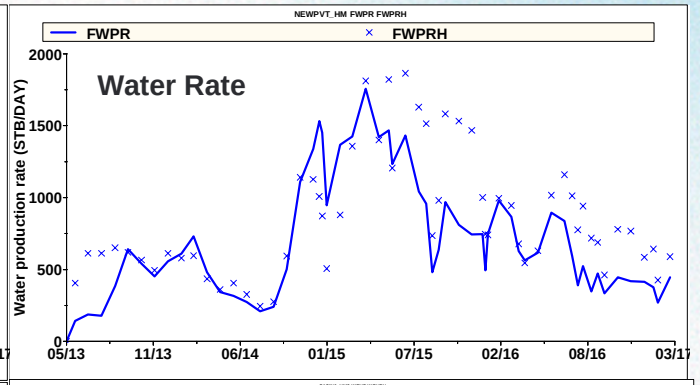


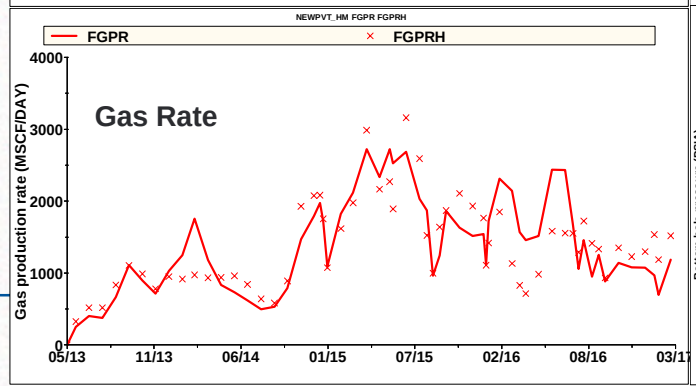
Model Inputs

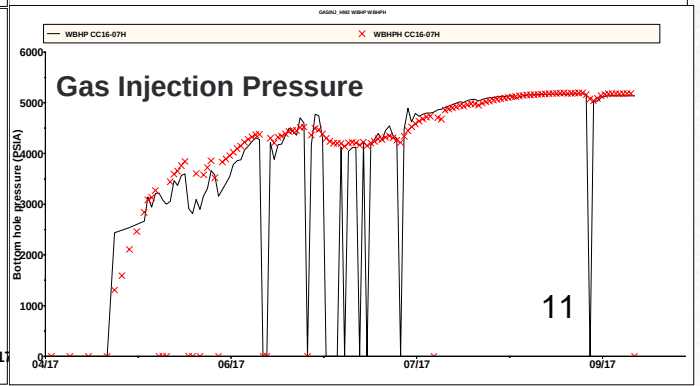
Gross Pay:	320 ft
Net Pay:	320 ft
Avg Porosity:	6.8%
Initial Sw:	50%
Permeability:	0.0003md (matrix)
Initial Reservoir Pressure:	4500 psi
Reservoir Temperature:	150 F
Oil Gravity:	42 API
Boi:	1.63 RB/STB
Rsi:	1480 SCF/STB
Original Oil in Place:	28 MMSTB

History Match









PROJECT AND MODEL COMPARISON- EOR INJECTION VS. GAS STORAGE

EOR Injection, 2017

- Higher, Sustained Injection Rate (7MM SCFPD)
- Higher Injection Pressure (4250 psi MASP)
- Longer injection duration (3 months or greater)
- 4 Wells per section
- 5,000 ft Laterals

Gas Storage, 2023

- Lower Injection Rate (Initially 3MM SCFPD)
- Lower Injection Pressure (1300 psi MASP)
- Shorter injection duration (a couple weeks or less)
- 6 Wells per section
- 10,000 ft Laterals

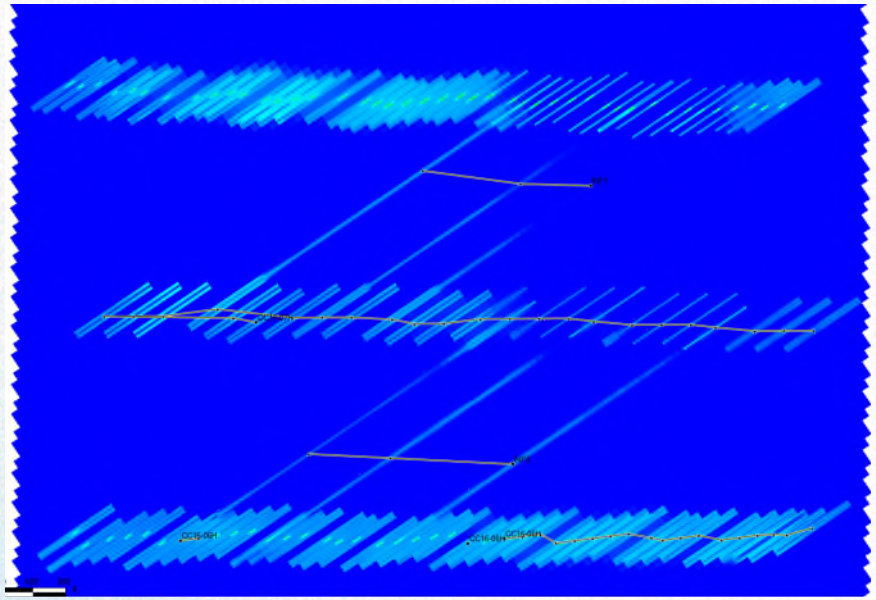
Both

- Same geographic area
- Injection of Treated, Produced Gas
- Hydraulically fractured Horizontal wells
- Bone Spring Reservoir

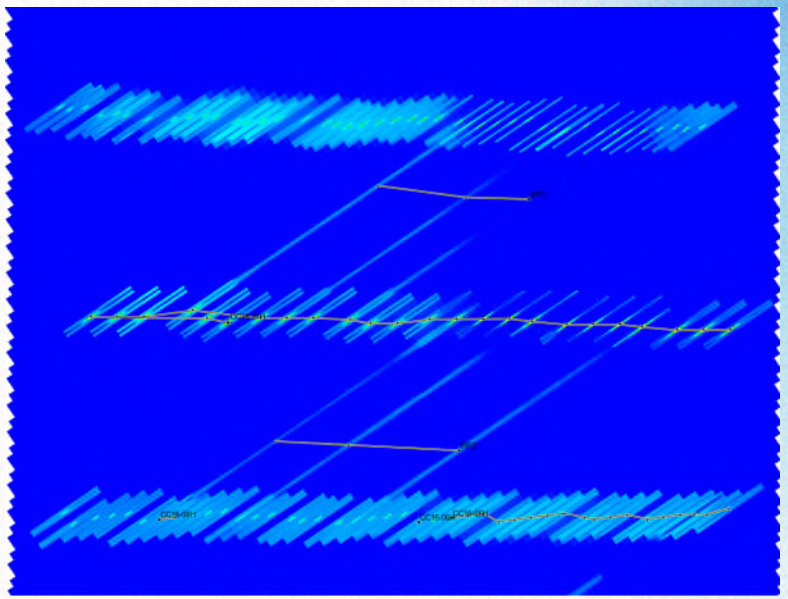
GAS STORAGE SIMULATION PROCESS

- Run primary production for all wells for additional period (post history match)
- Inject gas in injection well at 3MMSCFPD for 7 days
- Produce the injection well post injection
- No positive or negative effect seen on oil recovery of storage wells and offset wells

GAS INJECTION PROFILE (1 WEEK INJECTION)



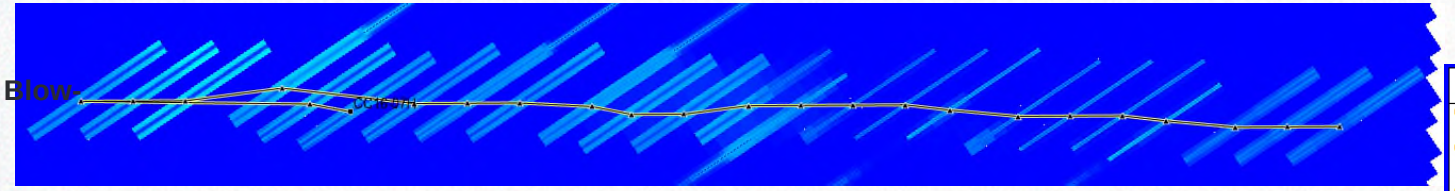
Before injection



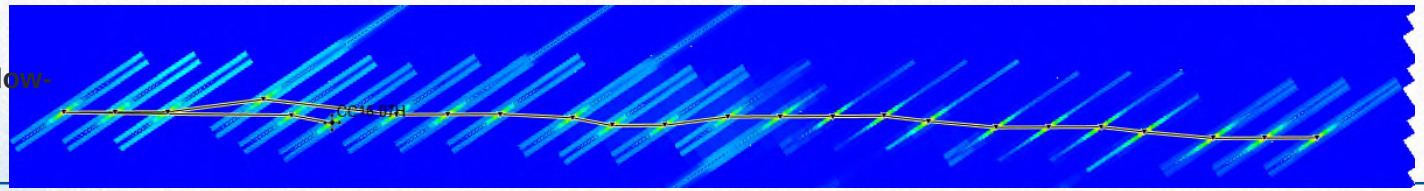
After 1 week of injection (3 MMSCFPD)

21 MMSCF Cum Gas

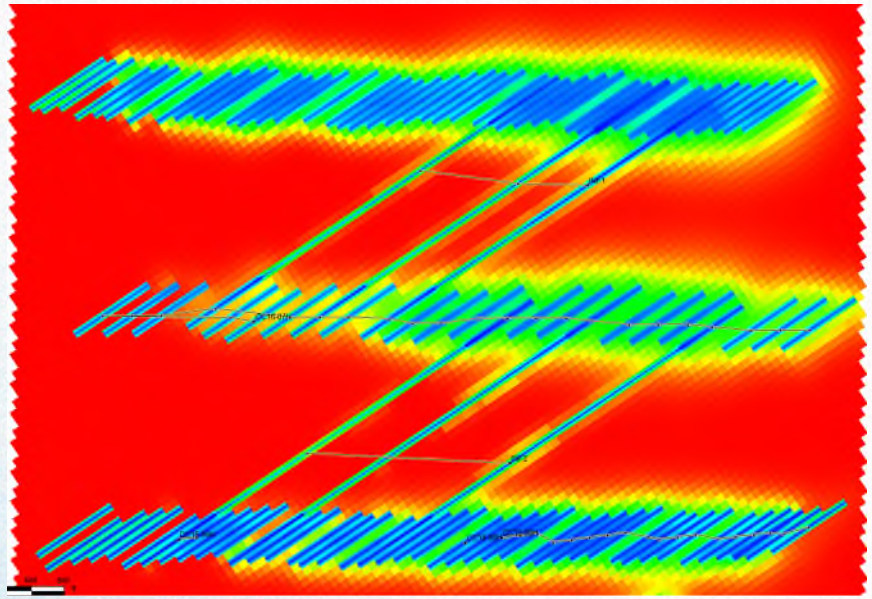
Before Injection CC16-7H Blow-up



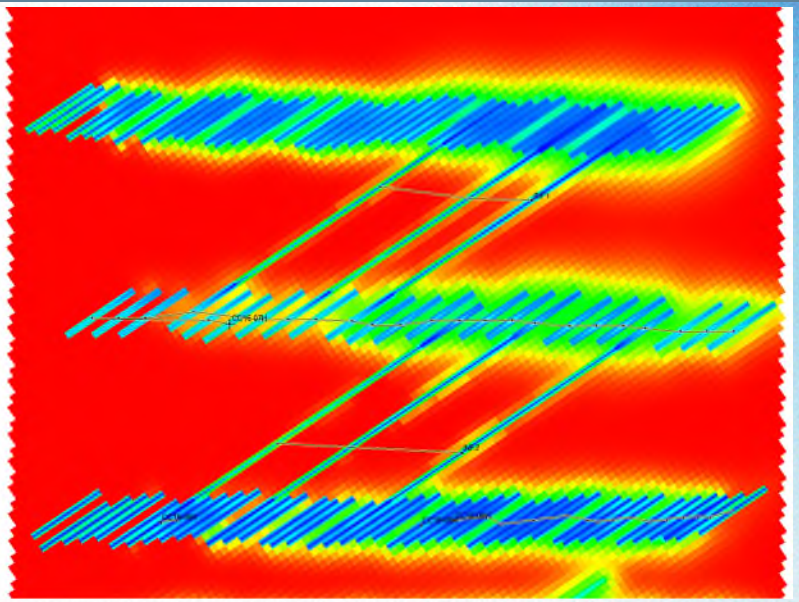
After Injection CC16-7H Blow-up



PRESSURE PROFILE (1 WEEK INJECTION)

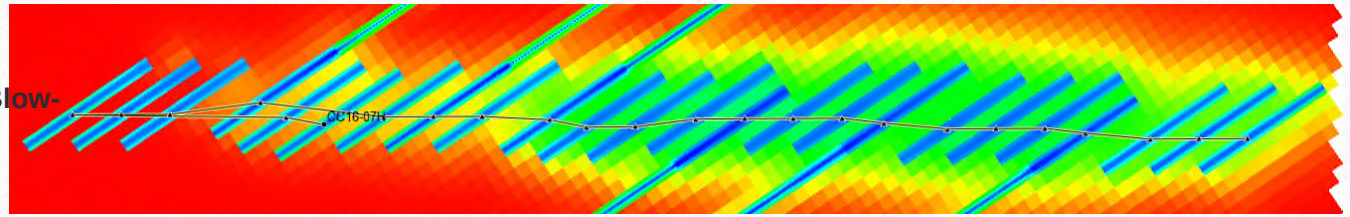


Before injection

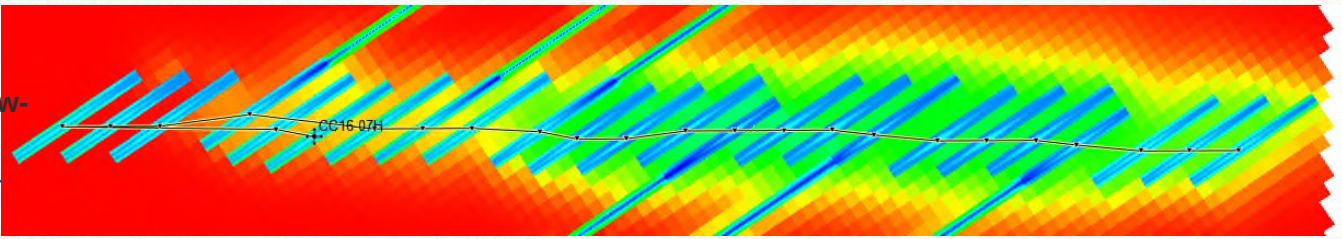


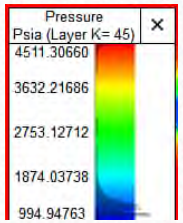
After 1 week of injection (3 MMSCFPD)

Before Injection CC16-7H Blow-up



After Injection CC16-7H Blow-up



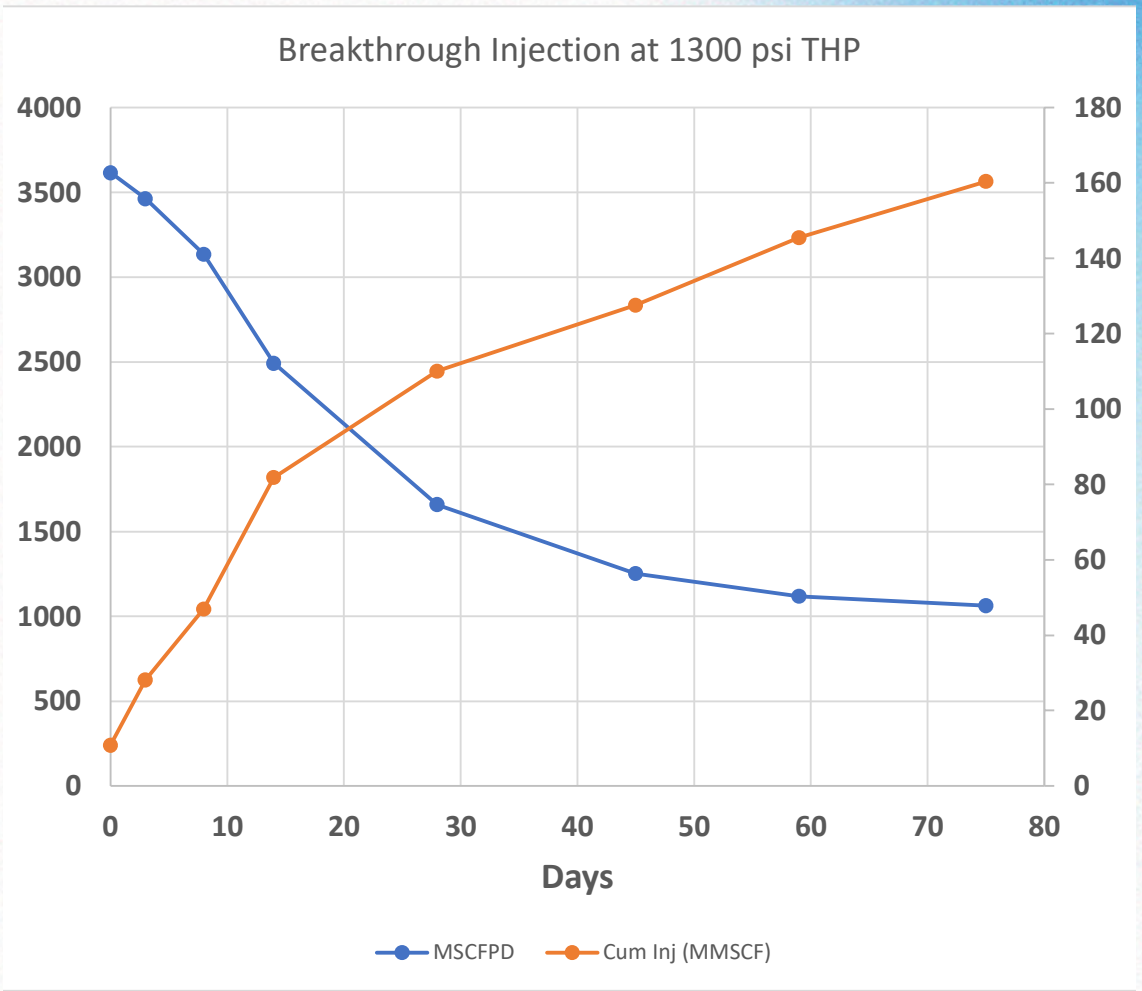


GAS STORAGE CAPACITY

API	Well	Fracture Gas Volume (MMSCF)	Total prod gas equivalent, mmscf
3001544631	Corral Canyon 36-25 Fed Com 21H	144	1348
3001544632	Corral Canyon 36-25 Fed Com 22H	144	1438
3001544633	Corral Canyon 36-25 Fed Com 23H	145	1403
3001544634	Corral Canyon 36-25 Fed Com 24H	126	1153
3001544635	Corral Canyon 36-25 Fed Com 25H	127	1082
3001544636	Corral Canyon 36-25 Fed Com 26H	128	908
3001544702	Corral Fly 35-26 Fed Com 21H	126	1549
3001544703	Corral Fly 35-26 Fed Com 22H	125	1363
3001544704	Corral Fly 35-26 Fed Com 23H	124	1250
3001544705	Corral Fly 35-26 Fed Com 24H	128	1447
3001544683	Corral Fly 35-26 Fed Com 25H	129	1467
3001544684	Corral Fly 35-26 Fed Com 26H	130	1357

GAS BREAKTHROUGH IN 6 WELLS PER SECTION

- Plot shows that after 75 days, injected gas will show up at 6 wps offsets for 10k lateral well.
- This assumes injection at constant THP of 1300 psi.
- The cumulative gas injected for this to occur is 160 MMSCF.
- For storage events, injected gas volume is much less than the above value, hence it is expected that breakthrough in offset wells will not occur.



GAS STORAGE 2023 MODEL RESULTS

Results

- For gas breakthrough to occur in an offset well, 160 MMCF of gas would have to be injected.

Other Operational Data

- The longest Oxy gas storage event was 13.5 MMSCF gas injection for 4 days, which is about 10% of the capacity of the hydraulically-created fractures.

Conclusions

- Oxy does not anticipate a positive or negative impact on storage wells or offsets to gas storage wells.
- On average, gas storage will not extend more than 100 ft into the hydraulic fracture network.
- Volume of gas injected per well during a storage event is much lower than required to see breakthrough thus allowing for successful gas storage

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

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 23501

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

Adam G. Rankin, attorney in fact and authorized representative of the Applicant herein, being first duly sworn, upon oath, states

1. The above-referenced application and notice of the hearing on this application was sent by certified mail to the affected parties on the date set forth in the letter attached hereto.

2. The spreadsheet attached hereto contains the names of the parties to whom notice was provided.

3. 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 April 14, 2023

4. I caused a notice to be published to all parties subject to these proceedings on April 19, 2023. An affidavit of publication from the publication's legal clerk with a copy of the notice publication is attached as Exhibit D.

Adam G. Rankin

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. C
Submitted by: OXY USA INC.
Hearing Date: May 04, 2023
Case No. 23501

SUBSCRIBED AND SWORN to before me this 2nd day of May 2023 by Adam G. Rankin.

Notary Public

My Commission Expires:

4/28/26

STATE OF NEW MEXICO
NOTARY PUBLIC
KARI D PEREZ
COMMISSION # 1138272
COMMISSION EXPIRES 06/28/2026

Holland & Hart

Adam G. Rankin
Partner
Phone 505.954.7294
agrankin@hollandhart.com

April 14, 2023

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL AFFECTED PARTIES

Re: Application of OXY USA Inc. for Closed Loop Gas Capture Injection Pilot Project, Eddy County, New Mexico.

Ladies & Gentlemen:

This letter is to advise you that OXY USA Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on May 4, 2023, and the status of the hearing can be monitored through the Division's website at https://www.emnrd.nm.gov/ocd/.

Due to ongoing construction and associated space limitations at the Wendell Chino Building, Parties, Counsel for Parties, and the public are encouraged to attend/participate via the Webex Meeting platform. To participate in the electronic 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 Stephen Janacek at 972-404-3722 or Stephen_Janacek@oxy.com.

Sincerely,

Adam G. Rankin
ATTORNEY FOR OXY USA INC.

9402811898765425976946	Bureau of Land Mangment	301 Dinosaur Trl	Santa Fe	NM	87508-1560	Your item was delivered to the front desk, reception area, or mail room at 1:04 pm on April 17, 2023 in SANTA FE, NM 87508.
9402811898765425976632	Eleven Sands Exploration Inc	PO Box 31560	Edmond	OK	73003-0026	Your item was picked up at the post office at 9:59 am on April 21, 2023 in EDMOND, OK 73003.
9402811898765425976113	Kona LTD	1302 West Ave	Austin	TX	78701-1716	Your item was delivered to the front desk, reception area, or mail room at 11:24 am on April 17, 2023 in AUSTIN, TX 78701.
9402811898765425976151	SBI West Texas I LLC	6702 Broadway St	Galveston	TX	77554-8906	Your item was delivered to the front desk, reception area, or mail room at 10:52 am on April 17, 2023 in GALVESTON, TX 77554.
9402811898765425976168	XTO Holdings, LLC	22777 Springwoods Village Pkwy	Spring	TX	77389-1425	Your item was delivered to an individual at the address at 10:44 am on April 17, 2023 in SPRING, TX 77389.
9402811898765425976106	Chevron U.S.A. Inc., Attn Land Department	6301 Deauville	Midland	TX	79706-2964	Your item was delivered to an individual at the address at 12:04 pm on April 17, 2023 in MIDLAND, TX 79706.
9402811898765425976984	State Land Office	PO Box 1148	Santa Fe	NM	87504-1148	Your item has been delivered to an agent for final delivery in SANTA FE, NM 87501 on April 18, 2023 at 6:48 am.
9402811898765425976977	XTO ENERGY, INC	6401 Holiday Hill Rd Bldg 5	Midland	TX	79707-2157	Your item was delivered to the front desk, reception area, or mail room at 10:57 am on April 17, 2023 in MIDLAND, TX 79707.
9402811898765425976618	Bettis Brothers Inc	500 W Texas Ave Ste 830	Midland	TX	79701-4276	Your item was delivered to an individual at the address at 1:55 pm on April 17, 2023 in MIDLAND, TX 79701.
9402811898765425976656	Chevron USA Inc	1400 Smith St	Houston	TX	77002-7327	Your item was delivered to the front desk, reception area, or mail room at 11:00 am on April 20, 2023 in HOUSTON, TX 77202.
9402811898765425976625	CNX Gas Co LLC	PO Box 1248	Jane Lew	WV	26378	Your item was returned to the sender on April 20, 2023 at 6:59 am in JANE LEW, WV 26378 because of an incorrect address.
9402811898765425976601	COG Operating LLC	600 W Illinois Ave	Midland	TX	79701-4882	Your item was picked up at a postal facility at 7:47 am on April 18, 2023 in MIDLAND, TX 79702.
9402811898765425976694	Contango Resources Inc	717 Texas St Ste 2900	Houston	TX	77002-2836	Your item was delivered to an individual at the address at 10:17 am on April 18, 2023 in HOUSTON, TX 77002.
9402811898765425976649	CTV O&G NM LLC	201 Main St Ste 2700	Ft Worth	TX	76102-3131	Your item was delivered to an individual at the address at 6:23 pm on April 18, 2023 in FORT WORTH, TX 76102.

Carlsbad Current Argus.

Affidavit of Publication

Ad # 0005666805

This is not an invoice

HOLLAND & HART
POBOX 2208

SANTA FE, NM 87504

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

04/19/2023

Legal Clerk

Subscribed and sworn before me this April 19, 2023:

State of WI, County of Brown
NOTARY PUBLIC

1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

Ad # 0005666805
PO #:
# of Affidavits 1

This is not an invoice

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. D
Submitted by: OXY USA INC.
Hearing Date: May 04, 2023
Case No. 23501

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following case. The hearing will be conducted remotely on Thursday, **May 4, 2023**, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted below. The docket may be viewed at https://www.emnrd.nm.gov/ocd/hearing-info/ or obtained from Marlene Salvidrez, at Marlene.Salvidrez@emnrd.nm.gov. Documents filed in the case may be viewed at https://ocdimage.emnrd.nm.gov/Imaging/Default.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in a hearing, contact Marlene Salvidrez at Marlene.Salvidrez@emnrd.nm.gov, or the New Mexico Relay Network at 1-800-659-1779, no later than **April 24, 2023**.

Persons may view and participate in the hearings through the following link:

https://nmemnrd.webex.com/nmemnrd/j.php?MTID=me869a41eb04a5ebfdcd9609414ba2334
Webinar number: 2488 854 4343

Join by video system: 24888544343@nmemnrd.webex.com
You can also dial 173.243.2.68 and enter your webinar number

Join by phone: 1-844-992-4726 United States Toll Free
+1-408-418-9388 United States Toll
Access code: 2488 854 4343

Panelist password: yRsMVTM76t9 (97768867 from phones and video systems)

STATE OF NEW MEXICO TO:
All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All affected parties, including: Bureau of Land Management; State Land Office; XTO Energy, INC; Bettis Brothers Inc; Chevron USA Inc; CNX Gas Co LLC; COG Operating LLC; Contango Resources Inc; CTV O&G NM LLC; Eleven Sands Exploration Inc; Kona LTD; SBI West Texas I LLC; and XTO Holdings, LLC.

Case No. 23501: Application of OXY USA Inc. for Closed Loop Gas Capture Injection Pilot Project, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order authorizing it to engage in a closed loop gas capture injection pilot project ("Pilot Project") in the Bone Spring formation in the, within a 2,640-acre, more or less, project area for this Pilot Project consisting of all of Sections 25, 26, 35 and 36, and the S/2 SW/4 of Section 24, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico (the "Project Area"), by occasionally injecting into the following wells:

- **The Corral Canyon 36-25 Fed Com 21H well** (API No. 30-015-44631).
- **The Corral Canyon 36-25 Fed Com 22H well** (API

No. 30-015-44632).
- **The Corral Canyon 36-25 Fed Com 23H well** (API No. 30-015-44633).
- **The Corral Canyon 36-25 Fed Com 24H well** (API No. 30-015-44634).
- **The Corral Canyon 36-25 Fed Com 25H well** (API No. 30-015-44635).
- **The Corral Canyon 36-25 Fed Com 26H well** (API No. 30-015-44636).
- **The Corral Fly 35-26 Fed Com 21H well** (API No. 30-015-44702).
- **The Corral Fly 35-26 Fed Com 22H well** (API No. 30-015-44703).
- **The Corral Fly 35-26 Fed Com 23H well** (API No. 30-015-44704).
- **The Corral Fly 35-26 Fed Com 24H well** (API No. 30-015-44705).
- **The Corral Fly 35-26 Fed Com 25H well** (API No. 30-015-44683).
- **The Corral Fly 35-26 Fed Com 26H well** (API No. 30-015-44684).

OXY seeks authority to utilize these producing wells to occasionally inject produced gas into the Bone Spring formation at total vertical depths of between approximately 8,879 feet to 9,197 feet along the horizontal portion of each wellbore at surface injection pressures of no more than 1,300 psi. at an average injection rate of 3 MMSCF per day and a maximum injection rate of 4 MMSCF per day. The source of the produced gas will be from the Bone Spring and Wolfcamp formations. The subject acreage is located approximately 12 miles southeast of Malaga, New Mexico.
#5666805, Current Argus, April 19, 2023