

Revised March 23, 2017

RECEIVED: 11/19/2018	REVIEWER: MAM	TYPE: PL	APP NO: DMA18323 42002
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: SANDRA MUSALLAM

OGRID Number: 16696

Well Name: CEDAR CANYON 23-3H &amp; MULTIPLE

API: 30-015-43290 &amp; MULTIPLE

Pool: PIERCE CROSSING; BONE SPRING E &amp; MULTIPLE

Pool Code: 96473 &amp; MULTIPLE

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

**1) TYPE OF APPLICATION:** Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☒ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR

**2) NOTIFICATION REQUIRED TO:** Check those which apply.

A. ☐ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☒ No notice required

Only change is that batteries are now metered separately. No new wells have been added.

**FOR OCD ONLY**

☐ Notice Complete
☐ Application  
 Content  
 Complete

**3) CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

SANDRA MUSALLAM

Print or Type Name

*Sandra Musallam*  
 Signature

Date

713-366-5106

Phone Number

SANDRA\_MUSALLAM@OXY.COM

e-mail Address

District I  
1625 N. French Drive, Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St Francis Dr, Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-B  
Revised August 1, 2011

**OIL CONSERVATION DIVISION**  
1220 S. St Francis Drive  
Santa Fe, New Mexico 87505

Submit the original  
application to the Santa Fe  
office with one copy to the  
appropriate District Office.

**APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)**

OPERATOR NAME: OXY USA INC

OPERATOR ADDRESS: PO BOX 4294 HOUSTON, TX 77210

APPLICATION TYPE:

☐ Pool Commingling ☐ Lease Commingling ☒ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE: ☐ Fee ☐ State ☒ Federal

Is this an Amendment to existing Order? ☒ Yes ☐ No If "Yes", please include the appropriate Order No. PLC-483  
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling  
☒ Yes ☐ No

**(A) POOL COMMINGLING**  
Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes
SEE ATTACHED LIST					

(2) Are any wells producing at top allowables? ☐ Yes ☒ No  
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☐ Yes ☒ No  
(4) Measurement type: ☐ Metering ☒ Other (Specify) WELL TEST  
(5) Will commingling decrease the value of production? ☐ Yes ☒ No If "yes", describe why commingling should be approved

Only change is that batteries are now metered separately. No new wells have been added.

**(B) LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Pool Name and Code.  
(2) Is all production from same source of supply? ☐ Yes ☐ No  
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☐ Yes ☐ No  
(4) Measurement type: ☐ Metering ☐ Other (Specify)

**(C) POOL and LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Complete Sections A and E.

**(D) OFF-LEASE STORAGE and MEASUREMENT**  
Please attach sheets with the following information

(1) Is all production from same source of supply? ☐ Yes ☐ No  
(2) Include proof of notice to all interest owners.

**(E) ADDITIONAL INFORMATION (for all application types)**  
Please attach sheets with the following information

(1) A schematic diagram of facility, including legal location.  
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.  
(3) Lease Names, Lease and Well Numbers, and API Numbers.

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

SIGNATURE: Sandra Musallam TITLE: REGULATORY ENGINEER DATE: 11/19/18  
TYPE OR PRINT NAME SANDRA MUSALLAM TELEPHONE NO.: 713-366-5106  
E-MAIL ADDRESS: SANDRA\_MUSALLAM@OXY.COM

# APPLICATION FOR POOL AND LEASE COMMINGLE, OFF-LEASE MEASUREMENT, SALES AND STORAGE

## Amended commingling proposal for Cedar Canyon 23 Federal 3H Satellite and Cedar Canyon 21 Federal Battery

OXY USA INC requests to amend previously approved NMOCD commingle order PLC-483. Production from Cedar Canyon 23 Federal 3H Satellite (LAT 32.202503, LONG -103.963914, I-22-24S-29E) will no longer flow to Cedar Canyon 21 Federal Battery (LAT 32.198598, LONG -103.984079, P-21-24S-29E) for oil measurement and sales. Oil production from each battery will be measured and sold separately.

Cedar Canyon 23 Fed Com 33H (30-015-44074) has been removed from the commingle permit. It is now in a separate facility train. Also, Cedar Canyon 22 Fed Com 5H is now commingled with Cedar Canyon 23-3H Satellite wells rather than Cedar Canyon 21 Satellite wells.

### CEDAR CANYON 23 FEDERAL 3H SATELLITE

Federal Lease NMNM81586 (12.5% Royalty Rate). POOL: PIERCE CROSSING; BONE SPRING E (96473)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 22 Fed 21H	02/2017	30-015-43642	I-22-24S-29E	143	43.9	827	1301	444
Cedar Canyon 23-24 Fed 31H	09/2017	30-015-44179	A-22-24S-29E	300	45.5	1109	1332	614
Cedar Canyon 23-24 Fed 32H	09/2017	30-015-44180	A-22-24S-29E	305	44.8	945	1301	444
Cedar Canyon 23 Fed 3H	02/2017	30-015-43290	I-22-24S-29E	273	43.5	1587	1301	1378
Cedar Canyon 23 Fed 4H	01/2016	30-015-43281	H-22-24S-29E	134	42.9	486	1270	403
Cedar Canyon 23 Fed 5H	01/2016	30-015-43282	A-22-24S-29E	115	43.0	535	1301	269

Federal CA NMNM136823 Lease (NMNM13996 & NMNM81586) (12.5% Royalty Rate)

POOL: PIERCE CROSSING; BONE SPRING E (96473)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 22 Fed Com 4H	02/2017	30-015-43708	I-22-24S-29E	127	43.9	1055	1263	753

Federal CA NMNM137568 Lease (NMNM81586, NMNM93477 & NMNM88138) (12.5% Royalty Rate)

POOL: PIERCE CROSSING; BONE SPRING E (96473)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 23 Fed Com 6H	08/2017	30-015-44095	I-22-24S-29E	373	43	1632	1270	988

### CEDAR CANYON 22 SATELLITE

Federal CA NMNM136578 Lease (NMNM13996 & NMNM81586) (12.5% Royalty Rate)

POOL: CORRAL DRAW; BONE SPRING (96238)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 22 Fed Com 5H	12/2016	30-015-43758	M-22-24S-29E	282	43.9	973	1263	535

All wells listed above except for Cedar Canyon 22 Fed Com 5H flows to the inlet header at Cedar Canyon 23 Federal 3H Satellite. Production at the battery is separated and measured through a 10' X 40' three-phase separator. Oil production will flow to two storage tanks located at Cedar Canyon 22 Satellite (LAT 32.19969, LONG -103.977588, L-21-24S-29E) then sold through a LACT meter (S/N 14504365), which will serve as the oil FMP.

Gas is sent from the production and test separators to a 54"X 10' gas scrubber then sent through two check meters (S/N 171978784 and 171978779) that serve as gas FMPs for the purpose of royalty payment. Two gas meters are installed to accommodate estimated future volumes. Only one meter will be utilized until capacity is exceeded.

All water from the Cedar Canyon 23 Federal 3H Satellite is sent to the Cedar Canyon 22 Battery before being sent to the Cedar Canyon water disposal distribution system.

Cedar Canyon 22 Fed Com 5H has an individual test separator located on Cedar Canyon 22 Satellite. The tester is equipped with an oil turbine meter (S/N 390327), gas orifice meter (S/N T153234663) and water turbine meter. Oil production ties into Cedar Canyon 23 Federal 3H Satellite production upstream of the two storage tanks. Gas flows through the tester orifice meter, which serves as the gas FMP for the purpose of royalty payment, and is then sent to sales. Water is sent to the Cedar Canyon 22 Battery before being sent to the Cedar Canyon water disposal distribution system.

For testing purposes, the Cedar Canyon 23 Federal 3H Satellite is equipped with four 6' x 20' and one 4' x 10' permanent three-phase test separators. The facility is also equipped with two mobile 6' X 20' three-phase test separators that will be removed from location after the wells have declined to the point where the vessel is no longer needed. Each test vessel is equipped with oil turbine meters, gas orifice meters, and water turbine meters. The table below details the oil and gas meter serial numbers on the testers.

<b>CEDAR CANYON 23-3H BATTERY TESTERS</b>	<b>OIL METER #</b>	<b>GAS METER #</b>
Permanent 4 x 10	65987	T152328915
Permanent 6 X 20	1208824315	T170369235
Permanent 6 X 20	63005	T170369228
Permanent 6 X 20	12089268714	T170369223
Permanent 6 X 20	1209337420	T170369233
Temporary 6 X 20	390335	T151222199
Temporary 6 X 20	390324	T153234908

Cedar Canyon 23-24 Federal 31H and 32H have been on production for 13 months and are in Range 3 of decline. Each well has its own dedicated test separator and is tested at least once per month, as specified in Hearing Order R-14299.

All other wells at the Cedar Canyon 23-3H Satellite, and Cedar Canyon 22 Fed Com 5H, have also been on production for over a year and are in Range 3 of decline. The Cedar Canyon 23-3H Satellite wells share the five permanent test separators located at the satellite. Cedar Canyon 22 Fed Com 5H has an individual test separator, as described previously. All of the wells are tested at least once per month, as specified in Hearing Order R-14299.

Production is allocated to each well based on the aforementioned well tests and the amount of hours the well was operating in a given month.

All wells except for Cedar Canyon 23-24 Fed 31H are on gas lift. Each well has a gas-driven compressor located on the respective well pads and a gas lift meter at the respective well pads to measure the amount of gas used for lift operations. Each compressor uses an estimated 25 MCFPD in fuel gas, based on manufacturer's specifications. The table below details the gas lift meter numbers for each well. Volumes range from 450 MCFPD to 1000 MCFPD.

<b>WELL</b>	<b>GAS LIFT METER NO.</b>
Cedar Canyon 22 Fed Com 4H	14999I
Cedar Canyon 22 Fed 21H	14979I
Cedar Canyon 23 Fed 3H	14931I
Cedar Canyon 23 Fed 4H	14933I
Cedar Canyon 23 Fed 5H	14932I
Cedar Canyon 23 Fed Com 6H	14882I
Cedar Canyon 22 Fed Com 5H	14978I
Cedar Canyon 23-24 Fed 32H	14884I

**CEDAR CANYON 21 FEDERAL BATTERY**

Federal CA PENDING Lease (NMNM85893, NMNM86550 &amp; NMNM86908) (12.5% Royalty Rate)

POOL: CORRAL DRAW; BONE SPRING (96238)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 21 Fed Com 22 H	12/2017	30-015-44190	E-21-24S-29E	530	44.5	1272	1338	814
Cedar Canyon 21 Fed Com 23 H	12/2017	30-015-44191	E-21-24S-29E	231	44.5	663	1314	176
Cedar Canyon 21 Fed Com 21 H	11/2017	30-015-44181	A-21-24S-29E	325	42.9	773	1263	771

Federal CA 25302700 Lease (NMNM85893, NMNM86550, NMNM86908 &amp; NMNM81586) (12.5% Royalty Rate)

POOL: PIERCE CROSSING; BONE SPRING E (96473)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 21-22 Fed Com 32H	12/2017	30-015-44176	E-21-24S-29E	537	44.8	1134	1305	5134

Federal CA PENDING Lease (NMNM85893, NMNM86550 &amp; NMNM86908) (12.5% Royalty Rate)

POOL: PURPLE SAGE; WOLFCAMP (98220)

Well Name	First Oil Production	API	Surface Location	Oil (BPD)	Gravity	Gas (MSCFD)	BTU/cf	Water (BPD)
Cedar Canyon 21 Fed Com 31H	10/2017	30-015-44182	A-21-24S-29E	224	40.7	457	1279	1589

Production at the battery is separated and measured through a 10' X 40' three-phase separator. Oil then flows through four heater treaters (8' X 20') and is then sent to twelve storage tanks. The oil production is sold through three LACT meters (S/N 14666382, 14698730 and 14648727), which serve as the oil FMPs.

Gas is sent from the production and test separators to a 6' X 20' gas scrubber then sent through an Oxy check meter (S/N 172885798) that serve as the gas FMP for the purpose of royalty payment. Water production will be sent to the Cedar Canyon Salt Water Disposal Distribution system.

For testing purposes, the Cedar Canyon 21 Federal Battery is equipped with three 6' x 20' permanent three-phase test separators. Each test vessel is equipped with oil turbine meters (S/N 12093336121, 12093374207, 12089268710), gas orifice meters (S/N T170369227, T170369231, T170369218) and water turbine meters.

All wells except for Cedar Canyon 21 Fed Com 31H are in Range 2 of decline and are tested at least twice per month. Once Range 1 decline commences, the wells will be tested at least once per month, as specified in Hearing Order R-14299. Cedar Canyon 21 Fed Com 31H has been online for over a year so is in Range 3 of decline. It will be tested at least once per month, as specified in the aforementioned Order.

All wells are on gas lift. Each well has a gas-driven compressor located on the respective well pad and a gas lift meter at the respective well pad to measure the amount of gas used for lift operations. The table below details the gas lift meter numbers for each well. Volumes range from 450 MCFPD to 1000 MCFPD. Each compressor uses an estimated 25 MCFPD in fuel gas, based on manufacturer's specifications.

WELL	GAS LIFT METER NO.
Cedar Canyon 21 Fed Com 22 H	14887I
Cedar Canyon 21 Fed Com 23 H	14888I
Cedar Canyon 21 Fed Com 21 H	14885I
Cedar Canyon 21 Fed Com 31H	14886I
Cedar Canyon 21-22 Fed Com 32H	14841I

**Additional Application Components:**

The flow of production is shown in detail on the enclosed facility diagrams. Also enclosed are maps detailing the lease boundaries, well and battery locations.

Pursuant to Statewide rule 19.15.12.10(C)(4)(g) OXY USA INC requests the option to include additional pools or leases within the defined parameters set forth in the Order for future additions.

The oil and gas meters will be calibrated on a regular basis per API, NMOCD and BLM specifications.

Commingling this production is the most effective means of producing the reserves. OXY USA INC understands the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument. These applications will be submitted separately for approval per NMOCD and BLM regulations.

## ATTACHMENT A: Cedar Canyon Wells

## CEDAR CANYON 23-3H SATELLITE

Well Name	API	Horizontal Spacing Unit	Pool	Lease	Pool Code	Range of Decline
Cedar Canyon 22 Fed 21H	30-015-43642	N/2 S/2 Sec.22	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23-24 Fed 31H	30-015-44179	N/2 N/2 of Section 23, N/2 NW/4 Section 24	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23-24 Fed 32H	30-015-44180	S/2 N/2 of Section 23, S/2 NW/4 Section 24	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 22 Fed Com 4H	30-015-43708	N/2 S/2 Sec.22	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23 Fed 3H	30-015-43290	N/2 S/2 of Section 23, N/2 SW/4 Section 24	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23 Fed 4H	30-015-43281	S/2 N/2 of Section 23, S/2 NW/4 Section 24	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23 Fed 5H	30-015-43282	N/2 N/2 of Section 23, N/2 SW/4 Section 24	Pierce Crossing; Bone Spring E	Federal Lease NMNM81586	96473	3
Cedar Canyon 23 Fed Com 6H	30-015-44095	N/2 S/2 of Section 23, N/2 SW/4 Section 24	Pierce Crossing; Bone Spring E	CA NM 136823	96473	3

## CEDAR CANYON 22 SATELLITE BATTERY

Well Name	API	Horizontal Spacing Unit	Pool	Lease	Pool Code	Range of Decline
Cedar Canyon 22 Fed Com 5H	30-015-43758	N/2 S/2 Sec 22	Corral Draw; Bone Spring	CA NM 136823	96238	3

## CEDAR CANYON 21 BATTERY

Well Name	API	Horizontal Spacing Unit	Pool	Lease	Pool Code	Range of Decline
Cedar Canyon 21 Fed Com 22 H	30-015-44190	S/2 N/2 Sec 21	Corral Draw; Bone Spring	CA NM 137568	96238	2
Cedar Canyon 21 Fed Com 23 H	30-015-44191	S/2 N/2 Sec 21	Corral Draw; Bone Spring	CA NM 137568	96238	2
Cedar Canyon 21 Fed Com 21 H	30-015-44181	N/2 N/2 Sec 21	Corral Draw; Bone Spring	CA NM 137568	96238	2
Cedar Canyon 21-22 Fed Com 32H	30-015-44176	S/2 N/2 Sec 21 and S/2 N/2 Sec 22	Pierce Crossing; Bone Spring E	CA NM 137568	96473	2
Cedar Canyon 21 Fed Com 31H	30-015-44182	N/2 Section 21	Purple Sage; Wolfcamp	CA NM 137568	98220	3

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**Ken McQueen**  
Cabinet Secretary

**Matthias Sayer**  
Deputy Cabinet Secretary

**David R. Catanach, Division Director**  
Oil Conservation Division



September 27, 2017

**ADMINISTRATIVE POOL/LEASE COMMINGLING ORDER**

Administrative Order PLC-483  
Administrative Application Reference No. pMAM1724945293

OXY USA, Inc.  
Attention: Ms. Sandra Mussallam

Pursuant to your application received on September 6, 2017, OXY USA, Inc. (OGRID 16696) is hereby authorized to surface commingle oil and gas production from the following pools:

PIERCE CROSSING; BONE SPRING, EAST	(96473)
CORRAL DRAW; BONE SPRING	(96238)
PURPLE SAGE; WOLFCAMP (GAS)	(98220)

and from wells, and their associated leases and pools identified in Attachment No. A and made part of this order. These wells are located on federal leases in Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico.

Production from the subject wells shall be determined as follows:

It is understood that the test separator and meters are designed to accurately measure production from the wells with the highest production rate. It is also assumed that all of the oil and gas production from the wells in this application will display a hyperbolic decline, and will fit the decline parameters described in Hearing Order R-14299. Wells that are in Range 1 of decline shall be measured separately. Wells that are in Range 2 of decline shall be measured with a combination of metering and well testing, and shall be tested at least twice a month. Wells in Range 3 of decline shall be measured with a combination of metering and well testing, and shall be tested at least once a month.

OXY USA, Inc. shall provide a Sundry Notice to the Engineering Bureau in Santa Fe when a test separator is removed.

**Cedar Canyon 21 Battery**

The commingled oil and gas production from the wells in Attachment A for the Cedar Canyon 21 Battery shall be measured and sold at the Cedar Canyon 21 Battery (Cedar Canyon 21 CTB)

located in Unit P of Section 21, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico. Initially, all of the wells shall be continuously metered for oil and gas production, because the wells are in Range 1 decline as specified in Hearing Order R-14299. The Cedar Canyon 21 CTB shall have a minimum of three permanent test separators.

The Cedar Canyon 21 CTB shall be a Facility Measurement Point (FMP) for oil production for all wells in this administrative application.

#### **Cedar Canyon 23-3H Battery**


The commingled oil and gas production from the wells in Attachment A for the Cedar Canyon 23-3H Battery shall be measured at the Cedar Canyon 23-3H Central Tank Battery (Cedar Canyon 23-3H CTB) located in in Unit I of Section 22, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico. The Cedar Canyon 23-3H CTB will be equipped with a total of eight three-phase separators initially, and two of them will be removed once the wells have declined sufficiently below Range 1 decline, as specified in Hearing Order R-14299. The gas will be measured at the Cedar Canyon 23-3H CTB, which will be the Facility Measurement Point for those wells. Lastly, after the oil production is measured, it will flow to the Cedar Canyon 21 CTB where it will be sold.

The allocation meters shall be calibrated quarterly in accordance with Rule 19.15.12.10.C (2) NMAC.

This installation shall be installed and operated in accordance with the applicable Division Rules. It is the responsibility of the producer to notify the transporter of this commingling authority.

**This approval is subject to like approval from Bureau of Land Management a before commencing commingling operations.**

The operator shall notify the Artesia District office of the Division prior to implementation of the commingling operations.

  
**DAVID R. CATANACH**  
Director

DRC/mam

cc: Oil Conservation Division District Office – Artesia  
Bureau of Land Management – Carlsbad

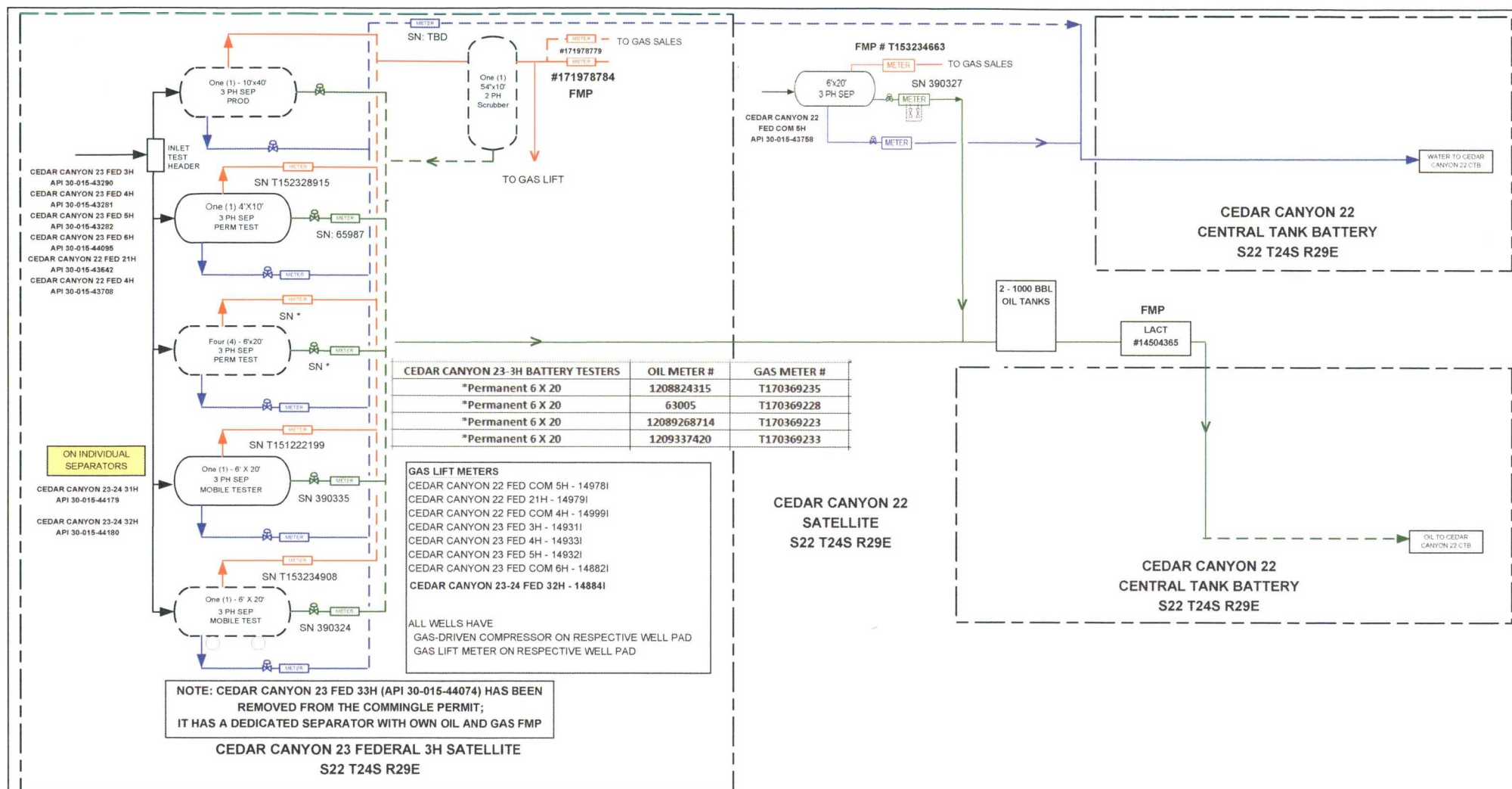
Attachment A


## Attachment A: Cedar Canyon wells

OXY						
CEDAR CANYON 23-3H BATTERY						
Well Name	API	Surface Location	Project Area	Pool	Pool Name	Range
Cedar Canyon 22 Fed 21H	30-015-43642	I-22-24S-29E	S/2 N/2 SEC 22	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23-24 Fed 31H	30-015-44179	A-22-24S-29E	N/2 N/2 SEC 23, N/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23-24 Fed 32H	30-015-44180	A-22-24S-29E	S/2 N/2 SEC 23, S/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 22 Fed Com 4H	30-015-43708	I-22-24S-29E	N/2 S/2 SEC 22	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed 3H	30-015-43290	I-22-24S-29E	N/2 S/2 SEC 23, N/2 SW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed 4H	30-015-43281	H-22-24S-29E	S/2 N/2 SEC 23, S/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	3
Cedar Canyon 23 Fed 5H	30-015-43282	A-22-24S-29E	N/2 N/2 SEC 23, N/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	3
Cedar Canyon 23 Fed Com 6H	30-015-44095	I-22-24S-29E	S/2 SEC 23, SW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed Com 33H	30-015-44074	I-22-24S-29E	S/2 SEC 23, SW/4 SEC 24	96473	Purple Sage; Wolfcamp	1

CEDAR CANYON 21 BATTERY						
Well Name	API	Surface Location	Project Area	Pool	Pool Name	Range
Cedar Canyon 22 Fed Com 5H	30-015-43758	M-22-24S-29E	N/2 S/2 SEC 22	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 22 H	30-015-44190	E-21-24S-29E	S/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 23 H	30-015-44191	E-21-24S-29E	S/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 21 H	30-015-44181	A-21-24S-29-E	N/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21-22 Fed Com 32H	30-015-44176	E-21-24S-29E	N/2 SEC 21, N/2 Sec 22	96473	Purple Sage; Wolfcamp	1
Cedar Canyon 21 Fed Com 31H	30-015-44182	A-21-24S-29-E	N/2 SEC 21	98220	Purple Sage; Wolfcamp	1

Range is the stage of decline of each well based on parameters specified in Hearing Order R-14299



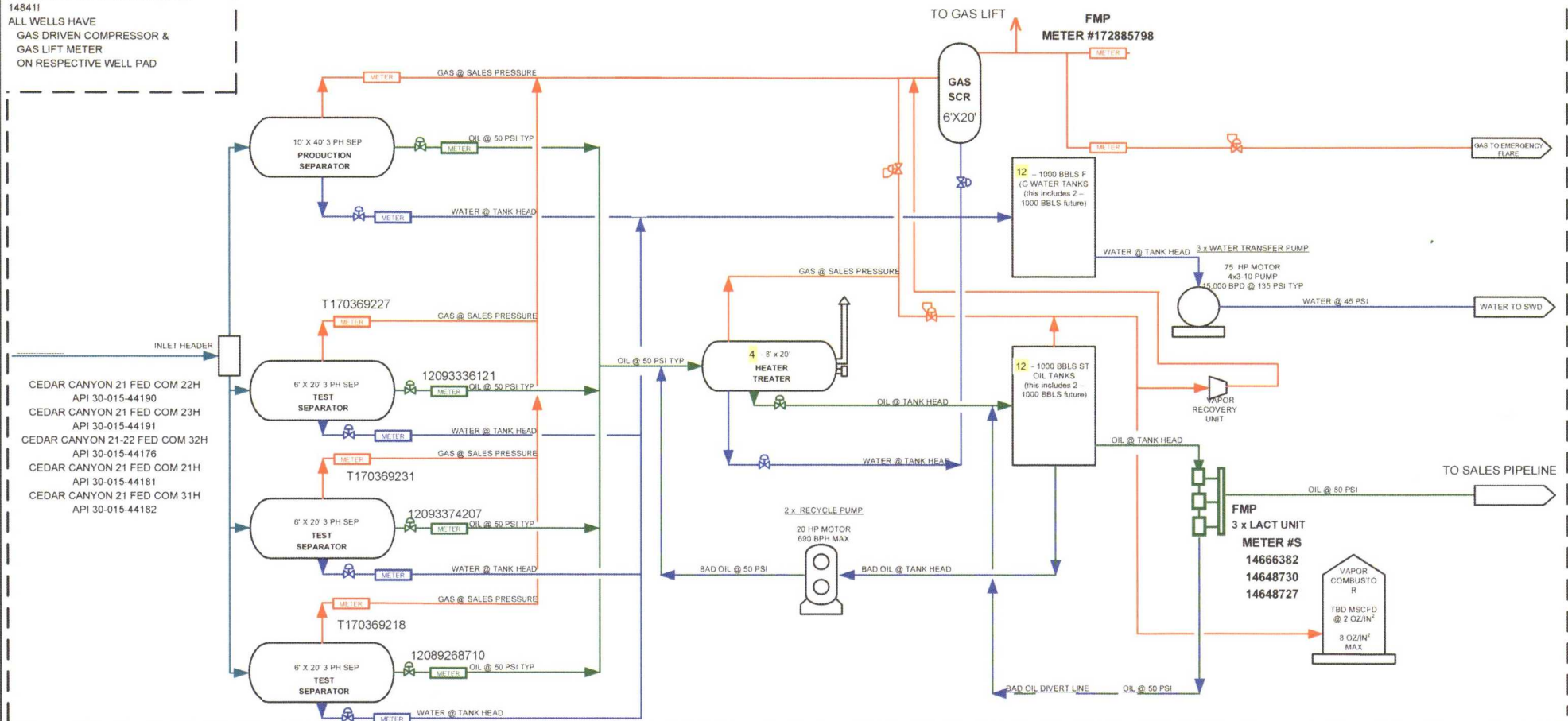
LEGEND			REVISION BLOCK						ENGINEERING RECORD		  PROCESS FLOW DIAGRAM CEDAR CANYON 23-3H SAT
———— PRODUCTION MIX	———— Existing Equipment	NO.	DATE	DESCRIPTION	BY	CHK	APP	BY	DATE		
———— OIL	----- New Equipment	0			RT			DRN: RT	06/28/17		
———— GAS								DES:			
———— WATER								CHK:			
———— EQUIPMENT								APP:			
								AFE:			

PROCESS FLOW DIAGRAM  
CEDAR CANYON 23-3H SAT

# **GAS LIFT METER NUMBERS**

CEDAR CANYON 21 FED COM 21H - 148851  
CEDAR CANYON 21 FED COM 22H - 148871  
CEDAR CANYON 21 FED COM 23H - 148881  
CEDAR CANYON 21 FED COM 31H - 148861  
CEDAR CANYON 21-22 FED COM 32H - 148411

ALL WELLS HAVE  
GAS DRIVEN COMPRESSOR &  
GAS LIFT METER  
ON RESPECTIVE WELL PAD



## **LEGEND**

— PRODUCTION MIX  
— OIL  
— GAS  
— WATER  
— EQUIPMENT

## **REVISION BLOCK**

NO.	DATE	DESCRIPTION	BY	CHK	APP
0			JC		

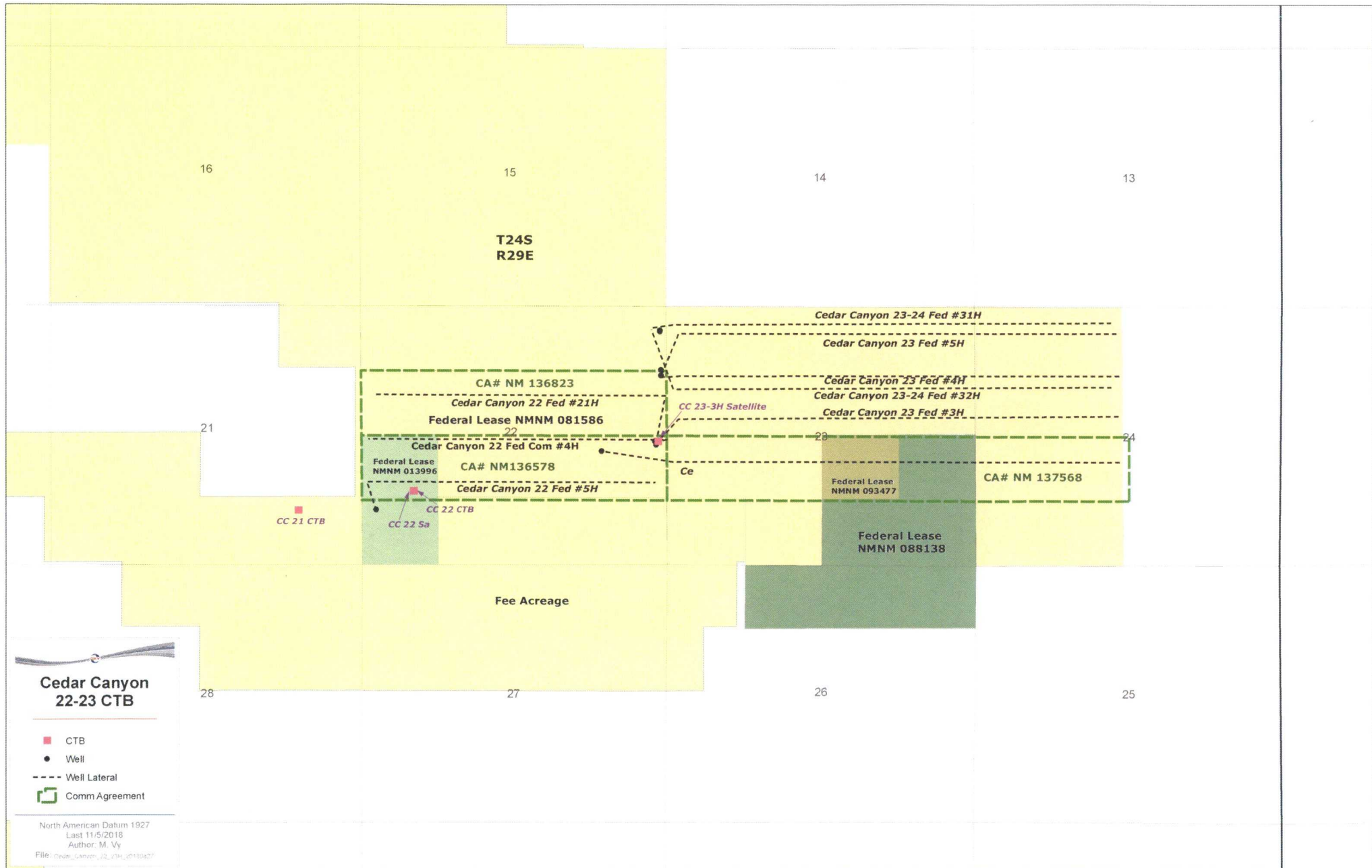
## **ENGINEERING RECORD**

BY	DATE
DRN: JC	2/6/17
DES:	
CHK:	
APP:	
AFE:	



## **PROCESS FLOW DIAGRAM**

Cedar Canyon 21 Fed CTB



16

15

14

T24S  
R29E

Cedar Canyon 21 Fed Com #31H

Cedar Canyon 21 Fed Com #21H

Federal Lease  
NMNM 085893

CA# Pending

Fee Acreage

Cedar Canyon 21 Fed Com #22H

Cedar Canyon 21-22 Fed Com #32H

Federal Lease  
NMNM 086550Federal Lease  
NMNM 085893

CA# 25302700

20

CA# Pending

21

Cedar Canyon 21 Fed Com #23H

22

Federal Lease  
NMNM 086908

Federal Lease NMNM 081586

23

Federal Lease  
NMNM 093477

CC 21 CTB

Federal Lease  
NMNM 013996

Fee Acreage

Federal Lease  
NMNM 088138

28

27

26

Cedar Canyon  
21 CTB

■ CC 21 CTB

● Well

--- Lateral

□ Comm Agreement

North American Datum 1927

Last 11/6/2018

Author M Vy

File: \\cedar\canyon\21 CTB\_20180527

# CEDAR CANYON 23 FEDERAL 3H SATELLITE

## Previous 6 Month Production Data

Cedar Canyon 22 Fed 21H - 30-015-43642			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	5364	24907	31114
Apr-2018	4729	30253	11798
May-2018	4402	27554	12858
Jun-2018	3959	27790	10342
Jul-2018	4034	20027	9859
Aug-2018	3767	21629	5747

Cedar Canyon 23-24 Fed 31H - 30-015-44179			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	11707	41791	44867
Apr-2018	9884	34753	0
May-2018	9387	34065	36512
Jun-2018	8696	34648	0
Jul-2018	7855	33269	0
Aug-2018	7326	24373	30892

Cedar Canyon 23-24 Fed 32H - 30-015-44180			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	12766	42876	39759
Apr-2018	9825	30435	0
May-2018	9569	24784	20655
Jun-2018	7355	24694	0
Jul-2018	6699	21502	0
Aug-2018	8315	24777	19009

Cedar Canyon 23 Fed 3H - 30-015-43290			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	11495	42217	75782
Apr-2018	8143	43223	35917
May-2018	7592	46887	41851
Jun-2018	8054	57238	37960
Jul-2018	7730	57888	34198
Aug-2018	7130	44516	27924

Cedar Canyon 23 Fed 4H - 30-015-43281			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	4518	9933	28405
Apr-2018	4398	14509	11434
May-2018	4548	14153	9277
Jun-2018	3646	14365	10218
Jul-2018	3774	14094	0
Aug-2018	3665	21837	14394

Cedar Canyon 23 Fed 5H - 30-015-43282			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	3899	10115	14585
Apr-2018	2965	7633	6685
May-2018	2354	10725	5256
Jun-2018	2974	15061	8862
Jul-2018	3316	23618	0
Aug-2018	3659	22176	9549

Cedar Canyon 22 Fed Com 4H - 30-015-43708			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	4878	33305	39837
Apr-2018	4109	33839	21683
May-2018	4319	32195	21101
Jun-2018	3482	35314	21052
Jul-2018	3409	33580	18483
Aug-2018	3079	25874	16308

Cedar Canyon 23 Fed Com 6H - 30-015-44095			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	15530	73854	61713
Apr-2018	12530	54424	30435
May-2018	10659	39183	27573
Jun-2018	10011	41087	16494
Jul-2018	9426	43297	15506
Aug-2018	8658	40306	25055

Cedar Canyon 22 Fed Com 5H - 30-015-43758			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	5688	31499	22726
Apr-2018	4654	28355	15526
May-2018	15279	31383	15839
Jun-2018	8058	29230	14302
Jul-2018	7862	30445	14015
Aug-2018	8938	23177	13367

## CEDAR CANYON 21 FEDERAL BATTERY

### Previous 6 Month Production Data

Cedar Canyon 21 Fed Com 21H - 30-015-44181			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	11965	23339	56906
Apr-2018	11797	18589	44857
May-2018	10751	24734	17704
Jun-2018	8152	22384	0
Jul-2018	6809	23768	10781
Aug-2018	5529	17778	0

Cedar Canyon 21 Fed Com 22H - 30-015-44190			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	30310	63810	102489
Apr-2018	15499	31761	18271
May-2018	14745	36830	14468
Jun-2018	12701	32117	0
Jul-2018	11219	33125	10566
Aug-2018	10396	30110	0

Cedar Canyon 21 Fed Com 23H - 30-015-44191			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	10751	24734	17704
Apr-2018	8152	22384	0
May-2018	6809	23768	10781
Jun-2018	5529	17778	0
Jul-2018	4658	15237	0
Aug-2018	4476	12039	2332

Cedar Canyon 21 Fed Com 31H - 30-015-44182			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	9825	16796	77934
Apr-2018	7202	14713	37899
May-2018	7367	15545	69786
Jun-2018	5989	12374	37306
Jul-2018	5537	12649	24552
Aug-2018	4891	11175	41721

Cedar Canyon 21-22 Fed Com 32H - 30-015-44176			
Month	Oil (bbls)	Gas (mcf)	Water (bbls)
Mar-2018	18486	39518	185559
Apr-2018	19437	37623	136559
May-2018	16473	36666	186360
Jun-2018	14811	31077	113527
Jul-2018	12863	29590	112109
Aug-2018	12980	26216	174614



NIM OIL CONSERVATION  
ARTESIA DISTRICT

State of New Mexico

MAY 15 2017

Form C-102

Energy, Minerals & Natural Resources Department

Revised August 1, 2011

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Santa Fe, NM 87505

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District I  
1451 N. French Dr., Hobbs, NM 88249  
Phone: (505) 343-4141 Fax: (505) 343-4726  
District II  
1111 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9726  
District III  
1000 Rio Grande Road, Artesia, NM 88210  
Phone: (505) 334-4178 Fax: (505) 334-4170  
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>3005-44179</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring East</b>
Property Code <b>317748</b>	Property Name <b>CEDAR CANYON "23-24" FEDERAL</b>	Well Number <b>31H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2943.2'</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
A	22	24 SOUTH	29 EAST, N.M.P.M.		491'	NORTH	177'	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
C	24	24 SOUTH	29 EAST, N.M.P.M.		380'	NORTH	2460'	WEST	EDDY

Dedicated Acres <b>240</b>	Joint or Infill <b>Y</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.

NE 1/4 N 1/4 Sec 22 (Surface)

<p><b>SURFACE LOCATION</b> NEW MEXICO EAST NAD 1983 Y=438921.88 US FT X=655468.37 US FT LAT.: N 32.2088839 LONG.: W 103.9643230</p> <p><b>TOP PERF.</b> NEW MEXICO EAST NAD 1983 Y=440034.16 US FT X=655388.44 US FT LAT.: N 32.2091874 LONG.: W 103.9626505</p> <p><b>BOTTOM PERF.</b> NEW MEXICO EAST NAD 1983 Y=440059.55 US FT X=653234.45 US FT LAT.: N 32.2091863 LONG.: W 103.9392080</p> <p><b>KICK OFF POINT</b> NEW MEXICO EAST NAD 1983 Y=440033.14 US FT X=655388.44 US FT LAT.: N 32.2091874 LONG.: W 103.9635882</p> <p><b>BOTTOM HOLE LOCATION</b> NEW MEXICO EAST NAD 1983 Y=440050.11 US FT X=653387.46 US FT LAT.: N 32.2091862 LONG.: W 103.9386487</p> <p>GRID AZ = 89°47'56" 7701.10' IN ALL</p> <p>GRID AZ = 65°53'30" 252.64'</p> <p>PRODUCING AREA PROJECT AREA 330'</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>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 undivided 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.</p> <p><i>David Stewart</i> 10/5/16 Signature Date David Stewart SR.PS. AEO. Printed Name david_stewart@oxy.com E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the survey shown on this plat was located from public lands or from surveys made by public land surveyors and that the same is true and correct to the best of my belief.</p> <p><b>TERRY J. ASS</b> 15079 MARCH 20, 2016 Date of Survey Signature and Seal of Professional Surveyor Terry J. Ass 9/16/2016 Certificate Number 15079</p>
--	--

District I  
1623 N. French Dr., Hobbs, NM 88240  
Phone: (505) 393-4141 Fax: (505) 393-4720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 746-1283 Fax: (505) 746-4720  
District III  
1650 Rio Grande Road, Artesia, NM 87410  
Phone: (505) 334-4178 Fax: (505) 334-4170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3463

**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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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-44180</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, East</b>
Property Code <b>317748</b>	Property Name <b>CEDAR CANYON "23-24" FEDERAL</b>	
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	
Well Number <b>32H</b>		Elevation <b>2943.6'</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
A	22	24 SOUTH	29 EAST, N.M.P.M.		520'	NORTH	172'	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
F	24	24 SOUTH	29 EAST, N.M.P.M.		1700'	NORTH	2460'	WEST	EDDY

Dedicated Acres <b>240</b>	Joint or Infill <b>Y</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.

**NE 1/4 NE 1/4 Sec 22**

**SURFACE LOCATION**  
NEW MEXICO EAST  
NAD 1983  
Y=438992.50 US FT  
X=683392.10 US FT  
LAT.: N 32.2088028°  
LONG.: W 103.9643054°

**TOP PERF.**  
NEW MEXICO EAST  
NAD 1983  
Y=438971.15 US FT  
X=683367.25 US FT  
LAT.: N 32.2055588°  
LONG.: W 103.9626536°

**BOTTOM PERF.**  
NEW MEXICO EAST  
NAD 1983  
Y=438738.51 US FT  
X=683340.34 US FT  
LAT.: N 32.2055576°  
LONG.: W 103.9392019°

**LOCK OFF POINT**  
NEW MEXICO EAST  
NAD 1983  
Y=438713.13 US FT  
X=683367.08 US FT  
LAT.: N 32.2055588°  
LONG.: W 103.9639812°

**BOTTOM HOLE LOCATION**  
NEW MEXICO EAST  
NAD 1983  
Y=438740.07 US FT  
X=683340.34 US FT  
LAT.: N 32.2055576°  
LONG.: W 103.9386646°

GRID A2 = 189°12'09" 1800.83'  
GRID A2 = 89°47'59" 7703.69' IN ALL

PRODUCING AREA  
PROJECT AREA

**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 undivided 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 having been entered by the division.

10/5/16  
*David Stewart*  
David Stewart Sr. Reg. Act.  
David.Stewart@oxy.com

**SURVEYOR CERTIFICATION**

I hereby certify that I am a duly licensed surveyor 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 belief.

15079  
10/5/16  
*ERRY J. ASH*  
Professional Land Surveyor

9/16/2016  
15079  
*ERRY J. ASH*  
Certificate Number

District I  
1425 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-6720  
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) 476-3450 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

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ARTESIA DISTRICT

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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.

N/2 S/2 Sec 22

<p><b>BOTTOM HOLE LOCATION</b> NEW MEXICO EAST NAD 1927 Y=437611.73 US FT X=609248.07 US FT LAT.: N 32.2026184° LONG.: W 103.9801330°</p>				<p><b>BOTTOM PERF.</b> NEW MEXICO EAST NAD 1927 Y=437612.35 US FT X=609504.29 US FT LAT.: N 32.2026178° LONG.: W 103.9793086°</p>				<p><b>TOP PERF.</b> NEW MEXICO EAST NAD 1927 Y=437618.38 US FT X=614150.28 US FT LAT.: N 32.2025862° LONG.: W 103.9643507°</p>				<p><b>KICK OFF POINT</b> NEW MEXICO EAST NAD 1927 Y=437615.64 US FT X=614385.83 US FT LAT.: N 32.2025844° LONG.: W 103.9638263°</p>			
<p>GRID AZ = 269°56'43" 5136.75' IN ALL</p>															
<p>GRID AZ = 80°33'41" 182.39'</p>															
<p>PRODUCING AREA</p>															
<p>PROJECT AREA</p>															
<p><b>SURFACE LOCATION</b> NEW MEXICO EAST NAD 1927 Y=437586.73 US FT X=614208.88 US FT LAT.: N 32.2025039° LONG.: W 103.9641083°</p>															

**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 undivided 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 in a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

*[Signature]* 1/31/17  
Date  
**Jana Mendiola**  
Printed Name  
**jana.mendiola@oxy.com**  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was placed from a true and correct survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

*[Signature]* 11/5/2015  
Date of Survey  
**15079**  
Professional Surveyor  
Certificate Number

WD# 151027ML-c-XY (Rev. A) (NA)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720  
District III  
1000 Rio Grande 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) 476-3463

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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(As Drilled)

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43290</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bore Spring, East</b>
Property Code <b>315098</b>	Property Name <b>CEDAR CANYON "23" FEDERAL</b>	Well Number <b>3H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2957.1'</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
<b>1</b>	<b>22</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>2540'</b>	<b>SOUTH</b>	<b>200'</b>	<b>EAST</b>	<b>EDDY</b>

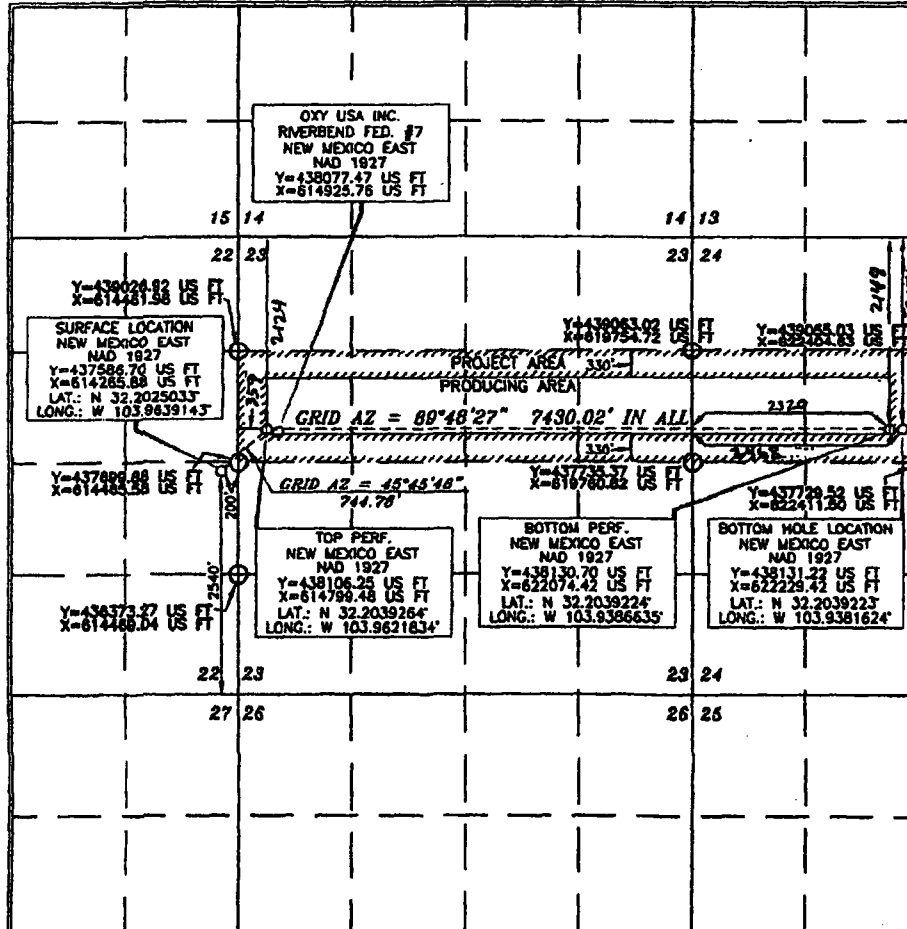
**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>F</b>	<b>24</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>2151'</b>	<b>NORTH</b>	<b>2170'</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres <b>240</b>	Joint or Infill <b>Yes</b>	Consolidation Code	Order No. <b>BP-2149 FNL 2320 FWL TP-2124 FNL 359 FEL</b>
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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.

*S/O N/2 Sec 23, S/O N/4 Sec 24*



**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]* 2/1/17  
Jana Mendiola  
jandmendiola@oxy.com

**SURVEYOR CERTIFICATION**

I hereby certify that the information shown on this plat was obtained from a valid and accurate survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

*[Signature]* 10/27/2016  
Date of Survey  
Professional Surveyor  
15079

*[Signature]* 10/27/2016  
Certificate Number  
15079

WO# 151027WL-a-XY (NA)

# NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico MAY 03 2016  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-43281</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>4H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2942.4'</b>

### Surface Location

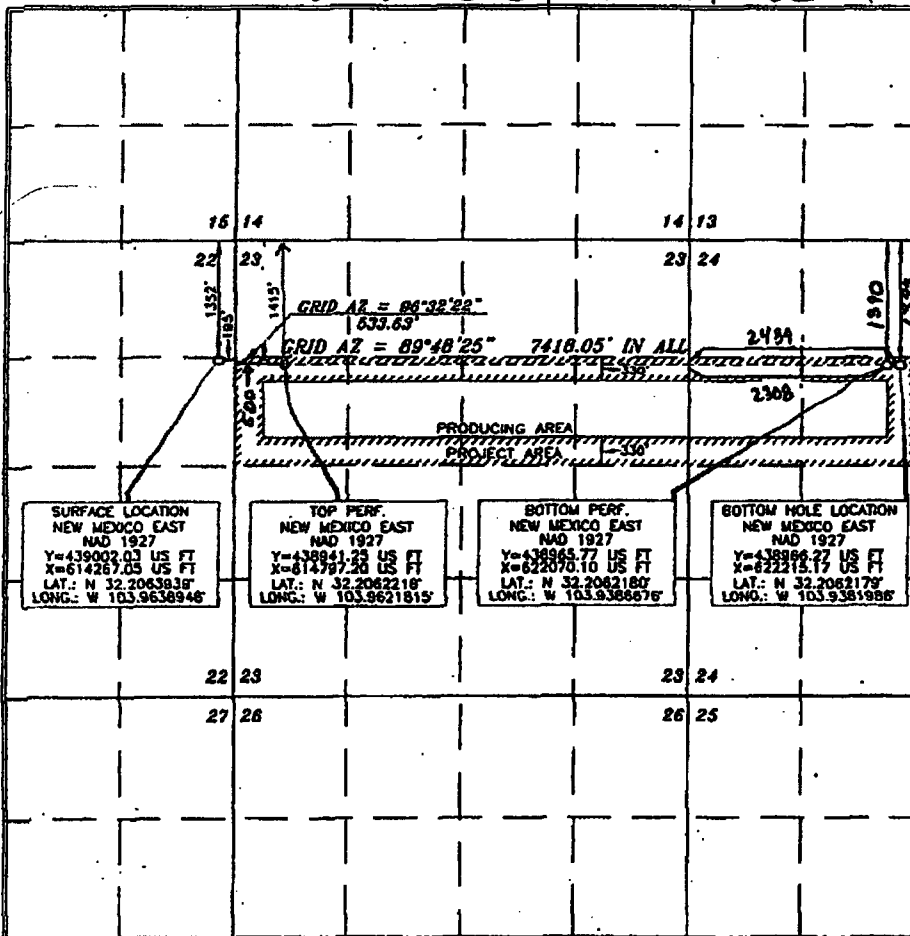
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	22	24 SOUTH	29 EAST, N.M.P.M.		1352'	NORTH	195'	EAST	EDDY

### 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
F	24	24 SOUTH	29 EAST, N.M.P.M.		1415'	NORTH	2439'	WEST	EDDY
Dedicated Acres <b>240</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>NSL # 7356</b>	<b>TD - 1393 FNL 2439 FNL</b> <b>BP - 1390 FNL 2308 FNL</b> <b>TP - 1415 FNL 500 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.

*9/2 N 1/2 Sec 23, S 1/2 NW 1/4 Sec 24*



### 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 undivided 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 approved by the division.

Signature: *[Signature]* Date: **1/20/16**  
Name: **Jana Mendiola**  
Email Address: **jana.mendiola@oxy.com**

### SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from fieldnotes 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: **OCTOBER 12, 2015**  
Signature of Professional Land Surveyor: *[Signature]*  
Certificate Number: **15079**  
Date: **10/20/2015**

*PA 2/15/16 S 1/2 Sections 23 & 24*

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) 748-1282 Fax: (575) 748-9720  
District III  
1000 Rio Blanco Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-05-43282</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, E.</b>
Property Code <b>39439</b>	Property Name <b>315098 CEDAR CANYON "23" FEDERAL</b>	Well Number <b>5H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2941.5'</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>A</b>	<b>22</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>1305'</b>	<b>NORTH</b>	<b>155'</b>	<b>EAST</b>	<b>EDDY</b>

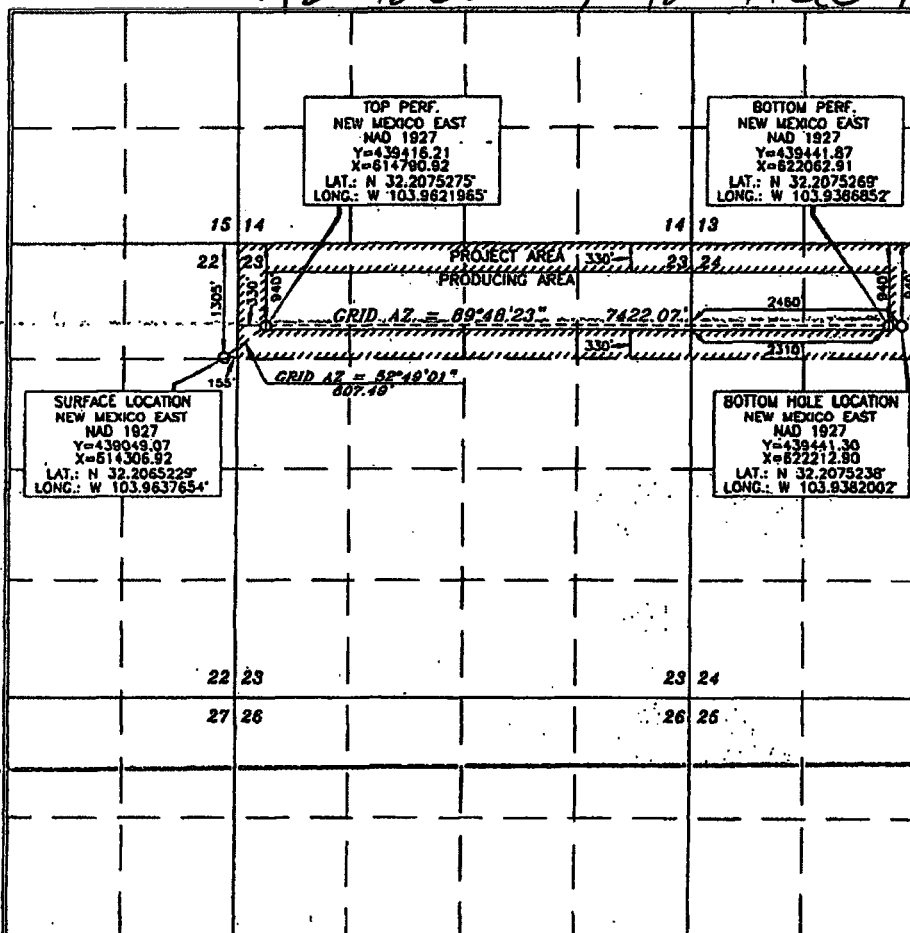
**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>24</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>940'</b>	<b>NORTH</b>	<b>2460'</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>240</b>	<b>N</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.

**N 1/2 Sec 23, 1/2 NW 1/4 Sec 24**



**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 possesses 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 its decision.

Signature: **[Signature]** Date: **11/14/14**  
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 reliable 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: **DECEMBER 11, 2013**  
Signature and Seal: **[Signature]**  
Professional Surveyor: **15079**  
Certificate Number: **15079**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUL 27 2017

District I  
1423 N. Frank Dr., Hobbs, NM 88240  
Phone: (505) 393-4141 Fax: (505) 393-4720  
District II  
411 E. First St., Artesia, NM 88210  
Phone: (505) 748-1281 Fax: (505) 748-4720  
District III  
1000 Rio Grande Road, Aztec, NM 87410  
Phone: (505) 334-4170 Fax: (505) 334-4170  
District IV  
1230 E. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT  
(As-Drilled)

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-44095</b>	Pool Code <b>96473</b>	Pool Name <b>Pierce Crossing Bone Spring, East</b>
Property Code <b>317464</b>	Property Name <b>CEDAR CANYON "23" FEDERAL COM</b>	Well Number <b>6H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2948.7'</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
<b>1</b>	<b>22</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>2329'</b>	<b>SOUTH</b>	<b>1173'</b>	<b>EAST</b>	<b>EDDY</b>

**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
<b>K</b>	<b>24</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>2100'</b> <b>2135'</b>	<b>SOUTH</b>	<b>2100'</b> <b>2135'</b>	<b>WEST</b>	<b>EDDY</b>
Dedicated Acres <b>240</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No.	<b>TD - 2135' FSL 2434 FWL</b> <b>BP - 2131' FSL 2285 FWL</b> <b>TP - 2133' FSL 359 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.

*N/2 S/2 Sec 23, N/2 SW/4 Sec 24*

<p><b>OPERATOR CERTIFICATION</b></p> <p>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 undivided 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 into by the parties.</p> <p><i>[Signature]</i> <b>7/24/17</b>  <b>Jana Mendiola</b>          Principal Name          Email Address: <b>jana.mendiola@oxy.com</b></p>	
<p><b>SURVEYOR CERTIFICATION</b></p> <p>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 undivided 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 into by the parties.</p> <p><b>15079</b>  <b>FEBRUARY 22 2015</b>          Date of Survey  <i>[Signature]</i>          Signature and Seal of Professional Surveyor          Certificate Number <b>15079</b></p>	

WD# 150223W1-o-XY (Rev. A) (NW)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 343-6161 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 Bravo Road, Artesia, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6178  
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>30-015-43758</b>	Pool Code <b>96238</b>	Pool Name <b>Corral Draw Bone Spring</b>
Property Code <b>316106</b>	Property Name <b>CEDAR CANYON "22" FEDERAL COM</b>	Well Number <b>5H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2939.7'</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>M</b>	<b>22</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>1120'</b>	<b>SOUTH</b>	<b>207'</b>	<b>WEST</b>	<b>EDDY</b>

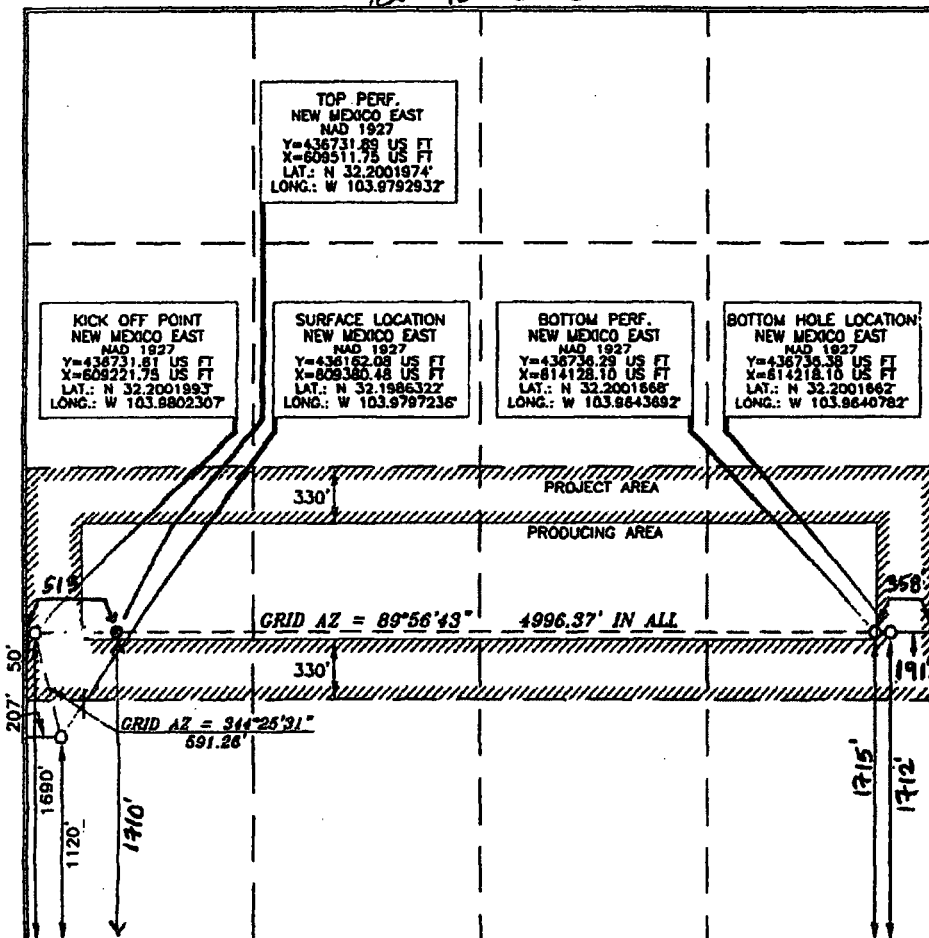
**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>I</b>	<b>22</b>	<b>24 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>1690'</b> <b>1712'</b>	<b>SOUTH</b>	<b>1715'</b> <b>1712'</b>	<b>EAST</b>	<b>EDDY</b>

Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>BP- 1715 FSL 358 FEL</b> <b>TP- 1710 FSL 513 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.

*2 1/2 5/2 Sec 22*



**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 undivided 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 approved by this division.

*11/30/16*  
*Jana Merchida*  
Printed Name  
*jana-merchida@oxy.com*  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the survey information on this plat was plotted from the original survey data made by me or under my supervision and that the same is true and correct to the best of my belief.

**ERRY J. AS**  
**15079**  
**NOVEMBER 9, 2015**  
Date of Survey  
Signature and Seal  
Professional Surveyor

*Tommy J. As*  
Certificate Number  
**15079**

NM OIL CONSERVATION  
ARTESIA DISTRICT

MAY 19 2017

DISTRICT I  
1025 N. FRANCH DR., MOORE, NM 88240  
Phone: (505) 392-6181 Fax: (505) 392-9720

DISTRICT II  
811 N. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 748-1222 Fax: (505) 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) 476-3463

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

Form C-102  
Revised August 1, 2011  
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District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-44190</b>	Pool Code <b>9623B</b>	Pool Name <b>Cornal Draw Bone Springs</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		1387	NORTH	180	EAST	EDDY

Dedicated Acres <b>160</b>	Joint or Infill <b>Y</b>	Consolidation Code	Order No. <b>NSL will be filed</b>
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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><b>SURFACE LOCATION</b> Y=438624.0 N X=645194.4 E LAT.=32.205409° N LONG.=103.997548° W</p> <p><b>KICK OFF POINT</b> Y=439001.1 N X=645105.1 E LAT.=32.206446° N LONG.=103.997833° W</p> <p><b>PROPOSED BOTTOM HOLE LOCATION</b> Y=439027.2 N X=650170.7 E LAT.=32.206473° N LONG.=103.981455° W</p> <p><b>TOP PERE</b> Y=439002.6 N X=645395.1 E LAT.=32.206464° N LONG.=103.996895° W</p> <p><b>BOTTOM PERE</b> Y=439026.3 N X=650010.7 E LAT.=32.206472° N LONG.=103.981972° W</p> <p><b>POINT LEGEND</b></p> <table border="1"> <tr> <td>1</td> <td>Y=439080.4 N X=645055.4 E</td> </tr> <tr> <td>2</td> <td>Y=439088.4 N X=650350.8 E</td> </tr> <tr> <td>3</td> <td>Y=437761.8 N X=650353.2 E</td> </tr> <tr> <td>4</td> <td>Y=437733.8 N X=645049.4 E</td> </tr> </table> <p>* ALL COORDINATES ARE NAD 83 VALUES</p>	1	Y=439080.4 N X=645055.4 E	2	Y=439088.4 N X=650350.8 E	3	Y=437761.8 N X=650353.2 E	4	Y=437733.8 N X=645049.4 E	<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>Signature: <i>David Stewart</i> Date: <b>10/19/16</b> Printed Name: <b>David Stewart - Sr. Reg. Adm.</b> E-mail Address: <b>David.Stewart@oxy.com</b></p> <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><b>JULY 27, 2016</b> Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor:  <b>Chad L. HARCROW</b> 9/19/16 Certificate No. <b>CHAD HARCROW 17777</b> W.O. #16-725 DRAWN BY: CF</p>
1	Y=439080.4 N X=645055.4 E								
2	Y=439088.4 N X=650350.8 E								
3	Y=437761.8 N X=650353.2 E								
4	Y=437733.8 N X=645049.4 E								

NM OIL CONSERVATION  
ARTESIA DISTRICT

DISTRICT I  
1625 N. FRANCH DR., SHERBO, NM 87440  
Phone: (505) 282-4181 Fax: (505) 282-0780

DISTRICT II  
611 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 748-1223 Fax: (505) 748-0720

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-8176 Fax: (505) 334-9170

DISTRICT IV  
1820 E. ST. FRANCIS DR., SANTA FE, NM 87506  
Phone: (505) 476-3400 Fax: (505) 476-3402

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-05-44/91</b>	Pool Code <b>96238</b>	Pool Name <b>Cornal Draw Bone Springs</b>
Property Code <b>315207</b>	Property Name <b>CEDAR CANYON 21 FEDERAL COM</b>	Well Number <b>23H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2931.0</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		1824	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		2200	NORTH	180	EAST	EDDY

Dedicated Acres <b>160</b>	Joint or Infill <b>Y</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

9/24/16 Sec 21

<p><b>SURFACE LOCATION</b> Y=438564.0 N X=645194.1 E LAT.=32.205244° N LONG.=103.997550° W</p>	<p><b>BOTTOM PERE</b> Y=438213.3 N X=650012.3 E LAT.=32.204237° N LONG.=103.981976° W</p>	<p><b>PROPOSED BOTTOM HOLE LOCATION</b> Y=438214.2 N X=650172.3 E LAT.=32.204238° N LONG.=103.981459° W</p>	<p><b>OPERATOR CERTIFICATION</b> 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 unshared 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>Signature: <i>David Stewart</i> Date: <b>10/19/16</b> Printed Name: <b>David Stewart SR. Reg. Adv.</b> E-mail Address: <b>dwstewart@oxy.com</b></p>								
<p><b>KICK POINT</b> Y=438187.0 N X=645101.5 E LAT.=32.204208° N LONG.=103.997853° W</p>	<p><b>TOP PERE</b> Y=438188.6 N X=645391.5 E LAT.=32.204210° N LONG.=103.996916° W</p>	<p><b>POINT LEGEND</b></p> <table border="1"> <tr> <td>1</td> <td>Y=439080.4 N X=645055.4 E</td> </tr> <tr> <td>2</td> <td>Y=439088.4 N X=650350.8 E</td> </tr> <tr> <td>3</td> <td>Y=437761.6 N X=650353.2 E</td> </tr> <tr> <td>4</td> <td>Y=437733.9 N X=645049.4 E</td> </tr> </table>	1	Y=439080.4 N X=645055.4 E	2	Y=439088.4 N X=650350.8 E	3	Y=437761.6 N X=650353.2 E	4	Y=437733.9 N X=645049.4 E	<p><b>SURVEYOR CERTIFICATION</b> 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><b>JULY 27 2016</b> Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor <i>Chad L. HARCROW</i> <b>CHAD L. HARCROW</b> NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR</p> <p>Certificate No. <b>CHAD HARCROW 17777</b> W.O. #16-726 9/19/16 DRAWN BY: CF</p>
1	Y=439080.4 N X=645055.4 E										
2	Y=439088.4 N X=650350.8 E										
3	Y=437761.6 N X=650353.2 E										
4	Y=437733.9 N X=645049.4 E										

\* ALL COORDINATES ARE NAD 83 VALUES

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**DISTRICT I**  
1835 N. FRANCHIS DR., BOBBS, NM 88210  
Phone: (505) 334-8176 Fax: (505) 334-8176

**DISTRICT II**  
511 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 746-1883 Fax: (505) 746-9790

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-8176 Fax: (505) 334-8176

**DISTRICT IV**  
1250 S. ST. FRANCIS DR., SANTA FE, NM 87506  
Phone: (505) 476-5400 Fax: (505) 476-5400

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

MAY 15 2017

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Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-44181</b>	Pool Code <b>96233</b>	Pool Name <b>Cornal Draw Bone Springs</b>
Property Code <b>315207</b>	Property Name <b>CEDAR CANYON 21 FEDERAL COM</b>	Well Number <b>21H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2928.2'</b>

**Surface Location**

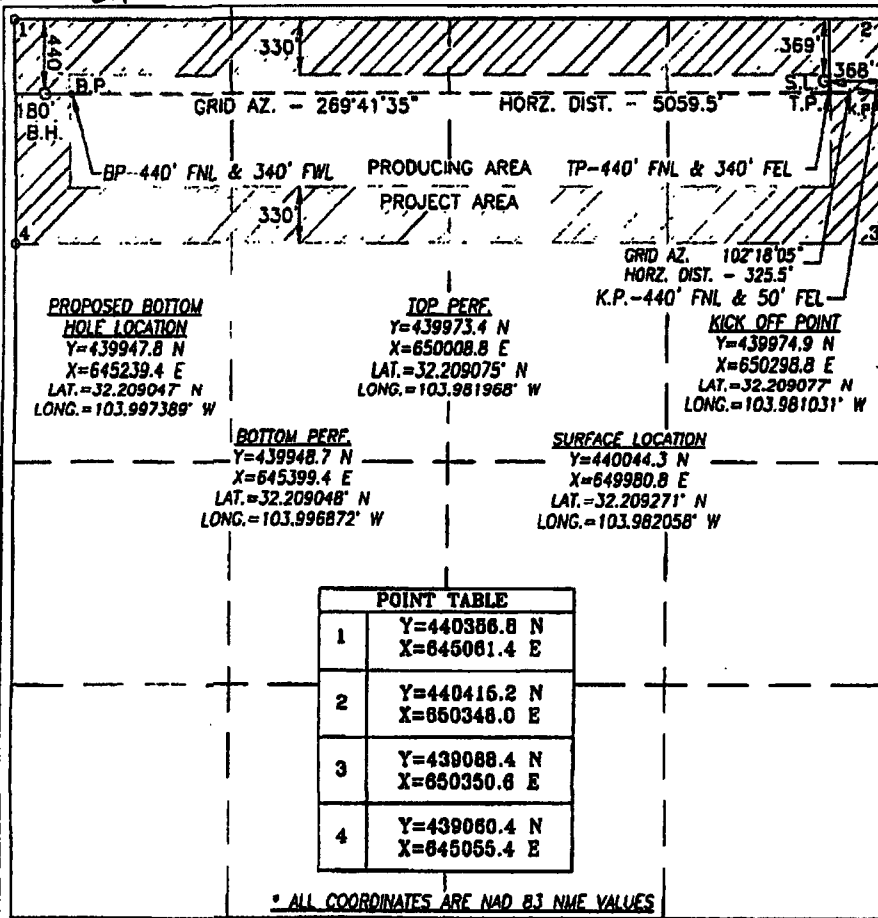
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	24-S	29-E		369	NORTH	368	EAST	EDDY

**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	NORTH	180	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160	2		

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: 11/10/16  
Printed Name: David Stewart Sr. Reg. 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.

JULY 27, 2016

Date of Survey

Signature & Seal of Professional Surveyor



Chad L. Harcrow 10/12/16  
Certificate No. CHAD HARCROW 17777  
W.O. 116-802 DRAWN BY: AM

DISTRICT I  
1020 N. FRANKLIN DR., ROSA, NM 87540  
Phone: (505) 333-4141 Fax: (505) 333-0720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 745-1243 Fax: (505) 745-0720

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-0178 Fax: (505) 334-0170

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

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

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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>3005-44176</b>	Pool Code <b>98220</b>	Pool Name <b>Purple Sage Wolfcamp (gas)</b>
Property Code <b>312654</b>	Property Name <b>CEDAR CANYON 21-22 FEDERAL COM</b>	
OCRD No. <b>16694</b>	Operator Name <b>OXY USA INC.</b>	Well Number <b>32H</b>
		Elevation <b>2931.4'</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
E	21	24-S	29-E		1794	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	22	24-S	29-E		1700	NORTH	180	EAST	EDDY

Dedicated Acres <b>(640)</b>	Joint or Infill <b>Y</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><b>SURFACE LOCATION</b> Y=438594.1 N X=645194.2 E LAT.=32.205326° N LONG.=103.997549° W</p>				<p><b>KICK OFF POINT</b> Y=438687.1 N X=645103.7 E LAT.=32.205583° N LONG.=103.997841° W</p>				<p><b>TOP PERE</b> Y=438688.6 N X=645393.7 E LAT.=32.205584° N LONG.=103.996903° W</p>				<p><b>BOTTOM PERE</b> Y=438712.9 N X=655307.1 E LAT.=32.205562° N LONG.=103.964852° W</p>																					
<p><b>POINT LEGEND</b></p> <table border="1"> <tr> <td>1</td><td>Y=439080.4 N X=645056.4 E</td> <td>4</td><td>Y=437768.8 N X=655649.8 E</td> <td>7</td><td>Y=440386.8 N X=645081.4 E</td> </tr> <tr> <td>2</td><td>Y=439088.4 N X=650350.8 E</td> <td>5</td><td>Y=437761.8 N X=650363.2 E</td> <td>8</td><td>Y=440415.2 N X=650348.0 E</td> </tr> <tr> <td>3</td><td>Y=439085.7 N X=655648.1 E</td> <td>6</td><td>Y=437733.9 N X=645049.4 E</td> <td>9</td><td>Y=440412.7 N X=655642.5 E</td> </tr> </table>																1	Y=439080.4 N X=645056.4 E	4	Y=437768.8 N X=655649.8 E	7	Y=440386.8 N X=645081.4 E	2	Y=439088.4 N X=650350.8 E	5	Y=437761.8 N X=650363.2 E	8	Y=440415.2 N X=650348.0 E	3	Y=439085.7 N X=655648.1 E	6	Y=437733.9 N X=645049.4 E	9	Y=440412.7 N X=655642.5 E
1	Y=439080.4 N X=645056.4 E	4	Y=437768.8 N X=655649.8 E	7	Y=440386.8 N X=645081.4 E																												
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3	Y=439085.7 N X=655648.1 E	6	Y=437733.9 N X=645049.4 E	9	Y=440412.7 N X=655642.5 E																												
<p><b>PROPOSED BOTTOM HOLE LOCATION</b> Y=438712.8 N X=655467.1 E LAT.=32.205560° N LONG.=103.964335° W</p>																																	
<p>* ALL COORDINATES ARE NAD 83 NME VALUES</p>																																	

**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: *David Stewart* Date: **2/27/17**

Printed Name: **David Stewart SR. Reg. 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.

**JULY 27, 2016**

Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow 10/13/16  
Certificate No. CHAD HARCROW 17777  
W.O. #16-804 DRAWN BY: AM

M2 Section 22  
M2 Section 23

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

MAY 15 2017

Form C-102

Revised August 1, 2011

Supervise by appropriate District Office

**DISTRICT I**

1022 N. FRENCH DR., BOHRS, NM 88040  
Phone: (505) 363-8181 Fax: (505) 363-8720

**DISTRICT II**

511 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 748-1253 Fax: (505) 748-0720

**DISTRICT III**

1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6175 Fax: (505) 334-6170

**DISTRICT IV**

1200 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

☒ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30015-44182</b>	Pool Code <b>98220</b>	Pool Name <b>Purple Sage Wolfcamp</b>
Property Code <b>315207</b>	Property Name <b>CEDAR CANYON 21 FEDERAL COM</b>	Well Number <b>31H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>2928.2'</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	21	24-S	29-E		339	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		380	NORTH	180	WEST	EDDY

Dedicated Acres <b>1370</b>	Joint or Infill <b>Y</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><b>PROPOSED BOTTOM HOLE LOCATION</b> Y=440007.8 N X=645239.7 E LAT.=32.209212° N LONG.=103.997388° W</p>		<p><b>TOP PERF.</b> Y=440033.4 N X=650008.7 E LAT.=32.209240° N LONG.=103.981968° W</p>		<p><b>SURFACE LOCATION</b> Y=440074.22 N X=649980.8 E LAT.=32.209353° N LONG.=103.982058° W</p>													
<p><b>BOTTOM PERF.</b> Y=440008.7 N X=645399.7 E LAT.=32.209213° N LONG.=103.996871° W</p>		<p><b>POINT LEGEND</b></p> <table border="1"> <tr> <td>1</td><td>Y=440328.0 N X=603877.4 E</td> <td>4</td><td>Y=439081.8 N X=603871.4 E</td> </tr> <tr> <td>2</td><td>Y=440356.3 N X=609184.0 E</td> <td>5</td><td>Y=437675.1 N X=603885.4 E</td> </tr> <tr> <td>3</td><td>Y=439028.8 N X=609166.8 E</td> <td>6</td><td>Y=437702.8 N X=609189.1 E</td> </tr> </table>		1	Y=440328.0 N X=603877.4 E	4	Y=439081.8 N X=603871.4 E	2	Y=440356.3 N X=609184.0 E	5	Y=437675.1 N X=603885.4 E	3	Y=439028.8 N X=609166.8 E	6	Y=437702.8 N X=609189.1 E	<p><b>KICK OFF POINT</b> Y=440034.9 N X=650298.7 E LAT.=32.209242° N LONG.=103.981031° W</p>	
1	Y=440328.0 N X=603877.4 E	4	Y=439081.8 N X=603871.4 E														
2	Y=440356.3 N X=609184.0 E	5	Y=437675.1 N X=603885.4 E														
3	Y=439028.8 N X=609166.8 E	6	Y=437702.8 N X=609189.1 E														

**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 unless 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: David Stewart Date: 2/21/17

Printed Name: David Stewart Sr. Rep. NM


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.

JULY 27, 2016  
Date of Survey

Signature & Seal of Professional Surveyor



10/13/16  
Certificate No. CHAD HARCROW 17777  
W.O. #16-803 DRAWN BY: AM



**OXY USA WTP Limited Partnership / OXY USA INC /  
OCCIDENTAL PERMIAN LTD**  
A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046  
P.O. Box 4294, Houston, Texas 77210-4294  
Direct: 713.366.5106  
Sandra\_Musallam@oxy.com

August 16, 2017

**Re: Production of Wells Going to Cedar Canyon 23 Federal 3H Battery & Cedar Canyon 21 Federal Battery**

**Leases: NM 13996, NM 81586, NM 85893, NM 86550, NM 86908, NM 88138, NM 93477  
Eddy County, New Mexico**

Dear Mr. McMillan:

Regarding the submitted commingle application amendment for previously approved Order R-14299, the production decline of all of the wells going to Cedar Canyon 23 Federal 23H Battery and Cedar Canyon 21 Federal Battery are in accordance with the production decline presented in the Order.

For questions regarding this application, please contact me at (713) 366-5106.

Respectfully,

*Sandra Musallam*

**OXY USA INC  
Sandra Musallam  
Regulatory Engineer  
Sandra\_musallam@oxy.com**

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**Ken McQueen**  
Cabinet Secretary

**Matthias Sayer**  
Deputy Cabinet Secretary

**David R. Catanach, Division Director**  
Oil Conservation Division



September 27, 2017

**ADMINISTRATIVE POOL/LEASE COMMINGLING ORDER**

Administrative Order PLC-483  
Administrative Application Reference No. pMAM1724945293

**OXY USA, Inc.**  
Attention: Ms. Sandra Mussallam

Pursuant to your application received on September 6, 2017, OXY USA, Inc. (OGRID 16696) is hereby authorized to surface commingle oil and gas production from the following pools:

PIERCE CROSSING; BONE SPRING, EAST	(96473)
CORRAL DRAW; BONE SPRING	(96238)
PURPLE SAGE; WOLFCAMP (GAS)	(98220)

and from wells, and their associated leases and pools identified in Attachment No. A and made part of this order. These wells are located on federal leases in Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico.

Production from the subject wells shall be determined as follows:

It is understood that the test separator and meters are designed to accurately measure production from the wells with the highest production rate. It is also assumed that all of the oil and gas production from the wells in this application will display a hyperbolic decline, and will fit the decline parameters described in Hearing Order R-14299. Wells that are in Range 1 of decline shall be measured separately. Wells that are in Range 2 of decline shall be measured with a combination of metering and well testing, and shall be tested at least twice a month. Wells in Range 3 of decline shall be measured with a combination of metering and well testing, and shall be tested at least once a month.

OXY USA, Inc. shall provide a Sundry Notice to the Engineering Bureau in Santa Fe when a test separator is removed.

Cedar Canyon 21 Battery

The commingled oil and gas production from the wells in Attachment A for the Cedar Canyon 21 Battery shall be measured and sold at the Cedar Canyon 21 Battery (Cedar Canyon 21 CTB)

located in Unit P of Section 21, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico. Initially, all of the wells shall be continuously metered for oil and gas production, because the wells are in Range 1 decline as specified in Hearing Order R-14299. The Cedar Canyon 21 CTB shall have a minimum of three permanent test separators.

The Cedar Canyon 21 CTB shall be a Facility Measurement Point (FMP) for oil production for all wells in this administrative application.

#### **Cedar Canyon 23-3H Battery**


The commingled oil and gas production from the wells in Attachment A for the Cedar Canyon 23-3H Battery shall be measured at the Cedar Canyon 23-3H Central Tank Battery (Cedar Canyon 23-3H CTB) located in in Unit I of Section 22, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico. The Cedar Canyon 23-3H CTB will be equipped with a total of eight three-phase separators initially, and two of them will be removed once the wells have declined sufficiently below Range 1 decline, as specified in Hearing Order R-14299. The gas will be measured at the Cedar Canyon 23-3H CTB, which will be the Facility Measurement Point for those wells. Lastly, after the oil production is measured, it will flow to the Cedar Canyon 21 CTB where it will be sold.

The allocation meters shall be calibrated quarterly in accordance with Rule 19.15.12.10.C (2) NMAC.

This installation shall be installed and operated in accordance with the applicable Division Rules. It is the responsibility of the producer to notify the transporter of this commingling authority.

**This approval is subject to like approval from Bureau of Land Management a before commencing commingling operations.**

The operator shall notify the Artesia District office of the Division prior to implementation of the commingling operations.

  
**DAVID R. CATANACH**  
Director

DRC/mam

cc: Oil Conservation Division District Office – Artesia  
Bureau of Land Management – Carlsbad

Attachment A

## Attachment A: Cedar Canyon wells

OXY						
CEDAR CANYON 23-3H BATTERY						
Well Name	API	Surface Location	Project Area	Pool	Pool Name	Range
Cedar Canyon 22 Fed 21H	30-015-43642	I-22-24S-29E	S/2 N/2 SEC 22	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23-24 Fed 31H	30-015-44179	A-22-24S-29E	N/2 N/2 SEC 23, N/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23-24 Fed 32H	30-015-44180	A-22-24S-29E	S/2 N/2 SEC 23, S/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 22 Fed Com 4H	30-015-43708	I-22-24S-29E	N/2 S/2 SEC 22	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed 3H	30-015-43290	I-22-24S-29E	N/2 S/2 SEC 23, N/2 SW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed 4H	30-015-43281	H-22-24S-29E	S/2 N/2 SEC 23, S/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	3
Cedar Canyon 23 Fed 5H	30-015-43282	A-22-24S-29E	N/2 N/2 SEC 23, N/2 NW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	3
Cedar Canyon 23 Fed Com 6H	30-015-44095	I-22-24S-29E	S/2 SEC 23, SW/4 SEC 24	96473	Pierce Crossing; Bone Spring E	1
Cedar Canyon 23 Fed Com 33H	30-015-44074	I-22-24S-29E	S/2 SEC 23, SW/4 SEC 24	96473	Purple Sage; Wolfcamp	1

CEDAR CANYON 21 BATTERY						
Well Name	API	Surface Location	Project Area	Pool	Pool Name	Range
Cedar Canyon 22 Fed Com 5H	30-015-43758	M-22-24S-29E	N/2 S/2 SEC 22	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 22 H	30-015-44190	E-21-24S-29E	S/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 23 H	30-015-44191	E-21-24S-29E	S/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21 Fed Com 21 H	30-015-44181	A-21-24S-29-E	N/2 N/2 SEC 21	96238	Corral Draw; Bone Spring	1
Cedar Canyon 21-22 Fed Com 32H	30-015-44176	E-21-24S-29E	N/2 SEC 21, N/2 Sec 22	96473	Purple Sage; Wolfcamp	1
Cedar Canyon 21 Fed Com 31H	30-015-44182	A-21-24S-29-E	N/2 SEC 21	98220	Purple Sage; Wolfcamp	1

Range is the stage of decline of each well based on parameters specified in Hearing Order R-14299