

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

**APPLICATION OF OXY U.S.A. INC. AND  
OCCIDENTAL PERMIAN, LTD FOR A CLOSED  
LOOP GAS CAPTURE PILOT PROJECT,  
EDDY COUNTY, NEW MEXICO.**

**CASE NO. 24983**

**Application Exhibits  
PART 1**

**Exhibits A-A83**

EXHIBIT  
A

NOVEMBER 2024



# CLOSED LOOP GAS CAPTURE PILOT PROJECT (CLGC)

## CEDAR CANYON 2024

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GENERAL DOCUMENTS



# General Project Description: Closed Loop Gas Capture (CLGC) Project Oxy- 2024 Cedar Canyon

## Summary of Requested Relief

1. Authority to operate a CLGC project consisting of eighteen (18) wells. The project will help to prevent waste and reduce adverse impacts from temporary interruptions of gas pipeline capacity.
2. Authority to operate at a Maximum Allowable Surface Pressure (MASP) of 1300 psi.
3. Authority to utilize 12-hour test durations instead of 24-hour test durations.
4. After the end of the pilot project, Oxy will not submit a Project Summary Report. However, the data required per the order will be on file and made available to the OCD upon request.

## Overview

Oxy is proposing a 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 location, 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
<ul style="list-style-type: none"> <li>• Flare gas</li> <li>• Shut in production</li> </ul>	<ul style="list-style-type: none"> <li>• Store gas</li> <li>• Continue production</li> <li>• No additional surface disturbances</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce greenhouse gas emissions</li> <li>• Improve economic recovery of mineral resources including gas that might have been flared</li> <li>• Utilize existing infrastructure</li> </ul>

## Proposed Operations

Oxy has an extensive high-pressure gas system in the Cedar Canyon 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.

San Mateo, Enterprise, and ETC are the primary, third-party gas purchasers. 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.

## Wells

There are eighteen (18) candidate wells. All wells are producing from the Second Bone Spring Sand.

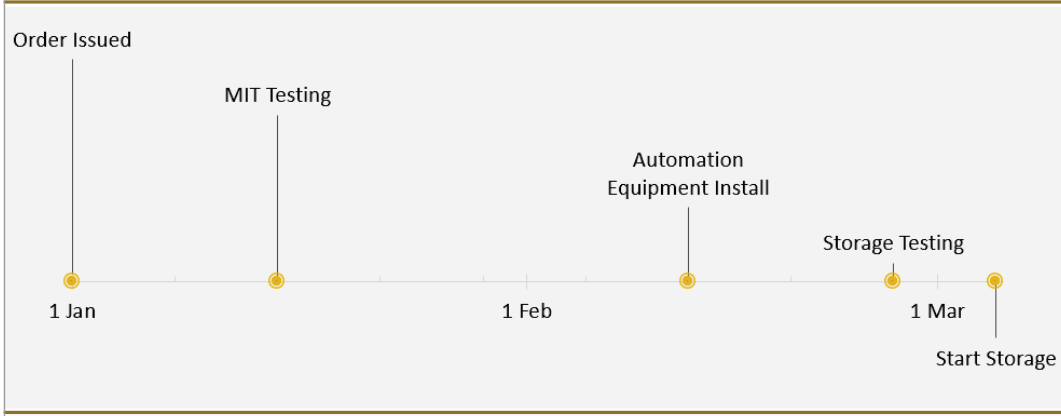
AOR ID	API 14	Name
1	30015399680000	MORGAN FEE COM 001H
2	30015411940000	CEDAR CANYON 23 002H
3	30015429930000	CEDAR CANYON 29 FEDERAL 003H
4	30015432320000	CEDAR CANYON 27 FEDERAL 006H
5	30015432340000	CEDAR CANYON 28 FEDERAL 006H
6	30015432380000	CEDAR CANYON 28 FEDERAL 007H
7	30015432820000	CEDAR CANYON 23 FEDERAL 005H
8	30015437080000	CEDAR CANYON 22 FEDERAL COM 004H
9	30015437490000	CEDAR CANYON 21 FEDERAL 005H
10	30015437750000	CEDAR CANYON 27 FEDERAL 005H
11	30015441810000	CEDAR CANYON 21 FEDERAL 021H
12	30015441900000	CEDAR CANYON 21 FEDERAL 022H
13	30015445220000	CEDAR CANYON 29 FED COM 25H
14	30015445230000	CEDAR CANYON 29 FED COM 26H
15	30015449450000	SALT RIDGE CC 20-17 FEDERAL COM 021H
16	30015455510000	LENGTH CC 6 7 FEDERAL COM 23H
17	30015479570000	TAILS CC 10 3 FEDERAL COM 22H
18	30015479750000	VAGABOND CC 8 17 FEDERAL COM 23H

## 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.



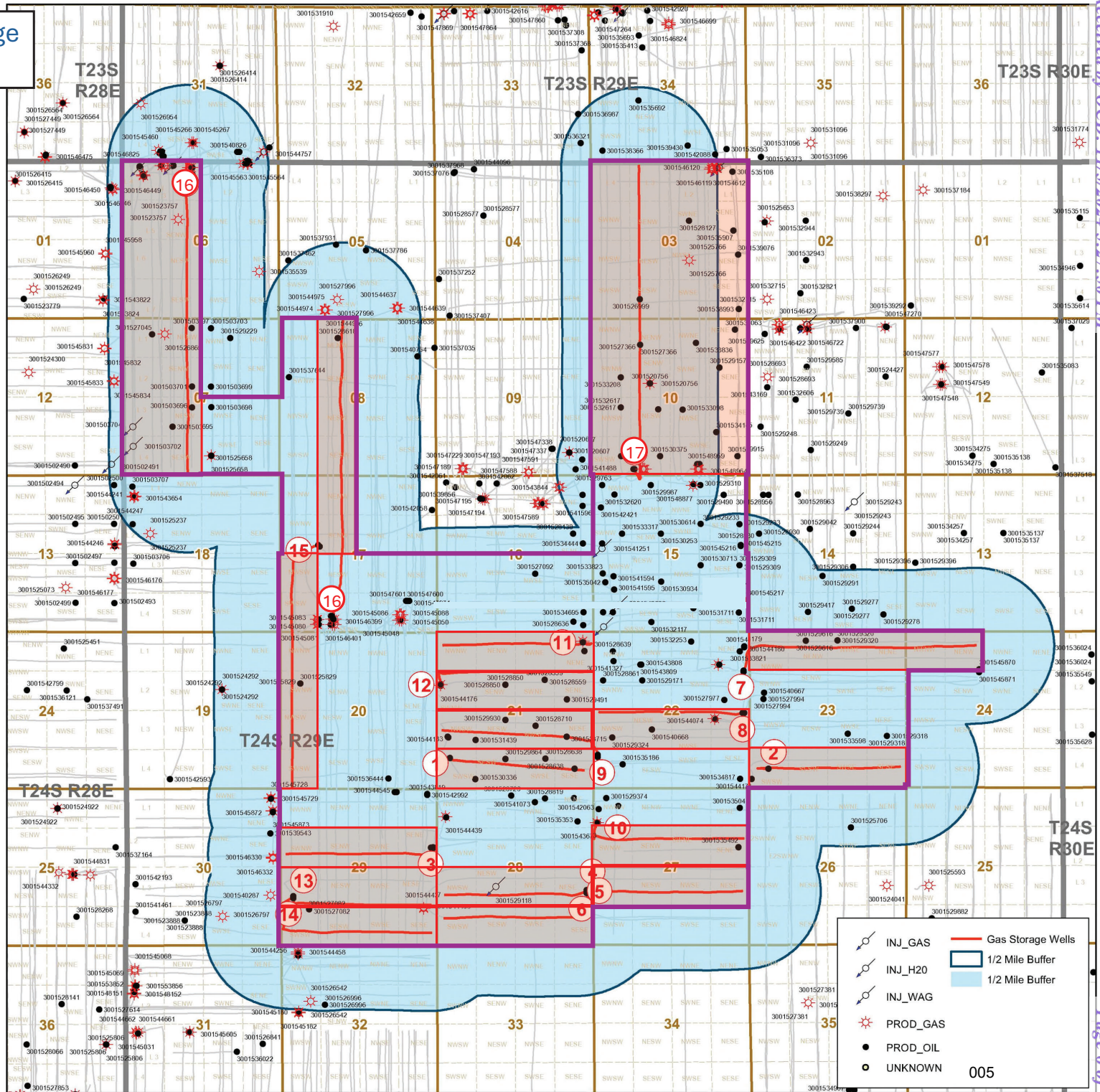
### GAS STORAGE PROJECT TIMELINE



# Redar Canyon 2024 Gas Storage Project Area Map

## Key










- Oxy CLGC HSU
- Project Area Outline

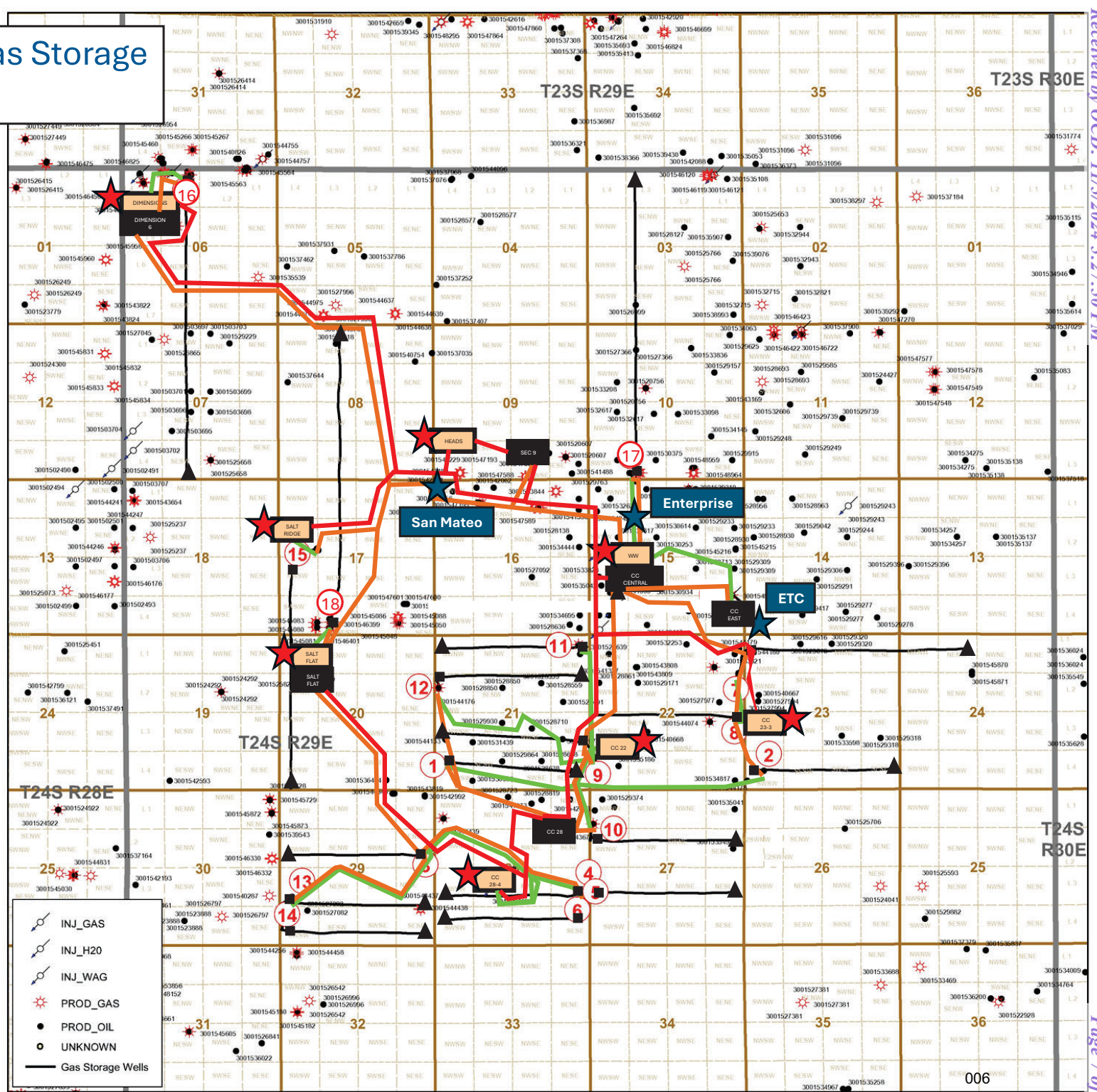









	INJ_GAS		Gas Storage Wells
	INJ_H2O		1/2 Mile Buffer
	INJ_WAG		1/2 Mile Buffer
	PROD_GAS		
	PROD_OIL		
	UNKNOWN		



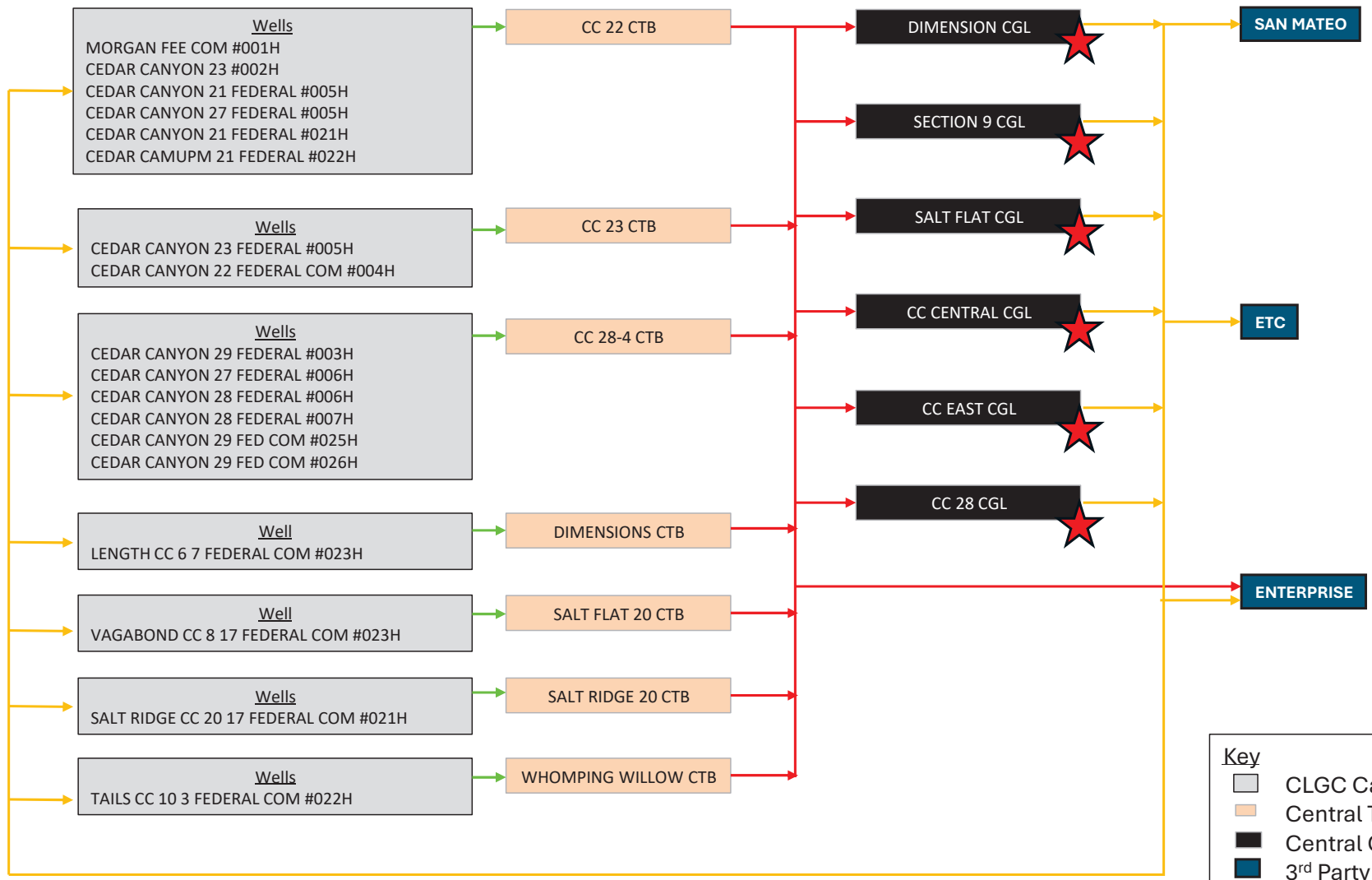
# Cedar Canyon 2024 Gas Storage Facilities Map

- Key**
-  CGL
  -  CTB
  -  Gas Takeaway
  -  Flowline
  -  Gas lift line
  -  LP pipeline
  -  FTP
  -  LTP
  -  Flare



-  INJ\_GAS
-  INJ\_H2O
-  INJ\_WAG
-  PROD\_GAS
-  PROD\_OIL
-  UNKNOWN
-  Gas Storage Wells

# Cedar Canyon 2024 Gas Storage Facilities Process Flow Diagram



**Key**

- CLGC Candidate Well
- Central Tank Battery (CTB)
- Central Gas Lift Compressor (CGL)
- 3 3<sup>rd</sup> Party Gas Takeaway
- Flowline
- Low Pressure Gas Line
- High Pressure Gas Line
- ★ Flare

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

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AMENDED REPORT  
"As Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-39968</b>	Pool Code <b>96238</b>	Pool Name <b>Cornal Draw Bone Spring</b>
Property Code <b>39083</b>	Property Name <b>MORGAN FEE COM</b>	
OGRID No. <b>157984</b>	Operator Name <b>OCCIDENTAL PERMIAN, LTD.</b>	Well Number <b>1H</b>
		Elevation <b>2923'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	24-S	29-E		1035	SOUTH	455	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
P	21	24-S	29-E		<del>600</del> 51	SOUTH	<del>330</del> 349	EAST	EDDY

Dedicated Acres <b>160 AC</b>	Joint or Infill <b>N</b>	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=436059.8 N X=604316.8 E</p> <p>LAT.=32.198396° N LONG.=103.996094° W</p> <p>BOTTOM HOLE LOCATION Y=435640.3 N X=608845.3 E</p> <p>LAT.=32.197203° N LONG.=103.981459° W</p> <p>CORNER COORDINATES TABLE</p> <p>Ⓐ - Y=436349.2 N, X=603862.6 E Ⓑ - Y=436372.2 N, X=609173.0 E Ⓒ - Y=435041.6 N, X=609177.0 E Ⓓ - Y=435023.4 N, X=603859.8 E</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>David Stewart</i> 2/21/12 Signature Date</p> <p>David Stewart Reg. Adv. Printed Name</p> <p>david_stewart@oxy.com E-mail Address</p> <hr/> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>JANUARY 16, 2012</p> <p>Date of Survey Signature &amp; Seal of Professional Surveyor:</p> <p>Certificate Number... Ronald J. Eidson 12641 Ronald J. Eidson 3239</p> <p>DSS Rev. 2/8/12 JWSC W.O.: 12.11.0102</p>
---	--



DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

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811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

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NMP OIL CONSERVATION  
OIL CONSERVATION DIVISION  
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41194	Pool Code 50371	Pool Name Pierce Crossing	Pool Name Bone Spring
Property Code 39439	Property Name CEDAR CANYON 23 Com.		Well Number 2H
OGRID No. 16694	Operator Name OXY U.S.A. INC.		Elevation 2927'

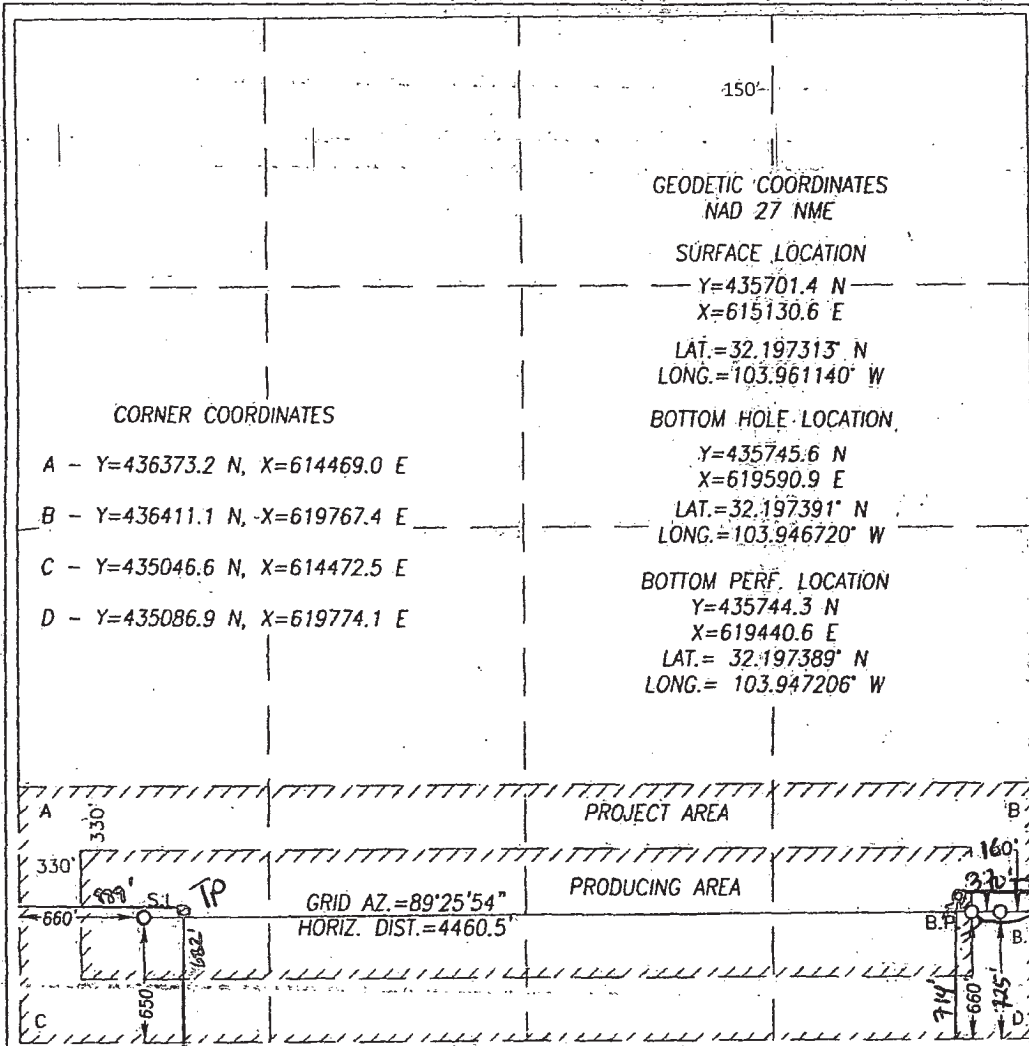
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	24-S	29-E		650	SOUTH	660	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
P	23	24-S	29-E		<del>660</del> 725	SOUTH	<del>780</del> 760	EAST	EDDY
Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.	TD = 725 FSL 160 FEL BP = 714 FSL 370 FEL TP = 682 FSL 389 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 herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 7/25/14  
Printed Name: David Stewart SR. Rep. Adv.  
E-mail Address: david.stewart@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.

AUGUST 11, 2011  
Date of Survey  
Signature & Seal of Professional Surveyor: Ronald J. Eidson  
Certificate Number: 3239  
LSL REL. W.O. 13.11.0267 JWSC W.O. 14.13.0778

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-42993	Pool Code 50371	Pool Name Pierce Crossing Bone Spring
Property Code 314329	Property Name CEDAR CANYON "29" FEDERAL	Well Number 3H
OGRID No. 16096	Operator Name OXY USA INC.	Elevation 2948.5'

Surface Location

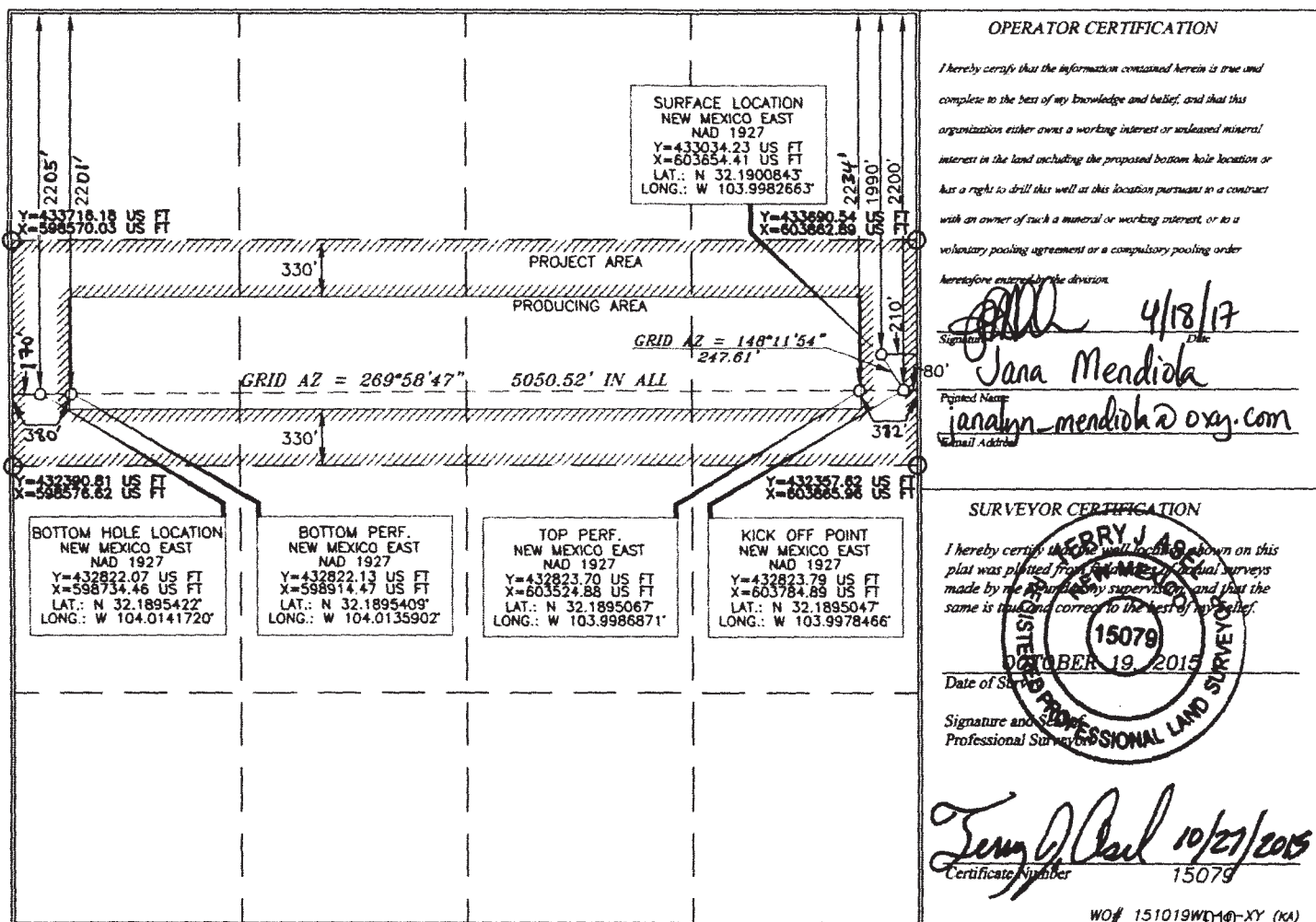
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	24 SOUTH	29 EAST, N.M.P.M.		1990'	NORTH	210'	EAST	EDDY

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
E	29	24 SOUTH	29 EAST, N.M.P.M.		2219' 2205'	NORTH	100' 130'	WEST	EDDY

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No. 3P- 2201 FNL 382 FUL TP- 2231 FNL 382 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.





**Office 1**  
1600 N. Fourth St., Hobbs, NM 88240  
Phone: (703) 240-4171 Fax: (703) 279-4770  
**Office 2**  
1115 E. Pecos St., Artesia, NM 88210  
Phone: (703) 240-1200 Fax: (703) 240-9700  
**Office 3**  
1600 N. Fourth St., Santa Fe, NM 87505  
Phone: (505) 824-4170 Fax: (505) 824-4170  
**Office 4**  
1600 N. Fourth St., Santa Fe, NM 87505  
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43232</b>	Pool Code <b>914TS</b>	Pool Name <b>Piece Crossing Bare Spring, East</b>
Property Code <b>315036</b>	Property Name <b>CEDAR CANYON "27" FEDERAL</b>	
OGRID No. <b>16694</b>	Operator Name <b>OXY USA INC.</b>	Well Number <b>6H</b>
		Elevation <b>2925.0'</b>

**Surface Location**

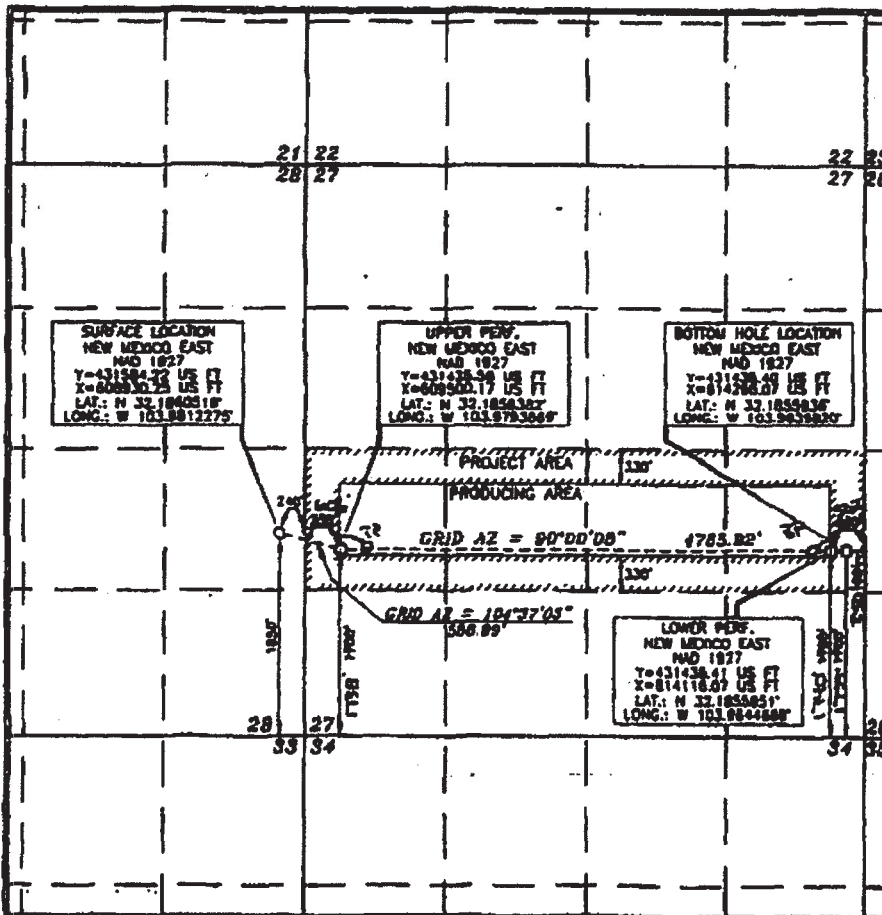
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North-South line	Feet from the	East-West line	County
1	28	24 SOUTH	29 EAST, N.M.P.M.		1850'	SOUTH	240'	EAST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North-South line	Feet from the	East-West line	County
1	27	24 SOUTH	29 EAST, N.M.P.M.		1700' 152'	SOUTH	180' 250'	EAST	EDDY

Dedicated Acres <b>160</b>	Joint or Infill <b>N</b>	Consolidation Code	Order No. Top Perf 1738 FSL 606 FWL (L) -27 Bottom Perf 1740 FSL 502 FEL (L) -27.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that the organization under whose a working interest or oil and 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 hereunder approved by the division.

*[Signature]* 12/21/15  
Signature  
David Stewart Sr. P.E. Adv.  
David\_Stewart@oxy.com  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the information on this plat was prepared by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Date of Survey  
12/21/2015

Signature  
*[Signature]*  
Professional Seal  
**15079**

WCD 141204ML-a (Rev. A) (04)



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

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Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
7000 Rio Grande Road, Aztec, NM 87410  
Phone: (505) 334-4178 Fax: (505) 334-4170  
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-D15-43234	Pool Code 96473	Pool Name Pierce Crossing Bone Springs, East
Property Code 30790	Property Name CEDAR CANYON "28" FEDERAL	Well Number 6H
OGRID No. 16694	Operator Name OXY USA INC.	Elevation 2924.8'

**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	28	24 SOUTH	29 EAST, N.M.P.M.		1820'	SOUTH	240'	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
L	28	24 SOUTH	29 EAST, N.M.P.M.		1700' 1672	SOUTH	100' 227	WEST	EDDY
Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No. TOP Perf - 1675 FSL 707 FEL (I) Bottom Perf - 1693 FSL 359 FWL (L)						

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.

**BOTTOM HOLE LOCATION**  
NEW MEXICO EAST  
NAD 1927  
Y=431409.33 US FT  
X=604048.18 US FT  
LAT.: N 32.1856114°  
LONG.: W 103.9970089°

**LOWER PERF.**  
NEW MEXICO EAST  
NAD 1927  
Y=431409.13 US FT  
X=604198.17 US FT  
LAT.: N 32.1856122°  
LONG.: W 103.9965250°

**UPPER PERF.**  
NEW MEXICO EAST  
NAD 1927  
Y=431633.84 US FT  
X=606840.18 US FT  
LAT.: N 32.1856393°  
LONG.: W 103.9815203°

**SURFACE LOCATION**  
NEW MEXICO EAST  
NAD 1927  
Y=431954.27 US FT  
X=608930.24 US FT  
LAT.: N 32.1859895°  
LONG.: W 103.9812279°

PROJECT AREA  
PRODUCING AREA  
GRID A2 = 216°47'51" 150.34'  
GRID A2 = 289°41'42" 4782.10'

**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that the organization either owns a working interest or substantial mineral interest in the land underlying the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with the 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: *David Stewart* Date: 12/22/15  
David Stewart Sr. Reg. Adv.  
E-mail Address: david.stewart@oxy.com

---

**SURVEYOR CERTIFICATION**

I hereby certify that the information shown on this plat was located and plotted by licensed surveyors made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JAN 12 2015  
Signature and Seal: *Terry J. As...*  
Professional Surveyor  
Certificate Number: 15079

WDF 141204NL-c (Rev. A) (02)

NM OIL CONSERVATION  
ARTESIA DISTRICT

MAY 03 2016

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1435 N. Fourth St., Hobbs, NM 88240  
Phone: (505) 393-4141 Fax: (505) 393-8728  
District II  
511 S. First St., Artesia, NM 88218  
Phone: (505) 748-1283 Fax: (505) 748-8728  
District III  
1000 Elm Street Road, Aztec, NM 87410  
Phone: (505) 334-4178 Fax: (505) 334-4170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

AMENDED REPORT  
(As Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43238	Pool Code 90473	Pool Name Pierce Crossing Bone Spring, East
Property Code 304790	Property Name CEDAR CANYON "28" FEDERAL	Well Number 7H
OGRID No. 16096	Operator Name OXY USA INC.	Elevation 2924.5'

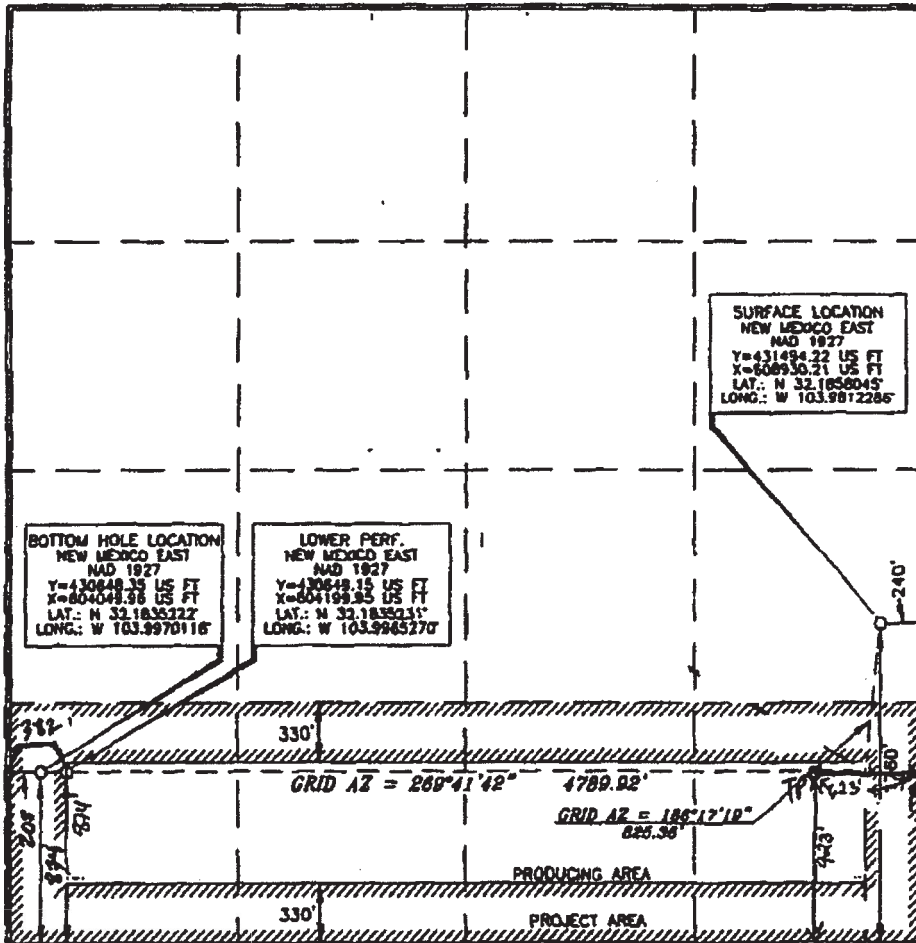
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	28	24 SOUTH	29 EAST, N.M.P.M.		1760'	SOUTH	240'	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
M	28	24 SOUTH	29 EAST, N.M.P.M.		849' 830'	SOUTH	108' 208'	WEST	EDDY
Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.	TD- 374 FSL 208 FWL OP- 374 FSL 382 FWL TP- 923 FSL 623 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 mineral interest in the land including the proposed lease 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.  
Accepted and signed: [Signature] 1/14/16  
Jana Mendiola  
landyn\_mendiola@oxy.com

**SURVEYOR CERTIFICATION**  
I hereby certify that the information shown on this plat was prepared by me or under my direct supervision and that the same is true and correct to the best of my knowledge.  
Date of Survey: 15079  
JULY 12 2015  
Signature: [Signature]  
Professional Surveyor: 15079  
WCF 141204WL-d (Rev. A) (M)

**NM OIL CONSERVATION**

ARTESIA DISTRICT

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

JAN 25 2016

Form C-102  
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AMENDED REPORT  
 (As Drilled)

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

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43282</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, East</b>
Property Code <b>315098</b>	Property Name <b>CEDAR CANYON "23" FEDERAL</b>	Well Number <b>5H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2942.4'</b>

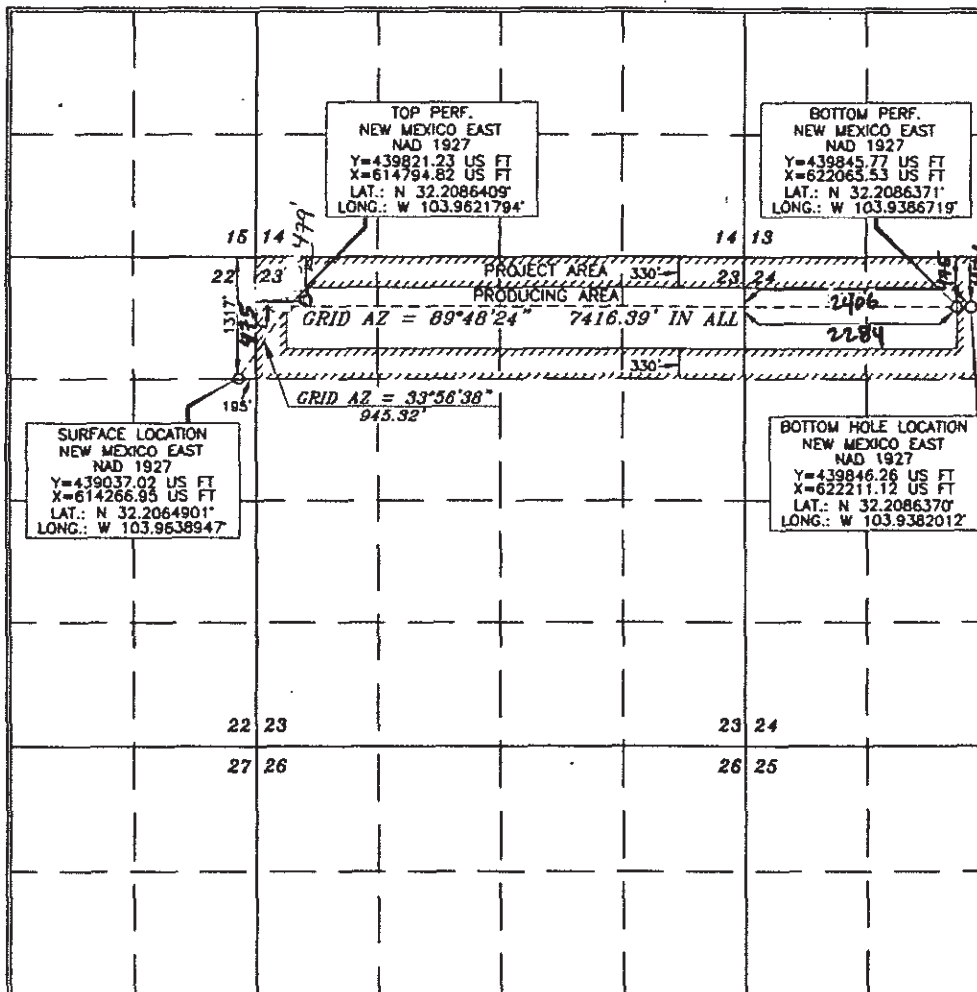
**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	24 SOUTH	29 EAST, N.M.P.M.		1317'	NORTH	195'	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
C	24	24 SOUTH	29 EAST, N.M.P.M.		595', 471'	NORTH	2400', 2406'	WEST	EDDY
Dedicated Acres <b>240</b>	Joint or Infill <b>N</b>	Consolidation Code	Order No.	<b>TD - 471 FNL 2406 FWL</b> <b>BP - 475 FNL 2284 FWL</b> <b>TP - 479 FNL 475 FEL</b>					

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 this division.

*[Signature]* 1/20/16  
 Signature: **Jana Mendida**  
 Printed Name: **Jana Mendida**  
 E-mail Address: **janam-mendida@oxy.com**

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from a set 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. ASH**  
 15079  
 Date of Survey: **OCTOBER 12 2015**  
 Signature and Seal: *[Signature]*  
 Professional Surveyor  
 Certificate Number: **15079**



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 **NM OIL CONSERVATION**  
ARTESIA DISTRICT  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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AMENDED REPORT  
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-43708</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, East</b>
Property Code <b>316106</b>	Property Name <b>CEDAR CANYON "22" FEDERAL COM</b>	Well Number <b>4H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2958.4'</b>

Surface Location

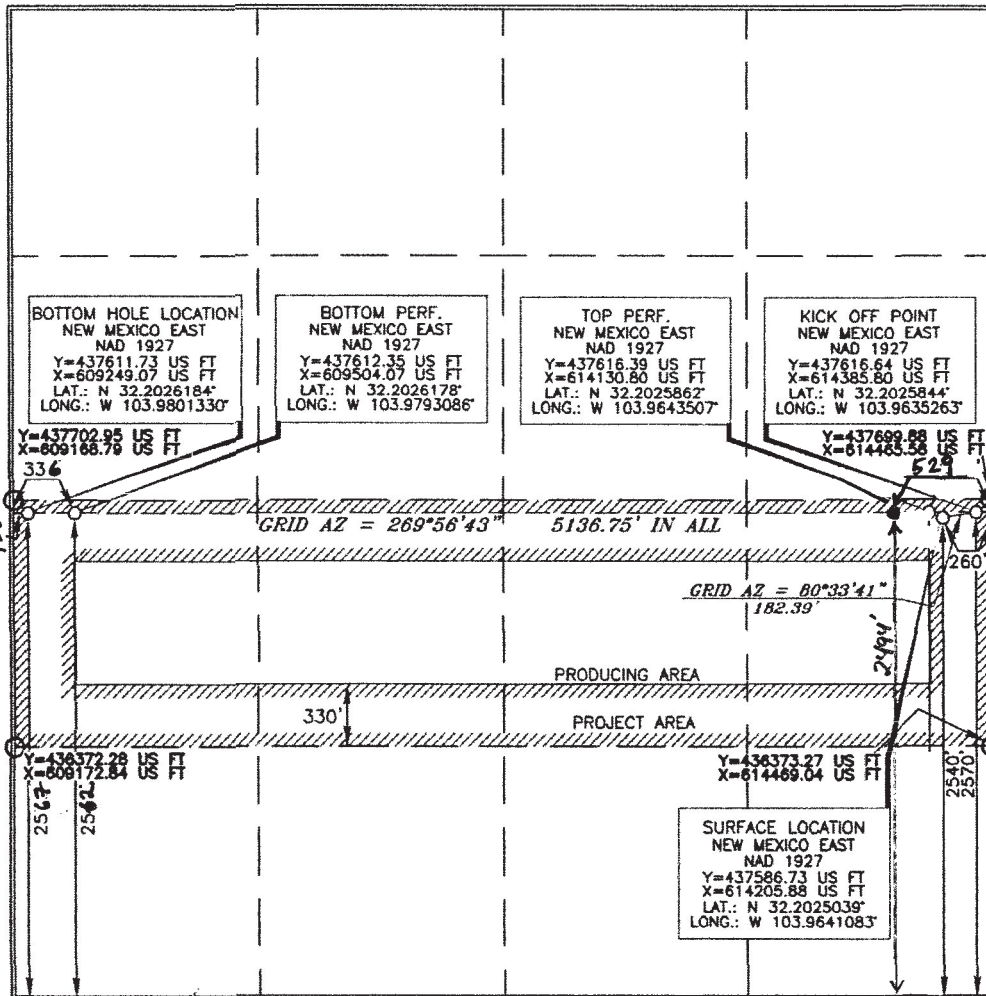
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	24 SOUTH	29 EAST, N.M.P.M.		2540'	SOUTH	260'	EAST	EDDY

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
L	22	24 SOUTH	29 EAST, N.M.P.M.		2570' 2567'	SOUTH	80' 160'	WEST	EDDY

Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. - NSL <b>7389</b>	BP - 2562 FSL 336 FWL	TP - 2494 FSL 529 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 enacted by the division.  
 Signature: *Jana Mendiola* Date: **1/31/17**  
 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~~ **control surveys** made by me or under my supervision, and that the same is true and correct to the best of my belief.  
 Date of Survey: **OCTOBER 27, 2015**  
 Signature and Seal: *Jerry J. ...*  
 Professional Surveyor  
 Certificate Number: **15079**  
 Date: **11/5/2015**

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

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

Form C-102  
Revised August 1, 2011  
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District Office

AMENDED REPORT  
(As Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-43749</b>	Pool Code <b>96238</b>	Pool Name <b>Corral Draw Bone Spring</b>
Property Code <b>315207</b>	Property Name <b>CEDAR CANYON "21" FEDERAL COM</b>	Well Number <b>5H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2940.4'</b>

Surface Location

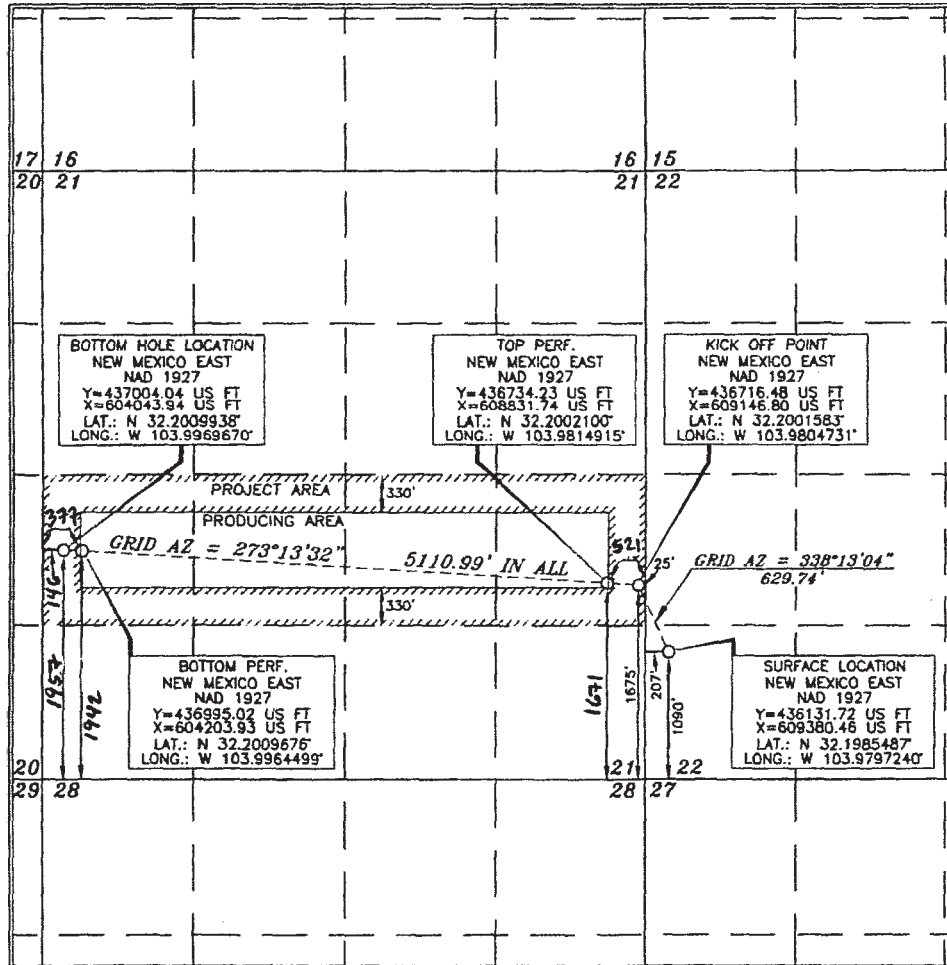
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24 SOUTH	29 EAST, N.M.P.M.		1090'	SOUTH	207'	WEST	EDDY

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
L	21	24 SOUTH	29 EAST, N.M.P.M.		<del>1090'</del> <b>1957'</b>	SOUTH	<del>207'</del> <b>146'</b>	WEST	EDDY

Dedicated Acres <b>160</b>	Joint or Infill <b>N</b>	Consolidation Code	Order No. <b>BP- 1942 FSL 397 FWL TP- 1671 FSL 521 FEL</b>
-------------------------------	-----------------------------	--------------------	---

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 executed and in force.  
Signature: *Jana Mendiola* 11/30/16  
Date: 11/30/16  
Printed Name: **Jana Mendiola**  
E-mail Address: **janayn\_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.  
Date of Survey: **JANUARY 15, 2016**  
Signature and Seal of Professional Surveyor: *Terry J. Ase* 2/16/2016  
Certificate Number: **15079**  
WO# 160115WL-a (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  
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  
1230 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  
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District Office

AMENDED REPORT  
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-43775</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, East</b>
Property Code <b>39717</b>	Property Name <b>CEDAR CANYON "27" FEDERAL COM</b>	
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	
		Well Number <b>5H</b>
		Elevation <b>2919.1'</b>

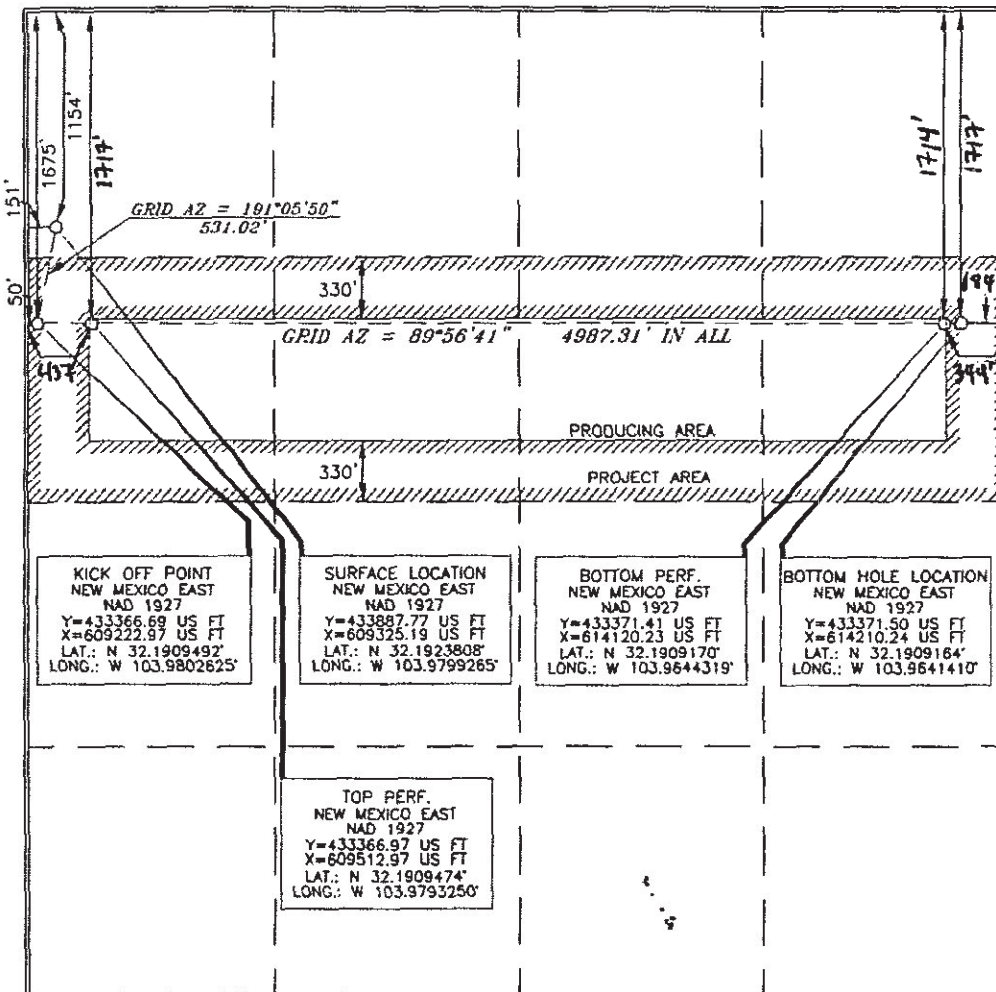
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	24 SOUTH	29 EAST, N.M.P.M.		1154'	NORTH	151'	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
H	27	24 SOUTH	29 EAST, N.M.P.M.		<del>1154'</del> <b>1717'</b>	NORTH	<del>151'</del> <b>184'</b>	EAST	EDDY
Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No.	<b>Bottom Perf - 1714 FNL 344 FEL</b> <b>Top Perf - 1717 FNL 437 FWL</b>					

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 executed by the division.

Signature: *Jana Mendiola* Date: **8/2/16**

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 under my supervision. Considered the same is true and correct to the best of my belief.

**TERRY J. ASB**  
15079  
DECEMBER 16, 2015  
Date of Survey

Signature and Seal of Professional Surveyor  
*Terry J. Asb* 12/17/2015  
Certificate Number: **15079**

WO# 151210WL-a (KA)

NM OIL CONSERVATION  
ARTESIA DISTRICT

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (876) 393-0181 Fax: (876) 393-0720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (876) 746-1263 Fax: (876) 746-0720

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (605) 334-8178 Fax: (605) 334-8170

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  
MAR 08 2018  
OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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Revised August 1, 2011

AMENDED REPORT  
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44181	Pool Code 96238	Pool Name Corral Draw Bone Spring
Property Code 315207	Property Name CEDAR CANYON 21 FEDERAL COM	Well Number 21H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2928.2'

Surface Location

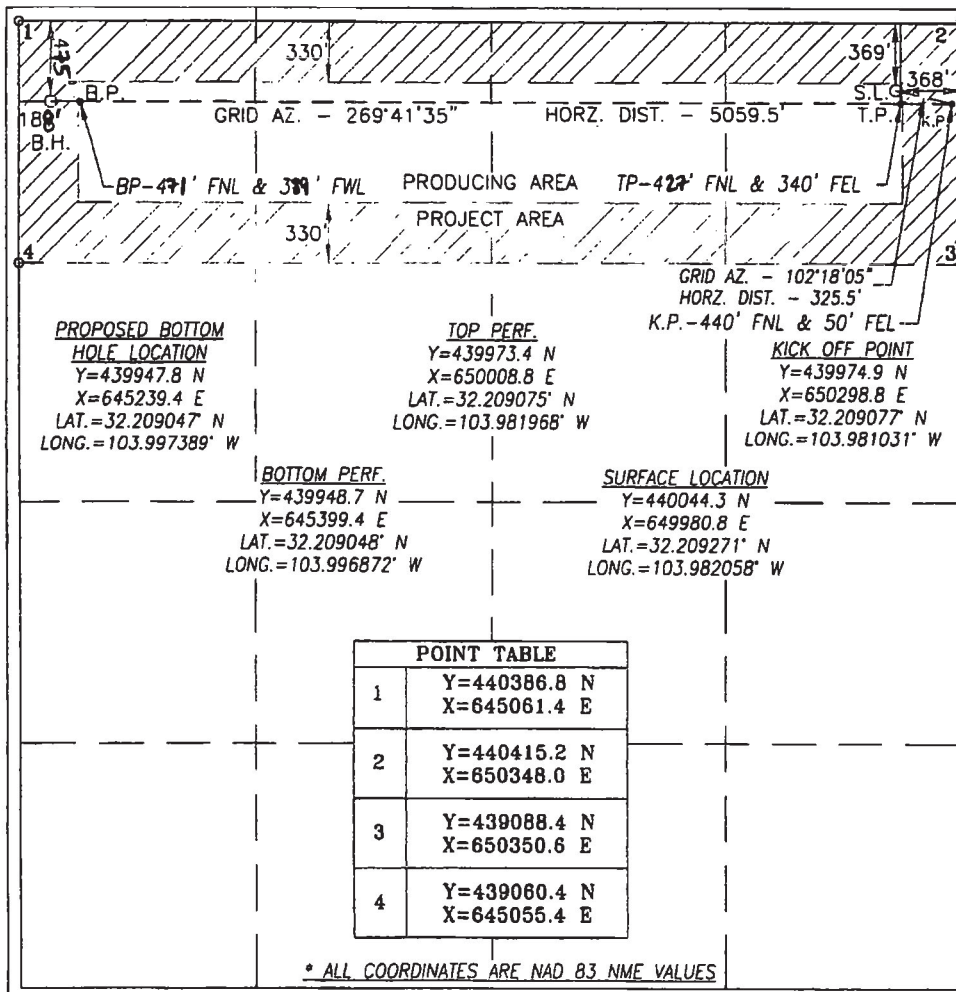
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	24-S	29-E		369	NORTH	368	EAST	EDDY

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
D	21	24-S	29-E		440.475	NORTH	380.188	WEST	EDDY

Dedicated Acres 160	Joint or Infill Y	Consolidation Code	Order No. BP-471 FNL 389 FWL TP-427 FNL 356 FEL
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature: *Jana Mendiola*  
Date: 9/28/17  
Printed Name: Jana Mendiola  
E-mail Address: jana.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.

Date of Survey: JULY 27, 2016

Signature & Seal of Professional Surveyor  
CHAD L. HARCROW  
NEW MEXICO  
LICENSED PROFESSIONAL SURVEYOR  
17777  
Certificate No. CHAD HARCROW 17777  
W.O. #16-802 DRAWN BY: AM



**DISTRICT I**  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-8161 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 RD., AZTEC, NM 87410  
Phone: (505) 334-8178 Fax: (505) 334-8170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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AMENDED REPORT  
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-44190</b>	Pool Code <b>96238</b>	Pool Name <b>Corral Draw Bone Spring</b>
Property Code <b>315207</b>	Property Name <b>CEDAR CANYON 21 FEDERAL COM</b>	Well Number <b>22H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2930.8'</b>

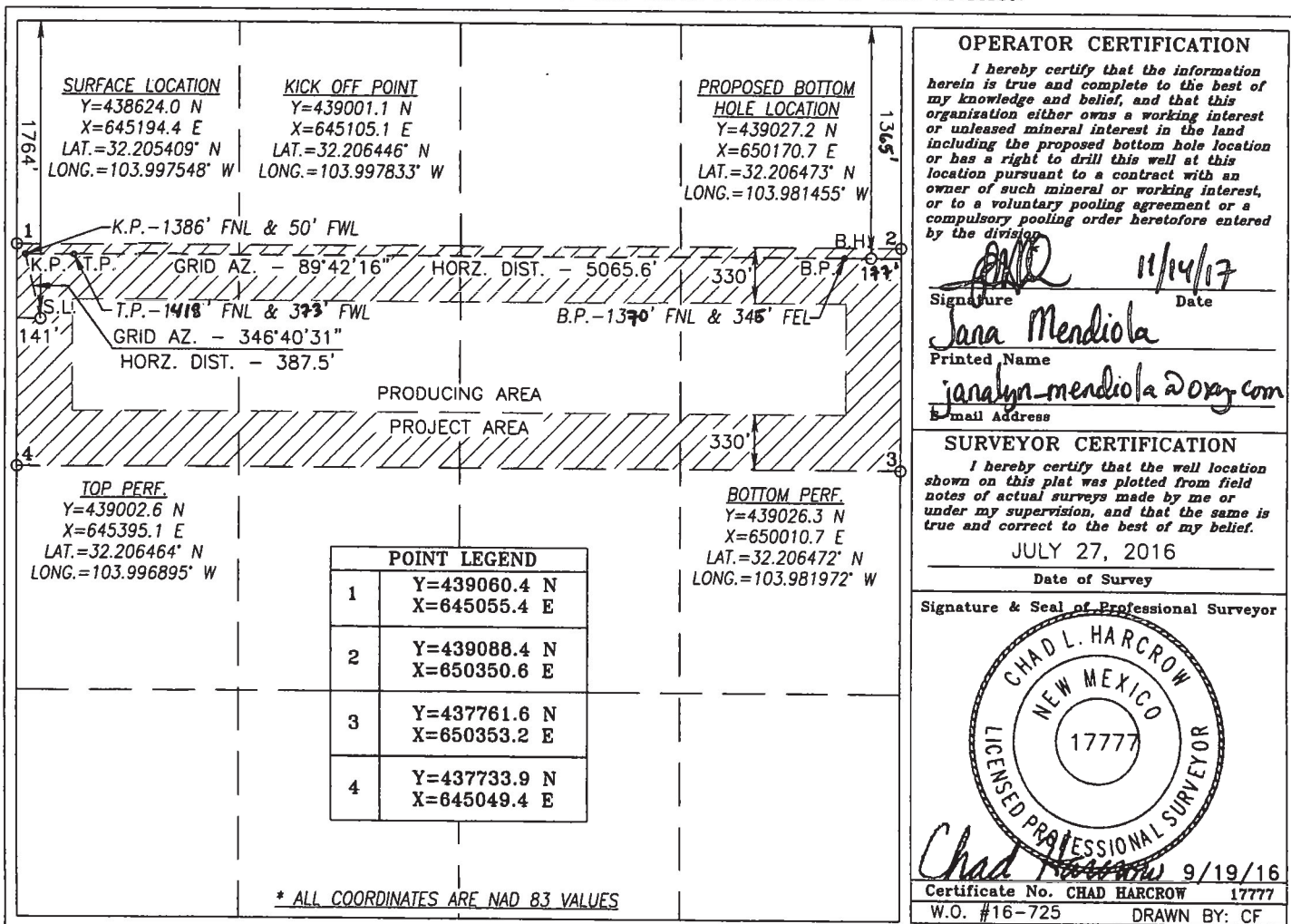
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	21	24-S	29-E		1764	NORTH	141	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
H	21	24-S	29-E		<del>1387</del> <b>1365</b>	NORTH	<del>180</del> <b>177</b>	EAST	EDDY
Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>NSL-7487</b>	<b>BP - 1370 FNL 345 FEL</b> <b>TP - 1418 FNL 373 FNL</b>					

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





District I  
1625 N. French Dr., Hobbs, NM 88240  
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District II  
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1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6178  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
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AMENDED REPORT  
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-44522</b>	Pool Code <b>50371</b>	Pool Name <b>Pierce Crossing Bone Spring</b>
Property Code <b>314329</b>	Property Name <b>CEDAR CANYON "29" FEDERAL COM</b>	
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Well Number <b>25H</b>
		Elevation <b>2928.6'</b>

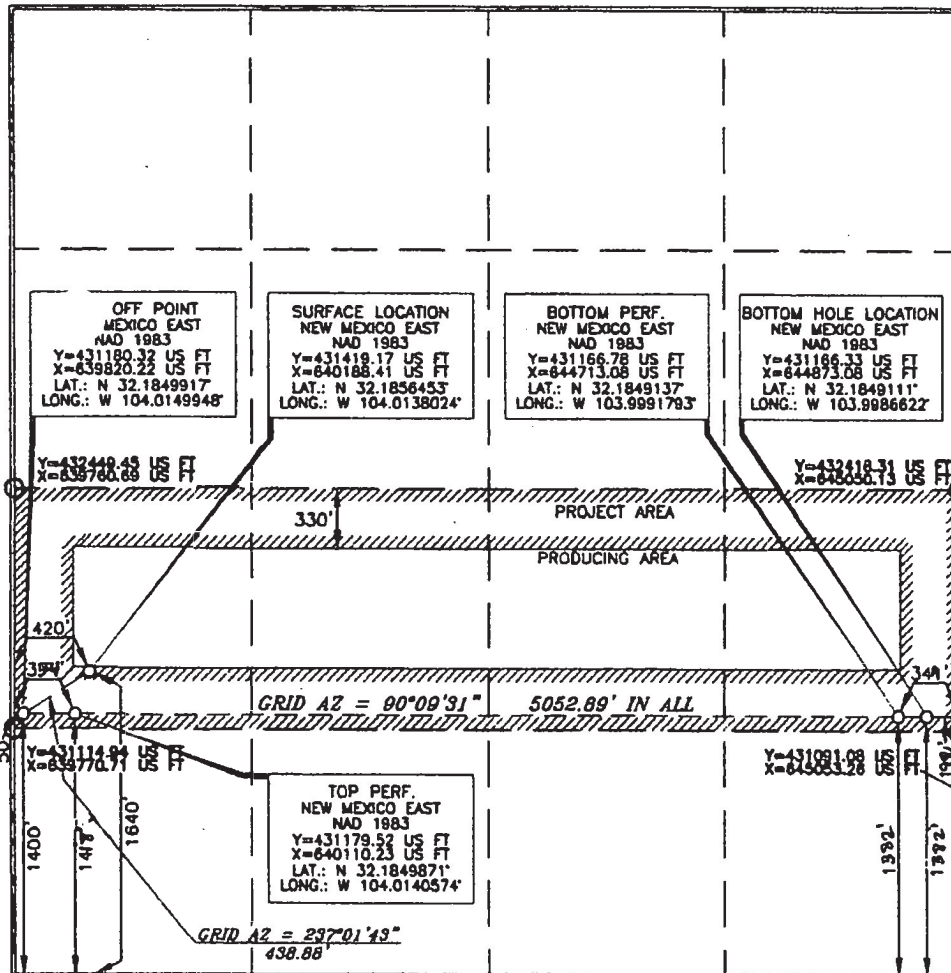
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	24 SOUTH	29 EAST, N.M.P.M.		1640'	SOUTH	420'	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
I	29	24 SOUTH	29 EAST, N.M.P.M.		<del>1400'</del> 1382	SOUTH	<del>180'</del> 199	EAST	EDDY
Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>NSL-7568</b>	BP- 1382 FSL 349 FEL TP- 1418 FSL 354 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 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.

Signature: *[Signature]* 1/31/18  
Printed Name: **Jana Mendiola**  
E-mail Address: **jana@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.

Date of Survey: **JANUARY 24, 2017**

Signature and Seal: *[Signature]*  
Professional Surveyor

Certificate Number: **15079**

Wof 161110WL-b-XY (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., Arredondo, 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  
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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

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AMENDED REPORT  
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-44523</b>	Pool Code <b>50371</b>	Pool Name <b>Pierce Crossing Bone Spring</b>
Property Code <b>304791</b>	Property Name <b>CEDAR CANYON "29" FEDERAL COM</b>	Well Number <b>26H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2928.4'</b>

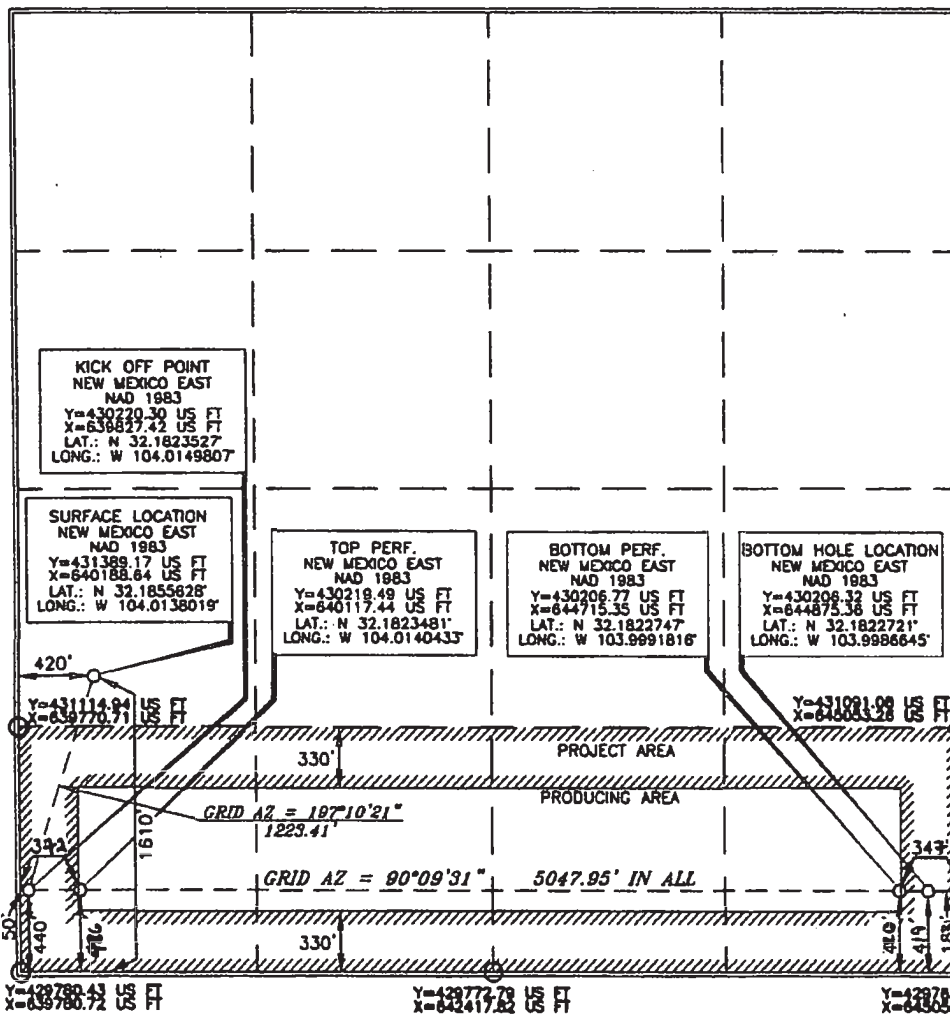
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	24 SOUTH	29 EAST, N.M.P.M.		1610'	SOUTH	420'	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
P	29	24 SOUTH	29 EAST, N.M.P.M.		419' <del>410'</del>	SOUTH	183' <del>180'</del>	EAST	EDDY
Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No.	BP- 420 FSL 347 FEL TP- 486 FSL 372 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]* 1/30/18  
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.

*[Signature]*  
Date of Survey  
Professional Surveyor  
Certificate Number 15079

WOP# 161110WL-c-XY (Rev. A) (NA)

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

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

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Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
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1625 N. French Dr., Hobbs, NM 88240  
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Phone: (505) 748-1283 Fax: (505) 748-9720  
District III  
1030 Ray Branch Road, Aztec, NM 87410  
Phone: (505) 334-4178 Fax: (505) 334-4170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87503  
Phone: (505) 476-3460 Fax: (505) 476-3462

**AMENDED REPORT  
(As-Drilled)**

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-44945</b>	Pool Code <b>50371</b>	Pool Name <b>Pierce Crossing Bone Spring</b>
Property Code <b>321377</b>	Property Name <b>SALT RIDGE CC "20-17" FEDERAL COM</b>	Well Number <b>21H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2933.9'</b>

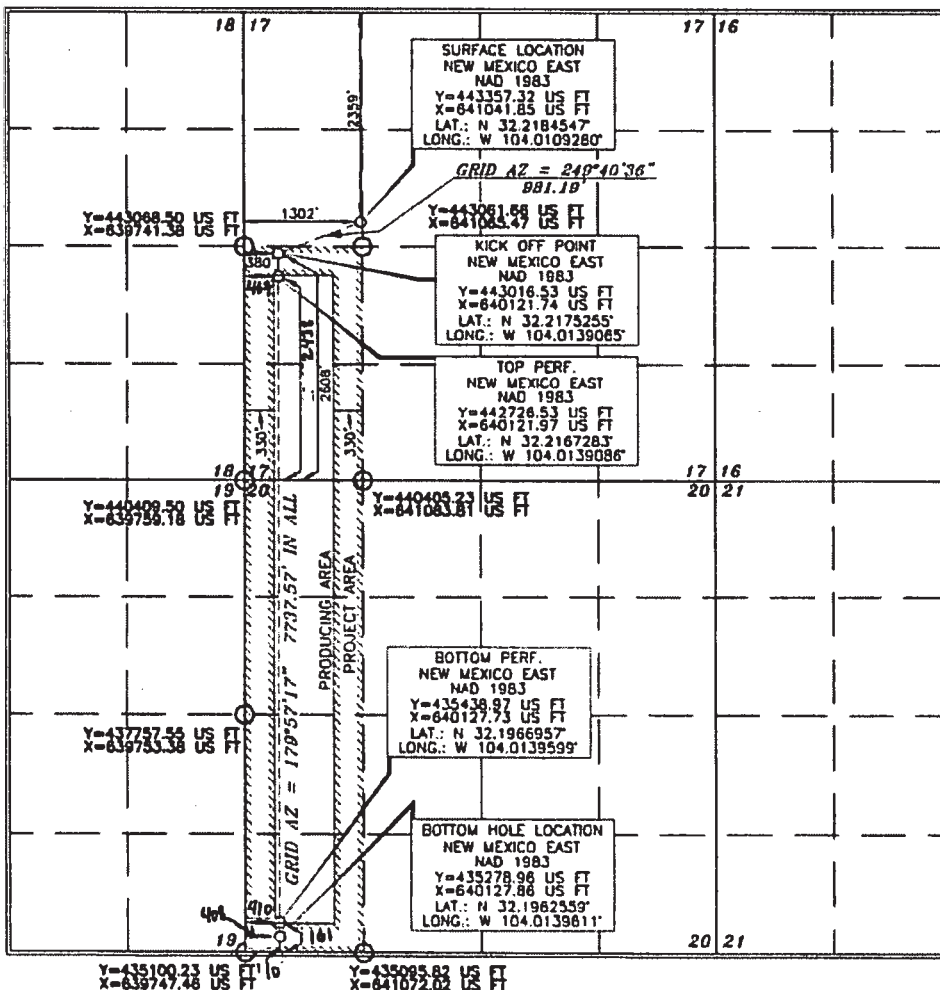
**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>E</b>	<b>17</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>2359'</b>	<b>NORTH</b>	<b>1302'</b>	<b>WEST</b>	<b>EDDY</b>

**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>M</b>	<b>20</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>100'</b>	<b>SOUTH</b>	<b>300'</b>	<b>WEST</b>	<b>EDDY</b>
Dedicated Acres <b>240</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>LTP - 161 FSL 410 FWL FTP - 2438 FSL 467 FWL</b>						

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: *[Signature]* Date: **8/30/18**

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 the most recent surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Land Surveyor: *[Signature]*  
Date of Survey: **SEPTEMBER 9, 2017**

Professional Land Surveyor: **TERRY J. ASS**  
Certificate Number: **15079**

Signature and Seal of Professional Land Surveyor: *[Signature]*  
Certificate Number: **15079**

WO# 170908WL-a-XY (KA)



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AUG 16 2019

Form C-102

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

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District III  
1000 Rio Brazos Road, Acton, 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

AMENDED REPORT  
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45551	Pool Code 50371	Pool Name Pierce Crossing; Bone Spring
Property Code 323007	Property Name LENGTH CC "6_7" FEDERAL COM	
OGRID No. 16696	Operator Name OXY USA INC.	
		Well Number 23H
		Elevation 2958.6'

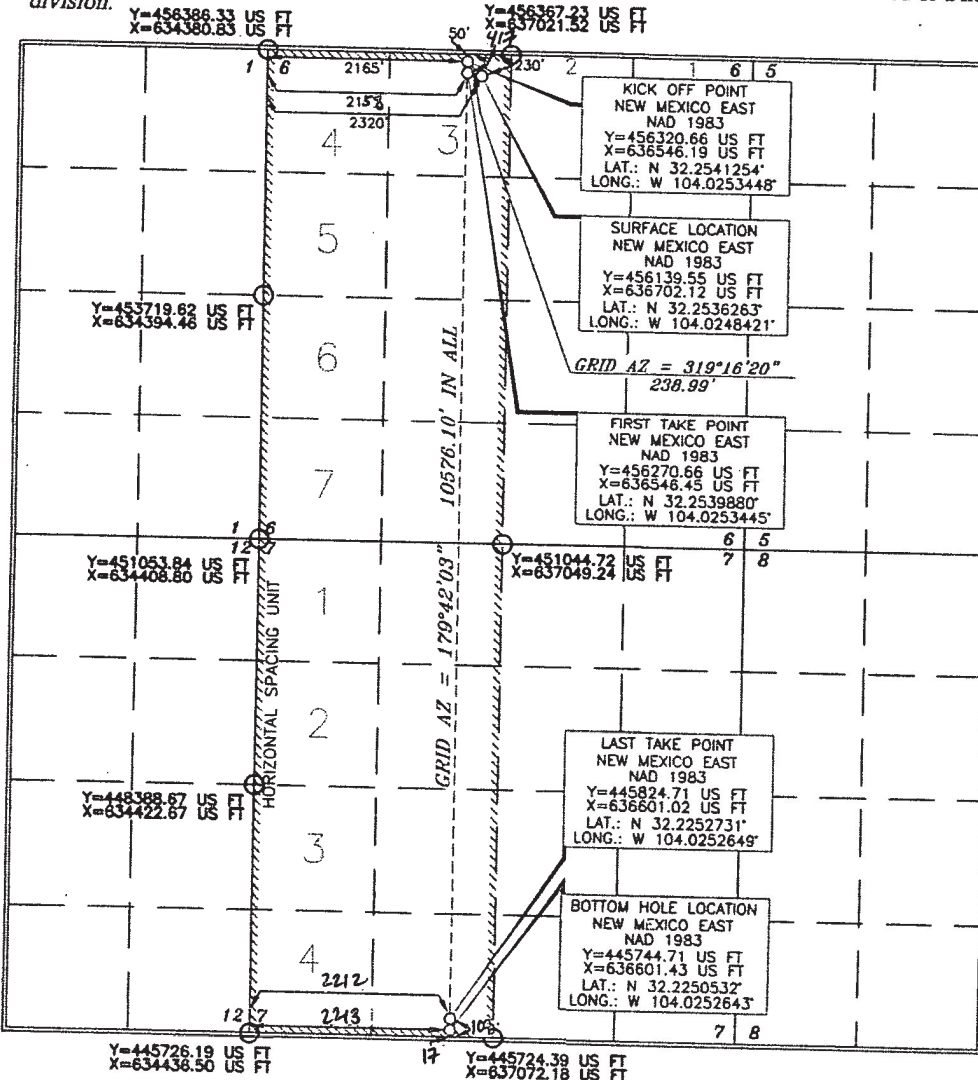
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	24 SOUTH	29 EAST, N.M.P.M.		230'	NORTH	2320'	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	7	24 SOUTH	29 EAST, N.M.P.M.		207'	SOUTH	2165' 2213'	WEST	EDDY
Dedicated Acres 637.33	Joint or Infill Y	Consolidation Code	Order No.	LTP- 109 FSL 2212 FWL FTP- 417 FNL 2158 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: *Jana Mendiola* Date: 8/13/19  
Printed Name: Jana Mendiola  
Email Address: janalyn\_mendiola@oxy.com

**SURVEYOR CERTIFICATION**

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

Date of Survey: NOVEMBER 8, 2018  
Signature and Seal of Professional Land Surveyor: *Terry J. Ash*  
Certificate Number: 15079

WO# 180627WL-b-XY (Rev. A) (KA)

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

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

<sup>1</sup> API Number 30-015-47957	<sup>2</sup> Pool Code 96473/11520	320 acres PIERCE CROSSING BONE SPRING EAST/CEDAR CANYON BONE SPRING	<sup>3</sup> Pool Name 958.62 acres
<sup>4</sup> Property Code 329988	Property Name TAILS CC 10 3 FEDERAL COM		<sup>6</sup> Well Number 22H
<sup>7</sup> OGRID No. 16696	<sup>8</sup> Operator Name OXY USA INC		<sup>9</sup> Elevation 2939'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	24S	29E		220	SOUTH	1450	WEST	EDDY
<sup>11</sup> 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
L 3	3	24S	29E		100	NORTH	1645	WEST	EDDY
<sup>12</sup> Dedicated Acres 1278.62	<sup>13</sup> Joint or Infill Y	<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.					

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

**CORNER COORDINATES NAD 83, SPCS NM EAST**  
A - X: 655595.06' / Y: 451030.27'  
B - X: 655608.14' / Y: 448375.24'  
C - X: 655621.54' / Y: 445720.16'  
D - X: 652967.76' / Y: 445724.10'  
E - X: 650312.09' / Y: 445726.24'  
F - X: 650298.10' / Y: 448382.00'  
G - X: 650284.70' / Y: 451034.00'  
H - X: 650273.76' / Y: 453689.39'  
I - X: 650262.85' / Y: 456331.74'  
J - X: 655544.67' / Y: 456330.90'

**CORNER COORDINATES NAD 27, SPCS NM EAST**  
A - X: 614411.31' / Y: 450971.20'  
B - X: 614424.32' / Y: 448316.23'  
C - X: 614437.66' / Y: 445661.21'  
D - X: 611783.88' / Y: 445665.15'  
E - X: 609128.23' / Y: 445667.29'  
F - X: 609114.30' / Y: 448322.99'  
G - X: 609100.97' / Y: 450974.94'  
H - X: 609090.10' / Y: 453630.27'  
I - X: 609079.26' / Y: 456272.56'  
J - X: 614361.07' / Y: 456271.72'

**BOTTOM HOLE LOCATION**  
100' FNL 1645' FWL, SECTION 3  
19132' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X: 651908.00' / Y: 456231.41'  
LAT: 32.25374918N / LON: 103.97565300W  
NAD 27, SPCS NM EAST  
X: 610724.40' / Y: 456172.24'  
LAT: 32.25362672N / LON: 103.97516332W

**LAST TAKE POINT**  
770' FNL 1642' FWL, SECTION 3  
18462' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X: 651908.51' / Y: 445561.57'  
LAT: 32.25190787N / LON: 103.97565856W  
NAD 27, SPCS NM EAST  
X: 610724.90' / Y: 455502.41'  
LAT: 32.25178542N / LON: 103.97516895W

**FIRST TAKE POINT**  
269' FSL 1634' FWL, SECTION 10  
8883' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X: 651945.18' / Y: 445993.73'  
LAT: 32.22560702N / LON: 103.97564303W  
NAD 27, SPCS NM EAST  
X: 610761.31' / Y: 445934.77'  
LAT: 32.22548427N / LON: 103.97515436W

**KICK OFF POINT**  
130' FNL 1602' FWL, SECTION 15  
8050' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X: 651914.71' / Y: 445595.03'  
LAT: 32.22451132N / LON: 103.97574585W  
NAD 27, SPCS NM EAST  
X: 610730.84' / Y: 445536.08'  
LAT: 32.22438855N / LON: 103.97525271W

**SURFACE HOLE LOCATION**  
220' FSL 1450' FWL, SECTION 10  
NAD 83, SPCS NM EAST  
X: 651760.80' / Y: 445945.00'  
LAT: 32.22547474N / LON: 103.97623979W  
NAD 27, SPCS NM EAST  
X: 610576.94' / Y: 445886.04'  
LAT: 32.22535199N / LON: 103.97575111W

**<sup>17</sup> OPERATOR CERTIFICATION**

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

Signature: Date: 05/10/2021  
**JANA MENDIOLA**  
Printed Name  
janalyn\_mendiola@oxy.com  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.

MAY 6, 2021  
Date of Survey  
Signature and Seal of Professional Surveyor:  
  
Certificate Number  
**DAVID W. MYERS 11403**

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978625 Convergence Angle: 00°11'10.650012"

Horizontal Spacing Unit



Page 4 of 7

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District II
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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
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AMENDED REPORT (AS-DRILLED)

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

Table with 3 columns: API Number (30-015-47975), Pool Code (11520), Pool Name (CEDAR CANYON BONE SPRING), Property Code (329996), Property Name (VAGABOND CC 8\_17 FEDERAL COM), Well Number (23H), OGRID No. (16696), Operator Name (OXY USA INC.), Elevation (2937')

Surface Location

Table with 10 columns: UL or lot no. (N), Section (17), Township (24S), Range (29E), Lot Idn, Feet from the (546), North/South line (SOUTH), Feet from the (1740), East/West line (WEST), County (EDDY)

Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no. (C), Section (8), Township (24S), Range (29E), Lot Idn, Feet from the (57), North/South line (NORTH), Feet from the (2159), East/West line (WEST), County (EDDY)

Table with 4 columns: Dedicated Acres (80), Joint or Infill, Consolidation Code, Order No.

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.

Main well location diagram showing sections 5-21, corner coordinates, bottom hole location (57' FNL 2159' FWL), last take point (221' FNL 2154' FWL), first take point (2548' FNL 1737' FWL), and kick off point (1614' FSL 2036' FWL). Includes Operator Certification and Surveyor Certification sections.

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978625 Convergence Angle: 00°11'10.650012"

Horizontal Spacing Unit

Received by OCD: 4/11/2022 8:56:15 PM

Released to Imaging: 4/19/2022 3:14:40 PM



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AMENDED REPORT  
(AS-DRILLED)

**WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT**

<sup>1</sup> API Number 30-015-47975		<sup>2</sup> Pool Code 50371		<sup>3</sup> Pool Name PIERCE CROSSING; BONE SPRING	
<sup>4</sup> Property Code 329996		Property Name VAGABOND CC 8_17 FEDERAL COM			<sup>6</sup> Well Number 23H
<sup>7</sup> OGRID No. 16696		<sup>8</sup> Operator Name OXY USA INC.			<sup>9</sup> Elevation 2937'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	24S	29E		546	SOUTH	1740	WEST	EDDY

<sup>11</sup> 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	8	24S	29E		57	NORTH	2159	WEST	EDDY

<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

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

**CORNER COORDINATES NAD 83, SPCS NM EAST**  
A - X: 642349.75' / Y: 451021.47'  
B - X: 642360.18' / Y: 448368.03'  
C - X: 642370.62' / Y: 445709.62'  
D - X: 642389.52' / Y: 443055.19'  
E - X: 641065.57' / Y: 443061.87'  
F - X: 641046.99' / Y: 445716.86'  
G - X: 641036.28' / Y: 448373.10'  
H - X: 641023.52' / Y: 451031.53'

**CORNER COORDINATES NAD 27, SPCS NM EAST**  
A - X: 601166.07' / Y: 450962.43'  
B - X: 601176.44' / Y: 448307.05'  
C - X: 601186.81' / Y: 445650.69'  
D - X: 601205.65' / Y: 442996.31'  
E - X: 599881.73' / Y: 443003.00'  
F - X: 599863.21' / Y: 445657.94'  
G - X: 599852.56' / Y: 448314.13'  
H - X: 599839.87' / Y: 450972.51'

**BOTTOM HOLE LOCATION**  
57' FNL 2159' FWL, SECTION 8  
17386' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641856.94' / Y:450668.03'  
LAT:32.23936877N / LON:104.00821787W  
NAD 27, SPCS NM EAST  
X:600673.27' / Y:450909.00'  
LAT:32.23924638N / LON:104.00772776W

**LAST TAKE POINT**  
221' FNL 2154' FWL, SECTION 8  
17222' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641852.80' / Y:450804.11'  
LAT:32.23891820N / LON:104.00823286W  
NAD 27, SPCS NM EAST  
X:600669.13' / Y:450745.08'  
LAT:32.23879581N / LON:104.00774277W

**FIRST TAKE POINT**  
2548' FNL 2098' FWL, SECTION 17  
9566' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641839.10' / Y:443164.69'  
LAT:32.21791861N / LON:104.00835190W  
NAD 27, SPCS NM EAST  
X:600655.25' / Y:443105.81'  
LAT:32.21779597N / LON:104.00786250W

**KICK OFF POINT**  
1614' FSL 2036' FWL, SECTION 17  
8109' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641795.75' / Y:442017.63'  
LAT:32.21476595N / LON:104.00953564W  
NAD 27, SPCS NM EAST  
X:600601.87' / Y:441958.78'  
LAT:32.21464327N / LON:104.00804634W

**SURFACE HOLE LOCATION**  
546' FSL 1737' FWL, SECTION 17  
NAD 83, SPCS NM EAST  
X:641495.60' / Y:440949.91'  
LAT:32.21183344N / LON:104.00948422W  
NAD 27, SPCS NM EAST  
X:600311.70' / Y:440691.08'  
LAT:32.21171064N / LON:104.00899498W

**<sup>17</sup> OPERATOR CERTIFICATION**

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

10/12/2021  
Signature Date

JANA MENDIOLA  
Printed Name

janalyn\_mendiola@oxy.com  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.

OCTOBER 8, 2021  
Date of Survey

Signature and Seal of Professional Surveyor

DAVID W. MYERS  
Certificate Number

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978625 Convergence Angle: 00°11'10.650012"  
Horizontal Spacing Unit



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AMENDED REPORT  
(AS-DRILLED)

**WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT**

<sup>1</sup> API Number 30-015-47975		<sup>2</sup> Pool Code 96473		<sup>3</sup> Pool Name PIERCE CROSSING; BONE SPRING, EAST	
<sup>4</sup> Property Code 329996		Property Name VAGABOND CC 8_17 FEDERAL COM			<sup>6</sup> Well Number 23H
<sup>7</sup> OGRID No. 16696		<sup>8</sup> Operator Name OXY USA INC.			<sup>9</sup> Elevation 2937'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	24S	29E		546	SOUTH	1740	WEST	EDDY

<sup>11</sup> 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	8	24S	29E		57	NORTH	2159	WEST	EDDY

<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

**CORNER COORDINATES NAD 83, SPCS NM EAST**  
A - X: 642349.75' / Y: 451021.47'  
B - X: 642360.18' / Y: 448368.03'  
C - X: 642370.62' / Y: 445709.62'  
D - X: 642389.52' / Y: 443055.19'  
E - X: 641065.57' / Y: 443061.87'  
F - X: 641046.99' / Y: 445716.86'  
G - X: 641036.28' / Y: 448373.10'  
H - X: 641023.52' / Y: 451031.53'

**CORNER COORDINATES NAD 27, SPCS NM EAST**  
A - X: 601166.07' / Y: 450962.43'  
B - X: 601176.44' / Y: 448307.05'  
C - X: 601186.81' / Y: 445650.69'  
D - X: 601205.65' / Y: 442996.31'  
E - X: 599881.73' / Y: 443003.00'  
F - X: 599863.21' / Y: 445657.94'  
G - X: 599852.56' / Y: 448314.13'  
H - X: 599839.87' / Y: 450972.51'

**BOTTOM HOLE LOCATION**  
57' FNL 2159' FWL, SECTION 8  
17386' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641856.94' / Y:450668.03'  
LAT:32.23936877N / LON:104.00821787W  
NAD 27, SPCS NM EAST  
X:600673.27' / Y:450909.00'  
LAT:32.23924638N / LON:104.00772776W

**LAST TAKE POINT**  
221' FNL 2154' FWL, SECTION 8  
17222' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641852.80' / Y:450804.11'  
LAT:32.23891820N / LON:104.00823286W  
NAD 27, SPCS NM EAST  
X:600669.13' / Y:450745.08'  
LAT:32.23879581N / LON:104.00774277W

**FIRST TAKE POINT**  
2548' FNL 2098' FWL, SECTION 17  
9566' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641939.10' / Y:443164.69'  
LAT:32.21791861N / LON:104.00835190W  
NAD 27, SPCS NM EAST  
X:600655.25' / Y:443105.81'  
LAT:32.21779597N / LON:104.00786250W

**KICK OFF POINT**  
1614' FSL 2036' FWL, SECTION 17  
8109' MEASURED DEPTH IN FEET  
NAD 83, SPCS NM EAST  
X:641495.60' / Y:440949.91'  
LAT:32.21476595N / LON:104.00948422W  
NAD 27, SPCS NM EAST  
X:600601.87' / Y:441958.78'  
LAT:32.21464327N / LON:104.00804634W

**SURFACE HOLE LOCATION**  
546' FSL 1737' FWL, SECTION 17  
NAD 83, SPCS NM EAST  
X:641495.60' / Y:440949.91'  
LAT:32.21476595N / LON:104.00948422W  
NAD 27, SPCS NM EAST  
X:600311.70' / Y:440691.08'  
LAT:32.21171064N / LON:104.00899498W

**<sup>17</sup> OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 10/12/2021  
Printed Name: JANA MENDIOLA  
E-mail Address: janalyn\_mendiola@oxy.com

**<sup>18</sup> SURVEYOR CERTIFICATION**  
I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.

Date of Survey: OCTOBER 8, 2021  
Signature and Seal of Professional Surveyor: *[Signature]*  
Certificate Number: DAVID W. MYERS 11403

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978625 Convergence Angle: 00°11'10.650012"  
Horizontal Spacing Unit



Side 1

## INJECTION WELL DATA SHEET

OPERATOR: [157984] OCCIDENTAL PERMIAN LTD

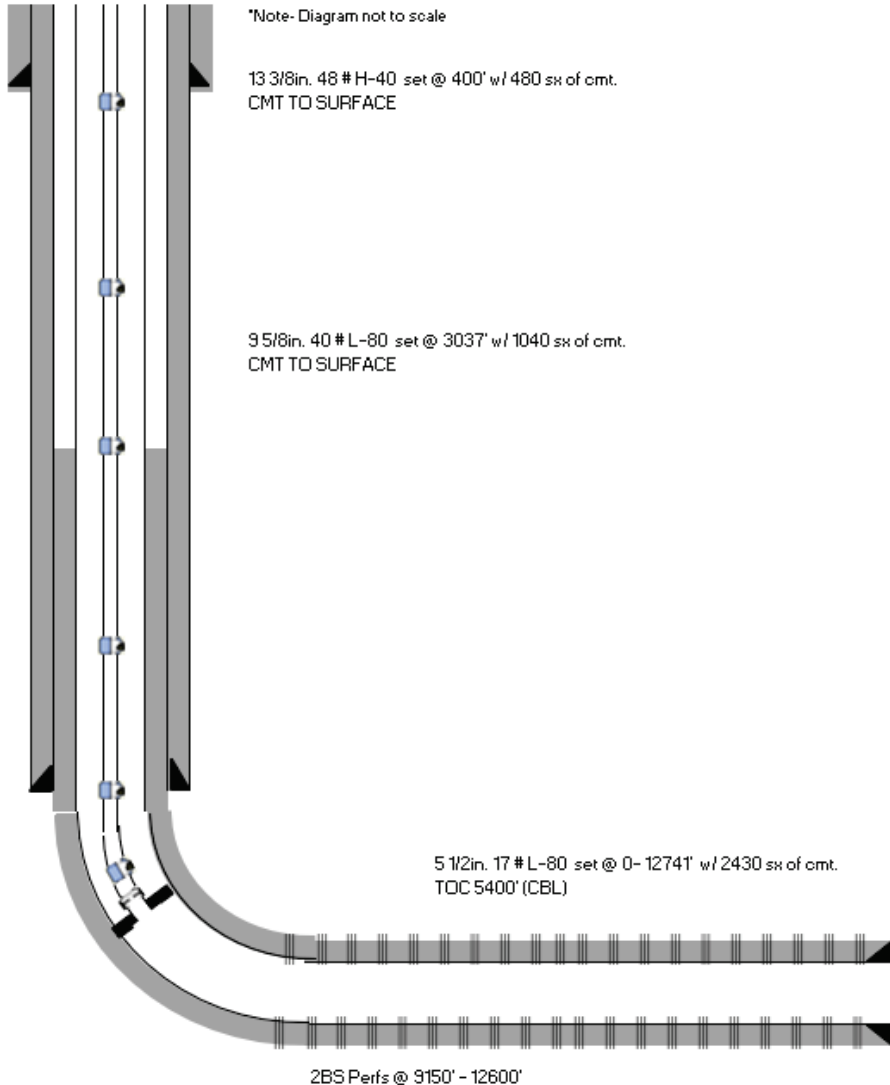
WELL NAME & NUMBER: MORGAN FEE COM 001H 30-015-39968

WELL LOCATION: 1035 FSL 455 FWL	M	21	24S	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: 480 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Intermediate Casing

Hole Size: 12.25 Casing Size: 9.625

Cemented with: 1040 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Production Casing

Hole Size: 5.5 Casing Size: 5.5

Cemented with: 2430 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 5400' Method Determined: CBL

Total Depth: 12741' MD, 9265' TVD

Injection Interval

9150' MD / 9147' TVD feet to 12600' MD / 9265' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: N/AType of Packer: 5.5" AS1XPacker Setting Depth: 8339' MD / 8336' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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):
- CORRAL DRAW, BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
1	30015399680000	MORGAN FEE COM 001H	7538	7537	8435	8356	90

# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 23 002H 30-015-41194

WELL LOCATION: <u>650 FSL</u>	<u>660 FWL</u>	<u>M</u>	<u>23</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION		UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC

\*Note- Diagram not to scale

11 3/4 in. 47 # J55 set @ 467' w/ 721 sx of cmt.  
CMT TO SURFACE

8 5/8 in. 32 # L-80 set @ 3020' w/ 1120 sx of cmt.  
CMT TO SURFACE

5 1/2 in. 17 # P110 set @ 0- 13421' w/ 1360 sx of cmt.  
TOC 2500' (CBL)

2BS Perfs @ 9195' - 13220'

### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 14.75 Casing Size: 11.75

Cemented with: 721 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Intermediate Casing

Hole Size: 10.625 Casing Size: 8.625

Cemented with: 1120 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Production Casing

Hole Size: 7.875 Casing Size: 5.5

Cemented with: 1360 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 2500' Method Determined: CBL

Total Depth: 13389' MD, 8902' TVD

#### Injection Interval

9195' MD / 8836' TVD feet to 13220' MD / 8900' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2.875 Lining Material: NONE

Type of Packer: AS1X

Packer Setting Depth: 8191' MD / 8170' TVD

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

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Production

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

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

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
2	30015411940000	CEDAR CANYON 23 002H	7773	7753	8616	8576	9234

# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 29 FEDERAL 003H 30-015-42993

WELL LOCATION: <u>1990 FNL</u>	<u>210 FEL</u>	<u>H</u>	<u>29</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION		UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC

### WELL CONSTRUCTION DATA

#### Surface Casing

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 670' w/ 700 sx of cmt.  
CMT TO SURFACE

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 700 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1215 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Production Casing

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 550 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7991 Method Determined: CBL

Total Depth: 13278' MD, 8563' TVD

#### Injection Interval

8582' MD / 8479' TVD feet to 13135' MD / 8563' TVD

(Perforated or Open Hole; indicate which)

2BS Perfs @ 8582' - 13135'

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: ACP-TAMPacker Setting Depth: 7920' MD / 7899' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
3	30015429930000	CEDAR CANYON 29 FEDERAL 003H	7578	7560	8437	8378	903

Side 1

## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC.

WELL NAME & NUMBER: CEDAR CANYON 27 FEDERAL 006H 30-015-43232

WELL LOCATION: <u>1920 FSL 200 FEL</u>	<u>I</u>	<u>28</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 436' w/ 540 sx of cmt.  
CMT TO SURFACE

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 540 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1530 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Production Casing

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 740 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 6200 Method Determined: CBL

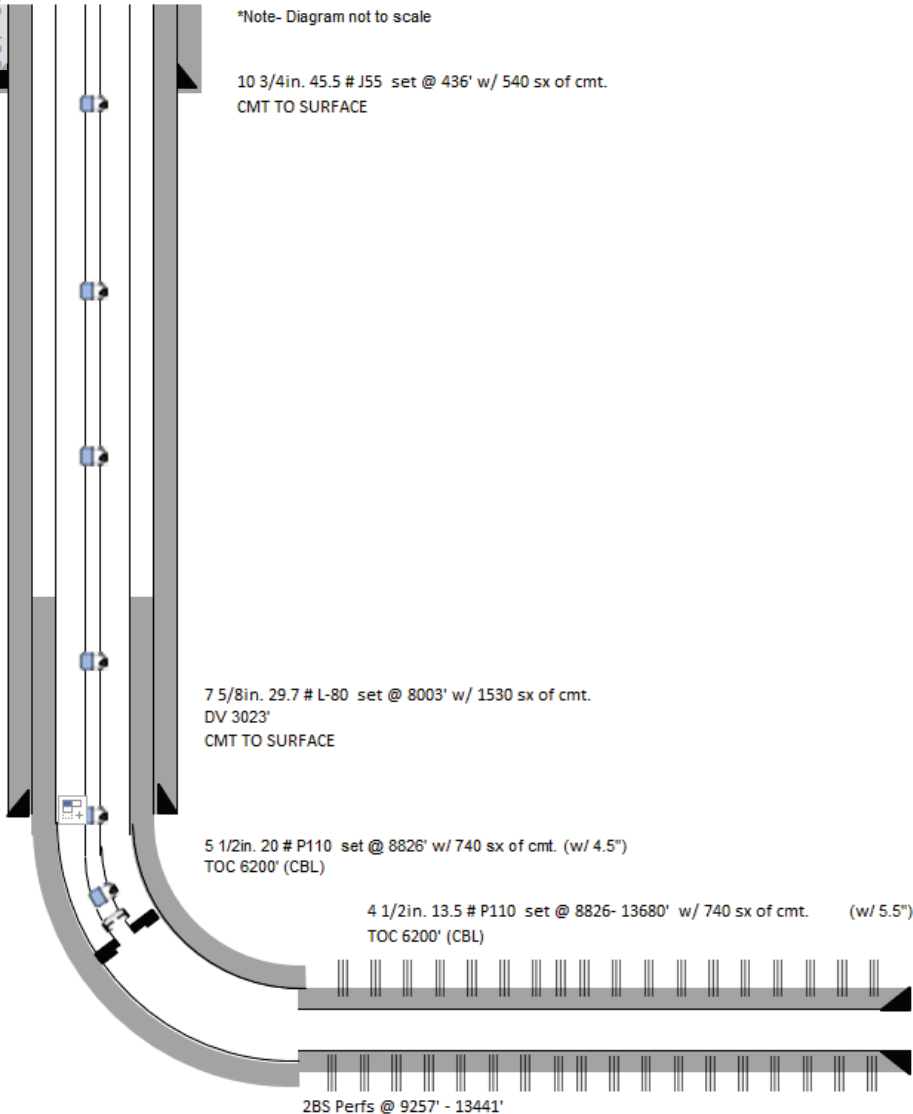
Total Depth: 13634' MD, 8732' TVD

Injection Interval

9257' MD / 8735' TVD feet to 13441' MD / 8757' TVD

(Perforated or Open Hole; indicate which)

034



**INJECTION WELL DATA SHEET**Tubing Size: 2.375 Lining Material: NONEType of Packer: AS1XPacker Setting Depth: 8605' MD / 8562' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
4	30015432320000	CEDAR CANYON 27 FEDERAL 006H	7626	7608	8393	8369	9027



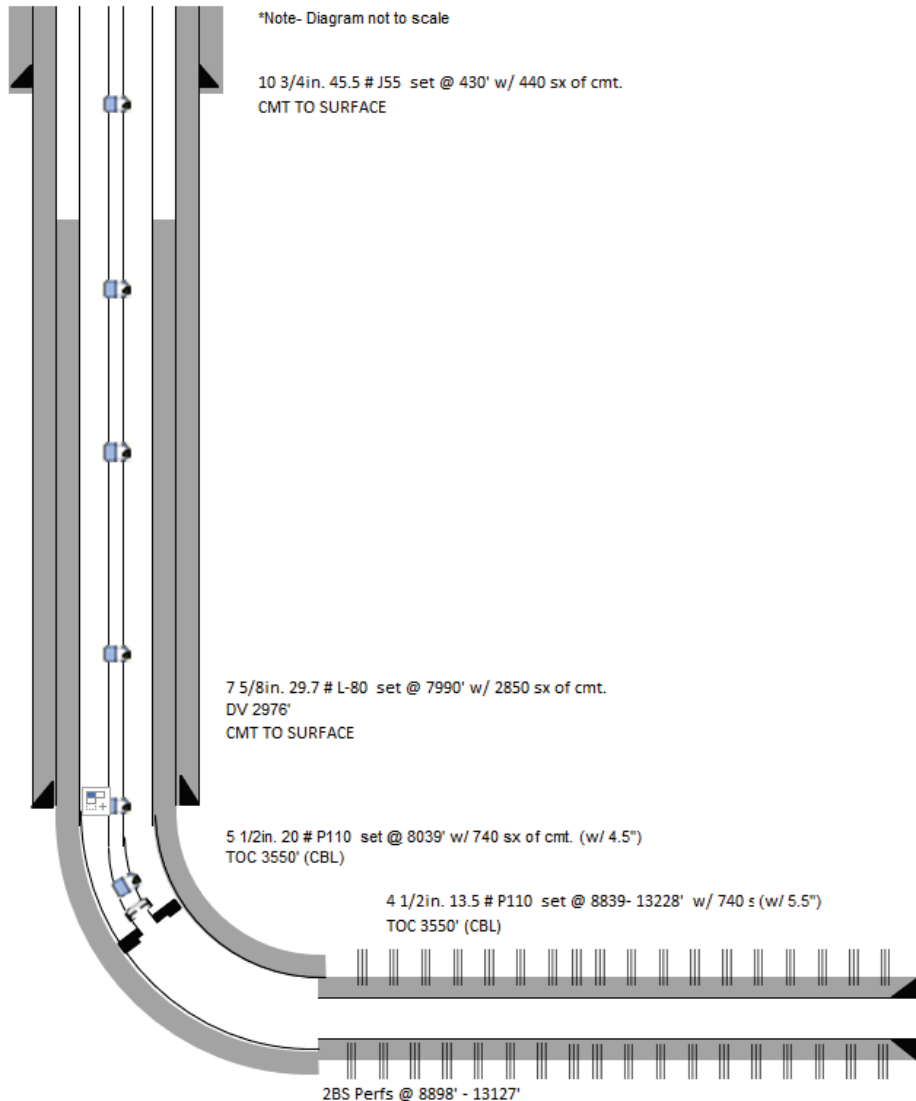
# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: Cedar Canyon 28 Federal 006H 30-015-43234

WELL LOCATION:	<u>1870 FSL 200 FEL</u>	<u>I</u>	<u>2B</u>	<u>24S</u>	<u>29E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC



### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 440 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0' Method Determined: Verf. @ Surf.

#### Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 2850 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0' Method Determined: Verf. @ surf

#### Production Casing

Hole Size: 6.75 Casing Size: 5.5 x 4.5

Cemented with: 740 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 3550 Method Determined: CBL

Total Depth: 13181' MD, 8605' TVD

#### Injection Interval

8898' MD / 8660' TVD feet to 13127' MD / 8614' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: 5.5" ARROW SETPacker Setting Depth: 8478' MD / 8434' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
5	30015432340000	CEDAR CANYON 28 FEDERAL 006H	7621	7607	8398	8366	9024

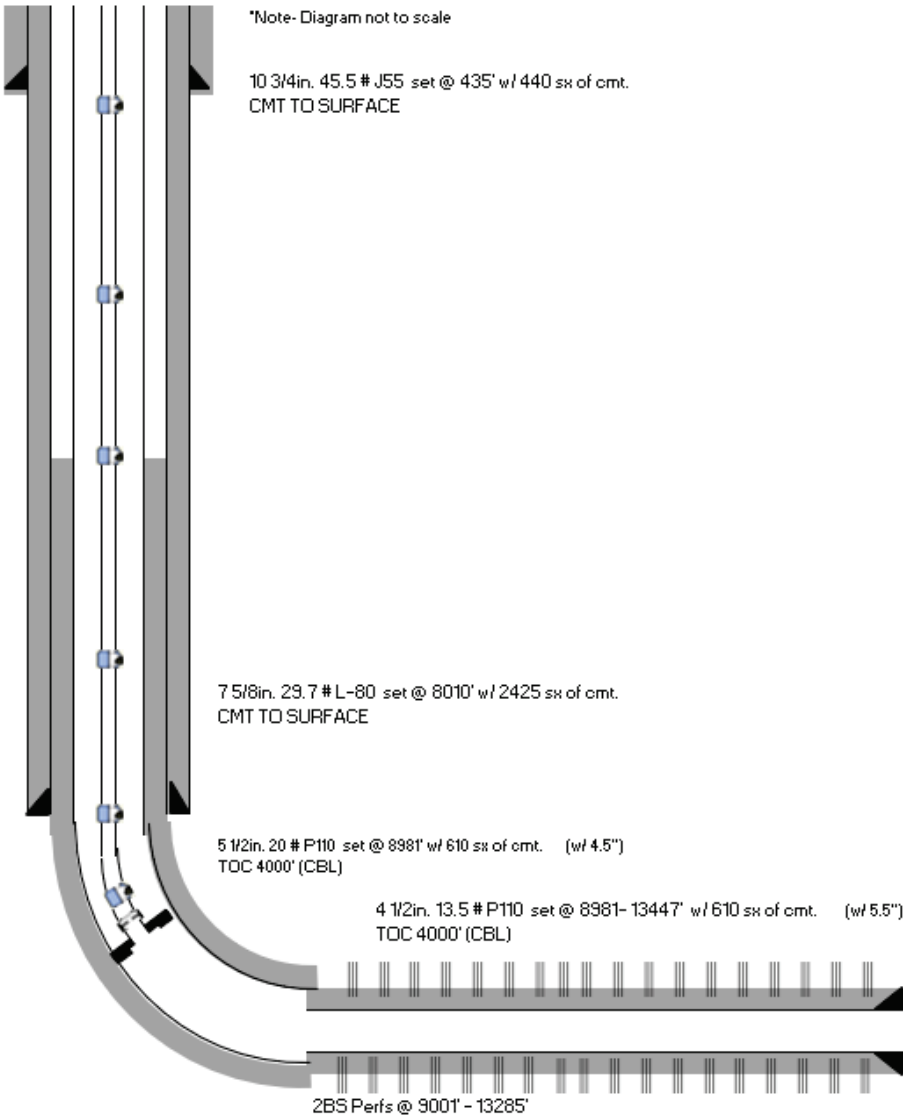
## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 28 FEDERAL 007H 30-015-43238

WELL LOCATION: <u>1760 FSL 240 FEL</u>	<u>I</u>	<u>28</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**



**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: <u>14.75</u>	Casing Size: <u>10.75</u>
Cemented with: <u>440</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf.</u>	Method Determined: <u>Verified @ Surf.</u>

Intermediate Casing

Hole Size: <u>9.875</u>	Casing Size: <u>7.625</u>
Cemented with: <u>2425</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf.</u>	Method Determined: <u>Verified @ Surf.</u>

Production Casing

Hole Size: <u>6.75</u>	Casing Size: <u>5.5 X 4.5</u>
Cemented with: <u>610</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>4000</u>	Method Determined: <u>CBL</u>

Total Depth: 13400' MD, 8594' TVD

Injection Interval

9001' MD / 8688' TVD feet to 13285' MD / 8608' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: WFT ARROW SETPacker Setting Depth: 8388' MD / 8309' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
6	30015432380000	CEDAR CANYON 28 FEDERAL 007H	7662	7608	8459	8367	9026

# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 23 FEDERAL 005H 30-015-43282

WELL LOCATION: <u>1305 FNL 155 FEL</u>	A	22	24S	29E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 444' w/ 550 sx of cmt.  
CMT TO SURFACE

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 550 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1570 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Production Casing

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 1110 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

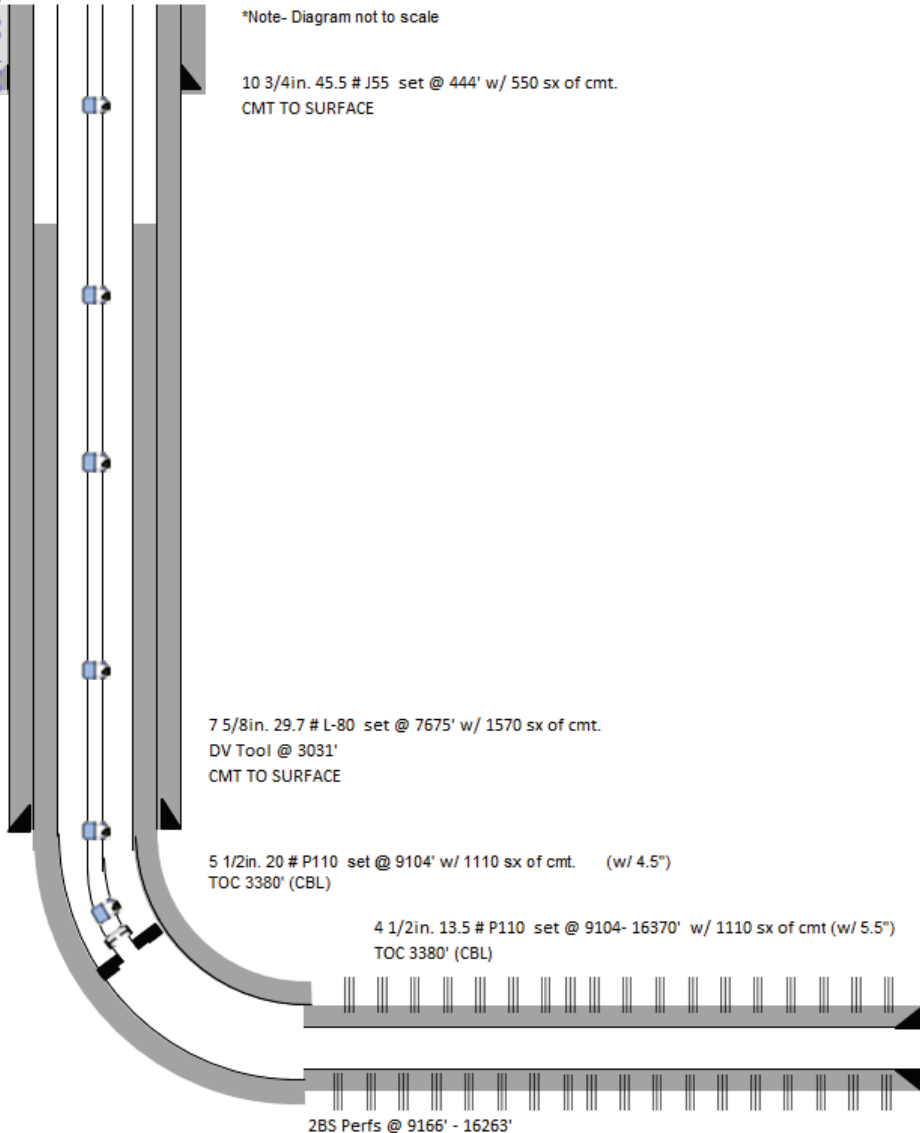
Top of Cement: 3380 Method Determined: CBL

Total Depth: 16324' MD, 9012' TVD

Injection Interval

9166' MD / 8844' TVD feet to 16263' MD / 9010' TVD

(Perforated or Open Hole; indicate which)





**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: AS1XPacker Setting Depth: 8800' MD / 8671' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
7	30015432820000	CEDAR CANYON 23 FEDERAL 005H	7853	7752	8716	8602	9260

# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 22 FEDERAL COM 004H 30-015-43708

WELL LOCATION: <u>2540 FSL 260 FEL</u>	<u>I</u>	<u>22</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC

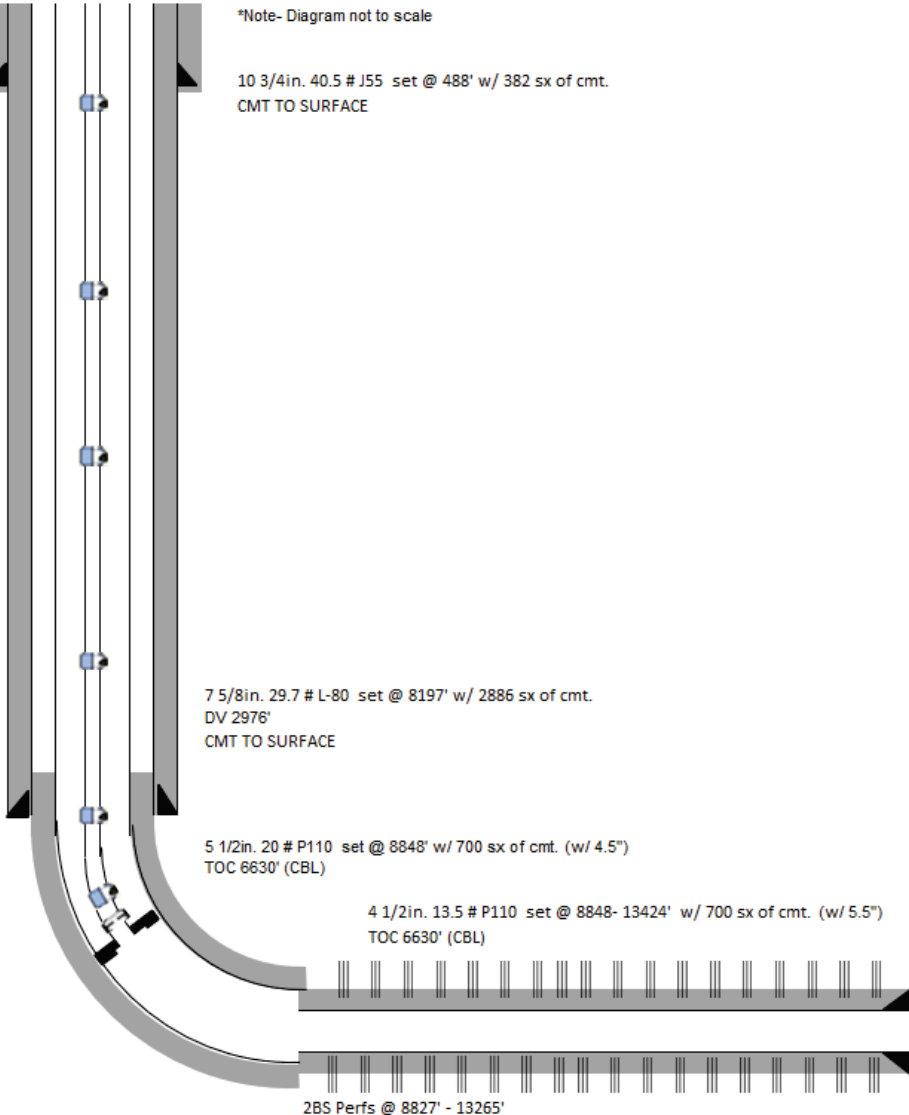
### WELL CONSTRUCTION DATA

#### Surface Casing

#### Intermediate Casing

#### Production Casing

#### Injection Interval



Hole Size: 14.75 Casing Size: 10.75

Cemented with: 382 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: Verf @ Surf.

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 2886 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: verf @ surf.

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 700 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 6630 Method Determined: CBL

Total Depth: 13,424' MD, 8728' TVD

8827' MD / 8748' TVD feet to 13265' MD / 8734' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: AS1Packer Setting Depth: 8637' MD / 8612' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
8	30015437080000	CEDAR CANYON 22 FEDERAL COM 004H	7745	7744	8570	8556	9214



## INJECTION WELL DATA SHEET

Side 1

OPERATOR: OXY USA INC. (16696)WELL NAME & NUMBER: CEDAR CANYON 21 FEDERAL 005H 30-015-43749

WELL LOCATION: 1090 FSL 207 FWL      M      22      24S      29E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 430' w/ 470 sx of cmt.  
 CMT TO SURFACE

7 5/8in. 29.7 # L-80 set @ 8138' w/ 1170 sx of cmt.  
 DV 2976'  
 CMT TO SURFACE

5 1/2in. 20 # P110 set @ 8840' w/ 500 sx of cmt. (w/ 4.5")  
 TOC 7450' (CBL)

4 1/2in. 13.5 # P110 set @ 8840- 13531' w/ 560 sx of cmt. (w/ 5.5")  
 TOC 7450' (CBL)

2BS Perfs @ 8918' - 13313'

WELL CONSTRUCTION DATASurface CasingHole Size: 14.75      Casing Size: 10.75Cemented with: 470 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf.      Method Determined: Verified @ Surf.Intermediate CasingHole Size: 9.875      Casing Size: 7.625Cemented with: 1170 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf.      Method Determined: Verified @ Surf.Production CasingHole Size: 6.75      Casing Size: 5.5 x 4.5Cemented with: 560 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: 7450'      Method Determined: CBLTotal Depth: 13384 MD, 8626 TVDInjection Interval8918' MD / 8695' TVD feet to 13313 MD / 8632' TVD

(Perforated or Open Hole; indicate which)

044

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: Weatherford Arrowset 1-X PackerPacker Setting Depth: 8581' MD / 8510' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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):
- CORRAL DRAW, BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
9	30015437490000	CEDAR CANYON 21 FEDERAL 005H	7694	7656	8485	8429	9087

Side 1

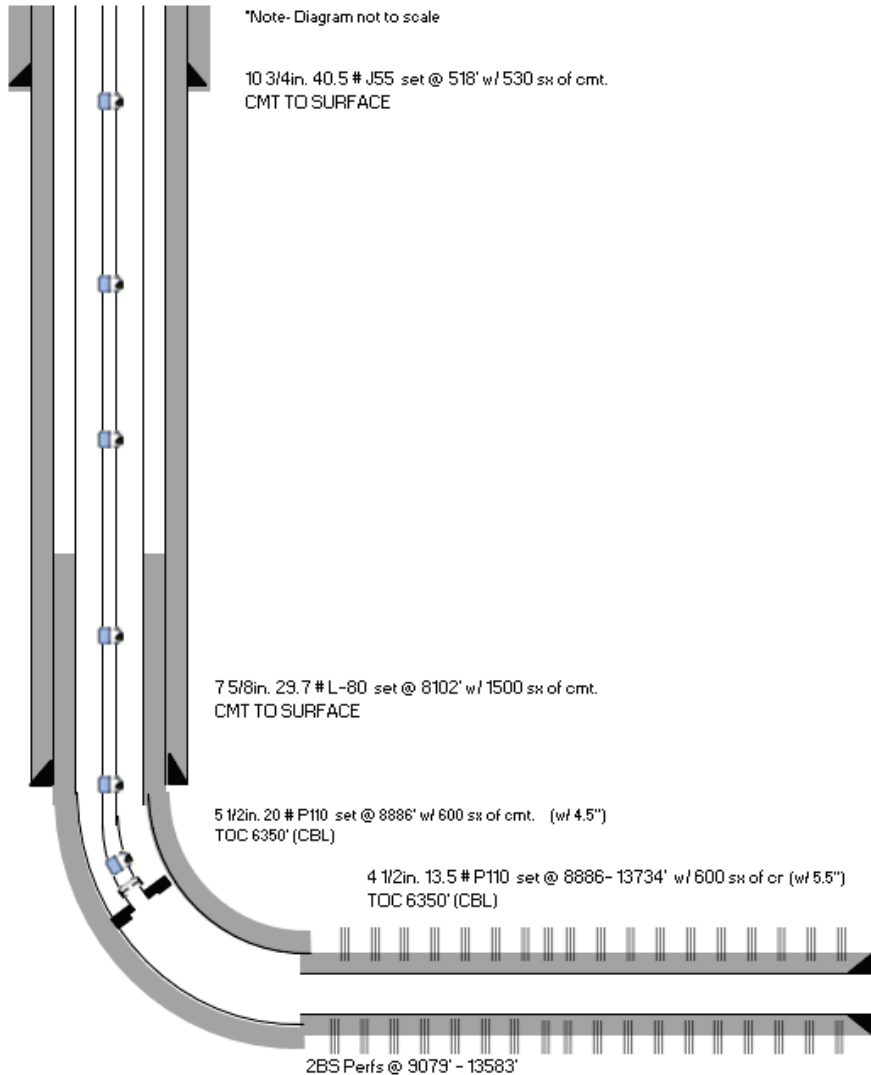
## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 27 FEDERAL 005H 30-015-43775

WELL LOCATION: <u>1154 FNL 151 FWL</u>	D	27	24S	29E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**



**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: <u>14.75</u>	Casing Size: <u>10.75</u>
Cemented with: <u>530</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf.</u>	Method Determined: <u>Verified @ Surf.</u>

Intermediate Casing

Hole Size: <u>9.875</u>	Casing Size: <u>7.625</u>
Cemented with: <u>1500</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf.</u>	Method Determined: <u>Verified @ Surf.</u>

Production Casing

Hole Size: <u>6.75</u>	Casing Size: <u>5.5 X 4.5</u>
Cemented with: <u>600</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>6350</u>	Method Determined: <u>CBL</u>

Total Depth: 13682' MD, 8819' TVD

Injection Interval

9079' MD / 8727' TVD feet to 13583' MD / 8816' TVD

(Perforated or Open Hole; indicate which)



**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: AS1XPacker Setting Depth: 8372' MD / 8316' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; 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: \_\_\_\_\_

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
10	30015437750000	CEDAR CANYON 27 FEDERAL 005H	7667	7614	8442	8383	9037

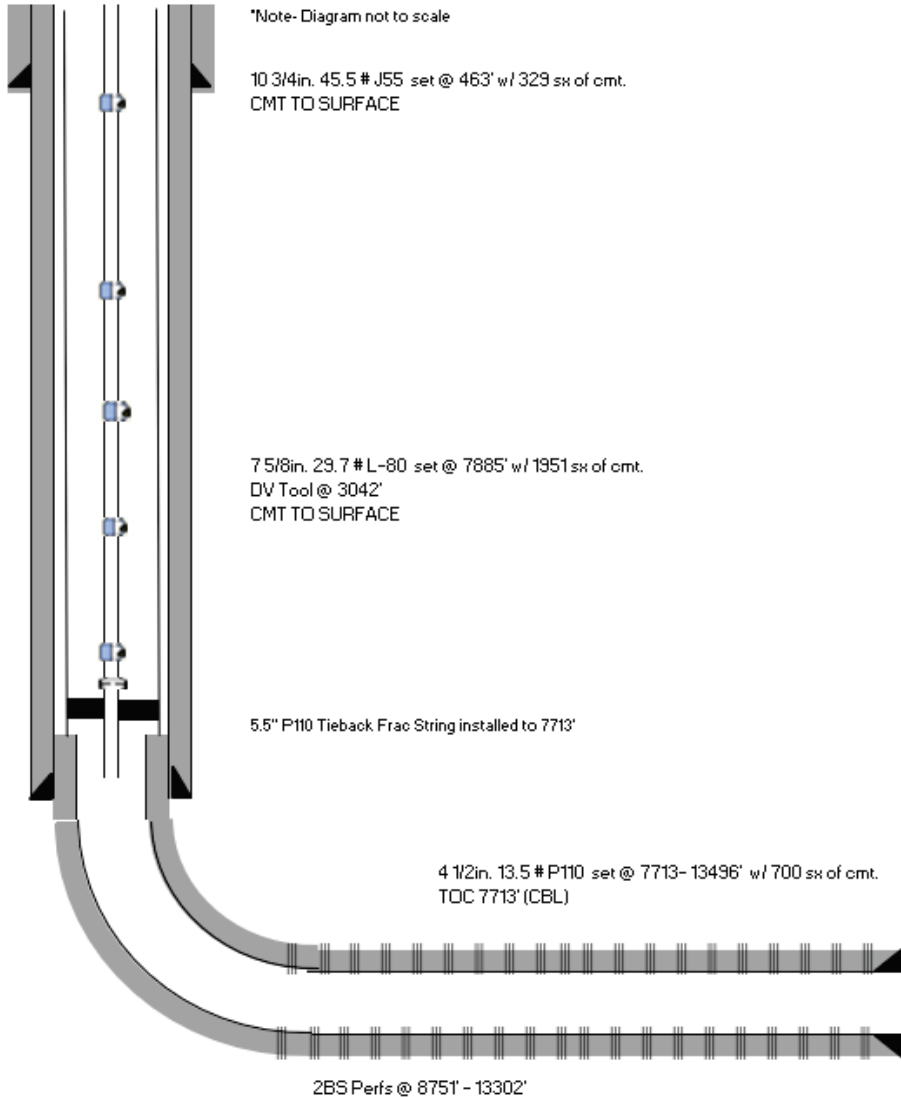
# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: Cedar Canyon 21 Federal 021H 30-015-44181

WELL LOCATION: <u>369 FNL 368 FEL</u>	<u>A</u>	<u>21</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC



### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 329 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: Verf @ Surf.

#### Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1951 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: Surf.

#### Production Casing

Hole Size: 6.5 Casing Size: 5.5" x 4.5"

Cemented with: 700 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7713 Method Determined: CBL

Total Depth: 13444' MD, 8550' TVD

#### Injection Interval

8751' MD / 8635' TVD feet to 13302' MD / 8554' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.375 Lining Material: NONEType of Packer: WATSON AS1XPacker Setting Depth: 7638' MD / 7617' TVD, Will deepen to 8008' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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): CORRAL DRAW, BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
11	30015441810000	CEDAR CANYON 21 FEDERAL 021H	7676	7656	8452	8418	9076



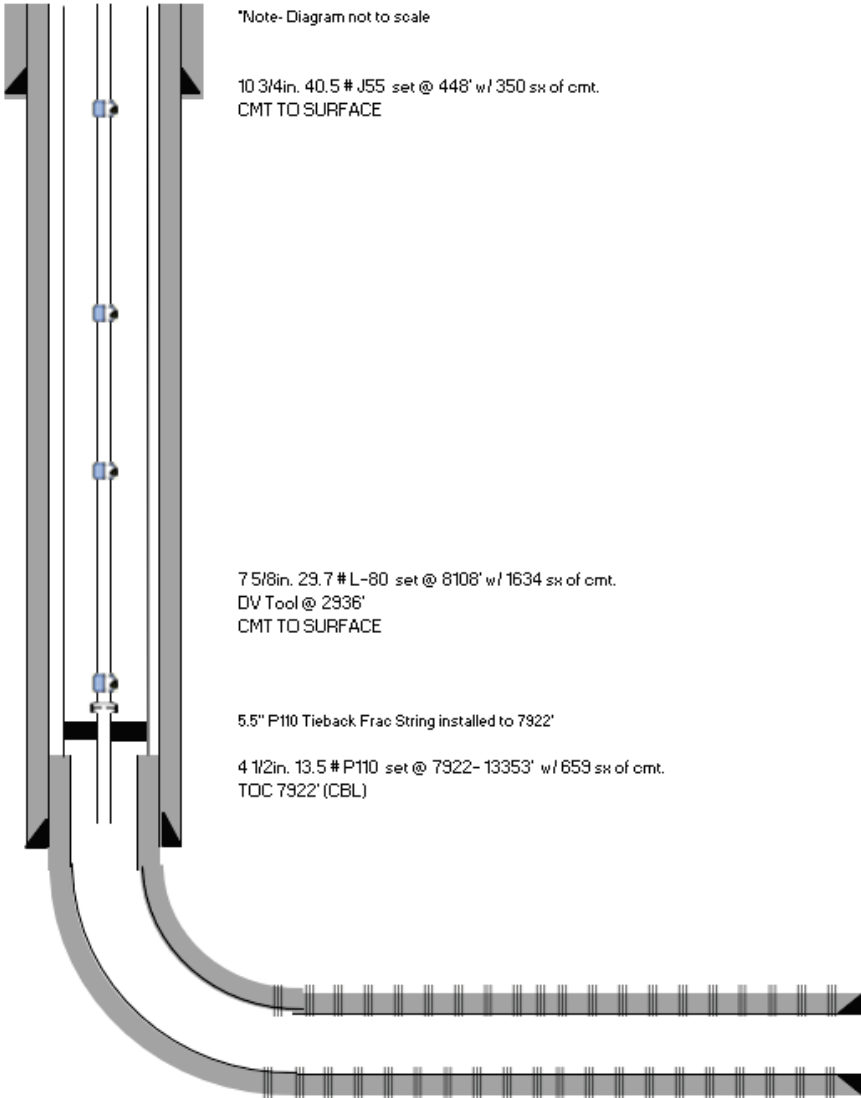
# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 21 FEDERAL 022H 30-015-44190

WELL LOCATION: <u>1764 FNL 141 FWL</u>	<u>E</u>	<u>21</u>	<u>24s</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC



### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 350 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: Verf @ Surf.

#### Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1634 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 0 Method Determined: Verf @ surf.

#### Production Casing

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 659 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7922 Method Determined: CBL

Total Depth: 13299' MD, 8713' TVD

#### Injection Interval

8602' MD, 8506' TVD feet to 13198' MD, 8705' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: Watson ASX-1Packer Setting Depth: 7901 MD / 7879' TVD, Will deepen to 7933' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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): CORRAL DRAW, BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
12	30015441900000	CEDAR CANYON 21 FEDERAL 022H	7570	7552	8420	8370	9023

Side 1

## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 29 FED COM 25H 30-015-44522

WELL LOCATION: <u>1640 FSL, 420 FWL</u>	<u>L</u>	<u>29</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**

\*Note- Diagram not to scale

10-3/4" 45.5# J55 csg set @ 612' w/ 913 sxs cement  
CMT TO SURFACE

7 5/8" 26.4 # L80 csg set @ 7936' w/ 1,605 sxs cement  
DV Tool @ 2,824'  
CMT TO SURFACE

5 1/2" 20# P110 csg 7731' to surface + 4 1/2" 13.5# P110 csg @ 7731' - 13,320' w 683 sxs cement  
TOC 7,736' (CBL)

2BS Perfs @ 8,575' - 13,170'

**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: <u>14.75</u>	Casing Size: <u>10.75</u>
Cemented with: <u>762</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf.</u>	Method Determined: <u>Verf. @ surface</u>

Intermediate Casing

Hole Size: <u>9.875</u>	Casing Size: <u>7.625</u>
Cemented with: <u>1605</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>Surf</u>	Method Determined: <u>Verf @ surf</u>

Production Casing

Hole Size: <u>6.75</u>	Casing Size: <u>5.5 x 4.5</u>
Cemented with: <u>683</u> sx. <i>or</i> _____ ft <sup>3</sup>	
Top of Cement: <u>7736</u>	Method Determined: <u>CBL</u>

Total Depth: 13262' MD, 8612' TVD

Injection Interval

8575' MD / 8458' TVD feet to 13170' MD / 8611' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NoneType of Packer: 5.5" AS1-XPacker Setting Depth: 7695' MD / 7665' TVD, will deepen to 7822' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  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 CROSS; BONE SPRING,

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
13	30015445220000	CEDAR CANYON 29 FED COM 25H	7509	7480	8331	8282	8941



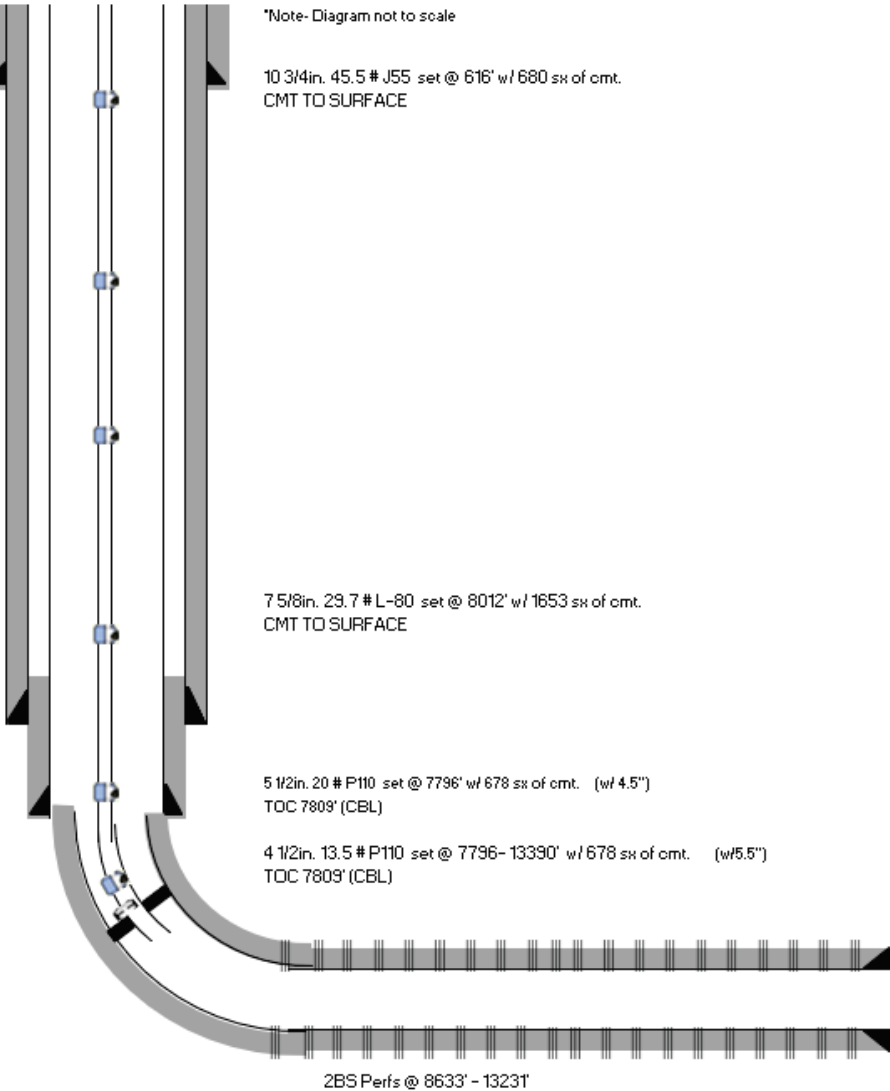
# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: CEDAR CANYON 29 FED COM 26H 30-015-44523

WELL LOCATION: <u>1610 FSL</u>	<u>420 FWL</u>	<u>L</u>	<u>29</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION		UNIT LETTER	SECTION	TOWNSHIP	RANGE

### WELLBORE SCHEMATIC



### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 14.75 Casing Size: 10.75

Cemented with: 680 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1653 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

#### Production Casing

Hole Size: 6.75 Casing Size: 5.5 X 4.5

Cemented with: 678 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7809 Method Determined: CBL

Total Depth: 13339' MD, 8630' TVD

#### Injection Interval

8663' MD / 8401' TVD feet to 13231' MD / 8625' TVD

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: ACP Packer 5.5"Packer Setting Depth: 8389' MD / 8219' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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 CROSS; BONE SPRING,

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

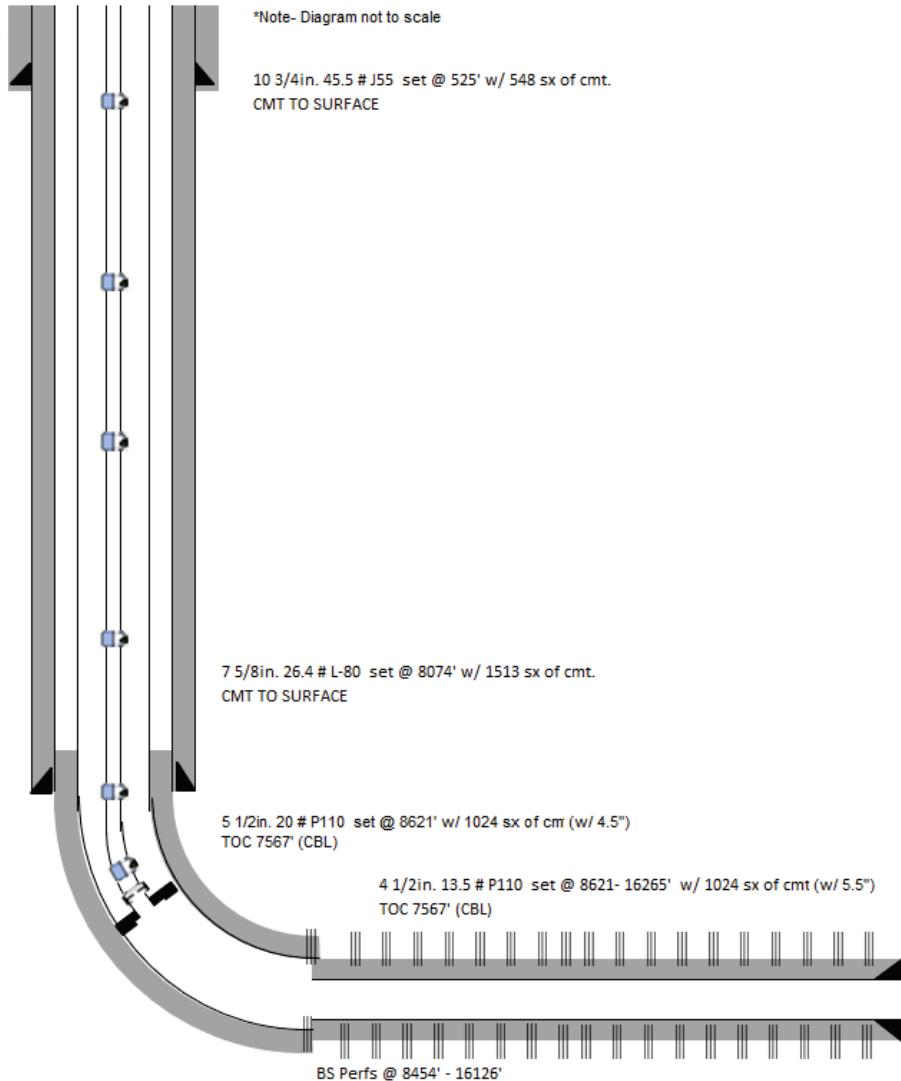
AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
14	30015445230000	CEDAR CANYON 29 FED COM 26H	7621	7482	8447	8262	8920

Side 1

## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)WELL NAME & NUMBER: SALT RIDGE CC 20-17 FEDERAL COM 021H 30-015-44945

WELL LOCATION:	2359 FNL	1302 FWL	E	17	24S	29E
	FOOTAGE LOCATION		UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 14.75 Casing Size: 10.75Cemented with: 548 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf. Method Determined: Verified @ Surf.Intermediate CasingHole Size: 9.875 Casing Size: 7.625Cemented with: 1513 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf. Method Determined: Verified @ Surf.Production CasingHole Size: 6.75 Casing Size: 5.5 X 4.5Cemented with: 1024 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: 7567' Method Determined: CBLTotal Depth: 16219' MD, 8534' TVDInjection Interval8454' MD / 8312' TVD feet to 16126' MD / 8535' TVD

(Perforated or Open Hole; indicate which)

056

**INJECTION WELL DATA SHEET**

Tubing Size: 2.875 Lining Material: NONE

Type of Packer: AS1X

Packer Setting Depth: 8266' MD / 8163' TVD

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

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Production

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

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

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
15	30015449450000	SALT RIDGE CC 20-17 FEDERAL COM 021H	7583	7504	8382	8259	8917



Side 1

## INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)WELL NAME & NUMBER: LENGTH CC 6 7 FEDERAL COM 23H 30-015-45551

WELL LOCATION: <u>230 FNL 2320 FWL</u>	<u>C</u>	<u>06</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 400' w/ 460 sx of cmt.  
CMT TO SURFACE

7 5/8in. 26.4 # L-80 set @ 7723' w/ 1867 sx of cmt.  
CMT TO SURFACE

5 1/2in. 20 # P110 set @ 0- 18625' w/ 822 sx of cmt.  
TOC 7078' (CBL)

2BS Perfs @ 8421' - 18547'

WELL CONSTRUCTION DATASurface CasingHole Size: 14.75 Casing Size: 10.75Cemented with: 460 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf. Method Determined: Verified @ Surf.Intermediate CasingHole Size: 9.875 Casing Size: 7.625Cemented with: 1867 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: Surf. Method Determined: Verified @ Surf.Production CasingHole Size: 6.75 Casing Size: 5.5Cemented with: 822 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: 7078 Method Determined: CBLTotal Depth: 18566' MD, 8301' TVDInjection Interval8421' MD / 8249' TVD feet to 18547' MD / 8302' TVD

(Perforated or Open Hole; indicate which)

058

**INJECTION WELL DATA SHEET**Tubing Size: 2.875 Lining Material: NONEType of Packer: Altec AS1X PackerPacker Setting Depth: 7869' MD / 7845' TVD, will deepen to 7996' TVDOther Type of Tubing/Casing Seal (if applicable): N/A**Additional Data**

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Production  
\_\_\_\_\_

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

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

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
16	30015455510000	LENGTH CC 6 7 FEDERAL COM 23H	7503	7488	8336	8209	8859

**INJECTION WELL DATA SHEET**

Side 1

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: TAILS CC 10 3 FEDERAL COM 22H 30-015-47957

WELL LOCATION: 220 FSL 1450 FWL      N      10      24S      29E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

**PROPOSED WBD (CURRENTLY ANNULAR GL, WILL CONVERT TO CONVENTIONAL GL)**

Surface Casing

\*Note- Diagram not to scale

10 3/4in. 45.5 # J55 set @ 560' w/ 605 sx of cmt.  
CMT TO SURFACE

Hole Size: 14.75      Casing Size: 10.75

Cemented with: 605 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf.      Method Determined: Verified @ Surf.

Intermediate Casing

Hole Size: 9.875      Casing Size: 7.625

Cemented with: 1667 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf.      Method Determined: Verified @ Surf.

Production Casing

Hole Size: 6.75      Casing Size: 5.5 X 4.5

Cemented with: 1356 sx.      *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7854      Method Determined: CBL

Total Depth: 18666' MD, 8762' TVD

Injection Interval

8883' MD / 8679' TVD feet to 18462' MD / 8752' TVD

(Perforated or Open Hole; indicate which)

060

7 5/8in. 26.4 # L-80 set @ 7854' w/ 1667 sx of cmt.  
CMT TO SURFACE

5 1/2in. 20 # P110 set @ 8849' w/ 1356 sx of cmt. (w/ 4.5")  
TOC 5620' (CBL)

4 1/2in. 13.5 # P110 set @ 8849- 18670' w/ 1356 sx of cmt. (w/ 5.5")  
TOC 8849' (CBL)

BS Perfs @ 8883' - 18462'

Released to Imaging: 11/6/2024 9:28:08 AM

Received by OCD: 11/5/2024 5:27:50 PM

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**INJECTION WELL DATA SHEET**Tubing Size: 2-3/8 Lining Material: NONEType of Packer: AS1XPacker Setting Depth: 8300' MD / 8259' TVDOther Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- 
- 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):
- [96473] PIERCE CROSSING; BONE SPRING, EAST ; [11520] CEDAR CANYON;BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
17	30015479570000	TAILS CC 10 3 FEDERAL COM 22H	7733	7707	8603	8522	9183



# INJECTION WELL DATA SHEET

OPERATOR: OXY USA INC. (16696)

WELL NAME & NUMBER: VAGABOND CC 8 17 FEDERAL COM 23H 30-015-47975

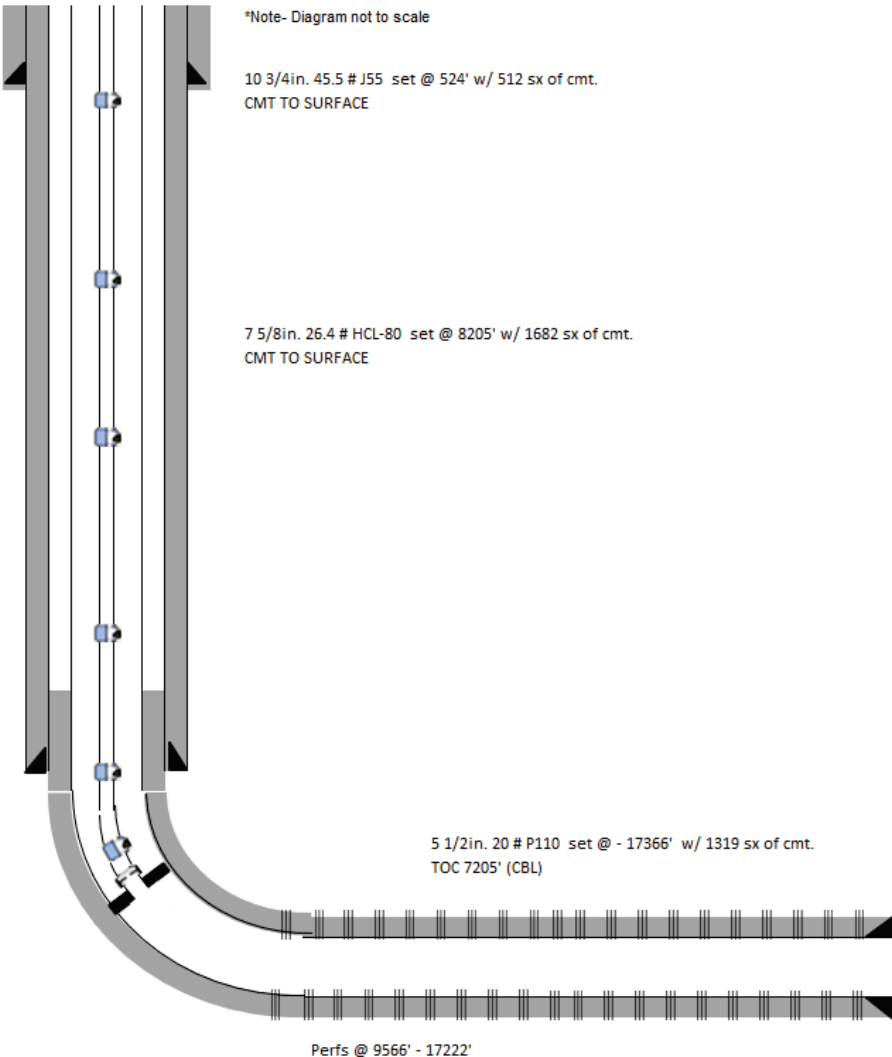
WELL LOCATION: <u>546 FSL 1740 FWL</u>	<u>N</u>	<u>17</u>	<u>24S</u>	<u>29E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

PROPOSED WBD: Currently ANNULAR GAS LIFT, Will plan lift revision to CONVENTIONAL GAS LIFT.



Hole Size: 14.75 Casing Size: 10.75

Cemented with: 512 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Intermediate Casing

Hole Size: 9.875 Casing Size: 7.625

Cemented with: 1682 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surf. Method Determined: Verified @ Surf.

Production Casing

Hole Size: 6.75 Casing Size: 5.5

Cemented with: 674 sx. *or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 7205' Method Determined: CBL

Total Depth: 17352' MD, 8544' TVD

Injection Interval

9566' MD / 8599' TVD feet to 17222' MD / 8545' TVD

(Perforated or Open Hole; indicate which)

Side 2

**INJECTION WELL DATA SHEET**

Tubing Size: 2.375 Lining Material: N/A

Type of Packer: AS1X

Packer Setting Depth: 8865' MD / 8535' TVD

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

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Production

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

3. Name of Field or Pool (if applicable): [96473] PIERCE CROSSING; BONE SPRING, EAST ; [11520] CEDAR CANYON; BONE SPRING ; [50371] PIERCE CROSSING; BONE SPRING

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

AOR ID	API 14	Name	Top of Overlying Producing Zone, 1BSS (MD)	Top of Overlying Producing Zone (TVD)	Top of Injection Zone, 2BSS (MD)	Top of Injection Zone (TVD)	Top of Underlying Producing Zone, Harkey Sand (TVD)
18	30015479750000	VAGABOND CC 8 17 FEDERAL COM 23H	7662	7536	8555	8352	8925

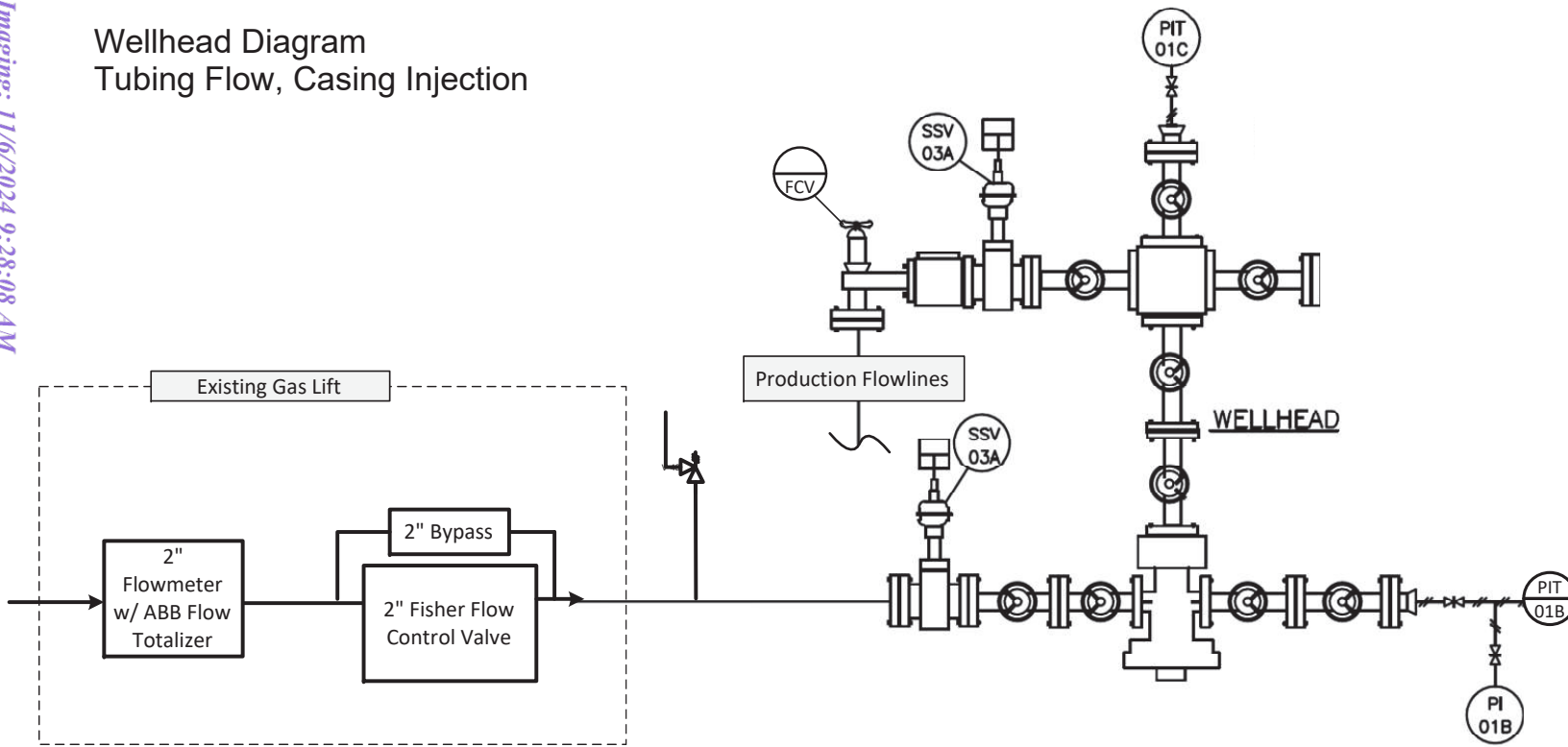
## Max Allowable Surface Pressure (MASP) Table

AOR ID	API 14	Well Name	Proposed Max Allowable Surface Pressure (MASP) (PSI)	Current Average Surface Injection Pressure (PSI)	Max Achievable Surface Pressure, Current Infrastructure	Proposed Average Injection Rate (MMSCFPD)	Proposed Max Injection Rate (MMSCFPD)	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	Top Perforation Depth (FT TVD)	MASP Gradient (PSI/FT)
1	30015399680000	MORGAN FEE COM 001H	1335	558	1335	3	5	9150	0.468	7740	73%	9150	0.15
2	30015411940000	CEDAR CANYON 23 002H	1335	492	1335	3	5	9195	0.468	7740	73%	9195	0.15
3	30015429930000	CEDAR CANYON 29 FEDERAL 003H	1335	557	1335	3	5	8582	0.468	12410	43%	8582	0.16
4	30015432320000	CEDAR CANYON 27 FEDERAL 006H	1335	741	1335	3	5	9257	0.468	12410	46%	9257	0.14
5	30015432340000	CEDAR CANYON 28 FEDERAL 006H	1335	652	1335	3	5	8898	0.468	12410	44%	8898	0.15
6	30015432380000	CEDAR CANYON 28 FEDERAL 007H	1335	651	1335	3	5	9001	0.468	12410	45%	9001	0.15
7	30015432820000	CEDAR CANYON 23 FEDERAL 005H	1335	552	1335	3	5	9166	0.468	12410	45%	9166	0.15
8	30015437080000	CEDAR CANYON 22 FEDERAL COM 004H	1335	567	1335	3	5	8827	0.468	12410	44%	8827	0.15
9	30015437490000	CEDAR CANYON 21 FEDERAL 005H	1335	594	1335	3	5	8916	0.468	12410	44%	8916	0.15
10	30015437750000	CEDAR CANYON 27 FEDERAL 005H	1335	625	1335	3	5	9079	0.468	12410	45%	9079	0.15
11	30015441810000	CEDAR CANYON 21 FEDERAL 021H	1335	594	1335	3	5	8751	0.468	12410	44%	8751	0.15
12	30015441900000	CEDAR CANYON 21 FEDERAL 022H	1335	567	1335	3	5	8602	0.468	12410	43%	8602	0.16
13	30015445220000	CEDAR CANYON 29 FED COM 25H	1335	503	1335	3	5	8575	0.468	12410	43%	8575	0.16
14	30015445230000	CEDAR CANYON 29 FED COM 26H	1335	504	1335	3	5	8633	0.468	12410	43%	8633	0.15
15	30015449450000	SALT RIDGE CC 20-17 FEDERAL COM 021H	1335	715	1335	3	5	8454	0.468	12410	43%	8454	0.16
16	30015455510000	LENGTH CC 6 7 FEDERAL COM 23H	1335	822	1335	3	5	8421	0.468	12640	42%	8421	0.16
17	30015479570000	TAILS CC 10 3 FEDERAL COM 22H	1335	678	1335	3	5	8882	0.468	12410	44%	8882	0.15
18	30015479750000	VAGABOND CC 8 17 FEDERAL COM 23H	1335	837	1335	3	5	9566	0.468	12640	46%	9566	0.14

AOR ID	API 14	Well Name	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 (%)
1	30015399680000	MORGAN FEE COM 001H	9150	0.20	0.650	53%
2	30015411940000	CEDAR CANYON 23 002H	9195	0.20	0.650	53%
3	30015429930000	CEDAR CANYON 29 FEDERAL 003H	8582	0.20	0.650	55%
4	30015432320000	CEDAR CANYON 27 FEDERAL 006H	9257	0.20	0.650	53%
5	30015432340000	CEDAR CANYON 28 FEDERAL 006H	8898	0.20	0.650	54%
6	30015432380000	CEDAR CANYON 28 FEDERAL 007H	9001	0.20	0.650	54%
7	30015432820000	CEDAR CANYON 23 FEDERAL 005H	9166	0.20	0.650	53%
8	30015437080000	CEDAR CANYON 22 FEDERAL COM 004H	8827	0.20	0.650	54%
9	30015437490000	CEDAR CANYON 21 FEDERAL 005H	8916	0.20	0.650	54%
10	30015437750000	CEDAR CANYON 27 FEDERAL 005H	9079	0.20	0.650	53%
11	30015441810000	CEDAR CANYON 21 FEDERAL 021H	8751	0.20	0.650	54%
12	30015441900000	CEDAR CANYON 21 FEDERAL 022H	8602	0.20	0.650	55%
13	30015445220000	CEDAR CANYON 29 FED COM 25H	8575	0.20	0.650	55%
14	30015445230000	CEDAR CANYON 29 FED COM 26H	8633	0.20	0.650	55%
15	30015449450000	SALT RIDGE CC 20-17 FEDERAL COM 021H	8454	0.20	0.650	55%
16	30015455510000	LENGTH CC 6 7 FEDERAL COM 23H	8421	0.20	0.650	55%
17	30015479570000	TAILS CC 10 3 FEDERAL COM 22H	8882	0.20	0.650	54%
18	30015479750000	VAGABOND CC 8 17 FEDERAL COM 23H	9566	0.20	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

API14	Well Name	MIT #1		MIT #2	
		Date	Surface Pressure [psi]	Date	Surface Pressure [psi]
30015399680000	MORGAN FEE COM 001H	6/26/2012	6500	10/17/2024	1600
30015411940000	CEDAR CANYON 23 002H	9/24/2014	6200	10/16/2024	1750
30015429930000	CEDAR CANYON 29 FEDERAL 003H	3/5/2017	9500		
30015432320000	CEDAR CANYON 27 FEDERAL 006H	12/1/2015	8900	10/11/2024	1650
30015432340000	CEDAR CANYON 28 FEDERAL 006H	11/26/2015	8900	10/9/2024	1550
30015432380000	CEDAR CANYON 28 FEDERAL 007H	11/25/2015	9200	10/28/2024	1575
30015432820000	CEDAR CANYON 23 FEDERAL 005H	10/6/2016	9500	10/10/2024	1540
30015437080000	CEDAR CANYON 22 FEDERAL COM 004H	12/28/2016	9500	10/15/2024	1475
30015437490000	CEDAR CANYON 21 FEDERAL 005H	10/29/2016	9502	10/28/2024	1500
30015437750000	CEDAR CANYON 27 FEDERAL 005H	7/16/2016	9500	10/11/2024	1700
30015441810000	CEDAR CANYON 21 FEDERAL 021H	9/7/2017	9800		
30015441900000	CEDAR CANYON 21 FEDERAL 022H	10/25/2017	9800	10/22/2024	1575
30015445220000	CEDAR CANYON 29 FED COM 25H	1/18/2018	9800	10/23/2024	1620
30015445230000	CEDAR CANYON 29 FED COM 26H	1/18/2018	9800		
30015449450000	SALT RIDGE CC 20-17 FEDERAL COM 021H	8/5/2018	9800	10/24/2024	1500
30015455510000	LENGTH CC 6 7 FEDERAL COM 23H	6/25/2019	9800	10/22/2024	1500
30015479570000	TAILS CC 10 3 FEDERAL COM 22H	4/20/2021	6000		
30015479750000	VAGABOND CC 8 17 FEDERAL COM 23H	9/11/2021	6000		

# 2024 Cedar Canyon Gas Storage Gas Source Well List by CTB

Gas Storage Candidate
AOR ID Number

Note- Only CTBs of Gas Storage Candidates are only shown on the Facilities Map and Process Flow Diagram.

DIMENSIONS 6 CTB TRAIN 002	PC 1359	
WELL	API	
DEPTH CC 6 7 FEDERAL COM 41H	30-015-46777	
DEPTH CC 6 7 FEDERAL COM 42H	30-015-46780	
RADIUS CC 6 7 FEDERAL COM 51H	30-015-46825	
RADIUS CC 6 7 FEDERAL COM 52H	30-015-46826	
WIDTH CC 6 7 FEDERAL COM 017H	30-015-45629	
WIDTH CC 6 7 FEDERAL COM 016H	30-015-45575	
HEIGHT CC 6 7 FEDERAL COM 031Y	30-015-45770	
HEIGHT CC 6 7 FEDERAL COM 032H	30-015-45554	
HEIGHT CC 6 7 FEDERAL COM 033H	30-015-45561	
HEIGHT CC 6 7 FEDERAL COM 311H	30-015-45630	
LENGTH CC 6 7 FEDERAL COM 021H	30-015-45553	
LENGTH CC 6 7 FEDERAL COM 022H	30-015-45565	
LENGTH CC 6 7 FEDERAL COM 023H	30-015-45551	16

DIMENSIONS 6 CTB TRAIN 001	PC 1359	
WELL	API	
DEPTH CC 6 7 FEDERAL COM 43H	30-015-46781	
DEPTH CC 6 7 FEDERAL COM 44H	30-015-46779	
WIDTH CC 6 7 FEDERAL COM 015H	30-015-45576	
WIDTH CC 6 7 FEDERAL COM 014H	30-015-45573	
HEIGHT CC 6 7 FEDERAL COM 034H	30-015-45562	
HEIGHT CC 6 7 FEDERAL COM 035H	30-015-45563	
HEIGHT CC 6 7 FEDERAL COM 036H	30-015-45564	
HEIGHT CC 6 7 FEDERAL COM 312H	30-015-45572	
LENGTH CC 6 7 FEDERAL COM 024H	30-015-45552	
LENGTH CC 6 7 FEDERAL COM 025H	30-015-45566	
LENGTH CC 6 7 FEDERAL COM 026H	30-015-45567	

SALT RIDGE 20 CTB	PLC 716	
WELL	API	
SALT RIDGE CC 20 17 FEDERAL COM 021H	30-015-44945	15
SALT RIDGE CC 20 17 FEDERAL COM 023H	30-015-44947	
MORNING FEDERAL 001H	30-015-37644	

WHOMPING WILLOW CTB TRAIN #1	PLC 580B
WELL	API
H BUCK STATE 005	30-015-35042
H BUCK STATE 010	30-015-34695
HARROUN 15 002	30-015-29763
CEDAR CANYON 15 001H	30-015-39857
HARROUN 15 008	30-015-30253
HARROUN 10 001	30-015-30375
HARROUN 10 002	30-015-31709
HARROUN 10 003	30-015-32617
HARROUN 10 004	30-015-32618
HARROUN 15 008	30-015-30253
HARROUN 15 014	30-015-32620
HARROUN 15 015	30-015-33317
HARROUN 15 016A	30-015-33823
HARROUN 15 017	30-015-33822
HARROUN 22 003	30-015-33821
HARROUN 9 001	30-015-34997
HARROUN 9 003H	30-015-41488
CEDAR CANYON 15 002H	30-015-41032
CEDAR CANYON 15 003H	30-015-41594
CEDAR CANYON 15 004H	30-015-41291
CEDAR CANYON 22 002H	30-015-41327
REFRIED BEANS CC 15 16 STATE COM 012H	30-015-45215
REFRIED BEANS CC 15 16 STATE COM 013H	30-015-45216
REFRIED BEANS CC 15 16 STATE COM 014H	30-015-45217
WHOMPING WILLOW CC 15 16 STATE COM 044H	30-015-45218
H BUCK STATE 003	30-015-33820
H BUCK STATE 004H	30-015-34444
CEDAR CANYON 16 STATE 002H	30-015-41024
CEDAR CANYON 16 STATE 006H	30-015-41595
CEDAR CANYON 17 001H	30-015-42058
CEDAR CANYON 16 STATE 011H	30-015-42062
CEDAR CANYON 16 001H	30-015-39856
CEDAR CANYON 16 STATE 008H	30-015-41596
CEDAR CANYON 16 STATE 009H	30-015-42061
CEDAR CANYON 16 STATE 010H	30-015-42055
CEDAR CANYON 16 STATE 033H	30-015-43844
CEDAR CANYON 16 STATE 034H	30-015-43843

WHOMPING WILLOW CTB TRAIN 002	PLC 751A
WELL	API
TAILS CC 10 3 FEDERAL COM 022H	30-015-47957
TAILS CC 10 3 FEDERAL COM 026H	30-015-47959
TAILS CC 10 3 FEDERAL COM 025H	30-015-47960



TAILS CC 10 3 FEDERAL COM 021H	30-015-47958
TAILS CC 10 3 FEDERAL COM 024H	30-015-47961
TAILS CC 10-3 FEDERAL COM #31H	30-015-48881
TAILS CC 10-3 FEDERAL COM #32H	30-015-48880
TAILS CC 10-3 FEDERAL COM #33H	30-015-48879
TAILS CC 10-3 FEDERAL COM #34H	30-015-48959
TAILS CC 10-3 FEDERAL COM #35H	30-015-48965
TAILS CC 10-3 FEDERAL COM #36H	30-015-48964
TAILS CC 10-3 FEDERAL COM #38H	30-015-48877
TAILS CC 10-3 FEDERAL COM #312H	30-015-48930

WHOMPING WILLOW CTB TRAIN 003	OLM 259
WELL	API
HEADS CC 9 4 FEDERAL COM 37H	30-015-47194
HEADS CC 9 4 FEDERAL COM 44H	30-015-47589
HEADS CC 9 4 FEDERAL COM 311H	30-015-47339
HEADS CC 9 4 FEDERAL COM 31H	30-015-47189
HEADS CC 9 4 FEDERAL COM 32H	30-015-47229
HEADS CC 9 4 FEDERAL COM 33H	30-015-47193
HEADS CC 9 4 FEDERAL COM 312H	30-015-47340
HEADS CC 9 4 FEDERAL COM 36H	30-015-49683
HEADS CC 9 4 FEDERAL COM 38H	30-015-47587
HEADS CC 9 4 FEDERAL COM 34H	30-015-47588
HEADS CC 9 4 FEDERAL COM 35H	30-015-47591
HEADS CC 9 4 FEDERAL COM 41H	30-015-47592
HEADS CC 9 4 FEDERAL COM 42H	30-015-47195
HEADS CC 9 4 FEDERAL COM 43H	30-015-47181
HEADS CC 9 4 FEDERAL COM 51H	30-015-47593
HEADS CC 9 4 FEDERAL COM 52H	30-015-47590

WHOMPING WILLOW CTB TRAIN 003	PLC PENDING APPROVAL
WELL	API
HEADS CC 9 4 FEDERAL COM 21H	30-015-47188
HEADS CC 9 4 FEDERAL COM 22H	30-015-47335
HEADS CC 9 4 FEDERAL COM 24H	30-015-47337
HEADS CC 9 4 FEDERAL COM 25H	30-015-47338
HEADS CC 9 4 FEDERAL COM 71H	30-015-TBD
HEADS CC 9 4 FEDERAL COM 72H	30-015-TBD
HEADS CC 9 4 FEDERAL COM 73H	30-015-TBD
HEADS CC 9 4 FEDERAL COM 74H	30-015-TBD

SALT FLAT 20 CTB TRAIN 001	PLC658A
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WELL	API
SALT FLAT CC 20 29 FEDERAL COM 031H	30-015-45080
SALT FLAT CC 20 29 FEDERAL COM 032H	30-015-45081
SALT FLAT CC 20 29 FEDERAL COM 033H	30-015-45082
SALT FLAT CC 20 29 FEDERAL COM 037H	30-015-46369
SALT FLAT CC 20 29 FEDERAL COM 001H	30-015-47559
SALT FLAT CC 20 29 FEDERAL COM 011H	30-015-49809*

SALT FLAT 20 CTB TRAIN 002	PLC 659A
WELL	API
SALT FLAT CC 20 29 FEDERAL COM 034H	30-015-45048
SALT FLAT CC 20 29 FEDERAL COM 035H	30-015-45049
SALT FLAT CC 20 29 FEDERAL COM 036H	30-015-45050
SALT FLAT CC 20 29 FEDERAL COM 038H	30-015-46399
SALT FLAT CC 20 29 FEDERAL COM 013H	30-015-47601
SALT FLAT CC 20 29 FEDERAL COM 014H	30-015-47600

SALT FLAT 20 CTB TRAIN 003	PLC 660B
WELL	API
OXBOW CC 17 8 FEDERAL COM 031H	30-015-45083
OXBOW CC 17 8 FEDERAL COM 032H	30-015-45084
OXBOW CC 17 8 FEDERAL COM 033H	30-015-45085
OXBOW CC 17 8 FEDERAL COM 037H	30-015-46400
VAGABOND CC 8 17 FEDERAL COM 022H	30-015-47978
VAGABOND CC 8 17 FEDERAL COM 023H	30-015-47975
OXBOW CC 17 8 FEDERAL COM 002H	30-015-48281
OXBOW CC 17 8 FEDERAL COM 015H	30-015-48277

18

SALT FLAT 20 CTB TRAIN 004	PLC 661B
WELL	API
OXBOW CC 17 8 FEDERAL COM 034H	30-015-45086
OXBOW CC 17 8 FEDERAL COM 038H	30-015-46401
OXBOW CC 17 8 FEDERAL COM 036H	30-015-45088

OXBOW CC 17 8 FEDERAL COM 035H	30-015-45087
VAGABOND CC 8 17 FEDERAL COM 024H	30-015-47972
VAGABOND CC 8 17 FEDERAL COM 025H	30-015-47974

<b>CEDAR CANYON 22 SAT TRAIN 001</b>	<b>PLC 483B</b>	
<b>WELL</b>	<b>API</b>	
CEDAR CANYON 22 001H	30-015-40668	
CEDAR CANYON 21 FEDERAL COM 022H	30-015-44190	12
CEDAR CANYON 21 FEDERAL COM 023H	30-015-44191	
CEDAR CANYON 21 FEDERAL COM 021H	30-015-44181	11
CEDAR CANYON 21 FEDERAL COM 031H	30-015-44182	
CEDAR CANYON 22 FEDERAL COM 005H	30-015-43758	
CEDAR CANYON 21 22 FEDERAL COM 032H	30-015-44176	
YVONNE 21 FEDERAL 001	30-015-28850	

<b>CEDAR CANYON 22 SAT TRAIN 002</b>	<b>PLC 489</b>
<b>WELL</b>	<b>API</b>
CEDAR CANYON 21 22 FEDERAL COM 034H	30-015-44134

<b>CEDAR CANYON 22 SAT TRAIN 003</b>	<b>PLC 489</b>
<b>WELL</b>	<b>API</b>
CEDAR CANYON 22 15 FEDERAL COM 034H	30-015-44055

<b>CEDAR CANYON 22 SAT TRAIN 004</b>	<b>PLC 691</b>
<b>WELL</b>	<b>API</b>
GAINES 22 FEDERAL 001	30-015-35186
CEDAR CANYON 22 FEDERAL COM 006Y	30-015-43906

<b>CEDAR CANYON 22 SAT TRAIN 005</b>	<b>OLM 111</b>	
<b>WELL</b>	<b>API</b>	
CEDAR CANYON 21 FEDERAL COM 005H	30-015-43749	9

<b>CEDAR CANYON 22 SAT TRAIN 006</b>	<b>PLC 489</b>	
<b>WELL</b>	<b>API</b>	
CEDAR CANYON 27 FEDERAL COM 005H	30-015-43775	10
CEDAR CANYON 21 22 FEDERAL COM 033H	30-015-44133	
CEDAR CANYON 23 002H	30-015-41194	2

<b>CEDAR CANYON 22 SAT TRAIN 007</b>	<b>OLM 206</b>
<b>WELL</b>	<b>API</b>
CEDAR CANYON 23 24 FEDERAL COM 034H	30-015-44178

<b>CEDAR CANYON 22 SAT TRAIN 008</b>	<b>PLC 685</b>	
<b>WELL</b>	<b>API</b>	
COYOTE 21 002	30-015-29864	
GAINES 21 001	30-015-28638	
GAINES 21 004	30-015-28816	
CEDAR CANYON 22 15 FEE 031H	30-015-43809	
CEDAR CANYON 22 15 FEE 032H	30-015-43808	
VORTEC 27 001	30-015-35041	
CEDAR CANYON 27 STATE COM 004H	30-015-42063	
CEDAR CANYON 22 15 FEE 033H	30-015-43915	
CEDAR CANYON 27 STATE COM 010H	30-015-43673	
<b>MORGAN FEE COM 001H</b>	<b>30-015-39968</b>	<b>1</b>

<b>CEDAR CANYON 23 3H SATELLITE TRAIN 001</b>	<b>PLC 483B</b>	
<b>WELL</b>	<b>API</b>	
CEDAR CANYON 22 FEDERAL 021H	30-015-43642	
CEDAR CANYON 23 24 FEDERAL 031H	30-015-44179	
CEDAR CANYON 23 24 FEDERAL 032H	30-015-44180	
<b>CEDAR CANYON 22 FEDERAL COM 004H</b>	<b>30-015-43708</b>	<b>8</b>
CEDAR CANYON 23 FEDERAL 003H	30-015-43290	
CEDAR CANYON 23 FEDERAL 004H	30-015-43281	
<b>CEDAR CANYON 23 FEDERAL 005H</b>	<b>30-015-43282</b>	<b>7</b>
CEDAR CANYON 23 FEDERAL COM 006H	30-015-44095	
GUACAMOLE CC 24 23 FEDERAL 011H	30-015-45870	
GUACAMOLE CC 24 23 FEDERAL 012H	30-015-45871	
CEDAR CANYON 23 001H	30-015-40667	

<b>CEDAR CANYON 23-3H SATELLITE TRAIN #2</b>	<b>OLM 258</b>
<b>WELL</b>	<b>API</b>
CEDAR CANYON 23 FEDERAL COM 33H CA NMNM137569	30-015-44074

<b>CEDAR CANYON 28 4 TRAIN 001</b>	<b>OLM 149</b>
<b>WELL</b>	<b>API</b>
CEDAR CANYON 20 FEDERAL COM 024H	30-015-44545
CEDAR CANYON 20 FEDERAL COM 025H	30-015-44519
CEDAR CANYON 20 FEDERAL COM 026H	30-015-44520

<b>CEDAR CANYON 28 4 TRAIN 002</b>	<b>OLM 238</b>
<b>WELL</b>	<b>API</b>

CEDAR CANYON 28 FEDERAL COM 008H	30-015-43819
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CEDAR CANYON 28 4 TRAIN 003	SINGLE WELL FACILITY
WELL	API
CEDAR CANYON 28 27 FEDERAL COM 005H	30-015-43645

CEDAR CANYON 28 4 TRAIN 004	OLM 236
WELL	API
CEDAR CANYON 27 28 FEDERAL 042H	30-015-44435

CEDAR CANYON 28 4 TRAIN 005	OLM 237
WELL	API
CEDAR CANYON 28 FEDERAL COM 041H	30-015-44439

CEDAR CANYON 28 4 3/4 CTB	PLC 490	
WELL	API	
CEDAR CANYON 27 FEDERAL 006H	30-015-43232	4
CEDAR CANYON 27 FEDERAL 007H	30-015-43233	
CEDAR CANYON 28 FEDERAL 006H	30-015-43234	5
CEDAR CANYON 28 FEDERAL 007H	30-015-43238	6
CEDAR CANYON 28 FEDERAL 009H	30-015-44016	
CEDAR CANYON 29 FEDERAL 021H	30-015-43601	
CEDAR CANYON 29 FEDERAL COM 002H	30-015-42992	
CEDAR CANYON 29 FEDERAL COM 003H	30-015-42993	3
CEDAR CANYON 27 28 FEDERAL 043H	30-015-44437	
CEDAR CANYON 27 28 FEDERAL 044H	30-015-44438	
CEDAR CANYON 29 FEDERAL COM 024H	30-015-44521	
CEDAR CANYON 29 FEDERAL COM 025H	30-015-44522	13
CEDAR CANYON 29 FEDERAL 026H	30-015-44523	14

CEDAR CANYON 15 5 BATTERY	SINGLE WELL BATTERY
WELL	API
CEDAR CANYON 15 FEDERAL COM 005H	30-015-42421

VORTEC 27 2 BATTERY	OLM 248
WELL	API
VORTEC 27 002	30-015-35492



## Cedar Canyon Gas Analysis Summary

- There are 3 gas takeaways in Cedar Canyon- San Mateo, Enterprise, and ETC.
- Central Tank Batteries (CTBs)
  - See Gas Source Well List for list of wells and respective CTBs.
  - All low-pressure gas lines are combined downstream of the CTBs to create an integrated system.
- Centralized Gas Lift Compressors (CGLs)
  - All low-pressure gas lines connect to all CGLs.
  - CGLs increase pressure from ~70 psig to ~1250 psig.
  - All high-pressure gas lines are combined downstream of the CGLs to create an integrated system.
- Gas analysis is provided for:
  - Injection gas
  - Second Bone Spring production (target storage zone)



### C9+ Analysis

GPA 2172-19/API 14.5 Report with GPA 2145-16 Physical Properties

### Sample Information

	Sample Information
Sample Name	Cedar Canyon 21 Federal Com 5H
Operator	OXY
Lease	Cedar Canyon 21 Federal Com 5H
State	NM
Region	PERMIAN RESOURCES
Asset	NM
Area	WEST
Station Meter #	Cedar Canyon 21 Federal Com 5H
Functional Location	OP-L0932-WELLS-WPI-000005
Sample Type	Well
Sample Sub Type	Production
Sample Description	SAMPLE PROBE ON METER RUN
Sample Date/Time	9-16-24 11:40 AM
Sample End Date	
Sample Pressure	93 PSIG
Sample Temperature	93 F
Ambient Temperature	82 F
Company Collecting Sample	OXY
Sampled By	CM
Cylinder #	1981
Type of Sample	spot-cylinder
Laboratory	Laboratory Services and Measurement
Technician	LC
Analyzer Type	Gas Chromatograph - TCD
Analyzer Make & Model	Agilent Micro GC 3000
Last Calibration/Validation Date	9-30-2024
Sample Flow Rate	161 MCF
Heat Tracing	No
Sample Type	Spot
Sampling Method	Fill and Purge
Mole, Weight, or Percent	M
Sample Calculation Method	GPA 2172/API 14.5 Report with GPA 2145 Physical Properties
Report Date	2024-10-07 09:48:44

### Component Results

Component Name	Un-Normalized Mole%	Norm Mole%
Nitrogen	1.8820	1.8904
Carbon Dioxide	1.8570	1.8653
Methane	74.2220	74.5547
Ethane	12.1020	12.1562
Propane	5.6080	5.6331
isobutane	0.7000	0.7031
n-Butane	1.6710	1.6785

Component Name	Un-Normalized Mole%	Norm Mole%	
isopentane	0.3400	0.3415	
n-Pentane	0.3810	0.3827	
hexanes	0.4530	0.4550	
heptanes	0.2350	0.2361	
octanes	0.0710	0.0713	
nonanes+	0.0320	0.0321	
hydrogen sulfide	0.0000	0.0000	
Total:	99.5540	100.0000	

**Results Summary**

Result	Dry	Wet/Sat	
Total Un-Normalized Mole%	99.5540		
Pressure Base (psia)	14.650		
Temperature Base (Deg. F)	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1253.9	1231.9	
Gross Heating Value (BTU / Real cu.ft.)	1258.7	1237.2	
Relative Density (G), Ideal	0.7633	0.7609	
Relative Density (G), Real	0.7659	0.7638	
Compressibility (Z) Factor	0.9962	0.9958	
Total GPM	19.306	19.076	



**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

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.7294	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 3<sup>rd</sup> 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 ACQUISITION (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.