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

APPLICATION OF OXY U.S.A. INC. FOR AUTHORIZATION TO INJECT AND CREATION OF AN ENHANCED OIL RECOVERY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

NOTICE OF SUPPLEMENTAL EXHIBITS

OXY USA INC. applicant in the above-referenced case, gives notice that it is filing the attached supplemental hearing exhibit packet into the record. At the hearing in this case on January 9, 2025, the Division Technical Examiners asked OXY to provide supplemental exhibits addressing Division questions on the proposed Pilot Project. The case was continued to a special docket on February 4, 2025 in order to allow the Division Technical Examiners to review the supplemental exhibits and ask OXY's witnesses any follow-up questions. Accordingly, OXY files the following supplemental exhibits and requests that they be accepted into the record in this case:

Supplemental Exhibit C: Supplemental Self-Affirmed Statement of Eduardo Seoane, Completions Engineer;

Supplemental Exhibit D: Supplemental Self-Affirmed Statement of Xueying Xie, Reservoir Engineer.

Supplemental Exhibit D-1: Reservoir Simulation.

Respectfully submitted,

HOLLAND & HART LLP

Bv

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ATTORNEYS FOR OXY USA INC.

BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING JANUARY 9, 2025

CASE No. 25054

IWM PILOT

EDDY COUNTY, NEW MEXICO



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

APPLICATION OF OXY U.S.A. INC. FOR AUTHORIZATION TO INJECT AND CREATION OF AN ENHANCED OIL RECOVERY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

HEARING PACKAGE TABLE OF CONTENTS

- OXY Exhibit A: Application
- OXY Exhibit B: Updated and Additional Exhibits
- OXY Exhibit C: Supplemental Self-Affirmed Statement of Eduardo Seoane, Completions Engineer
- **OXY Exhibit D: Supplemental** Self-Affirmed Statement of Xueying Xie, Reservoir Engineer.
- OXY Exhibit D-1: Reservoir Simulation
- OXY Exhibit E: Notice of Affidavit
- OXY Exhibit F: Affidavit of Publication

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

APPLICATION OF OXY U.S.A. INC. FOR AUTHORIZATION TO INJECT AND CREATION OF AN ENHANCED OIL RECOVERY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

APPLICATION

OXY USA Inc. (OGRID No. 16696) through its undersigned attorneys, hereby files this application with the New Mexico Oil Conservation Division for an order authorizing OXY to

inject for purposes of an enhanced oil recovery ("EOR") pilot project in the Second Bone Spring

Sand interval within the Bone Spring formation ("Pilot Project") in Eddy County, New Mexico.

In support of this application, OXY states:

PROJECT SUMMARY

1. OXY proposes to initiate an Intra-Well Miscibility ("IWM") EOR injection pilot

project within a single existing horizontal well completed in the Second Bone Spring Sand interval

within the Bone Spring formation, dedicated to a proposed project area comprised of

approximately 960-acres, more or less, in Eddy County, New Mexico (the "Project Area"), as

follows:

NMPM: Township 24 South, Range 31 East

Section 17:

W/2

Section 18:

E/2 W/2; E/2

2. Intra-well Miscibility ("IWM") is an Enhanced Oil Recovery ("EOR") technique

that uses miscible gas, produced hydrocarbon gas in this project, as an injectant to sweep the pore

space of the depleted reservoir around a single horizontal wellbore that simultaneously serves as

BEFORE THE OIL CONSERVATION DIVISION

both the injection and production well. In this Pilot Project, injection and production are proposed to be conducted at the same time from a single well selected from among the six candidate wells within the Project Area.

- 3. While OXY anticipates that injection of produced gas into the selected IWM injection well will enhance hydrocarbon recovery from the same well, this is a new EOR technique. Accordingly, OXY seeks approval of this injection as a Pilot Project.
- 4. The interval that will benefit from the proposed EOR injection constitutes the Second Bone Spring Sand interval within the Bone Spring formation being the stratigraphic equivalent of approximately 9,819 true vertical feet (9,824 feet measured depth) to approximately 10,303 true vertical feet (10,308 feet measured depth) at the top of the Third Bone Spring Lime, as identified in the **Patton MDP1 "18" Federal 6H** (API No. 30-015-43854).
- 5. An overview of the proposed IWM EOR Pilot Project is attached and incorporated as **Exhibit A**. It contains all the information necessary to authorize injection for purposes of EOR, including a Form C-108.
- 6. OXY requests authority to initiate this proposed Pilot Project to evaluate the feasibility of IWM EOR. Benefits of IWM EOR that OXY anticipates confirming include: (1) not disturbing additional surface; (2) making use of existing infrastructure and wellbores while avoiding waste and increasing recovery; and (3) avoiding the need for unitization by conducting EOR injection and production operations within a single wellbore.
 - 7. OXY requests authorization to operate this Pilot Project for a period of five years.
- 8. OXY seeks authority to use one of the following six existing horizontal wells within the Project Area to serve as the IWM EOR injection well that will inject produced gas into the Bone Spring formation:

- a. The **Patton MDP1 "18" Federal 5H** (API No. 30-015-44272)[‡] with a surface hole location 160 feet FNL and 285 feet FEL (Unit A) in Section 18, Township 24 South, Range 31 East, and a bottom hole location 20 feet FSL and 1,035 feet FEL (Unit P) in Section 18, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico;
- b. The **Patton MDP1 "17" Federal 1H** (API No. 30-015-44459)[‡] with a surface hole location 170 feet FNL and 846 feet FWL (Unit M) in Section 8, Township 24 South, Range 31 East, and a bottom hole location 196 feet FSL and 484 feet FWL (Unit M) in Section 17, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico;
- c. The **Patton MDP1 "18" Federal 3H** (API No. 30-015-44333)[‡] with a surface hole location 170 feet FNL and 1,928 feet FWL (Unit C) in Section 18, Township 24 South, Range 31 East, and a bottom hole location 200 feet FSL and 2,513 feet FWL (Unit N) in Section 18, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico;
- d. The **Patton MDP1 "18" Federal 7H** (API No. 30-015-44273)[‡] with a surface hole location 150 feet FNL and 255 feet FEL (Unit A) in Section 18, Township 24 South, Range 31 East, and a bottom hole location 51 feet FSL and 402 feet FEL (Unit P) in Section 18, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico;

[‡] These wells are currently under an existing Closed-Loop Gas Capture Pilot Project Order (Order No. R-22208). If any one of them is selected as the IWM EOR injection well, OXY will remove it from Order No. R-22208, as a condition of approval and authorization to commence injection under this Pilot Project.

- e. The **Patton MDP1 "17" Federal 2H** (API No. 30-015-44460) with a surface hole location 170 feet FNL and 906 feet FWL (Unit M) in Section 8, Township 24 South, Range 31 East, and a bottom hole location 26 feet FSL and 1,269 feet FWL (Unit M) in Section 17, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico; and
- f. The **Patton MDP1 "17" Federal 3H** (API No. 30-015-44496) with a surface hole location 432 feet FSL and 2,232 feet FWL (Unit N) in Section 8, Township 24 South, Range 31 East, and a bottom hole location 195 feet FSL and 2,205 feet FWL (Unit N) in Section 17, Township 24 South, Range 31 East, NMPM, Eddy, New Mexico.
- 9. The **Patton MDP1 "18" Federal 5H** (API No. 30-015-44272) is the preferred candidate for IWM EOR injection at this time; however, OXY is continuing to evaluate the five other potential candidate injection wells within the Project Area. OXY therefore requests authorization to inject for all six candidate wells even though OXY intends to inject into only one well for purposes of this Pilot Project.
- 10. The maximum allowable surface injection pressure ("MASP") for the Pilot Project is proposed to be 4,590 psi.
- 11. The proposed average daily injection rate is expected to be approximately 1.5 MMSCF/day with an expected maximum injection rate of 3 MMSCF/day. The estimated maximum injection rate will be limited by the injection assembly in the selected well.
- 12. Injection along the horizontal portion of the selected wellbore will be in the Second Bone Spring Sand interval within Bone Spring formation through existing perforations and at the following approximate true vertical depth in one of the following wells:

- a. The **Patton MDP1 "18" Federal 5H** between 9,950 feet and 9,995 feet, within the Cotton Draw, Bone Spring [Pool Code 13367];
- b. The **Patton MDP1 "17" Federal 1H** between 9,982 feet and 9,983 feet, within the Cotton Draw, Bone Spring [Pool Code 13367];
- c. The **Patton MDP1 "18" Federal 3H** between 9,900 feet and 9,997 feet, within the Cotton Draw, Bone Spring [Pool Code 13367];
- d. The **Patton MDP1 "18" Federal 7H** between 10,020 feet and 10,040 feet, within the Corral Draw, Bone Spring [Pool Code 96238];
- e. The **Patton MDP1 "17" Federal 2H** between 9,987 feet and 9,994 feet, within the Cotton Draw, Bone Spring [Pool Code 13367]; and
- f. The **Patton MDP1 "17" Federal 3H** between 10,100 feet and 10,055 feet, within the Cotton Draw, Bone Spring [Pool Code 13367].
- 13. The source gas for injection will be from OXY's Sand Dunes South Corridor Central Tank Battery ("CTB") and will be comprised of gas produced from the Delaware, Bone Spring, and Wolfcamp pools. All leases and wells producing source gas for injection and the candidate IWM EOR injection wells within the Pilot Project are under a single permit authorizing surface commingling (PLC-989-A).
- 14. Additional source wells may be added over time under an approved surface commingling authorization. Each of OXY's proposed IWM EOR injection wells are operated by OXY.
- 15. Information on each of the candidate IWM EOR injection wells, including wellbore diagrams, identification and location information, casing and cementing details, tubing details, packers, perforation depths, and formations tops, are detailed in Injection Well Data Sheets.

- 16. Data, maps, and geologic analyses confirming that the Bone Spring formation, including the targeted injection interval, is suitable for the proposed EOR injection are included in **Exhibit A**. A general characterization of the geology of the Bone Spring formation and its suitability for the proposed injection, including identification of confining layers and their ability to prevent vertical movement of the injected gas is included in the analysis.
- 17. The top of the Bone Spring formation in this area is at approximately 6,878 feet total vertical depth in this area and extends down to the top of the Wolfcamp formation.
- 18. OXY has examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water.
- 19. A copy of this Application has been provided to all affected parties as required by Division Rules and notice of the hearing on this application will be provided in a newspaper of general circulation in Eddy County.
- 20. Approval of this application is in the best interests of conservation, the prevention of waste, and the protection of correlative rights. The Pilot Project is expected to result in the production of substantially more hydrocarbons from the Project Area than would otherwise be produced.

WHEREFORE, OXY USA Inc. requests that this Application be set for hearing before an Examiner of the Oil Conservation Division on January 9, 2025, and that after notice and hearing this Application be approved.

Respectfully submitted,

HOLLAND & HART LLP

By:

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ATTORNEYS FOR OXY USA INC.

CACE	
CASE	•
CASE	•

Application of OXY USA Inc. for Authorization to Inject and Creation of an Enhanced Oil Recovery Pilot Project, Eddy County, New Mexico. Applicant the seeks an order authorizing OXY to inject for purposes of an enhanced oil recovery ("EOR") pilot project in the Second Bone Spring Sand interval within the Bone Spring formation ("Pilot Project"), dedicated to a proposed project area comprised of approximately 960-acres, more or less, in Eddy County, New Mexico, (the "Project Area"), as follows:

Township 24 South, Range 29 East

Section 17: W/2

Section 18: E/2 W/2; E/2

Applicant proposes to initiate an Intra-Well Miscibility ("IWM") EOR injection pilot project within a single existing horizontal well. OXY seeks authority to use one of the following six existing horizontal wells within the Project Area to serve as the IWM EOR injection well:

- The **Patton MDP1 "18" Federal 5H** (API No. 30-015-44272);
- The **Patton MDP1 "17" Federal 1H** (API No. 30-015-44459);
- The **Patton MDP1 "18" Federal 3H** (API No. 30-015-44333);
- The **Patton MDP1 "18" Federal 7H** (API No. 30-015-44273);
- The **Patton MDP1 "17" Federal 2H** (API No. 30-015-44460); and
- The **Patton MDP1 "17" Federal 3H** (API No. 30-015-44496).

Applicant seeks authority to inject produced gas from the Delaware, Bone Spring, and Wolfcamp pools into the Second Bone Spring interval of the Bone Spring formation along the horizontal portion of one of the candidate wellbores between approximately 9,900 feet and 10,100 feet true vertical depth. The maximum allowable surface injection pressure is proposed to be 4,590 psi. The proposed average daily injection rate is expected to be approximately 1.5 MMSCF/day with an expected maximum injection rate of 3 MMSCF/day. The subject acreage is located approximately 3 miles southeast of Malaga, New Mexico.

EXHIBIT **A**

1

DECEMBER 2024

OXY REGULATORY



INTRA-WELL MISCIBILITY ("IWM")

EOR PILOT PROJECT



PROJECT OVERVIEW

Imaging: 1/29/2025/11:03:40/AMI

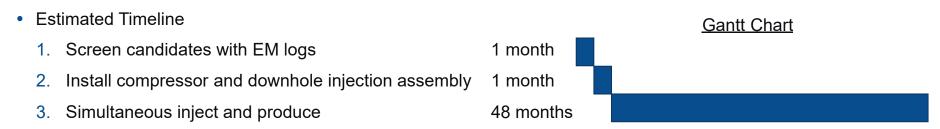
PROJECT OVERVIEW

Description

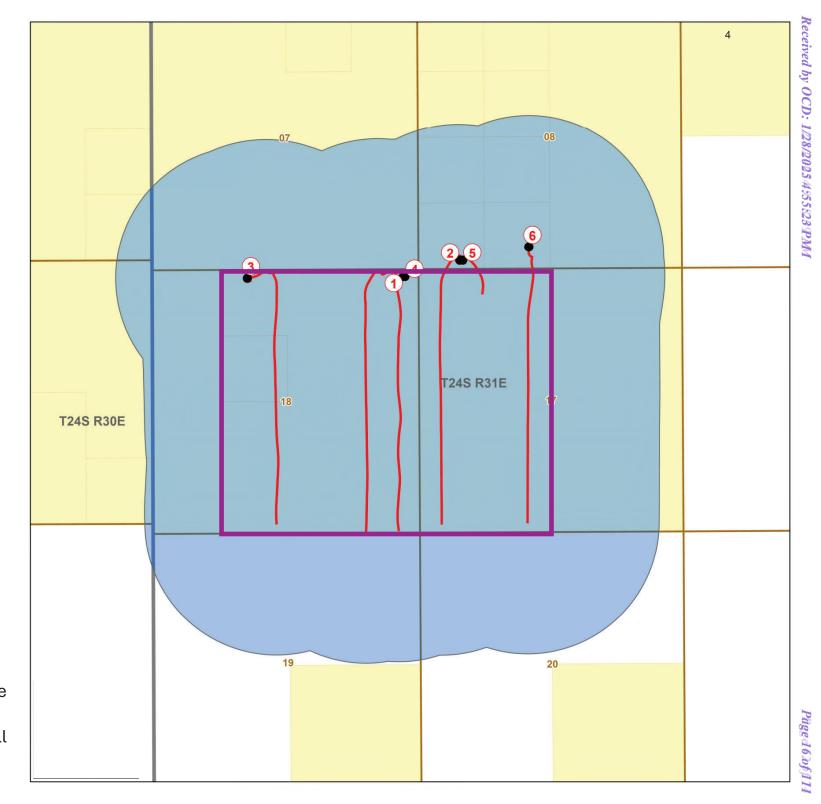
Intra-well Miscibility ("IWM") is an Enhanced Oil Recovery ("EOR") technique that utilizes miscible gas as an injectant to sweep the pore space of the depleted reservoir around a horizontal wellbore.

Benefits

- Simultaneous injection and production operations.
- Utilize existing infrastructure and wellbores.
- Single-well project
- No additional surface disturbances.
- Prevents waste of resources.





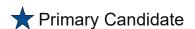


<u>Key</u> Project Area Outline Oxy Leasehold IWM Candidate well

1/2 Mile Buffer

CANDIDATE LIST AND REQUESTED RELIEF

Candidate Well List							
Well ID	API	Short Well Name	Comment				
1	30-015-44272	PATTON18-5H	CLGC well				
2	30-015-44459	PATTON17-1H	CLGC well				
3	30-015-44333	PATTON18-3H	CLGC well				
4	30-015-44273	PATTON18-7H	CLGC well				
5	30-015-44460	PATTON17-2H					
6	30-015-44496	PATTON17-3H					



- · Requested Relief:
 - 1. Pilot project approval for 5 years.
 - 6 candidate wells producing/injection from the Second Bone Spring Sand (~10,000 TVD) with one well selected for the pilot project.
 - 3. Authority to simultaneously inject produced, hydrocarbon gas while producing oil and gas.
 - 4. Max allowable surface pressure ("MASP") of 4590 psi for injecting produced, hydrocarbon gas.
 - 5. Mechanical Integrity Tests ("MIT")
 - Packer for MIT to be set below the top of the Bone Spring (~8100 ft TVD)
 - Post pilot project MIT to be ran after injection ends



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FQRM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery X Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes X No
II.	OPERATOR:OXY USA INC
	ADDRESS:P.O. BOX 4294, HOUSTON, TX, 77210-4294
	CONTACT PARTY: STEPHEN JANACEK PHONE: 972-404-3722
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. SEE ATTACHED.
IV.	Is this an expansion of an existing project?YesXNo If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. SEE ATTACHED.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. SEE ATTACHED.
VII.	Attach data on the proposed operation, including: SEE ATTACHED.
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; CLOSED Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. SEE ATTACHED.
IX.	Describe the proposed stimulation program, if any. NO STIMULATION PROGRAM PLANNED AT TIME OF APPLICATION.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. NOT INCLUDED.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME:STEPHEN JANACEKTITLE:REGULATORY ENGINEER
	SIGNATURE:
*	E-MAIL ADDRESS: STEPHEN JANACEK@OXY.COM If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include: SEE ATTACHED.
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated. SEE ATTACHED.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Pistite I
1625 N. French Dr., Hobbs, NM 88240
Phane: (575) 393-6161 Fax: (575) 393-0720
Pistine II.
811 S. First St., Astexia, NM 88210
Phane: (575) 748-1283 Fax: (575) 748-9720
Phane: (575) 748-1283 Fax: (575) 748-9720
Phane: (585) 334-6178 Fax: (595) 334-6170
Pistine III.
1000 Riv Brazus Rosel, Aztec, NM 87410
Pistine IV.
1220 S. S. Francis Dr., Samus Fa, NM 87505
Pame: (595) 476-3462 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

WO# 160609WL-a-XY (Rev. A) (KA)

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code 30-015-44272 13367 Cotton Draw; Bone spring Property Code Property Name Well Number 316483 PATTON MDP1 "18" FEDERAL 5HOGRID No. Operator Name Elevation 16696 OXY USA INC. 3523.8 Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 18 24 SOUTH A 31 EAST, N.M.P.M. 150' NORTH 285 EAST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 20' P 24 SOUTH 31 EAST, N.M.P.M. SOUTH 1035' **EAST EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 160 NSL-7524, TP: 358 FNL 1026 FEL, BP: 358 FSL 1024 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. Y=445837.29 US FT X=703668.56 US FT X=445830.67 US FT 50 OPERATOR CERTIFICATION KICK OFF POINT NEW MEXICO EAST NAO 1983 Y=445782.10 US FT X=702631.81 US FT ation contained herein is true and 1035 te best of my knowledge and belief, and that this LAT.: N 32.2244552 LONG.: W 103.8117376 TOP PERF. NEW MEXICO EAST NAD 1983 Y=445492.11 US FT X=702633.11 US FT LAT.: N 32.2236580 LONG.: W 103.8117379 ⋛ Notebell 11/27/17 AZ = 277°18'28 756.59' Sarah Mitchell SURFACE LOCATION NEW MEXICO EAST NAD 1983 Y=445685.86 US FT X=703382.25 US FT LAT: N 32.2241806 LONG: W 103.8093124* sarah_mitchell@oxy.com 330 E-mail Address X=443195.48 US FI SURVEYOR CERTIFICATION I hereby o BOTTOM PERF. NEW MEXICO EAST NAD 1983 Y=440888.01 US FT X=702653.81 US FT of Retition of Armal surveys the my super tition, and that the breed to the best of one belief. plat was p made by LAT.: N 32.2110020 LONG.: W 103.8117432 POVEY 15079 Date of Professional St **ESSIONAL** BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 Y=440728.01 US FT X=702654.52 US FT LAT.: N 32.2105622' LONG:: W 103.8117434' 1024

> Y=440546.64 US FT X=702370.97 US FT

X=440552.99 US FT

9

Daniel 1
1621 N. Franch Dr., 11580a, ISM \$1240
Phane: (375) 391-6161 Fav. (375) 391-0720
District II.
811 S. Fort St., Artena, NM \$8210
Phone: (375) 745-1231 Fav. (375) 745-9720
District III.
1000 Rao Brania Road, Arten, NM \$7410
Phone: (395) 334-6173 Fav. (395) 334-6170
District III.
1201 S. St. Franch Br., Sans Fe, NM \$7305
Phone: (395) 476-1446 Fav. (395) 476-1425

State of New Mexico NM OIL CONSERVATION

State of New Mexico NM OIL CONSERVATION

Energy, Minerals & Natural Resources Department?

OIL CONSERVATION DIVISION

1220 South St. Francis Department of CELVERY

1220 South St. Francis Dr. Santa Fe, NM 87505 Revised August 1, 2011
Submit one copy to appropriate
District Office

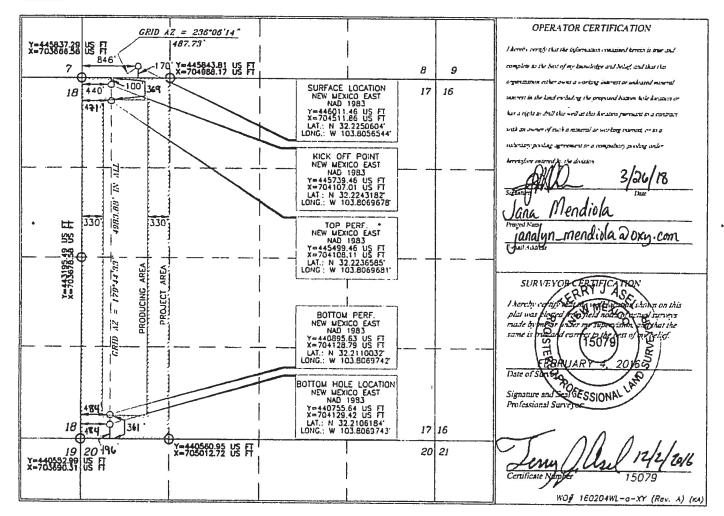
AMENDED REPORT

(AS-Dalled)

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Coffon Draw Bone 30-015-44459 3367 Property Code Ргорену Кате Well Number 319619 PATTON MDP1 "17" FEDERAL 1HOGRID No. Operator Name Elevation 16696 OXY USA INC. 3529.5

Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North South line Feet from the East/West line County M 8 24 SOUTH 31 EAST, N.M.P.M. 170' SOUTH 846 WEST EDDY Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North South line Feet from the East West line County M 17 24 SOUTH 31 EAST, N.M.P.M. SOUTH 988 WEST EDDY 484 Dedicated Acres Joint or Infill Consolidation Code -Order No. BP- 361 FSL 484 FWL 160 TP- 369 FNL 471 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.



<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Arresis, NM 88210 Phones (575) 748-1283 Fax: (575) 742-9720 Patent (3/3) PRO-1220 FIRE (3/3) PRO-1/20 District III 1000 Run Brazus Razel, Artee, NM 87410 Phazes (505) 324-6178 Fax: (505) 334-6170 District IV. 1220 S. St. Francis Dr., Scotts Fe, NM 87505 Phazes: (505) 476-3460 Fax: (505) 476-3462

16696

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-Dilled)

> > 3534.0'

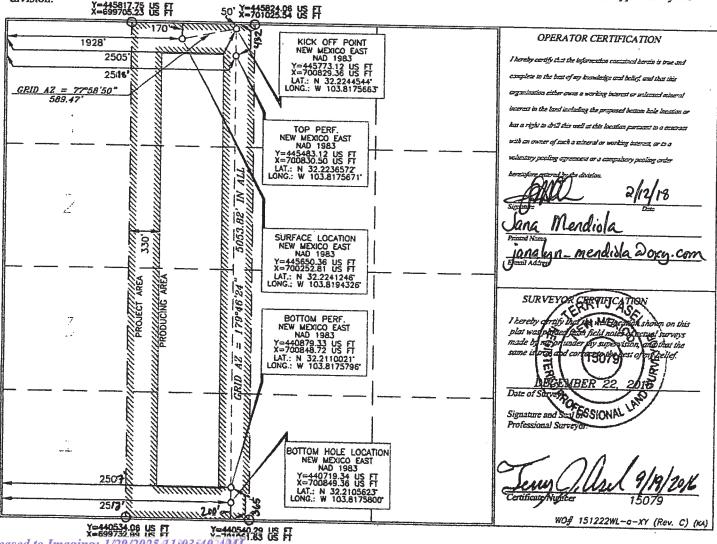
WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Cotton Draw 30-015-44333 13367 Property Code Property Name 316483 Well Number PATTON MDP1 "18" FEDERAL 3HOGRID No. Operator Name Elevation

Surface Location UL or lot no. Section Range Township Lot Idn Feet from the North South line | Feet from the East/West line County C 18 24 SOUTH 31 EAST, N.M.P.M. NORTH 1928' WEST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North South line East/West line County 18 24 SOUTH 31 EAST, N.M.P.M. **EDDY**

OXY USA INC.

300 200 SOUTH WEST Dedicated Acres Joint or Infill Consolidation Code Order No. BP- 365 FSL 2507 FWL 160 NSL-7523 TP- 432 FNL 2518 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.



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<u>District I</u>
1623 N. French Dr., Hobbs, NM 88240
Phame (575) 393-6161 Fax: (575) 393-0720
<u>District II.</u>
811 S. Frirs St., Artexia, NM 88210
Phame (575) 748-1283 Fax: (575) 748-9720
<u>District III.</u>
1000 Rio Branns Road, Aztec, NM 87410
Phame: (505) 334-6178 Fax: (505) 334-6170
<u>District IV.</u>
1220 S. St. Fenneis Dr., Santo Re, NM 87505
Phame: (505) 476-3460 Fax: (525) 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

As Drilled WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 30-015-44273 Cotton Draw; Bone Spring 13367 Property Code 316483 Property Name Well Number PATTON MDP1 "18" FEDERAL 7H OGRID No. Operator Name Elevation 16696 OXY USA INC. 3524.1 Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 18 A 24 SOUTH 31 EAST, N.M.P.M. 150' NORTH 255 EAST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Townshin Lot Idn Feet from the North/South line Feet from the East/West line County 51' P 24 SOUTH 402 18 31 EAST, N.M.P.M. SOUTH **EAST EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 160 TP: 359' FNL 419' FEL BP: 360' FSL 402' 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. X=445837.28 US FI Y=445830.67 US FT 150 OPERATOR CERTIFICATION KICK OFF POINT NEW MEXICO EAST NAD 1983 Y=445785.39 US FT X=703286.80 US FT 380 LAT.: N 32.2244554° LONG.: W 103.8096195° GRID AZ TOP PERF. NEW MEXICO EAST NAD 1983 Y=445495.39 US FT X=703288.10 US FT ≷ Natebell 11/28/17 LAT.: N 32.2236583 LONG.: W 103.8096198 5054.28 Sarah Mitchell SURFACE LOCATION NEW MEXICO EAST NAD 1983 Y=445686.01 US FT X=703412.25 US FT sarah_mitchell@oxy.com 330 E-mail Address PX=#3196.58 LE FI LAT.: N 32.2241806 LONG.: W 103.8092153 AREA 33 SURVEYOR CERTIFICATION cepting the the well to believe shown on this planted from first party to the child surveys mayor the child surveys mayor their my super to the best of they belief. BOTTOM PERF. NEW MEXICO EAST NAO 1983 Y=440891.16 US FT X=703308.80 US FT s glowed from Vallington mayor grown my super to mayor grown my super to the and correct to the hown on this plat was 11 made bu AZ

LAT.: N 32.2110019* LONG.: W 103.8096254*

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
Y=440731.16 US FT
X=703309.52 US FT

LAT.: N 32.2105621° LONG.: W 103.8096256°

STE

Signature and Sor

Certificate Numb

15079

ESIONAL LAND

WO# 160609WL-b-XY (Rev. A) (KA)

Destrict 1
Incl. N. French Dr., Hobbs, NM 88240
Phase: (\$75) 193-6161 Fax: (\$75) 193-670
Oristical II.
\$11.5 Feat St., Artesis, NM 88210
Phase: (\$73) 745-120 Fax: (\$73) 745-970
District III
IOO Ris Brauss Road, Artes, NM 87410
Phase: (\$90) 134-6170 Fax: (\$93) 134-6170
District IV
I-220 S. St. Francis Dr., Statu Fe, NM 87805
Phase: (\$90) 476-3460 Fax: (\$90) 476-3462

State of New Mexicon ARTESIA DISTRICT

State of New Mexicon ARTESIA DISTRICT

6 2018

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Revised August 1, 2011
Revised August 1, 2011
Revised August 1, 2011
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District Office

AMENDED REPORT

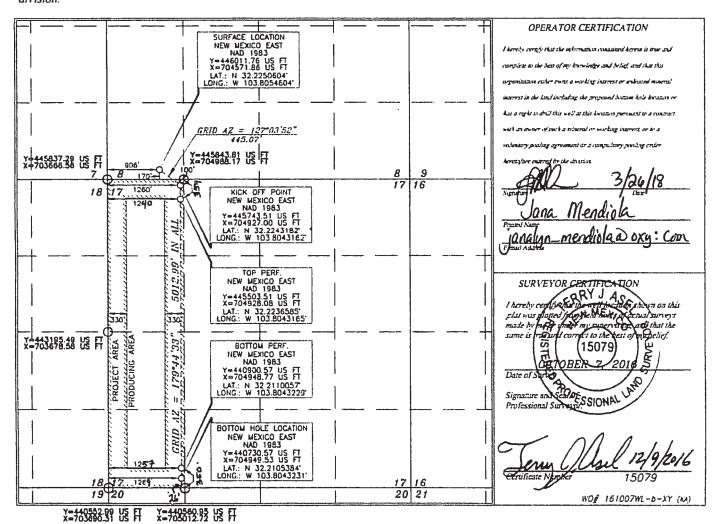
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-44460	Pool Code 13367	Coffen Draw	Bone Spring	
Property Code		perty Name	V	Well Number 2H
319619 OGRID No.	PATTON MDF	P1 "17" FEDERAL rator Name		Elevation
16696	OXY	USA INC.		3529.3'
	Surface	Location		

UL or lot no. Section Tourship Range Lot Idn | Feet from the North South line | Feet from the East/West line County 31 EAST, N.M.P.M. 8 24 SOUTH 170' SOUTH 906 WEST EDDY M Bottom Hole Location If Different From Surface Lot Idn Feet from the North South line Feet from the UL or lot no. Section Township East/West line County 24 SOUTH SOUTH WEST **EDDY** 17 31 EAST, N. M. P. M. Dedicated Acres Joint or Infill Consolidation Code Order No. BP - 350 FSL 1257 FWL NSL-7543 160 TP - 359 FNL 1240 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.



13

District 1
1025 N. French Dr., Hobbs, NM 88240
Phase: (575) 393-6161 Fax: (575) 393-0720 District II. 811 S. Firm St., America, NSA 88210 Phone: (573) 748-1253 Fax: (573) 748-9720 Panel: (273) *** Tanis and Carlos (374) *** Tanis Panel (375) *** Tanis Panel (375) *** Tanis Panel (375) *** Tanis (375) *** State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Fra. Santa Fe, NM 87505

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

As Drilled

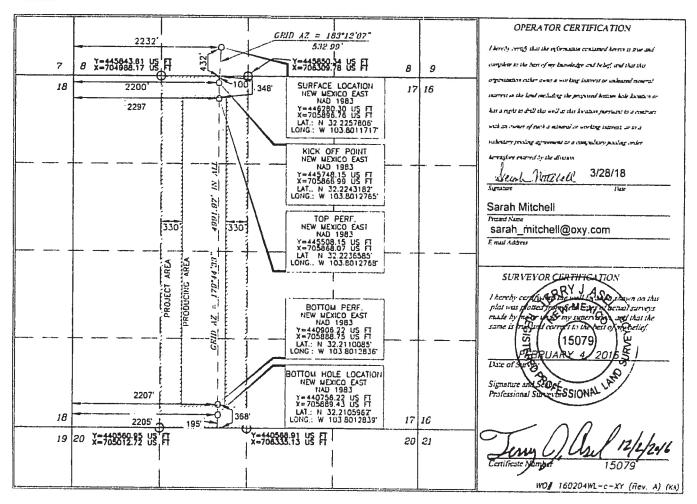
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44496	Pool Code 13367	COTTON DRAW; BONE SPRING		
Property Code 319619		operty Name 1 "17" FEDERAL	Well Number 3H	
OGRID No. 16696		perator Name USA INC.	Elevation 3540.8'	

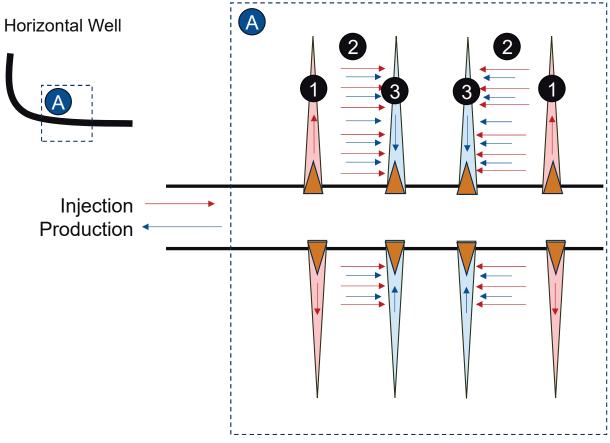
Surface Location UL or lot no. Section Township Rance Lot Idn Feet from the North/South line Feet from the East West line Count 8 24 SOUTH N 31 EAST, N.M.P.M. 432' SOUTH 2232 WEST **EDDY**

Bottom Hole Location If Different From Surface Ul. ar lot no. Section Township Lot Idn Feet from the North/South line Feet from the East West line County 24 SOUTH 31 EAST, N.M.P.M. 195 SOUTH 2205 WEST EDDY Dedicated Acres Joint or Infill Consolidation Code Order No. 160 TP: 348 FNL 2297 FWL BP: 368 FSL 2207 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.



Received by OCD: 1/28/2025/4955828 PM1



- 1. Inject into perf clusters.
- Sweep reservoir pore space between perf clusters with produced gas.
- 3. Produce hydrocarbons from offset perf clusters.



GAS SOURCE LIST AND COMMINGLING PERMIT

- All source gas wells produce to the Sand Dunes South Corridor CTB Train #1
- Producing pools are:
 - 1. Poker Lake; Delaware, Northwest
 - 2. Cotton Draw; Bone Spring
 - 3. Purple Sage; Wolfcamp (Gas)
- Surface Comingling Permit: PLC 898-A



16

Received by OCD: 1/28/2025/4955828 PMM

IWM Source Gas Well List PLC 898-A

SAND DUNES SOUTH CORRIDOR CTB - TRAIN #1

Well Name	API	Pool	POOL CODE	LEASE OR CA
NIMITZ MDP1 12 FEDERAL 1H	30-015-44526	COTTON DRAW;BONE SPRING	13367	CA NMNM138992
NIMITZ MDP1 12 FEDERAL 2H	30-015-44580	COTTON DRAW;BONE SPRING	13367	CA NMNM138992
NIMITZ MDP1 12 FEDERAL 9H	30-015-44581	COTTON DRAW; BONE SPRING	13367	CA NMNM138995
NIMITZ MDP1 13 FEDERAL COM 2H	30-015-44498	COTTON DRAW;BONE SPRING	13367	CA NMNM 138996
NIMITZ MDP1 13 FEDERAL COM 3H	30-015-44525	COTTON DRAW; BONE SPRING	13367	CA NMNM 138997
PALLADIUM MDP1 7-6 FEDERAL COM 1H	30-015-44298	COTTON DRAW;BONE SPRING	13367	CA NMNM137968
PALLADIUM MDP1 7-6 FEDERAL COM 2H	30-015-44299	COTTON DRAW;BONE SPRING	13367	CA NMNM137968
PALLADIUM MDP1 7-6 FEDERAL COM 3Y	30-015-44457	COTTON DRAW; BONE SPRING	13367	CA NMNM137685
PALLADIUM MDP1 7-6 FEDERAL COM 6H	30-015-44293	COTTON DRAW;BONE SPRING	13367	CA NMNM137601
PATTON MDP1 17 FEDERAL 1H	30-015-44459	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 17 FEDERAL 2H	30-015-44460	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 17 FEDERAL 3H	30-015-44496	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 17 FEDERAL 4H	30-015-44497	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 17 FEDERAL 5H	30-015-44444	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 17 FEDERAL 6H	30-015-44445	COTTON DRAW;BONE SPRING	13367	NMNM89172
PATTON MDP1 18 FED 23H	30-015-44316	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FED 33H	30-015-44338	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FED 73H	30-015-44318	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FEDERAL 1H	30-015-44317	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FEDERAL 2H	30-015-44337	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FEDERAL 3H	30-015-44333	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FEDERAL 5H	30-015-44272	COTTON DRAW;BONE SPRING	13367	NMNM89819
PATTON MDP1 18 FEDERAL 7H	30-015-44273	COTTON DRAW;BONE SPRING	13367	NMNM89819
SUNRISE MDP1 8-5 FEDERAL COM 1H	30-015-44369	COTTON DRAW;BONE SPRING	13367	CA NMNM138291
SUNRISE MDP1 8-5 FEDERAL COM 2H	30-015-44395	COTTON DRAW;BONE SPRING	13367	CA NMNM138291
SUNRISE MDP1 8-5 FEDERAL COM 3H	30-015-44474	COTTON DRAW; BONE SPRING	13367	CA NMNM138294
SUNRISE MDP1 8-5 FEDERAL COM 4H	30-015-44475	COTTON DRAW;BONE SPRING	13367	CA NMNM138295
SUNRISE MDP1 8-5 FEDERAL COM 5H	30-015-44476	COTTON DRAW;BONE SPRING	13367	CA NMNM138296
SUNRISE MDP1 8-5 FEDERAL COM 6H	30-015-44473	COTTON DRAW;BONE SPRING	13367	CA NMNM138296
PATTON MDP1 18 FEDERAL 6H	30-015-43854	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89819
PATTON MDP1 17 FEDERAL 171H	30-015-44989	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89172
PATTON MDP1 17 FEDERAL 172H	30-015-44990	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89172
PATTON MDP1 17 FEDERAL 173H	30-015-44991	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89172
PATTON MDP1 17 FEDERAL 174H	30-015-45077	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89172
PATTON MDP1 17 FEDERAL 175H	30-015-45078	PURPLE SAGE; WOLFCAMP (GAS)	98220	NMNM89172

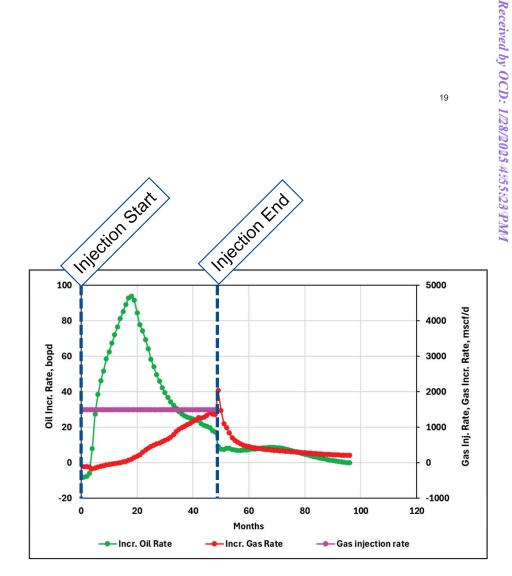
PATTON MDP1 17 FEDERAL 176H	30-015-45079	PURPLE SAGE;WOLFCAMP (GAS)	98220	NMNM89172	
Sunrise MDP1 8-5 Fed 171H	30-015-44930	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766133 PENDING	
Sunrise MDP1 8-5 Fed 172H	30-015-44977	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766133 PENDING	
Sunrise MDP1 8-5 Fed 173H	30-015-44931	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766133 PENDING	
Sunrise MDP1 8-5 Fed 174H	30-015-45112	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766134 PENDING	
Sunrise MDP1 8-5 Fed 175H	30-015-45152	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766134 PENDING	
Sunrise MDP1 8-5 Fed 176H	30-015-45153	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105766134 PENDING	
JEFF SMITH MDP1 7_18 FED COM 171H	30-015-47258	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105777378 PENDING	
JEFF SMITH MDP1 7_18 FED COM 172H	30-015-47249	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105777378 PENDING	
JEFF SMITH MDP1 7_18 FED COM 173H	30-015-47247	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA NMNM105777378 PENDING	
NIMITZ MDP1 13_1 FED COM 1H	30-015-48588	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING E/2 W/2 & W/2 E/2 SEC 1, 12 & 13	
NIMITZ MDP1 13_1 FED COM 171H	30-015-48578	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING W/2 W/2 SEC 1, 12 & 13	
NIMITZ MDP1 13_1 FED COM 172H	30-015-48613	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING E/2 W/2 & W/2 E/2 SEC 1, 12 & 13	
NIMITZ MDP1 13_1 FED COM 173H	30-015-48589	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING E/2 W/2 & W/2 E/2 SEC 1, 12 & 13	
NIMITZ MDP1 13_1 FED COM 311H	30-015-48586	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING W/2 W/2 SEC 1, 12 & 13	
NIMITZ MDP1 13_1 FED COM 312H	30-015-48590	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING E/2 W/2 & W/2 E/2 SEC 1, 12 & 13	
GILA 12 FEDERAL 2H	30-015-36401	POKER LAKE;DELAWARE, NORTHWEST	96046	NMNM82896	
NIMITZ 12 FEDERAL 3H	30-015-41011	POKER LAKE;DELAWARE, NORTHWEST	96046	NMNM82896	
NIMITZ 12 FEDERAL 4H	30-015-41506	POKER LAKE;DELAWARE, NORTHWEST	96046	NMNM82896	
NIMITZ 12 FEDERAL 5H	30-015-41657	POKER LAKE;DELAWARE, NORTHWEST	96046	NMNM82896	
CHUCK SMITH MDP1 8 17 FED COM 4H	30-015-54092	COTTON DRAW; BONE SPRING	13367	CA PENDING E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 5H	30-015-54050	COTTON DRAW; BONE SPRING	13367	CA PENDING E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 21H	30-015-54093	COTTON DRAW; BONE SPRING	13367	CA PENDING W/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 22H	30-015-54097	COTTON DRAW; BONE SPRING	13367	CA PENDING W/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 23H	30-015-54260	COTTON DRAW; BONE SPRING	13367	CA PENDING W/2 SEC 8 & 17	TO BE ADDED

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CHUICK CMITH MADDA 0 47 FFD COM MAIL	20.015.54001	COTTON DRAW, DONE CRRING	12267	CA PENDING]
CHUCK SMITH MDP1 8 17 FED COM 44H	30-015-54091	COTTON DRAW; BONE SPRING	13367	E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 2H	30-015-54049	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING	
CHOCK SWITTI WIDF1 8 17 FLD COWI 211	30-013-34049	FORFEL SAGE, WOLI CAIVIF (GAS)	98220	W/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 3H	30-015-54096	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING	
CHOCK SWITTI WIDF 18 17 TED COWI SIT	30-013-34030	rott LE SAGE, WOLF CAIVIF (GAS)	38220	E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 24H	30-015-54047	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING	
CHOCK SWITTI WIDF 18 17 TED COW 2411	30-013-34047	FORFEL SAGE, WOLI CAIVIF (GAS)	98220	E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 25H	30-015-54094	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING	
CHOCK SIVITITIVIDE 18 17 FED COIVI 2311	30-013-34094	FORFEL SAGE, WOLI CAIVIF (GAS)	98220	E/2 SEC 8 & 17	TO BE ADDED
CHUCK SMITH MDP1 8 17 FED COM 26H	30-015-54095	PURPLE SAGE;WOLFCAMP (GAS)	98220	CA PENDING	
CHOCK SWITH WIDPL 8 17 FED COW 20H	30-013-34093	FUNFLE SAGE, WULFCAMIP (GAS)	30220	E/2 SEC 8 & 17	TO BE ADDED

PRODUCTION UPLIFT

- Modeled production uplift based on most likely injection scenario.
- Injection duration: 48 months
- Model Assumptions
 - 1500 MSCFPD injection rate
 - 1000 ft of horizontal
 - 50% of Stimulated Reservoir Volume ("SRV") is not flooded.
 - Stage length: 200 ft
 - Cluster spacing: 50 ft
 - **Base Production**
 - Current: 25 BOPD
 - In 5 years: 15 BOPD
- Incremental Oil Rate, Incremental Gas Rate, and Gas Injection rate over time are plotted on the right.





GAS ACCOUNTING

- Oxy met with BLM on 10/30/2024 to provide an overview of the project and discuss the proposed gas accounting methodology.
 - The IWM pilot project will inject hydrocarbon gas that will result in a production uplift of a depleted well.
 - Oxy proposed royalty-free use of injected, hydrocarbon gas.
 - 100% of the injected gas volumes will be deducted from the production gas volumes before calculating royalty payment.
- BLM verbally approved the proposal during the meeting.
- BLM will provide written approval after a royalty-free sundry is submitted by Oxy.



WELLS IN EXISTING CLGC INJECTION ORDER

- Closed Loop Gas Capture ("CLGC") pilot project
 - 4 wells are associated with a CLGC pilot project and are active CLGC storage wells.
 - Case 22152
 - Injection Order R-22208

	IWM Candidates in existing CLGC Order R-22208								
,	AOR ID	API NUMBER	Current Operator	LEASE NAME	WELL NUM BER				
	1	30-015-44272	OXY USA INC	PATTON MDP1 18 FEDERAL	005H				
1	2	30-015-44459	OXY USA INC	PATTON MDP1 17 FEDERAL	001H				
	3	30-015-44333	OXY USA INC	PATTON MDP1 18 FEDERAL	003H				
Г	4	30-015-44273	OXY USA INC	PATTON MDP1 18 FEDERAL	007H				



• After injection commences in the selected IWM candidate well, Oxy proposes to amend order R-22208 with the selected IWM candidate well removed.



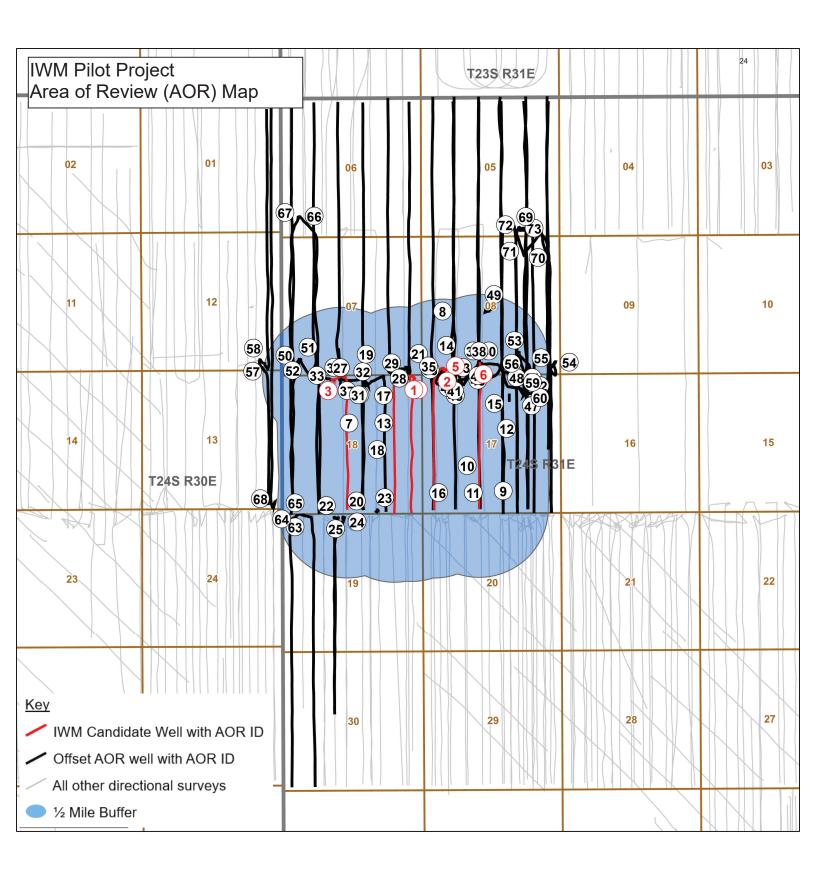
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AREA OF REVIEW

2 MILE MAP- MINERAL OWNERSHIP

+ ▼ Search by API or Tow	nship Q			V035890002		A Salara del		-K·0095·20001 3
	E052290014	11/03/11/1	06	05	04	1100	K050180002	101.01 00
Project Area Outline					VB05200002	111111 pino		128
NM SLO Oil and Gas Leases Oil and Gas Leases Oil and Gas Leasing Restrictions	***************************************	12 N	07 3556 ft	08	00		11	12 07
Mineral and Surface Ownership Mineral Ownership					V.057890	0002	3582 ft	
A-All minerals are owned by U.S. C-Only coal is owned by the U.S. G-Only oil, gas and coal are owned by	0E (////₩//,	13 A	¹⁸ Artesia	(2) 1	V023720005 24\$ VB25380001		14	13 18 Hobbs (1
the U.Ś. N-No minerals are owned by the U.S. O-Only oil and gas are owned by the U.S. T-Other minerals are owned by the U.S. Public Land Survey System (PLSS)	23	24	19	20	21	22	N 23	24 19
PLSS Townships PLSS First Division 24	26	25	30	29	28 county Roa	27	26 3521 ft	25 3(
	29 32.18354 Degree	9 6 5 00 02	31 Esri i	ASA, NGA, USG	S, FEMA Texas P	arks & Wildlife, C	ONANP, Esri, Ton	POWERED BY





Page3736111

OR API NUMBER	Current Operator	LEASE NAME	WELL NUMB Well Type:	Status:	Footages N/S N/S	Footages E/W E/V	Surface Surfac			True Vertical	Current Completion	HOLE SIZE	CSG SIZE	SET AT	SX CMT	CMT TO Top Of Cement How Measured	COMMENT	POOL
1 30-015-44272	OXY USA INC	PATTON MDP1 18 FEDERAL	ER 005H Oil	Active	150 N	285 E	Unit Sectio	n TShip Ran 18 245 31E	ge 8/26/201	Depth: 7 10016		17.500	13.375	672	947	Surf Circ	Active CLGC well. Primary candidate.	[13367] COTTON DRAW; BONE SPRING
2 30-015-44459	OXY USA INC	PATTON MDP1 17 FEDERAL	001H Oil	Active	170 S	846 W	М	8 24S 31E	11/3/201	7 9996	10309-14860	12.250 8.500 17.500	9.625 5.500 13.375	4355 15105 664	1970 2220 850	Surf Circ 1624 CBL Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPRING
2 30-013-44433	OAT OSA INC	PATTON WIDTELT PEDENAL	oom on	Active	170 3	540 W	IWI	0 243 311	11/3/201	3330	10305-14600	12.250 8.500	9.625 5.500	4394 15011	1380 2165	Surf Circ 516 CBL	Active cede weil	(13307) COTTON DIAW, BONE 3FRING
3 30-015-44333	OXY USA INC	PATTON MDP1 18 FEDERAL	003H Oil	Active	170 N	1928 W	C	18 24S 31E	9/7/201	10010	10114-14620	17.500 12.250	13.375 9.625	643 4344	830 1220	Surf Circ Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPRING
4 30-015-44273	OXY USA INC	PATTON MDP1 18 FEDERAL	007H Oil	Active	150 N	255 E	A	18 24S 31E	8/29/201	7 10018	10156-14737	8.500 17.500 12.250	5.500 13.375 9.625	14777 670 4355	2125 850 1630	410 CBL Surf Circ 700 Temp Survey	Active CLGC well	[13367] COTTON DRAW; BONE SPRING
5 30-015-44460	OXY USA INC	PATTON MDP1 17 FEDERAL	002H Oil	Active	170 S	906 W	M	8 24S 31E	11/8/201	9985	10265-14841	8.500 17.500	5.500 13.375	15038 671	2263 850	1090 CBL Surf Circ		[13367] COTTON DRAW: BONE SPRING
									,,,			12.250 8.500	9.625 5.500	4410 15150	1230 2160	Surf Circ 1964 Echometer		,,
6 30-015-44496	OXY USA INC	PATTON MDP1 17 FEDERAL	003H Oil	Active	432 S	2232 W	N	8 24S 31E	11/20/201	10060	10466-15036	17.500 12.250	13.375 9.625	706 4447	870 1235	Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPRING
7 30-015-27453	EOG RESOURCES INC	POKER LAKE 18 FEDERAL	001 Oil	PA	1980 N	2180 W	F	18 24S 31E	6/5/199	8250	NA	8.500 17.5 12.25	5.500 13.375 8.625	15200 465 4264	2175 475 2190	1578 Echometer Surf CIRC Surf CIRC		NA
8 30-015-28654	CHEVRON U.S.A.INC	LOTOS FEDERAL	802 Oil	PA	1980 S	660 W		8 24S 31E	2/8/199	8 8340	NA	7.875	5.500 11.750	8250 643	405 590	6200 CBL Surf CIRC		NA
8 30-013-28034	CHEVRON O 3 A INC	COTOSTEDENAL	802 011		1300 3	000 00	·	0 243 311	2/0/155	0340	NA.	11	8.625	4160	1625	Surf CIRC		NA.
9 30-015-29279	OXY USA INC	PATTON 17 FEDERAL	001 Oil	PA	822 S	2581 E	0	17 24S 31E	12/20/199	8280	NA	7.875 17.5 11	5.500 13.375 8.625	8340 655 3995	900 2108	4100 CALC Surf CIRC Surf CIRC		NA
10 30-015-29604	OXY USA INC	PATTON 17 FEDERAL	002 Oil	Active	1650 S	2250 W	K	17 24S 31E	5/8/199	9700	8122-8161	7.875 17.5	5.500	8280 668	1630 750	Surf CIRC Surf CIRC		[50382] POKER LAKE; DELAWARE
10 30-013-23004	OXT OSK INC	PATION 17 TEDERAL	002 011	Active	1030 3	2230 W	к .	17 243 311	3/0/133	3700	8122-8101	11 7.875	8.625 5.500	4275 9700	1760 1100	22 TS 6710 Calc		[30302] FOREN DARE, DEDAWARE
11 30-015-29824	OXY USA INC	PATTON 17 FEDERAL	006 Oil	Active	330 S	1800 W	N	17 24S 31E	10/10/199	8290	8094-8132	14.75	10.750	668	650	Surf circ		[50382] POKER LAKE; DELAWARE
												9.875 6.75	7.625 4.500	4225 8290	1678 910	Surf circ 2120 calc		
12 30-015-29904	OXY USA INC	PATTON 17 FEDERAL	007 Oil	Active	2075 N	2600 E	G	17 24S 31E	5/23/199	8320	7974-8150	14.75 9.875	10.750 7.625	635 4250	600 1090	Surf circ Surf circ		[50382] POKER LAKE; DELAWARE
13 30-015-32435	OXY USA INC	PATTON 18 FEDERAL	001 Gas	Active	1980 N	1980 E	G	18 24S 31E	9/20/200	13223	7868-8060	6.34 17.500	4.500 13.375	8320 758	1135 1050	3375 calc Surf circ		[50382] POKER LAKE; DELAWARE
												11.000 7.875	8.625 5.500	4175 11770	1550 1520	Surf circ 4218 TS		
14 30-015-32775	OXY USA INC	SUNDANCE 8 FEDERAL	003Q Oil	Active	660 S	660 W	М	8 24S 31E	5/19/200	8350	7904-8084	17.5 11	13.375 8.625	1010 4218	1010 4218	surf circ surf circ		[53818] SAND DUNES; DELAWARE, SO
15 30-015-33013	OXY USA INC	PATTON 17 FEDERAL	012Z Oil	Active	990 N	1980 E	В	17 24S 31E	9/28/200	8380	9746-8162	7.875 17.500	5.5 13.375	8350 960	8350 760	surf cbl Surf Circ		[50382] POKER LAKE; DELAWARE
												11.000 7.875	8.625 5.500	4261 8380	1750 1755	Surf Circ Surf cbl		
16 30-015-33034	OXY USA INC	PATTON 17 FEDERAL	009T Oil	PA	330 S	330 W	M	17 24S 31E	10/17/200	8375	NA	17.500 11.000	13.375 8.625	1005 4215	800 1500	Surf CIRC 2780 TS		NA
17 30-015-33451	OXY USA INC	PATTON 18 FEDERAL	003 Oil	Active	660 N	1980 E	В	18 24S 31E	9/8/200	8270	7950-8047	7.875 17.500	5.500 13.375	8375 900	1550 1100	600 CBL Surf circ		[96046] POKER LAKE; DELAWARE, NOR
												11.000 7.875	8.625 5.500	4170 8270	1450 1570	Surf circ Surf cbl		
18 30-015-33710	OXY USA INC	PATTON 18 FEDERAL	004 Oil	Active	1980 S	1980 E	J :	18 24S 31E	11/29/200	8300	7944-8042	17.500 11.000	13.375 8.625	965 4207	975 1350	Surf circ Surf circ		[50382] POKER LAKE; DELAWARE
19 30-015-33732	OXY USA INC	PALLADIUM 7 FEDERAL	009 Oil	PA	330 S	1980 E	0	7 24S 31E	1/10/200	8308	NA	7.875 17.500	5.500 13.375	8300 1007	1480 1000	4590 cbl Surf CIRC		NA
												11.000 7.875	8.625 5.500	4193 8308	1300 1975	Surf CIRC Surf CIRC		
20 30-015-33825	OXY USA INC	PATTON 18 FEDERAL	006 Oil	Active	330 S	2310 W	N	18 24S 31E	1/29/200	8275	7872-8050	17.500 11.000	13.375 8.625	935 4200	800 1225	Surf circ Surf circ		[96046] POKER LAKE; DELAWARE, NOR
21 30-015-33890	OXY USA INC	PALLADIUM 7 FEDERAL	006Q Oil	PA	660 S	660 E	P	7 24S 31E	10/29/200	8400	NA	7.875 17.500	5.500 13.375	8275 995	1250 950	3000 cbl Surf CIRC		NA
												11.000 7.875	8.625 5.500	4165 8400	1500 1625	Surf CIRC Surf CIRC		
22 30-015-40261	XTO PERMIAN OPERATING LLC.	POKER LAKE CVX JV BS FEDERAL COM	014H Oil	Active	140 N	1980 W	C	19 24S 31E	5/17/201	9550	9843-14121	17.500 11.000	13.375 8.625	713 4173	1000 2000	Surf circ Surf circ		[97975] WC-015 G-06 S243119C; BONE
23 30-015-41343	OXY USA INC	PATTON 18 FEDERAL	008H Oil	Active	150 S	1700 E	0	18 24S 31E	7/22/201	10011	10464-14320	7.875 14.750	5.500 11.750	14240 930	2000 650	3650 calc Surf circ		[13367] COTTON DRAW; BONE SPRING
												10.625 7.875	8.625 5.500	4207 14460	2150 2100	Surf circ Surf circ		, , ,
24 30-015-42427	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT CVX JV BS	035H Oil	Active	190 N	2332 W	C	19 24S 31E	9/23/201	10230	10560-17222	17.5 12.25	13.375 9.625	903 4290	740 1230	Surf Circ Surf Circ		[97975] WC-015 G-06 S243119C; BONE
25 30-015-42428	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT CVX JV BS	036H Oil	Active	2323 N	1985 W	C	19 24S 31E	9/21/201	10785	10721-17549	8.75 17.500	5.5 13.375	17248 895	3335 755	4118 CBL Surf Circ		[97975] WC-015 G-06 S243119C; BONE
	and an				**				.,,-01		2	12.250 8.750	9.625 5.500	4290 17915	4290 3495	Surf Circ 3850 CBL		,
26 30-015-43854	OXY USA INC	PATTON MDP1 18 FEDERAL	006H Gas	Active	150 N	505 E	Α .	18 24S 31E	8/15/201	11612	11759-16145	5.500	3.500 16.000	17820 700	485 800	9722 CBL Surf Circ		[98220] PURPLE SAGE; WOLFCAMP (G/
			303		"	303 E			3/13/101	-1013		13.500 9.875	10.750 7.625	4290 11972	1835 2400	Surf Circ Surf Circ		Comments of the Comments of th
27 30-015-44292	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	003H C:1	PA	160 M	2255 W	C	10 245 245	0/22/204	10005	A) *	6.750	5.5 x 4.5 13.375	16359 654	540 850	10828 calc Surf Circ	4.5" liner top at 10828'	NA
27 30-015-44292	OAT OSA INC	PALIADIUM MDP1 / 6 FEDERAL COM	uu3H UII	PA	169 N	2255 W		18 24S 31E	8/22/201	10895	NA	17.5 12.25	9.625	4351	1672	Surf Circ		
28 30-015-44293	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	006H Oil	Active	293 S	562 E	Р	7 24S 31E	8/15/201	7 10059	10058-19910	8.5 17.500	NA 13.375	NA 672	NA 856	NA NA Surf Circ		NA [13367] COTTON DRAW; BONE SPRING
20.20.045.4:	000/1054 1015		00511 5"	***	202 -			7.046	011-		40007	12.250 8.500	9.625 5.500	4374 20075	1625 3015	Surf Circ Surf Circ		(42257) COTTON
29 30-015-44294	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	υθ5H Oil	Active	293 S	592 E	Р	7 24S 31E	8/13/201	10064	10094-19979	17.500 12.250	13.375 9.625	671 4372	865 1330	Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPRING
30 30-015-44295	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	004H Oil	Active	169 N	2285 W	C	18 24S 31E	8/24/201	10034	10251-19963	8.500 17.500	5.500 13.375	20278 641	2955 850	1565 cbl Surf Circ		[13367] COTTON DRAW; BONE SPRING
												12.250 8.500	9.625 5.500	4348 20273	1458 3958	Surf Circ 1678 Fluid Shot (FS)		

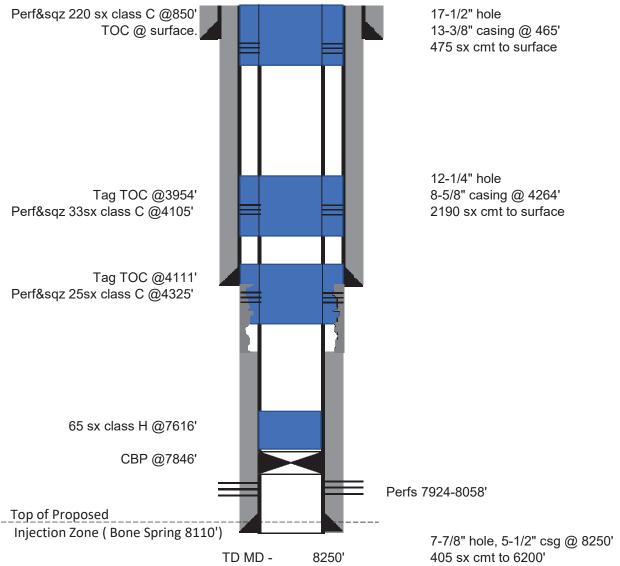
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													12.250 8.500	9.625 5.500	4380 14911	1350 1650	Surf Circ 3830 calc		
2 30-015-44318	OXY USA INC	PATTON MDP1 18 FEDERAL	073H Oil	Active	335 N	2092 E	В	18 245	31E	8/14/2017	11193	11169-15639	20.000 13.500 9.875	16.000 10.750 7.625	660 4358 10503	765 1615 1070	Surf Circ Surf Circ Surf Circ	4.5" liner 10369-15810. 5.5" tie back	[13367] COTTON DRAW; BONE SP
3 30-015-44337	OXY USA INC	PATTON MDP1 18 FEDERAL	002H Oil	Active	170 N	1898 W	C	18 245	31E	9/6/2017	10084	10159-14663		5.5 x 4.500 13.375 9.625	15810 644 4343	560 830 1215	10369 Circ Surf Circ Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SP
4 30-015-44338	OXY USA INC	PATTON MDP1 18 FEDERAL	033H Oil	Active	335 N	2062 E	В	18 245	31E	8/15/2017	8878	9060-13553	8.500 17.500	5.500 13.375	14802 656	2130 650	968 FS Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SP
5 30-015-44369	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	001H Oil	Active	170 S	816 W	М	8 245	31E	11/2/2017	00/1	10370-20250	12.250 8.500 17.500	9.625 5.500 13.375	4365 13770 671	1350 1480 815	Surf Circ 1300 calc Surf Circ		[13367] COTTON DRAW; BONE SP
													12.250 8.500	9.625 5.500	4418 20389	1230 2940	Surf Circ 1644 CBL		
86 30-015-44395	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	002H Oil	Active	170 S	876 W	М	8 245	31E	11/6/2017	9990	10299-20156	17.500 12.250 8.500	13.375 9.625 5.500	669 4418 20320	850 1228 2935	Surf Circ Surf Circ 574 CBL		[13367] COTTON DRAW; BONE SP
37 30-015-44457	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	003Y Oil	Active	169 N	2225 W	С	18 24S	31E	10/8/2017	10001	10092-19929	17.500 12.250	13.375 9.625	655 4352	820 1536	Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SP
88 30-015-44474	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	003H Oil	Active	432 S	2202 W	N	8 245	31E	11/17/2017	10050	10591-20485	8.500 17.500 12.250	5.500 13.375 9.625	708 4438	3693 895 1235	799 FS Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPI
89 30-015-44475	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	004H Oil	Active	432 S	2262 W	N	8 245	31E	11/22/2017	10059	10406-20250	8.500 17.500	5.500 13.375	20610 713	2900 915	1330 CBL Surf Circ		[13367] COTTON DRAW; BONE SPI
10 30-015-44497	OXY USA INC	PATTON MDP1 17 FEDERAL	004H Oil	Active	432 S	2292 W	N	8 24S	31E	11/24/2017	10063	10674-15244	12.250 8.500 17.500	9.625 5.500 13.375	4431 20388 704	1235 2900 915	Surf Circ 2120 CBL Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SPI
		SUNRISE MDP1 8 5 FFDERAL COM											12.250 8.500	9.625 5.500	4444 15379	1235 2175	Surf Circ 1755 FS		
11 30-015-44930	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	171H Gas	Active	194 N	1544 W	С	17 245	31E	2/4/2019	11603	11906-22195	14.750 9.875 6.750	10.750 7.625 5.500	678 11006 22315	745 2139 800	Surf Circ Surf Circ 10500 Calc		[98220] PURPLE SAGE; WOLFCAM
12 30-015-44931	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	173H Gas	Active	194 N	1614 W	С	17 245	31E	2/6/2019	11604	11725-21589	14.750 9.875	10.750 7.625	690 11067	745 1899	Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAM
3 30-015-44977	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	172H Gas	Active	194 N	1579 W	C	17 24\$	31E	2/4/2019	11751	12044-22159	6.750 14.75 9.875	5.500 10.75 7.625	21705 690 11067	775 745 1899	10550 calc Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAM
4 30-015-44989	OXY USA INC	PATTON MDP1 17 FEDERAL	171H Gas	Active	374 N	1545 W	С	17 24S	31E	7/4/2018	11702	12213-16688	6.75 14.750 9.875	5.5 10.750 7.625	21705 704 11242	775 680 2045	10550 calc Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAM
15 30-015-44990	OXY USA INC	PATTON MDP1 17 FEDERAL	172H Gas	Active	374 N	1580 W	С	17 24S	31E	7/5/2018	11801	11956-16506	6.750 14.750	5.5 x 4.5 10.750	16858 725	675 680	5310 CBL Surf Circ		[98220] PURPLE SAGE; WOLFCAMI
16 30-015-44991	OXY USA INC	PATTON MDP1 17 FEDERAL	173H Gas	Active	374 N	1615 W	C	17 24S	31E	7/6/2018	11815	12034-16584	9.875 6.750 14.750	7.625 5.5 x 4.5 10.750	11084 16651 735	2410 675 700	Surf Circ 6500 CBL Surf Circ		[98220] PURPLE SAGE; WOLFCAM
													9.875 6.750	7.625 5.5 x 4.5	11104 16749	2310 675	Surf Circ 6234 CBL		
17 30-015-45077	OXY USA INC	PATTON MDP1 17 FEDERAL	174H Gas	Active	772 N	1367 E	В	17 245	31E	7/18/2018	11876	12042-16593	14.750 9.875 6.750	10.750 7.625 5.5 x 4.5	762 11334 16758	985 2320 675	Surf Circ Surf Circ 9865 CBL		[98220] PURPLE SAGE; WOLFCAM
18 30-015-45112	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	174H Gas	Active	592 N	1369 E	В	17 245	31E	1/31/2019	11773	12115-22448	14.750 9.875 6.750	10.750 7.625 5.500	740 11215 22543	845 1990 825	Surf Circ Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAMI
19 30-015-44131	NGL WATER SOLUTIONS PER	MIAN SAND DUNES SWD	002 SWD	Active	2600 S	2500 W	K	8 245	31E	5/2/2017	17920	16547-17920	26.000 17.500	20.000 13.375	822 4250	1142 2315	Surf Circ Surf Circ		[96101] SWD; DEVONIAN
50 30-015-44298	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	001H Oil	Active	609 S	682 W	М	7 24S	31E	10/16/2017	10050	9756-19720	12.250 8.500 17.500	9.625 7.625 11 13.375	11698 215-16547 657	2650 375 845	Surf Circ 11215 Circ Surf Circ		[13367] COTTON DRAW; BONE SPF
													12.250 8.500	9.625 5.500	4326 19874	1446 3893	Surf Circ 550 FS		
51 30-015-44299	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	002H Oil	Active	609 S	742 W	М	7 245	31E	10/10/2017	10033	10053-19769	17.500 12.250 8.500	13.375 9.625 5.500	661 4304 20070	845 1519 3767	Surf Circ Surf Circ 206 FS		[13367] COTTON DRAW; BONE SPF
2 30-015-44317	OXY USA INC	PATTON MDP1 18 FEDERAL	001H Oil	Active	609 S	712 W	М	7 245	31E	10/18/2017	10055	10272-14723	17.500 12.250	13.375 9.625	632 4306	815 1446	Surf Circ Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SPI
53 30-015-44444	OXY USA INC	PATTON MDP1 17 FEDERAL	005H Oil	Active	834 S	1585 E	0	8 245	31E	11/28/2017	10056	10620-15156	8.500 17.500 12.250	5.500 13.375 9.625	14865 705 4471	910 1380	430 FS Surf Circ Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPF
54 30-015-44445	OXY USA INC	PATTON MDP1 17 FEDERAL	006H Oil	Active	427 S	177 E	Р	8 245	31E	11/30/2017	10077	10299-14848	8.500 17.500 12.250	5.500 13.375 9.625	15295 699 4406	2200 895 1570	680 CBL Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPI
55 30-015-44473	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	006H Oil	Active	457 S	177 E	P	8 24S	31E	12/2/2017	9996	10285-20137	8.500 17.500	5.500 13.375	15021 720	2216 895	1300 CBL Surf Circ		[13367] COTTON DRAW; BONE SPI
66 30-015-44476	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	005H Oil	Active	834 S	1555 E	0	8 24S	31E	11/26/2017	9933	10450-20234	12.250 8.500 17.500	9.625 5.500 13.375	4407 20277 714	1260 3045 910	Surf Circ 1512 CBL Surf Circ		
	ONLY SA ING	NIMITZ MDP1 13 FEDERAL COM	00211 07	4.15	270.5	200.5		42.246	205	2/45/2040	40240	0700 4 4705	12.250 8.500	9.625 5.500	4449 20445	1380 2950	Surf Circ 384 CBL		(42257) 507701 00111 00115 50
7 30-015-44525	OXY USA INC		003H Oil	Active	379 S	808 E	Р	12 245	30E			9798-14796	17.500 12.250 8.500	13.375 9.625 5.500	635 4277 14945	825 1330 2831	Surf Circ Surf Circ 1180 CBL		[13367] COTTON DRAW; BONE SPI
58 30-015-44528	OXY USA INC	NIMITZ MDP1 12 FEDERAL COM	006H Oil	Active	379 S	778 E	Р	12 245	30E	3/17/2018	10190	9766-17399	17.500 12.250 8.500	13.375 9.625 5.500	638 4281 17500	1050 1330 2513	Surf Circ Surf Circ 1476 FS		[13367] COTTON DRAW; BONE SPE
59 30-015-45078	OXY USA INC	PATTON MDP1 17 FEDERAL	175H Gas	Active	772 N	1332 E	В	17 24S	31E	7/18/2018	11644	12071-16222	14.750 9.875	10.750 7.625	762 11125	823 2040	Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAM
50 30-015-45079	OXY USA INC	PATTON MDP1 17 FEDERAL	176H Gas	Active	772 N	1297 E	A	17 24S	31E	7/18/2018	8976	9098-13849	6.750 14.750	5.5 x 4.5 10.750	16388 772	776	9857 Calc Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPI
													9.875 6.750	7.625 5.5 x 5.5	11386 14010	2075 715	Surf Circ 4910 Calc	Pilot hole. Casing parted at 8226-8258'	
51 30-015-45152	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	175H Gas	Active	592 N	1334 E	В	17 245	31E	2/2/2019	11580	11949-22281	14.750 9.875 6.750	10.750 7.625 5.500	745 11133 22306	775 2393 825	Surf Circ Surf Circ 10631 Calc		[98220] PURPLE SAGE; WOLFCAME

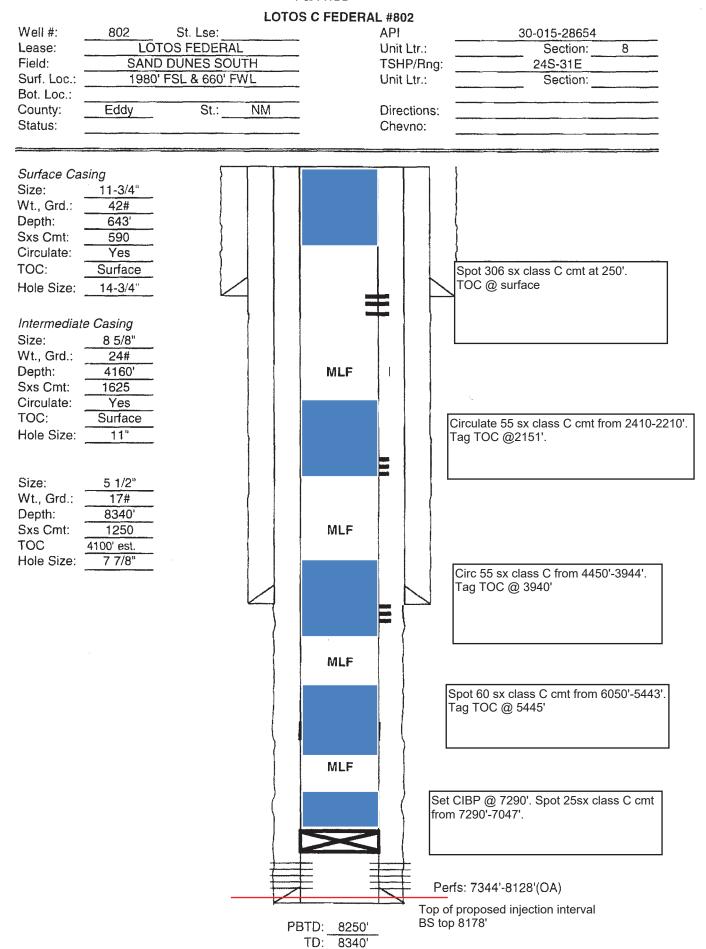
2 20 045 45452	000/1164 1916	CUMPICE MADRA OF FEDERAL COM	176H Gas	4.00	592 N	1299 E		17 245	31E	2/2/2010	44764	12070 22444	14.750	40.750	730	0.45	0.16	(eggan) numur ca cr. wours
2 30-015-45153	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	176H Gas	Active	592 N	1299 E	A	17 245	31E	2/2/2019	11/61	12079-22411	9.875	10.750 7.625	11225	845 2065	Surf Circ Surf Circ	[98220] PURPLE SAGE; WOLFCA
													6.750	5.500	22452	820	10725 Calc	
3 30-015-46426	XTO PERMIAN OPERATING LLC.	POKER LAKE LINIT 18 TWR	102H Gas	Active	207 N	748 W	D	19 245	31E	2/22/2020	12590	11932-21474	14.750	11.750	834	805	Surf Circ	[98220] PURPLE SAGE; WOLFC
3 30 013 40420	ATO I EMPIRATO ELECT	TOKEN DIKE OWI 10 TWK	10211 003	Active	207 14	740 11		13 243	311	2/22/2020	11330	11332 11474	10.625	8.625	10795	1355	Surf Circ	[55220] 1011122 3102, 110210
													7.875	5.500	21630	2875	Surf Circ	
4 30-015-46427	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT 18 TWR	121H Gas	Active	75 N	535 W	D	19 245	31E	2/25/2020	11780	12142-21506	17.500	13.375	915	482	Surf Circ	[98220] PURPLE SAGE; WOLFCA
										,			12.250	9.625	10885	1579	Surf Circ	
													8.5	5,500	21658	2321	10360 Calc	
5 30-015-46428	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT 18 TWR	122H Gas	Active	40 N	785 W	D	19 245	31E	2/24/2020	11740	12174-21538	14.750	11.750	850	850	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													10.625	8.625	10937	1355	Surf Circ	
													7.875	5.500	21695	3685	Surf Circ	
5 30-015-47249	OXY USA INC	JEFF SMITH MDP1 7 18 FEDERAL COM	172H Gas	Active	779 S	740 W	M	6 245	31E	4/19/2022	11555	11727-21788	14.75	10.750	835	1160	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													9.875	7.625	11015	2325	Surf Circ	
													6.75	5.500	22103	842	10515 Calc	
7 30-015-47258	OXY USA INC	JEFF SMITH MDP1 7 18 FEDERAL COM	171H Gas	Active	779 S	705 W	М	6 24S	31E	4/18/2022	11666	12063-22364	14.75	10.750	845	900	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													9.875	7.625	10490	2427	Surf Circ	
													6.75	5.500	22480	961	9490 Calc	
8 30-015-53777	OXY USA INC	NIMITZ MDP1 13 1 FEDERAL COM	175H Gas	Active	230 S	280 E	P	13 245	30E	8/16/2023	11573	11599-26882	14.75	10.750	815	800	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													9.875	7.625	10742	2180	Surf Circ	
													6.75	5.500	27003	1298	6394 Calc	
9 30-015-54047	OXY USA INC	CHUCK SMITH MDP1 8 17 FEDERAL COM	И 024H Gas	Active	279 S	1550 E	0	5 245	31E	9/2/2023	12573	12600-22866	17.5	13.375	830	1035	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													12.25	9.625	11813	2127	Surf Circ	
													8.75 x 8.5	7 x 5.5	22988	2496	8040 Calc	
0 30-015-54050	OXY USA INC	CHUCK SMITH MDP1 8 17 FEDERAL COM	VI 005H Oil	Active	701 N	1335 E	В	8 245	31E	10/13/2023	10819	11092-21190	14.75	10.750	811	790	Surf Circ	[13367] COTTON DRAW; BONE
													9.875	7.625	10564	2490	Surf Circ	
													6.75	5.500	21308	851	8720 Calc	
1 30-015-54092	OXY USA INC	CHUCK SMITH MDP1 8 17 FEDERAL COM	√ 004H Oil	Active	731 N	1335 E	В	8 245	31E	10/12/2023	10783	11082-21180	14.75	10.750	823	820	Surf Circ	[13367] COTTON DRAW; BONE
													9.875	7.625	10525	2348	Surf Circ	
													6.75	5.500	21302	851	6590 Calc	
2 30-015-54094	OXY USA INC	CHUCK SMITH MDP1 8 17 FEDERAL COM	И 025H Gas	Active	279 S	1520 E	0	5 245	31E	9/3/2023	12344	12579-22673	14.75	13.375	796	1005	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													9.875	9.625	11700	3774	Surf Circ	
													8.75 x 8.5	7 x 5.5	22810	2375	9336 Calc	
3 30-015-54095	OXY USA INC	CHUCK SMITH MDP1 8 17 FEDERAL COM	VI 026H Oil	Active	279 S	1490 E	0	5 24S	31E	9/5/2023	12560	12740-22965	17.5	13.375	793	995	Surf Circ	[98220] PURPLE SAGE; WOLFCA
													12.25	9.625	11840	3860	Surf Circ	

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EOG RESOURCES INC POKER LAKE 18 FEDERAL 001 30-015-27453



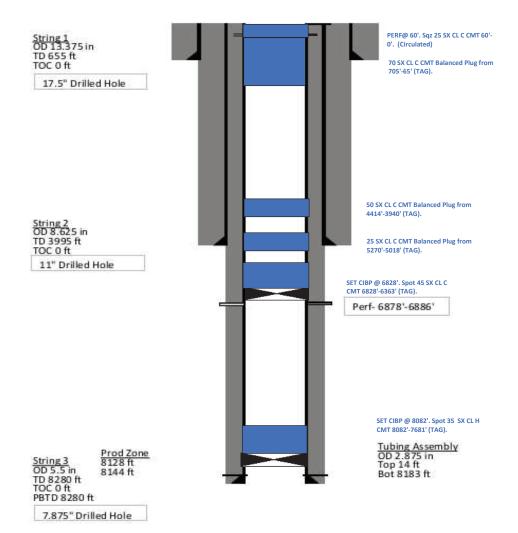
P&A WBD



Received by OCD: 1/28/2025/4955828PMM

30-015-29279-0000

Eddy



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OXY USA Inc Patton 17 Federal #9 API No. 30-015-33034

Spot 85sx class C cmt to surface

Spot 40sx class C cmt @1120'. Tag @ 818'

Spot 40sx class C cmt @3822'. Tag @ 3482'

Spot 40sx class C cmt @4349'. Tag @ 3959'

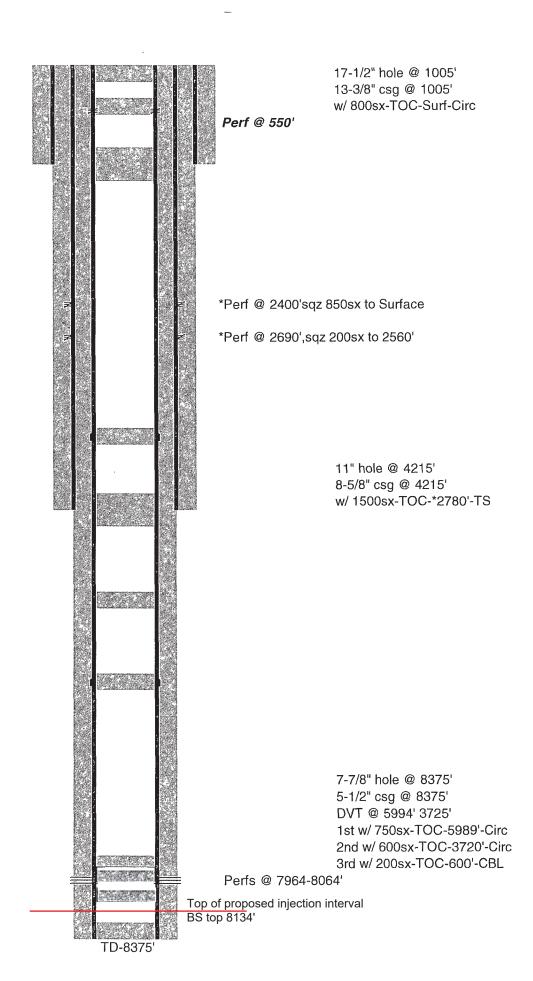
Spot 40 sx class C cmt @ 5304' TOC @4951'

Spot 40 sx class C cmt @6095'. Tag @5748'

Pump 35 sx class H cmt. Tag @7822' Pump 25 sx class H cmt. Tag @8007'

Pump 80 sx class H cmt. Tag @ 8021'

PB-8311'



OXY USA Inc.Paliadium 7 Federal #9API No. 30-015-33732

Perf @ 250'. Squeeze 40sx class C cmt to surface

25 sx @1032'. Tag TOC @853'

25 sx @2398'. Tag TOC @2132'

25 sx @3772'. Tag TOC @3532'

Packer @3770' Perf @4185' Squeeze 25sx class C @4264'. Tag TOC @4002'.

25 sx @5248'. Tag TOC @4953'

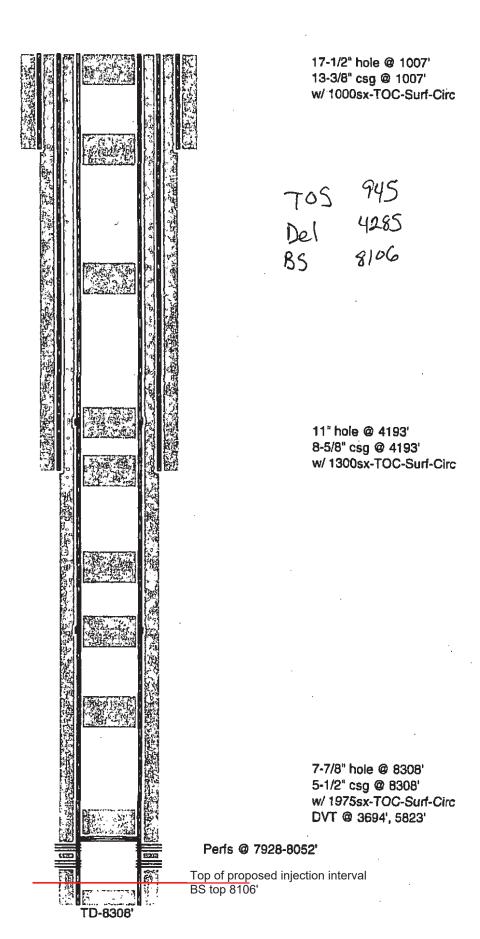
25 sx @5904'. Tag TOC @5692'

25 sx @6593'. Tag TOC @6351'

CIBP @ 7878' w/ 25sx

Tag TOC @ 7680'

PB-82041



Stephen Janacek

7/14/2020

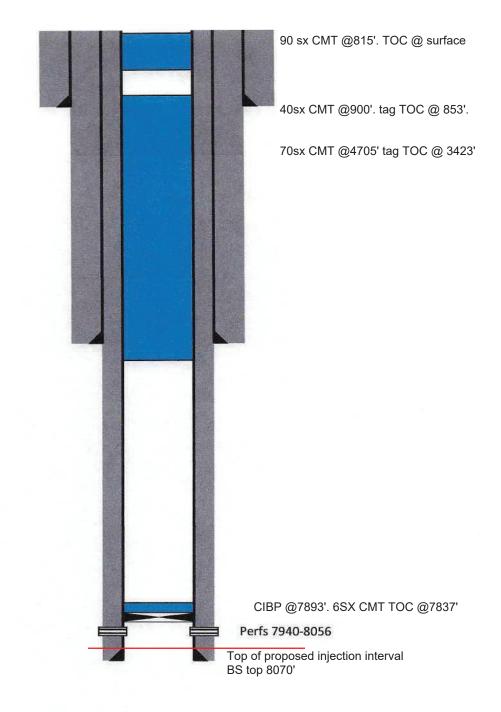
PALLADIUM 7 FEDERAL #006Q

30-015-33890-0000 Eddy

String 1 OD 13.375 in TD 995 ft TOC 0 ft

String 2 OD 8.625 in TD 4165 ft TOC 0 ft

String 3 OD 5.5 in TD 8400 ft TOC 0 ft PBTD 8400 ft

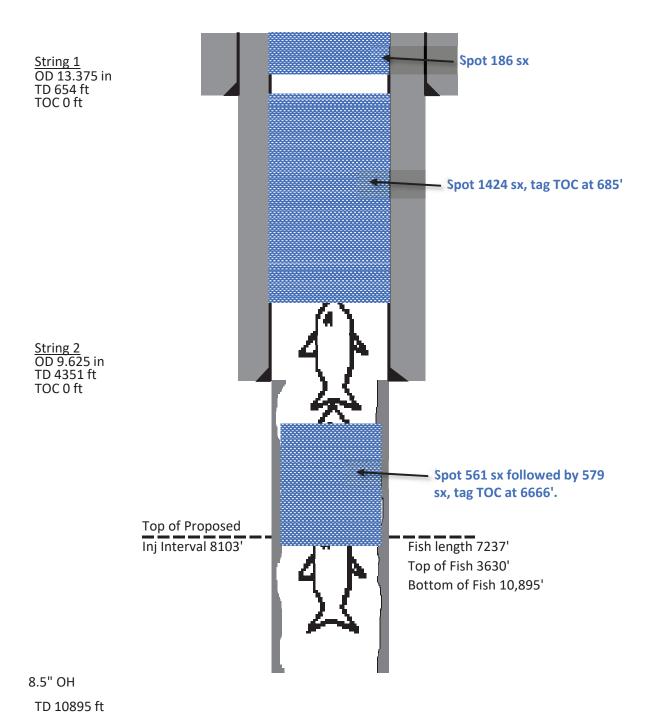


Current Wellbore

4/7/2021

PALLADIUM MDP1-7-6 FEDERAL COM3H

30-015-44292-0000 Eddy



Imaging: 1/29/2025 41:03:40 AMI

OPERATIONS

Side 1

KOP @ 9477' MD

OPERATOR: Oxy USA Inc.

API 30-015-44272 WELL NAME & NUMBER: Patton MDP1 18 Federal 5H

WELL LOCATION: NENE 150 FNL 285 FEL T24S R31E UNIT LETTER FOOTAGE LOCATION **SECTION TOWNSHIP** RANGE

INJECTION WELL DATA SHEET

WELLBORE SCHEMATIC 13 3/8" 54.5# J-55 BT&C CSA 631" Cmt w/947sx TOC Surf Topoff Job 12.25" Hole 9 5/8" 47# L-80 BTC SA 4310"

Cmt w/1970sx TOC Surf-Circ

Pressure Gauge Control Line to Surface

Fiber Control Line to Surface

·Oura Electric Gaslift Valve w/ control line to surface

-Disconnect Sub

Packer w/ Flow Through Ports SA 9,500 5.5" 20# P-110 DQX Csq SA 15,105' MD CMT w/2220sx-TOC-1624' CBL

Perfs @ 10,198 - 14,777'

Nipple w/ removeable plug to access remaing wellbore at the end of the project **WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 947 sx.

Top of Cement: Surface Method Determined: Topoff Job

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1970 sx.

Top of Cement: Surf Method Determined: Circ

Production Casing

Hole Size: 8.5"

Cemented with: 2220 sx.

Top of Cement: 1624'

Total Depth: 15,115'

Casing Size: 5.5"

or

Method Determined: CBL

Total Vertical Depth: 10,016'

Injection Interval MD/TVD

feet to 11,198' / 9995' 10,198 / 9950'

(Perforated or Open Hole; indicate which)

Side 2

KOP @ 9477' MD

INJECTION WELL DATA SHEET

OPERATOR: Oxy USA Inc

WELL NAME & NUMBER: Patton MDP1 17 Federal 1H API 30-015-44459

WELL LOCATION: SWSW 170' FSL 846' FWL M 8 24S

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

Method Determined: CBL

31E RANGE

WELLBORE SCHEMATIC

API #30-015-44459

17.5" hole

13.3/8" 54.5# J-55 BT&C SA 500'

Cmt w/850sx TOC Surface - Circulated

12 1/4" hole 9 5/8" 47# L-80 BTC csg @ 4395' Cmt w/1380sx TOC Surface - Circulated

Pressure Gauge Control Line to Surface

Fiber Control Line to Surface

Oura Electric Gaslift Valve w/ control line to surface

Disconnect Sub

Packer w/ Flow Through Ports SA 9400'

8.5" Hole

Packers 5.5" 20# P-110 DQX @ 15.011'

Perfs @ 10,309' - 14,860'

Nipple whremoveable plug to access remaing wellbore at the end of the project

Cmt w/2165sx TOC 514'- CBL

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 850 sx. or

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1380 sx. or f

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 8.5" Casing Size: 5.5"

Top of Cement: 514'

Cemented with: 2165 sx. or

Total Depth: 15,025'

Total Vertical Depth: 9996'

Injection Interval MD/TVD

10,309' / 9982' feet to 11,309' / 9983'

(Perforated or Open Hole; indicate which)

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INJECTION WELL DATA SHEET

Гub	bing Size: 2.875 Lining Material: None
Тур	pe of Packer: Feed Through Packer
Pac	eker Setting Depth: 9400' / 9370' (MD/TVD)
Oth	ner Type of Tubing/Casing Seal (if applicable): None
	Additional Data
1.	Is this a new well drilled for injection?Yes _xNo
	If no, for what purpose was the well originally drilled?Producer
2.	Name of the Injection Formation: 2nd Bone Spring
3.	Name of Field or Pool (if applicable): Cotton 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:
	OVERLYING: FIRST BONE SPRING 9000'
	UNDERLYING: THIRD BONE SPRING 11000'

Side 1

OPERATOR: Oxy USA Inc

API 30-015-44333 WELL NAME & NUMBER: Patton MDP1 18 Federal 3H

WELL LOCATION: NENW 170' FNL 1928' FWL 24S 31E UNIT LETTER **SECTION TOWNSHIP** FOOTAGE LOCATION RANGE

WELLBORE SCHEMATIC 17.5" Hole 13 3/8" 54.5# J-55 BT&C CSA 643' Cmt w/830sx TOC Surace - Circulated 12.25" Hole 9 5/8" 47# L-80 BTC SA 4344' Cmt w/1220sx TOC Surace - Circulated Pressure Gauge Control Line to Surface Fiber Control Line to Surface Oura Electric Gaslift Valve w/ control line to surface Disconnect Sub Packer w/ Flow Through Ports 5.5" 20# P-110 DQX Csq SA 14,777' MD Cmt w/2125sx TOC 410'- CBL KOP @ 9461' MD

remaing wellbore at the end of the project

Perfs @ 10,114 - 14,620

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 830 sx.

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1220 sx.

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 8.5" Casing Size: 5.5"

Cemented with: 2125 sx.

Top of Cement: 410' Method Determined: CBL

Total Vertical Depth: 10010' Total Depth: 14,784'

Injection Interval MD/TVD

feet to 11,114' / 9997' 10,114' / 9900'

(Perforated or Open Hole; indicate which)

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Received by OCD: 1/28/2025/4:55523 PM/

INJECTION WELL DATA SHEET

Tub	ubing Size: 2.875" Lining	Material: None							
Тур	ype of Packer: Feed Through Packer								
Pac	acker Setting Depth: 9500' / 9400' (MI	D/TVD)							
Oth	ther Type of Tubing/Casing Seal (if applicable): NA								
	Additional D	<u>Pata</u>							
1.	Is this a new well drilled for injection?	Yes xNo							
	If no, for what purpose was the well originally drill Producer	ed?							
2.	Name of the Injection Formation: 2nd Bone Spring								
3.	Name of Field or Pool (if applicable): Cotton Draw; Bone Spring								
4.	Has the well ever been perforated in any other zone intervals and give plugging detail, i.e. sacks of cem No	` /							
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:								
	OVERLYING: FIRST BON	E SPRING 9000'							
	UNDERLYING: THIRD BO	NE SPRING 11000'							

INJECTION WELL DATA SHEET

OPERATOR: Oxy USA Inc

WELL NAME & NUMBER: Patton MDP1 18 Federal 7H API 30-015-44273

WELL LOCATION: NENE 150' FNL 225' FEL A 18 24S 31E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC 13 3/8" 54.5# J-55 BT&C CSA 670' Cmt w/850sx TOC Surf - Circulated 12 25" Hole 9 5/8" 47# L-80 BTC SA 4355' Cmt w/1630sx TOC 700' - Temp Survey Pressure Gauge Control Line to Surface Fiber Control Line to Surface Oura Electric Gaslift Valve w/ control line to surface Packer w/ Flow Through Ports SA 9475' 5.5" 20# P-110 DQX Csg SA 15,038' MD Cmt w/2115sx TOC 1090' - CBL KOP @ 9475' MD

> Nipple w/ removeable plug to access remaing wellbore at the end of the project

Perfs @ 10,156 - 14,737

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 850 sx. or ft

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1630 sx. or ft³

Top of Cement: 700' Method Determined: Temp Survey

Production Casing

Hole Size: 8.5" Casing Size: 5.5"

Cemented with: 2115 sx. or ft³

Top of Cement: 1090' Method Determined: CBL

Total Depth: 15,048'

Total Vertical Depth: 10,018'

Injection Interval MD/TVD

10,156' / 10,020' feet to 11,156' / 10,040'

(Perforated or Open Hole; indicate which)

43

Received by OCD: 1/28/2025/455523 PMM

INJECTION WELL DATA SHEET

Tub	ing Size: 2.875 Lining Material: None							
Тур	be of Packer: Feed Through Packer							
Pac	ker Setting Depth: 9475' / 9454' (MD/TVD)							
Oth	er Type of Tubing/Casing Seal (if applicable): None							
	Additional Data							
1.	Is this a new well drilled for injection? Yes x No							
	If no, for what purpose was the well originally drilled?Producer							
2.	Name of the Injection Formation: 2nd Bone Spring							
3.	Name of Field or Pool (if applicable): Cotton 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:							
	OVERLYING: FIRST BONE SPRING 9000'							
	UNDERLYING: THIRD BONE SPRING 11000'							

KOP @9480' MD

Patton MDP1 17 Federal 2H WELL NAME & NUMBER:

30-015-44460

WELL LOCATION: 170' FSL 906' FWL FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

31E RANGE

WELLBORE SCHEMATIC

API #30-015-44460

17.5" hole

13 3/8" 54.5# J-55 BT&C SA 671" Cmt w/850sx TOC Surface - Circulated

9 5/8" 47# L-80 BTC csg @ 4410"

Cmt w/1230sx TOC Surface - Circulated

Pressure Gauge Control Line to Surface

Fiber Control Line to Surface

Oura Electric Gaslift Valve w/ control line to surface

Disconnect Sub

Perfs @ 10,265 - 14,841

Packers

Packer w/ Flow Through Ports SA 9480'

8.5" hole

Nipple w/ removeable plug to access remaing wellbore at the end of the project

5.5" 20# P-110 DQX @ 15,150"

Cmt w/2160sx TOC 1964" - Echometer

10,285' / 9987'

feet to 11,285' / 9994'

WELL CONSTRUCTION DATA

24S

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 850 sx.

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1230 sx.

Top of Cement: Surface

Method Determined: Circulated

Production Casing

Hole Size: 8.5"

Casing Size: 5.5"

Cemented with: 2160 sx.

Top of Cement: 1964'

Method Determined: Echometer

Total Depth: 15,165'

Total Vertical Depth: 9985'

Injection Interval MD/TVD

(Perforated or Open Hole; indicate which)

45

INJECTION WELL DATA SHEET

Tub	ing Size: 2.875 Lining Material: None							
Тур	be of Packer: Feed Through Packer							
Pac	ker Setting Depth: 9480' / 9460' (MD/TVD)							
Oth	er Type of Tubing/Casing Seal (if applicable): None							
	Additional Data							
1.	Is this a new well drilled for injection? Yes x No							
	If no, for what purpose was the well originally drilled?Producer							
2.	Name of the Injection Formation: 2nd Bone Spring							
3.	Name of Field or Pool (if applicable): Cotton 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) usedNo							
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:							
	OVERLYING: FIRST BONE SPRING 9000'							
	UNDERLYING: THIRD BONE SPRING 11000'							

OPERATOR: Oxy USA Inc

WELL NAME & NUMBER: Patton MDP1 17 Federal 3H API 30-015-44496

WELL LOCATION: 432' FSL 2232' FWL N 8 24S 31E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC 13 3/8" 54.5# J-55 BT&C SA 706" Cmt w/870sx TOC Surface - Circulated 12 1/4" hole 9 5/8" 47# L-80 BTC csg @ 4447' Cmt w/1235sx TOC Surface - Circulated Pressure Gauge Control Line to Surface Fiber Control Line to Surface Oura Electric Gaslift Valve w/ control line to surface Packer w/ Flow Through Ports SA 9561' 5.5" 20# P-110 DQX @ 15,200' KOP @ 9561' MD

Nipple w/ removeable plug to access remaing wellbore at the end of the project

Perfs @ 10,466 - 15,036'

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 870 sx. or

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1235 sx. or _____

Top of Cement: Surface

Method Determined: Circulated

<u>Production Casing</u>

Hole Size: 8.5" Casing Size: 5.5"

Cemented with: 2175 sx. or _____

Method Determined: Echometer

Total Depth: 15,210'

Top of Cement: 1578'

Total Vertical Depth: 10,057'

Injection Interval MD/TVD

10,466' / 10,100' feet to 11,466' / 10,055'

(Perforated or Open Hole; indicate which)

Side 2

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MAX PRESSURE AND INJECTION RATES

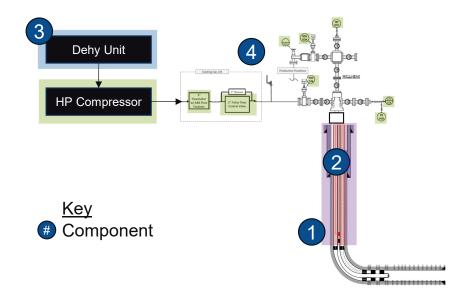
- Max surface pressure calculation for produced gas
 - 1. Determined bottom hole pressure based on 0.2 psi/ft (OCD gradient), 0.433 psi/ft (freshwater gradient), and 9500 ft (injection packer true vertical depth).
 - (0.2 psi/ft + 0.433 psi/ft) x 9500 ft = 6013 psi
 - 2. Determine surface pressure based on *PROSPER model
 - Various inputs for fluid composition, downhole equipment, bottomhole temperature, and injection rate.
 - 4590 psi max surface pressure for produced gas
- Max injection rate of 1.5-3.0 mmscf/day
 - The estimated max injection rate is limited by the injection assembly

*PROSPER is an industrial standard nodal analysis software for pressure calculation and includes phase behavior change and friction loss.

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OPERATIONAL PLAN AND COMPONENTS

- The operational plan is an integrated system, like CLGC projects, with multiple components used to mitigate potential risks regarding mechanical integrity. It consists of:
 - 1. Logging
 - Thru-tubing Magnetic impedance log, run annually
 - Caliper Inspection Log ("CIL") if necessary
 - 2. Mechanical Integrity Tests ("MITs") and well intervention
 - MIT before
 - MIT after 48 months of injection
 - 3. Corrosion prevention
 - Injection gas processed with dehydration unit
 - 4. SCADA system and wellhead diagram
 - Safety shutdown valves
 - Injection rate
 - Injection pressure, bradenhead pressure





Received by OCD: 1/28/2025/4955/28 PM/

EM LOGGING

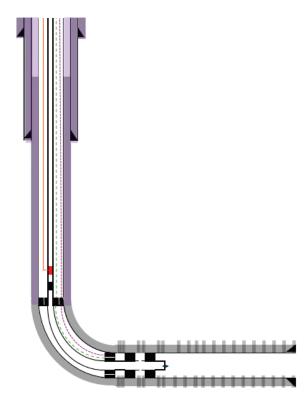
What is EM logging?

- Electromagnetic ("EM") logging is a pipe inspection tool that quantifies metal loss in one to five concentric strings of pipe in a wellbore using accurate High-Definition Frequency ("HDF") technology. This capability enables customers to examine the whole well in one trip and assess pipe condition quickly. The tool has an outside diameter of 1 1/16 in. and operates by inducing HDF electromagnetic energy into the surrounding pipe, which propagates through the concentric well strings with no wellbore fluid influences. The tool consists of two transmitters that emit continuous electromagnetic energy at multiple programmable frequencies, up to 8 frequencies each. This continuous electromagnetic energy of different frequencies and capturing the responses in arrays allows us to put more energy into the surrounding pipe, enabling us to get information on each pipe.
- EM logs will be ran once a year or when is needed due to operational changes.
- What are the benefits of EM logs compared to 40-arm caliper ("CIL")?
 - The EM log does not need to pull tubing. Additionally, the 40-arm caliper only measures the inner string internal diameter, whereas EM measures internal and external diameter. EM measures up to 5 strings and up to 2.5" of metal thickness.
- Pressure Calculation based on EM log

Formula based on Barlow's equation:

P= 0.875*(2*T*S/D), where:

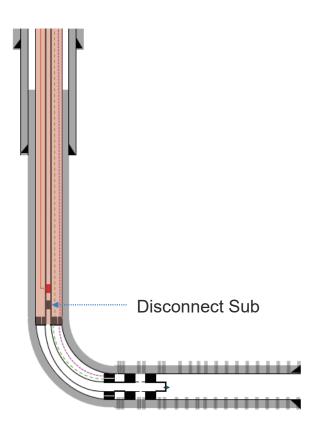
- P = Brust Pressure
 - 0.875 Safety Factor
- S = Minimum Yield Strength of the Pipe
- T = Wall thickness of the pipe
- D = Nominal OD of the pipe





MECHANICAL INTEGRITY TESTS ("MITS")

- Before injection
 - Pull production assembly
 - Run MIT
 - Install injection assembly
- After injection
 - Disconnect and pull tubing/lines from injection assembly
 - At this point, downhole data collection will cease because lines have been disconnected
 - Run MIT
 - Return well to normal production
- As a contingency, the tubing/lines can be disconnected from the injection assembly if necessary





Certificate of Analysis

Number: 6030-20110112-006A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481



Carlsbad, NM 88220

Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr.

Nov. 19, 2020

Field: Sand Dunes Sampled By: Michael Mirabal Station Name: Patton 17-1H Sample Of: Gas Spot Station Number: 17005T Sample Date: 11/11/2020 11:51

Station Location: OXY Sample Conditions: 102 psia, @ 85 °F Ambient: 60 °F 11/11/2020 11:51 Sample Point: Downstream Effective Date: GPA-2261M Formation: Quarterly Method:

County: Eddy Cylinder No: 1111-002405 Spot-Cylinder Type of Sample: : Instrument: 70104124 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 11/02/2020 0:00 AM 11/19/2020 11:35:19 by PGS Analyzed:

Sampling Method: : Fill and Purge Sampling Company: :SPL

Analytical Data

			,	
Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	NIL	NIL	NIL	
Nitrogen	1.655	1.66389	2.133	
Carbon Dioxide	1.143	1.14931	2.315	
Methane	75.365	75.77466	55.637	
Ethane	11.616	11.67923	16.073	3.118
Propane	5.810	5.84137	11.789	1.606
Iso-Butane	0.717	0.72080	1.917	0.235
n-Butane	1.725	1.73458	4.614	0.546
Iso-Pentane	0.386	0.38780	1.281	0.142
n-Pentane	0.408	0.40971	1.353	0.148
Hexanes	0.260	0.26091	1.029	0.107
Heptanes	0.214	0.21506	0.986	0.099
Octanes	0.127	0.12789	0.669	0.065
Nonanes Plus	0.035	0.03479	0.204	0.020
	99.461	100.00000	100.000	6.086
Calculated Physical Pr	roperties	Tota	I	C9+
Calculated Molecular W	eight	21.85	5	128.26
Compressibility Factor		0.9962	<u> </u>	
Relative Density Real G		0.7570)	4.4283
GPA 2172 Calculation:				
Calculated Gross BTU	per ft ³ @ 14.65 ps	sia & 60°F		
Real Gas Dry BTU		1266.5		6974.4
Water Sat. Gas Base B		1244.8		6852.4
Ideal, Gross HV - Dry at	: 14.65 psia	1261.7		6974.4
Ideal, Gross HV - Wet		1239.6	6	6852.4
Comments: H2S Field	I Content 0 ppm			

Mcf/day 602.5607

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

Patton 17-1H Injection Gas Sample

Certificate of Analysis

Number: 6030-24090912-001A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481



Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220

Field: PERMIAN RESOURCES

Station Name: Patton MDP1 17 Federal 1H Gas Lift

Station Number: 17031I

Station Location: OP-L2090-WELLS-WPI-0000003

Sample Point: Well

Property ID: FMP/LSE NMNM89172

Formation: NEW_MEXICO

County:

Well Name: Gas Lift Type of Sample:: Spot-Cylinder

Heat Trace Used: N/A Sampling Method: : Fill and Purge

Sampling Company: :OXY

Analyzed:

09/27/2024 07:49:07 by CDW

Report Date: 10/10/2024 Sampled By: CG

Gas

Sample Of: Spot Sample Date: 09/15/2024 01:00

Sample Conditions: 1164 psig, @ 109 °F Ambient: 88 °F

09/25/2024 Received Date: Login Date: 09/25/2024 Effective Date: 09/15/2024 01:00

Flow Rate: 451 MSCFD PO/Ref. No: 4502054830 Method: GPA-2261M 5030-00602 Cylinder No:

Instrument: 70142339 (Inficon GC-MicroFusion)

Last Inst. Cal.: 09/23/2024 08:22:22

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide Nitrogen Methane Carbon Dioxide Ethane Propane Iso-butane n-Butane Iso-pentane n-Pentane Hexanes Plus	0.0000 1.5101 76.0184 0.9647 12.3154 6.0478 0.8266 1.9727 0.3984 0.4184 0.3686	0.0000 1.4975 75.3843 0.9567 12.2127 5.9974 0.8197 1.9562 0.3951 0.4149 0.3655	0.0000 1.9253 55.5020 1.9323 16.8534 12.1371 2.1865 5.2181 1.3083 1.3738 1.5632	3.260 1.649 0.268 0.616 0.144 0.150 0.159 6.246	GPM TOTAL C2+ GPM TOTAL C3+ GPM TOTAL iC5+	6.246 2.986 0.453
Calculated Physical P Relative Density Real C Calculated Molecular W Compressibility Factor GPA 2172 Calculation Calculated Gross BTU Real Gas Dry BTU Water Sat. Gas Base B Ideal, Gross HV - Dry a Ideal, Gross HV - Wet Net BTU Dry Gas - real Net BTU Wet Gas - real Comments: H2S Field	Gas Veight I: J per ft³ @ 14.65 ps BTU at 14.65 psia I gas al gas	0.75 21 0.99 sia & 60°F 12 126 124	.79 962 271 249 6.1	C6+ 3.2176 93.19 5113 5024 5113.2 5023.7		

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Received by OCD: 1/28/2025/4955/28/PM/

SCADA SYSTEM AND WELLHEAD DIAGRAM

- Wellhead- Install additional spool for *fiber and *electrical cable connections.
- Various components installed at the high-pressure compressor, injection line, and wellhead.
- System will have alarms and high-pressure shutdowns.
- SCADA Plan submitted with application.

Key

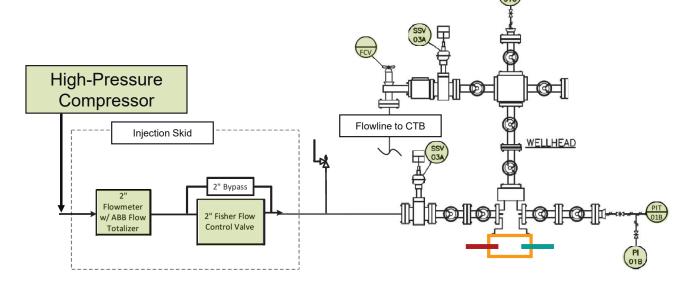
- Additional Spool
- Electrical Cable Connection
- Fiber Cable Connection
- Connected to SCADA

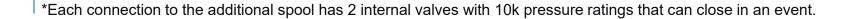
FCV Flow Control Valve

SSV Safety Shutdown Valve

PIT Pressure Transducer

PI Pressure Gauge









NM IWM SCADA PLAN

SCADA Plan

WELLSITE

Oxy USA Inc. (Oxy) will monitor the following items on wellsite 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.
 - o Injection pressure kills on production stream for injection
 - Relief Valves for both production and injection streams to prevent overpressure (not monitored via SCADA other than pressure trend)
 - o Control of injection rate and pressures via control valve
 - 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 the CTB via SCADA system:

- Production Rates
 - o Oil
 - o Gas
 - Water

HIGH-PRESSOR COMPRESSOR

Oxy will monitor the following items at the High-Pressure Compressor via SCADA system:

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

SUPERVISORY CONTROL AND DATA ACQUISTION (SCADA) DETAILS

Oxy SCADA system consists of PLCs at wellsite, CTB, and High-Pressure Compressor.

- The Programmable Logic Controller (PLCs) will act 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.

Released to Imaging: 1/29/2025412035402AMI

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.
 - o Additional reclamation will be coordinated to ensure proper recovery of contaminated soil and liquid.

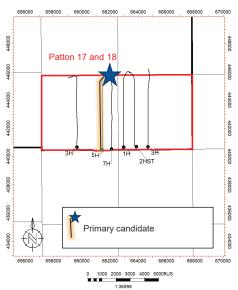
GEOLOGY

GEOLOGIC STATEMENT

The Sand Dunes 2nd Bone Spring Sand lateral wells will be injecting into the 2nd Bone Spring Sandstone of the Bone Spring Formation. The primary candidate is the Patton MDP1 18 Federal #005H, with other wells being considered as backup candidates in case of unexpected mechanical integrity issues (Table 1).

- The top of the Bone Spring Formation is at ~6,878 ft. (log depth) with over 1,200 ft. of carbonate mudstones and shales acting as additional permeability barriers to upward migration of injected gas.
- Above that the Delaware Mountain Group consists of connate-water bearing and hydrocarbon-bearing sands, with minor limestone and shale intervals and is over 3,800 ft. thick.
- Above that is the Castile Formation consisting of very low permeability anhydrite, gypsum, and calcite that acts as another 1,500 ft. thick barrier to upward movement of fluids.
- The Salado overlies the Castile and forms a 1,000 ft. thick barrier of salt. The top of the Salado is at 877 ft. and the deep aguifers found just above the Salado at the base of the Rustler are saline water.
- The top of Rustler Formation is at about 210 ft. The Rustler top is a continuous anhydrite layer that acts as another permeability barrier creating a perched aquifer above it that is the lowest level where fresh water is known in the area. Because of the thickness of multiple impermeable rock layers above the injection reservoir there is no possible path for migration upward into freshwater aquifers where they exist.
- Laterally the injection will be primarily contained by the reservoir volume that has been previously and partially depleted by the producing well. The tight low-permeability reservoir and the production from the adjacent wells will be the primary constraints on the conformance of the injection to the project area and are expected to contain the injected gas.
- There are deep Pennsylvanian-Devonian faults in the area but seismic data shows these faults do not
 extend to the confining zone at the Ochoan (Rustler, Castille, and Salado Formations) and offset is
 constrained to the top of the Third Bone Spring Limestone formation below the Second Bond Spring
 Sandstone
- There is one active monitoring well inside a 2 mile radius of the primary Patton well candidate. No groundwater wells were found.
- S. Noonan 11/14/24

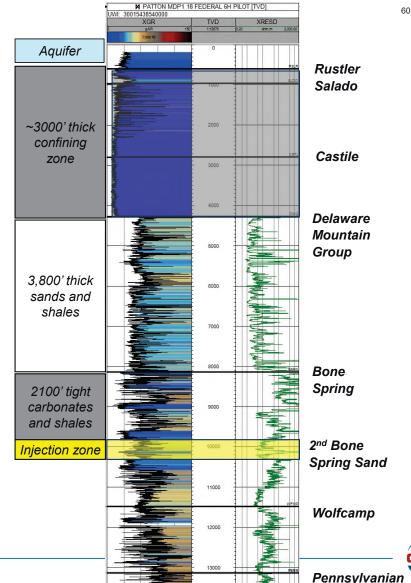
Well Name	API
PATTON MDP1 18 FEDERAL 3H	30015443330000
TPATTON MDP1 18 FEDERAL 5H	30015442720000
PATTON MDP1 18 FEDERAL 7H	30015442730000
PATTON MDP1 17 FEDERAL 3H	30015444960000
PATTON_MDP1_17_FEDERAL_1H	30015444590000
PATTON_MDP1_17_FEDERAL_2H	30015444600100





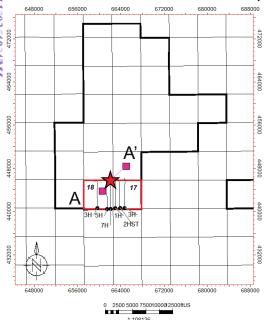
Received by OCD: 1/28/2025/4955828 PM/

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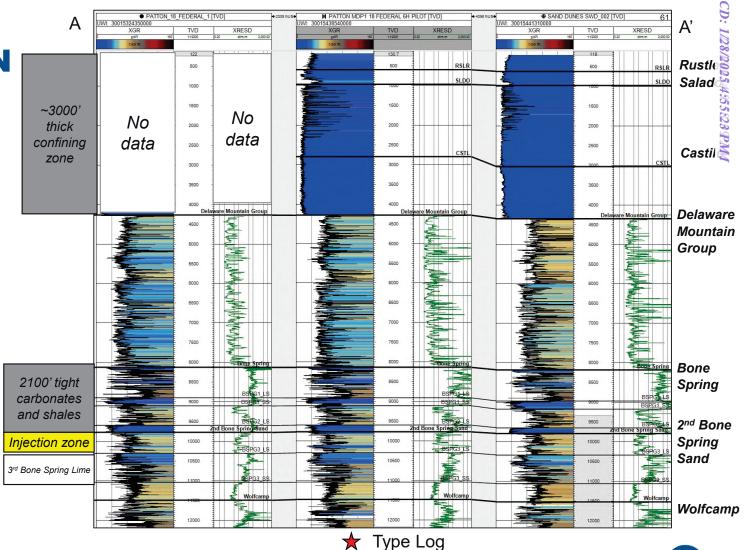


CROSS SECTION





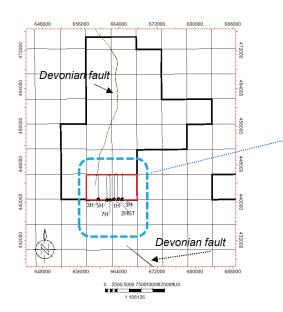
- Continuous confining zones
- · Continuous beds of carbonates and shales above injection zone





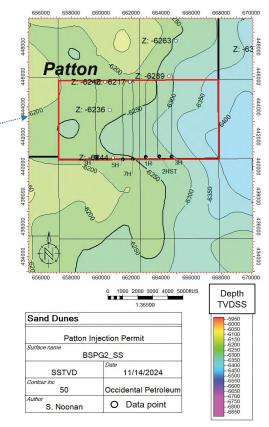
SAND DUNES – PATTON STRUCTURE MAPS

Devonain Faults at Sand Dunes

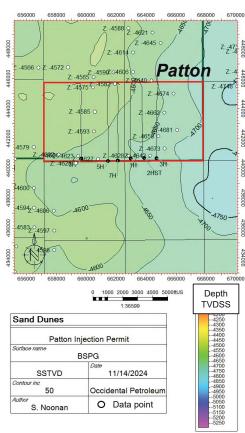


- Sand Dunes area has deep faults but Patton does not have faulting in 2nd Bone Spring Sand.
- Fault offset in Patton sections ends below the 3rd Bone Spring Limestone

Top Second Bone Spring Sand



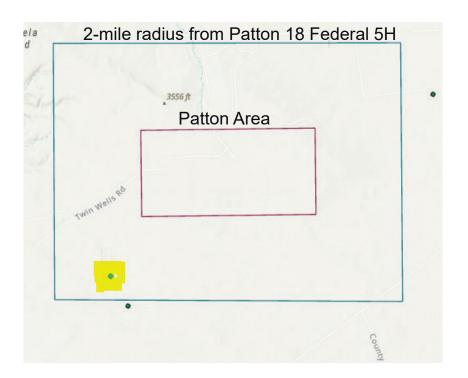
Top Bone Spring





ACTIVE GROUNDWATER WELLS

- There are several shallow wells in a 1-mile radius around the Patton area.
- One of these is active but is listed as "monitoring."





Released to Imaging: 1/29/2025 11:03:40 AMI

NOTICE

Page 76 bf 111

IWM Notice List

Party	Address						
Agencies and Surfa	ace Owners						
Dungay of Land Manageant	301 Dinosaur Trail						
Bureau of Land Mangment	Santa Fe, NM 87508						
Offset Oper	ators						
	6401 Holiday Hill Rd.						
XTO ENERGY, INC.	Building #5						
	Midland, TX 79701						
Other Affected Perso	Other Affected Persons and Parties						
Over V. 1 Company	Oxy Y-1 Company						
Oxy Y-1 Company	5 Greenway Plaza, Suite 110						
	Houston, TX 77046						
McCombs Energy Ltd	McCombs Energy Ltd						
Wiccombs Energy Ltd	755 Mulberry Ave, Suite 600						
	San Antonio, TX 78212						
US Energy Development Corp	US Energy Development Corp						
OS Energy Development Corp	1521 N. Cooper Street, Suite 400						
	Arlington, TX 76011						
Occidental Permian Limited Partnership	Occidental Permian Limited Partnership						
	5 Greenway Plaza, Suite 110						
	Houston, TX 77046						
Iranharra Darauraa II C	Ironhorse Resource LLC						
Ironhorse Resource LLC	6400 S. Fiddlers Green Circle #1720						
	Greenwood Village, CO 80111						

JANUARY 2024

OXY REGULATORY

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B
Submitted by: OXY USA INC.
Hearing Date: January 9, 2025
Case No. 25054



INTRAWELL MISCIBILITY ("IWM")

EOR PILOT PROJECT

EDUARDO SEOANE

- Work Experience
- Occidental Petroleum Houston, Texas
 2006 Present
 - Worldwide Completions Supervisor
 - Production Engineer
 - Reservoir Engineer
- Schlumberger USA2000-2006
 - Completions Engineer
 - Fracturing
 - Cementing
 - Coiled Tubing
- Education
- Bachelor of Science, Chemical Engineering Simon Bolivar University– Caracas, Venezuela



ASSEMBLY INSTALLATION PROCEDURE

- 1. Run a Magnetic log inside the tubing
- 2. MIRU & Pull tubing
- 3. Cleanout well to 12k'
- 4. Run logs:
- -RCBL, Gyro, Tractor
- 5. Return well to production
- 6. Log evaluation
- 7. MIRU WOR & Pull tubing
- 8. RIH w/ bit and cleanout to 12k'
- 9. RIH with packer on tubing for MIT
- 10.RU MIT Test

- 11.PU RIH w completion tool with packers via tubing
- 12.RDMO WO Rig
- 13. Turn over to ops
- 14. Commence HP gas injection
- 15. Commence surveillance



STEPHANIE NOONAN

Work Experience

0	Senior Staff Geologist, Delaware Basin Geomodeler – Occidental Petroleum – Houston, Texas	10/2023 - Present
0	Senior Staff Geologist, Development, Gulf of Mexico – Occidental Petroleum – The Woodlands, Texas	10/2022 - 10/2023
0	Senior Geologist, Texas Delaware Basin Development – Occidental Petroleum – Houston, Texas	2/2017 – 10/2020
0	Geologist Staff, Midland Basin Operations and Development – Occidental Petroleum – Houston, Texas	11/2013 – 2/2017
0	Geological Intern, Central Basin Platform Development – Occidental Petroleum – Houston, Texas	5/2012 - 8/2012

Education

Master of Science, Geological Sciences – University of Texas – Austin, Texas
 8/2013

Geological Intern, Central Basin Platform Development – Occidental Petroleum – Houston, Texas

Bachelor of Science – Texas A&M University – College Station, Texas



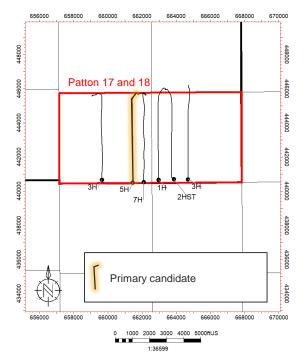
5/2011 - 8/2011

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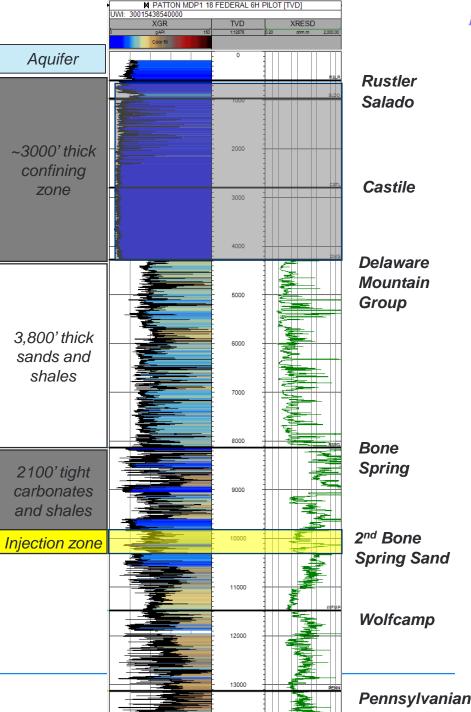
Well Name	API
PATTON MDP1 18 FEDERAL 3H	30015443330000
PATTON MDP1 18 FEDERAL 5H*	30015442720000
PATTON MDP1 18 FEDERAL 7H	30015442730000
PATTON MDP1 17 FEDERAL 3H	30015444960000
PATTON_MDP1_17_FEDERAL_1H	30015444590000
PATTON_MDP1_17_FEDERAL_2H	30015444600100





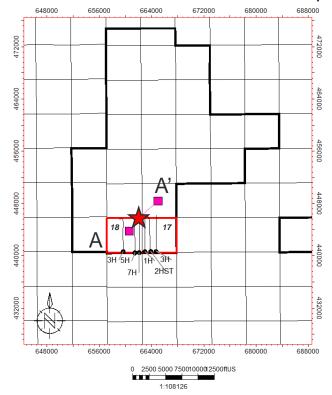
AREA TYPE LOG

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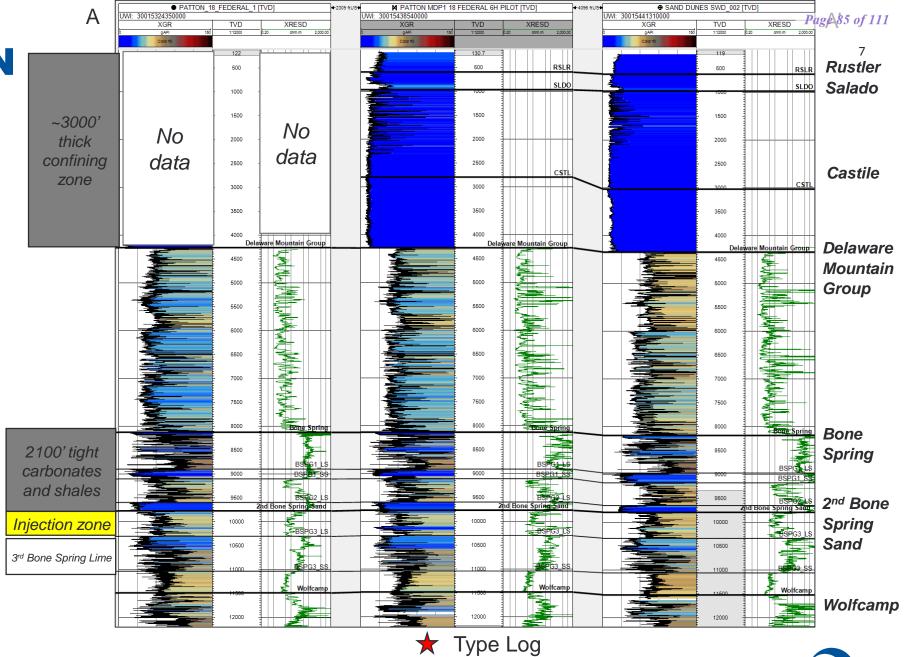


CROSS SECTION

Cross Section Location Map



- Continuous confining zones
- Continuous beds of carbonates and shales above injection zone

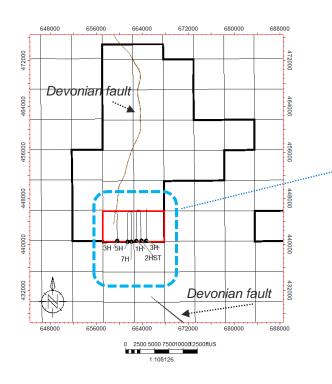






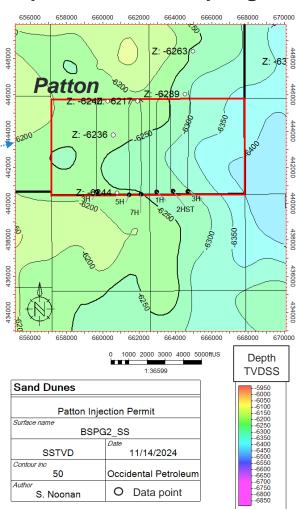
SAND DUNES - PATTON STRUCTURE MAPS

Devonian Faults at Sand Dunes

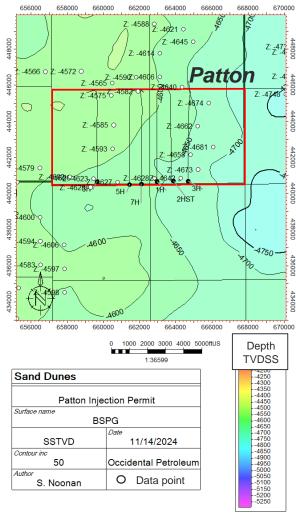


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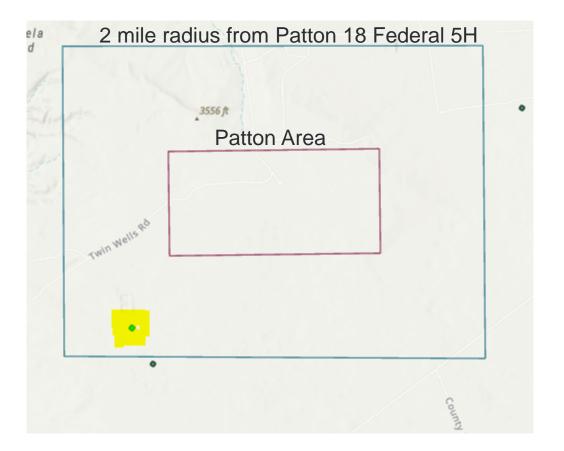
Top Bone Spring





ACTIVE GROUNDWATER WELLS

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Page 88 of 111

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

APPLICATION OF OXY USA INC. FOR A INTRAWELL MISCIBILITY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

SELF-AFFIRMED STATEMENT OF EDUARDO SEOANE

1. My name is Eduardo Seoane, and I am employed by OXY USA Inc. ("OXY") as a

petroleum engineer.

2. I have previously testified before the New Mexico Oil Conservation Division as an

expert witness in completion engineering.

3. I am familiar with the application filed by OXY in this case.

4. Listed below are the follow-up questions for OXY, following the case heard before

the Oil Conservation Division on January 9, 2025. The follow- up questions are numbered per the

email sent by Million Gebremichael to Adam Rankin on January 14, 2025. The follow-up

questions are indicated with bold text and my answers follow the arrow.

1. Pressure rating and high pressure setpoints for wellhead components and specifications

for 2.875-inch Tubing.

i. Provide pressure rating on the wellhead spool and side outlet valves for the 9-5/8-

inch Intermediate casing for each of the candidate wells.

The pressure rating on the wellhead spool and side outlet valves for the 9-5/8-inch

Intermediate casing is 5,000 psi.

ii. Provide the pressure rating on the wellhead spool and side outlet valves for the 5.5-

1

inch Production casing for each of the candidate wells.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Supplemental Exhibit No. C
Submitted by: OXY USA INC.

Hearing Date: January 9, 2025

Case No. 25054

- ➤ The pressure rating on the wellhead spool and side outlet valves for the 5-1/2" production casing is 10,000 psi.
- iii. Confirm the weight and grade for the 2.875-inch tubing installed in the candidate wells.
 - ➤ 2-3/8" tubing will be installed instead of 2-7/8" tubing. The tubing weight is 4.6 lbs/ft and grade is L-80.
- iv. Provide the burst pressure ratings for the 2.875-inch tubing.
 - ➤ 2-3/8" tubing will be installed. The burst pressure is 11,200 psi.
- v. Provide the collapse pressure ratings for the 2.875-inch tubing.
 - ➤ 2-3/8" tubing will be installed, and the collapse pressure is 11,780 psi.
- vi. Confirm which annular spaces will be monitored by the SCADA system, and the corresponding pressure shutdown setpoints:
 - a. Will the 13-3/8" x 9-5/8" Annulus be monitored by SCADA? What is the corresponding setpoint for high-pressure shutdown?
 - Yes, the 13-3/8" x 9-5/8" Annulus will be monitored by SCADA. The setpoint for high-pressure shut down is 1000 psi in alignment with CLGC order conditions.
 - b. Will the 9-5/8" x 5.5" Annulus be monitored by SCADA? What is the corresponding setpoint for high-pressure shutdown?
 - Yes, the 9-5/8" x 5-1/2" Annulus will be monitored by SCADA. The setpoint for high-pressure shut down is 1000 psi in alignment with CLGC order conditions.

- c. Will the 5.5" x 2.875" Annulus be monitored by SCADA? What is the corresponding setpoint for high-pressure shutdown?
 - ➤ 2-3/8" tubing will be installed. Yes, the 5-1/2" x 2-3/8" Annulus will be monitored by SCADA. The setpoint for high-pressure shut down is 4590 psi (proposed max allowable surface pressure).
- 4. Overview of future plans to Plug-and-Abandon the well with swellable packers remaining in the well (Refer to images below).
 - a) After the IWM pilot project is completed, will the tubing be disconnected above the production packer (ie. in the vertical section) and recovered to surface? If the tubing will be disconnected, the production packer and the tubing between the production packer and the horizontal swell packers will remain in place. In this regard, provide details on the following:
 - After the IWM pilot project is complete, the tubing above the production packer will remain in place for the remaining productive life of the well. However, it will be removed before Plug and Abandonment operations commence.
 - b) How will the production packer be removed? Does it require milling operation, similar to a permanent packer?
 - Once installed, the production packer and all the components below will remain in the wellbore for the life of the well.
 - ➤ Here is the retrieval procedure if necessary. It does not require milling:
 - 1. Before releasing the packer, ensure that the fluid in the tubing equalizes to the pressure beneath the packer or to the wellbore.

- 2. Prepare the wellhead and Blow Out Preventer (BOP) stack for pulling the injection assembly.
- 3. Chemical cut or mechanical cut below the packer.
- 4. Attach the elevators to the landing joint and apply the pulling force.
 - The pulling force above string weight required is determined by the value of the shear ring installed in the packer.
 - The value will be recorded on the Job Report from the Installation
 Technician
- Retrieval of the packer is by straight pull with an Overpull equal to 51,000
 Lbs.
 - Contingency- If the packer does not release at the expected releasing force, slack off weight and re-apply the pulling with an additional 5000 lbs.
 - Repeat the process increasing the force in 5000 lb increments until the packer releases or 80% of the tubing yield strength is reached.
 - If the packer does not release at 80% of the tubing yield strength, contact a
 Service Provider Technical Advisor for additional support.
- 6. A sudden loss in weight to the anticipated string weight will indicate that the packer has unset.
- 7. Allow packer elements to relax for 15 minutes, to avoid swabbing while pulling out of the well.
- 8. The pulling speed will be dictated by the spooling unit speed, safely winding the cables and the removal of cable protectors.

- 9. Continue to pull out of hole until the packer is reached.
- 10. Remove the packer assembly including pup joints from tubing string and lay it out on the deck.
- c) How will the tubing (that connects the production packer to the swell packers) be removed to ensure that the required formation tops in the heel section of the well can be suitably isolated with cement plugs as per OCD Plugging requirements?
 - The production packer will be set below the top of the Bone Spring formation, so it is not necessary to remove the tubing (that connects the production packer to the swell packers) before commencing PA operations.
 - ➤ If necessary, the 2 3/8" tubing string be cut above the first swell. The tubing can then be fished.
- d) Is there any option to remove the swell packer assembly if operational circumstances required it to be removed?
 - ➤ We do not anticipate the need to remove the swell packer assembly during the pilot or after the pilot.
 - ➤ The swell packer assembly can be removed by cutting above and below each swell packer then pulling it out of the hole. The estimated pulling force is 65,000 lbs to 75,000 lbs.
 - Orbital Cuts are discussed in the Coil Tubing section deploy on Coil into the Horizontal
 - ➤ If the Horizontal section is filled with debris or collapsed, run as deep as possible with an overshot. If unable to latch on, burn over the top of the fish with a shoe.

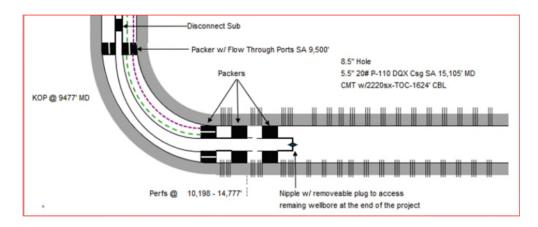
- 5. Contingency plan(s) to regain access to the toe section of the well (i.e., below the swell packers) if the plug cannot be removed from the landing nipple at the end of the tubing. Under this scenario potential waste could occur due to non-productive toe section of the well.
 - d. Please provide a list of contingencies that could be utilized to remove the plug if Coiled tubing (CT) forces (at the downhole end of the CT) are insufficient to remove the plug with a straight pull or via jarring forces.
 - To <u>restore flow access</u> and not full-bore access, punch holes in the tubing above the plug:
 - 1. Tubing conveyed perforation (TCP)
 - 2. Abrasively perforate with a Hydra Jet tool
 - 3. Mechanically punch with a tubing punch
 - To <u>restore full-bore access</u>, cut the end of the tubing off with either method:
 - Orbital cut with the Hydra-Blast tool with an abrasive cutting head.
 - If required to be even slimmer, run a radial cutting torch or chemical cutter. The downside is debris (end of the tubing) in the well.
 - Abrasively cut through completion components using Hydra-Jet tools where the jets are pointed straight down and tunnel a hole through components.
 - Mill through the nipple and plug at the end of the tubing if needed. This is not the fasted method, but it is an option.
 - e. Contingency plan if fish neck cannot be latched by the coiled tubing.
 - ➤ Usually, inability to latch the fish neck stem from debris of build-up around the fish neck.

- ➤ If this is the case, attempt to clean the neck. The cleaning strategy would be based on well conditions:
- If there are scaling tendencies or probability of organic deposits, wash with an appropriate solvent to break down a problematic deposit.
- If there is sand, wash the area and try to latch again.
 - Depending on the pulling tool used, wash through the pulling tool to clear simple blockages.
 - o For more severe blockage, washing with fluid oscillator tool.
- ➤ If cleaning does not work, damage may be a potential issue.
 - Often this is diagnosed in the field based on observations while trying to engage.
 If no diagnosis, run a diagnostic tool such as a camera or a lead impression block.
 - Refer to component diagram to see if there is somewhere else to attempt to latch it
 (i.e. in a smooth bore) if the latch profile is damaged.
 - See options above for restoring full-bore access.
- If an alignment issue, run a centralizer / stand-off guide in the tool string to ensure the pulling tool can properly engage with the fish neck. A knuckle joint or indexing tools can be added to the string if we need some extra help guiding the tool into the profile.
 - f. Contingency plan if fish neck is latched, but plug cannot be released from the landing nipple (i.e., resulting in CT being stuck-in-hole):
 - ➤ Run flow-releasable engagement tool for latching in the first place. This enables disengagement from the fish neck.
 - Run force-enhancing tools like impact hammers or jars.

- Disconnect the recovery BHA from the CT tool string and then latch onto that during the next run.
- g. Can a flow-release tool be run to disconnect from the plug by pumping through the CT?
- Yes, pulling tools can be configured with flow releasable assemblies designed to disengage from the target by applying a compressive load while pumping at a specified flow rate. These are Coil Tubing pulling tools and open inner diameter (ID), rather than solid core (Wireline tools) and have more internal parts that help the latches disengage.
- ➤ Instead of disengaging the BHA from the target, you can also separate the lower parts of the Coil Tubing BHA from the upper parts of the Coil Tubing BHA using a disconnect integrated into the Coil Tubing tool string. This is usually part of the MHA but can go anywhere in the string. With pulling tools, hydraulic disconnects are recommended, but can also be configured as a shear (straight pull) disconnect, pinned higher than your planned pulling forces.
 - h. Will a ball-drop-disconnect be run in the CT Motor-head- assembly (MHA) to disconnect from the swell packer assembly, thereby allowing the CT to be recovered to surface?
- There are no plans to pull the swell packers on Coil Tubing because the forces needed for that would likely be too high. Coil Tubing can pull up to 125K lbs, pending other factors.

- Yes, we can run a ball drop disconnect in the MHA to have a disconnect point in the BHA to let us drop the tools and pull Coil Tubing to surface. This is a normal part of a standard Coil Tubing tool string.
 - i. If ball-drop-disconnect operation was required, but circulation through the CT is not possible (i.e. plugged CT Bottomhole Assembly), will a burst disk be installed in the Motorhead assembly (MHA) to allow circulation to be reestablished, and thereby pump the disconnect ball along the horizontal section of the coil to the disconnect ball-seat located in the MHA?
 - Yes, a rupture disc sub can be incorporated into the MHA to provide the option to restore a circulation path if the lower ports on the BHA become buried / clogged. The terms rupture disc and burst disc are interchangeable.

 Rupture discs typically refer to a metal disc that ruptures; burst discs typically refer to a ceramic disc that shatters. The functionality and purpose are the same for both.



7. Question: Provide OCD with corrosion mitigation plan for the project, i.e., corrosions due to CO₂ etc.

- Injection gas will be dehydrated to water content below 15 lbs of water / MMSCF (310 ppmv). There will be no water in the line, hence no corrosion risk for the casing and OD of the tubing. Corrosion will not occur in dry gas (No aqueous phase). Water content at the dehydration unit is established, and if values are high, an alarm will be triggered.
- This corrosion mitigation plan is part of Oxy's standard operating procedures. It was also reviewed with Khlefa Esaklul. Khlefa is an industrial subject matter expert and Oxy Technical Principal in corrosion, materials, failure analysis, fitness for service, and production chemicals with 40 years of experience, working on major projects & facilities for Oxy worldwide. He is a registered Professional Engineer (PE) & Association for Materials Protection and Performance (AMPP) National Association of Corrosion Engineers (NACE) Fellow.
- 5. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

Eduardo Decar		
	1/28/2025	
Eduardo Seoane	Date	

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

APPLICATION OF OXY USA INC. FOR A INTRAWELL MISCIBILITY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

SELF-AFFIRMED STATEMENT OF XUEYING XIE

- My name is Xueying Xie, and I am employed by OXY USA Inc. ("OXY") as a petroleum engineer.
- I have previously testified before the New Mexico Oil Conservation Division as an 2. expert witness in reservoir engineering.
 - I am familiar with the application filed by OXY in this case. 3.
- Listed below are the follow-up questions for OXY, following the case heard before 4. the Oil Conservation Division on January 9, 2025. The follow- up questions are numbered per the email sent by Million Gebremichael to Adam Rankin on January 14, 2025. The follow-up questions are indicated with bold text and my answers follow the arrow.

2. Confirmation of Reservoir and PVT fluid properties

- What was the original reservoir pressure? i.
 - The original reservoir pressure is 6000 psi.
- What is the estimated current reservoir pressure? ii.
 - > The estimated current reservoir pressure 1600 psi.
- What is the estimated original and current reservoir temperatures? iii.
 - The estimated original and current reservoir temperature are both 150F.

- iv. What is the Bubble point pressure?
 - The bubble point pressure (Pb) is 3768 psi.
- v. What is the minimum miscibility pressure?
 - ➤ The minimum miscibility pressure (MMP) is 4200psi.
- vi. What is the Oil Formation volume factor (Bo) expressed in units of reservoir barrels/Stock tank barrel (rb/stb)?
 - ➤ The Oil Formation volume factor (Bo) is 1.767 rb/stb.
- vii. What is the Gas Formation volume factor (Bg) expressed in units of Reservoir Cubic Feet/Standard Cubic Feet (rcf/scf) and in Reservoir Barrels/Standard Cubic Feet (rb/scf)?
 - \triangleright The Gas Formation volume factor (Bg) is 3.06e-3 rcf/scf = 5.45e-4 rb/scf.
- viii. What is the Produced Water Formation Volume Factor (Bw) expressed in units of Reservoir Barrel/Stock Tank Barrel (rb/stb)?
 - ➤ The Produced Water Formation Volume Factor is Bw=1.
- ix. What was the initial solution gas oil ratio (Rsi) at virgin reservoir pressure?
 - The initial solution gas oil ratio (Rsi) is 1680 scf/stb.
- x. What is the producing solution gas oil ratio (Rp) at current reservoir pressure?
 - > The producing solution gas oil ratio (Rp) is currently 6000-9000 scf/stb.
- 3. Calculation of Voidage Replacement Ratio (VRR)

Using the data acquired from answering questions in question #2, provide an assessment of the Voidage Replacement Ratio (VRR) at <u>in-situ reservoir conditions</u> for the proposed injection rates using the following formula.

VRR = (Ginj * Bg) / [(Np * Bo) + (Gp * Bg) + (Wp * Bw)]

Where:

Ginj = Daily Gas injection volume (scf)

Bg = Gas Formation Volume Factor (rb/scf)

Np = Average Daily Oil Production Volume for the candidate well in stock tank barrels (stb)

Bo = Oil Formation Volume Factor (rb/stb)

Gp = Average daily gas production volume for the candidate well (scf)

Wp = Average Daily Water Production volume for the candidate well in stock tank barrels (stb)

Bw = Water formation volume factor (rb/stb)

- The Voidage Replacement Ratio (VRR) will vary over the course of the project, and it will be maintained greater than or equal to one. Initially, it will be above 10 and then decrease to between 1 to 5.
- 6. Provide OCD with the fracture gradient for the Patton MDP1 "18" Federal 5H (API No. 30-015-44272) well. The fracture gradient can be obtained from hydraulic or acid fracturing conducted on the well, or it can be acquired from offsetting wells with similar stratigraphy or lithology.
 - The fracture gradient is 0.6617 psi/ft. This is based on DFIT of offset Patton MDP1 18 Federal 1H (API No. 30-015-44317). This is in the same section and same landing depth.

7. Provide OCD with a plume model to predict the gas plume expansion in the project review area.

- ➤ On page 3, the diagram on the left illustrates the horizontal portion of the wellbore where the injection assembly will be installed to control injection and production. The dashed line represents the wellbore. The solid black lines indicate the fractures. The red text indicates the injection clusters, and the red arrows represent the injection moving into the reservoir. The gray arrows represent the injection moving through the reservoir. The green text indicates the production clusters, and the green arrows represent the production moving into the wellbore.
- ➤ One stage for simulation was modeled, and the results of the modeling show the injectant distribution at the end of four (4) years of injection. This is the diagram on the right. The color shows the molar density of hydrocarbon gas and represents the injectant plume.
- > The results of the simulation show the injectant flows from the high-pressure injection clusters to the low-pressure production clusters of the horizontal well.

3. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

Myny XI

Xueying Xie

Date

1/28/2025

OXY REGULATORY



INTRA-WELL MISCIBILITY ("IWM")

EOR PILOT PROJECT

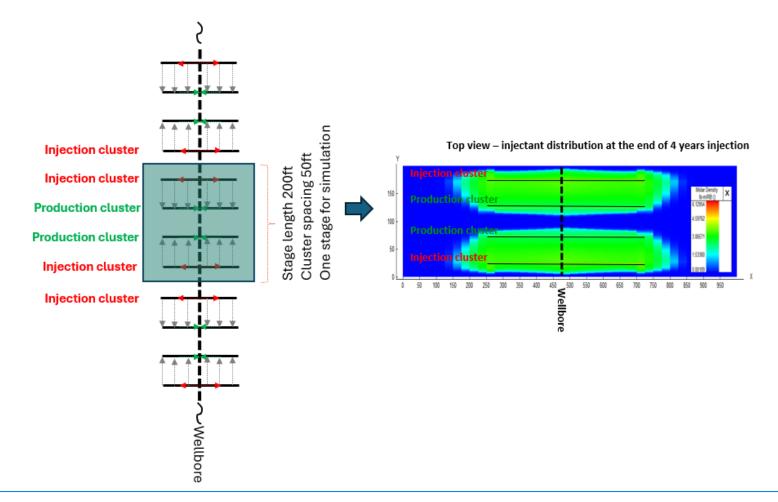


BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Supplemental Exhibit No. D-1
Submitted by: OXY USA INC.
Hearing Date: January 9, 2025
Case No. 25054

RESERVOIR SIMULATION

Released to Imaging: 1/29/2025 11:03:40 AM





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

APPLICATION OF OXY U.S.A. INC. FOR AUTHORIZATION TO INJECT AND CREATION OF AN ENHANCED OIL RECOVERY PILOT PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 25054

SELF-AFFIRMED STATEMENT OF ADAM G. RANKIN

- I am attorney in fact and authorized representative of OXY U.S.A. Inc,
 ("OXY"), the Applicant herein. I have personal knowledge of the matter addressed herein and am competent to provide this self-affirmed statement.
- 2. The above-referenced application and notice of the hearing on this application was sent by certified mail to the locatable affected parties on the date set forth in the letter attached hereto.
- 3. The spreadsheet attached hereto contains the names of the parties to whom notice was provided.
- 4. The spreadsheet attached hereto contains the information provided by the United States Postal Service on the status of the delivery of this notice as of December 27, 2024.
- 5. I caused a notice to be published to all parties subject to this proceeding. An affidavit of publication from the publication's legal clerk with a copy of the notice publication is attached herein.
- 6. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. E
Submitted by: OXY USA INC.
Hearing Date: January 9, 2025
Case No. 25054

Adam G. Rankin

01/02/25

Date



Adam G. Rankin Phone (505) 988-4421 Email agrankin@hollandhart.com

December 20, 2024

<u>VIA CERTIFIED MAIL</u> CERTIFIED RECEIPT REQUESTED

TO: ALL AFFECTED PARTIES

Re: Application of OXY USA Inc. for Authorization to Inject and Creation of an Enhanced Oil Recovery Pilot Project, Eddy County, New Mexico.

Ladies & Gentlemen:

This letter is to advise you that OXY USA Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on January 9, 2025, and the status of the hearing can be monitored through the Division's website at https://www.emnrd.nm.gov/ocd/.

It is anticipated that hearings will be held in a hybrid format with both in-person and virtual participation options. The meeting will be held in the Pecos Hall Hearing Room at the Wendall Chino Building, 1st Floor, 1220 South St. Francis Dr., Santa Fe, New Mexico. To participate virtually in the hearing, see the instructions posted on the OCD Hearings website: https://www.emnrd.nm.gov/ocd/hearing-info/.

You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date. Parties appearing in cases are required to file a Pre-hearing Statement four business days in advance of a scheduled hearing that complies with the provisions of NMAC 19.15.4.13.B.

If you have any questions about this matter, please contact Stephen Janacek at 972-404-3722 or Stephen Janacek@oxy.com.

Sincerely,

Adam G. Rankin

ATTORNEY FOR OXY USA INC.

Oxy - IWM Pilot - Case no. 25054 Postal Delivery Report

9414811898765459559776	Bureau of Land Mangment	301 Dinosaur Trl	Santa Fe	NM	87508-1560	Your item was delivered to the front desk, reception area, or mail room at 12:39 pm on December 26, 2024 in SANTA FE, NM 87508.
9414811898765459559950	Ironhorse Resource LLC	6400 S Fiddlers Green Cir Ste 1720	Greenwood Village	со	80111-4961	We attempted to deliver your item at 11:13 am on December 24, 2024 in ENGLEWOOD, CO 80111 and a notice was left because an authorized recipient was not available.
9414811898765459559929	McCombs Energy Ltd	755 E Mulberry Ave Ste 600	San Antonio	TX	78212-6013	Your item arrived at our SAN ANTONIO TX DISTRIBUTION CENTER destination facility on December 26, 2024 at 1:12 pm. The item is currently in transit to the destination.
9414811898765459559998	Occidental Permian Limited Partnership	5 Greenway Plz Ste 110	Houston	TX	77046-0521	We now anticipate delivery of your package the next business day. We apologize for the delay.
9414811898765459559943	Oxy Y-1 Company	5 Greenway Plz Ste 110	Houston	TX	77046-0521	We now anticipate delivery of your package the next business day. We apologize for the delay.
9414811898765459559981	US Energy Development Corp	1521 N Cooper St Ste 400	Arlington	TX	76011-5537	Your item was delivered to an individual at the address at 10:36 am on December 26, 2024 in ARLINGTON, TX 76011.

Oxy - IWM Pilot - Case no. 25054 Postal Delivery Report

						Your item was delivered to
						the front desk, reception
						area, or mail room at 10:57
						am on December 26, 2024 in
9414811898765459559936	XTO Energy Inc.	6401 Holiday Hill Rd Bldg 5	Midland	TX	79707-2157	MIDLAND, TX 79707.

AFFIDAVIT OF PUBLICATION

CARLSBAD CURRENT-ARGUS PO BOX 507 HUTCHINSON, KS 67504-0507

STATE OF NEW MEXICO } SS

Account Number: 1232 Ad Number: 26950

Description: Oxy IWM Pilot Case No 25054

Ad Cost: \$142.41

Sherry Groves, being first duly sworn, says:

That she is the Agent of the the Carlsbad Current-Argus, a Weekly newspaper of general circulation, printed and published in Carlsbad, Eddy County, New Mexico; that the publication, a copy of which is attached hereto, was published in said newspaper on the following dates:

December 21, 2024

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

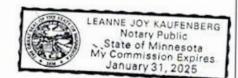
Sherry Drives

Agent

Subscribed to and sworn to me this 21th day of December 2024.

Leanne Kaufenberg, Notary Public, Redwood County
Minnesota

KARI REESE HOLLAND & HART LLP 420 L STREET, SUITE 550 ANCHORAGE, AK 99501 kireese@hollandhart.com



Santa Fe, New Mexico
Exhibit No. F
Submitted by: OXY USA INC.
Hearing Date: January 9, 2025
Case No. 25054

PUBLIC NOTICE

Case No. 25054: Application of OXY USA Inc. for Authorization to Inject and Creation of an Enhanced Oil Recovery Pilot Project, Eddy County, New Mexico. Notice to all affected interest owners, including all heirs, devisees and successors of: Bureau of Land Management; Ironhorse Resource LLC; McCombs Energy Ltd.; Occidental Permian Limited Partnership; Oxy Y-1 Company; US Energy Development Corp.; XTO Energy Inc.

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearing 8:30 a.m. on January 9, 2025, to consider this application. The hearing will be conducted in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To participate in the hearings electronically, see the instructions posted on the docket for the hearing date: https://www.emnrd.nm.gov/ocd/hearing-info/ or contact Freya Tschantz, at Freya.Tschantz@emnrd.nm.gov. Applicant the seeks an order authorizing OXY to inject for purposes of an enhanced oil recovery ("EOR") pilot project in the Second Bone Spring Sand interval within the Bone Spring formation ("Pilot Project"), dedicated to a proposed project area comprised of approximately 960-acres, more or less, in Eddy County, New Mexico, (the "Project Area"), as

Township 24 South, Range 29 East Section 17: W/2

Section 18: E/2 W/2: E/2

Applicant proposes to initiate an Intra-Well Miscibility ("IWM") EOR injection pilot project within a Applicant proposes to initiate an Intra-Well Miscibility ("IWM") EOR injection pilot project within a single existing horizontal well. OXY seeks authority to use one of the following six existing horizontal wells within the Project Area to serve as the IWM EOR injection well:

* The Patton MDPI "18" Federal 5H (API No. 30-015-44272);

* The Patton MDPI "17" Federal 1H (API No. 30-015-44459);

* The Patton MDPI "18" Federal 3H (API No. 30-015-44273);

* The Patton MDPI "17" Federal 2H (API No. 30-015-44460); and

* The Patton MDPI "17" Federal 3H (API No. 30-015-44460);

Applicant seeks authority to inject produced gas from the Delaware Bone Society and Welfacet.

Applicant seeks authority to inject produced gas from the Delaware, Bone Spring, and Wolfcamp pools into the Second Bone Spring interval of the Bone Spring formation along the horizontal portion of one of the candidate wellbores between approximately 9,900 feet and 10,100 feet true vertical depth. The maximum allowable surface injection pressure is proposed to be 4,590 psi. The proposed average daily injection rate is expected to be approximately 1.5 MMSCF/day with an expected maximum injection rate of 3 MMSCF/day. The subject acreage is located approximately 3 miles southeast of Malaga, New Mexico.

Published in the Carlsbad Current-Argus December 21, 2024. #26950