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.

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

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:

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

ATTORNEYS FOR OXY USA INC.

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**

DECEMBER 2024

OXY REGULATORY



INTRA-WELL MISCIBILITY ("IWM")

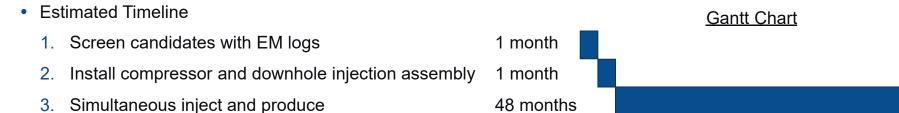
EOR PILOT PROJECT



PROJECT OVERVIEW

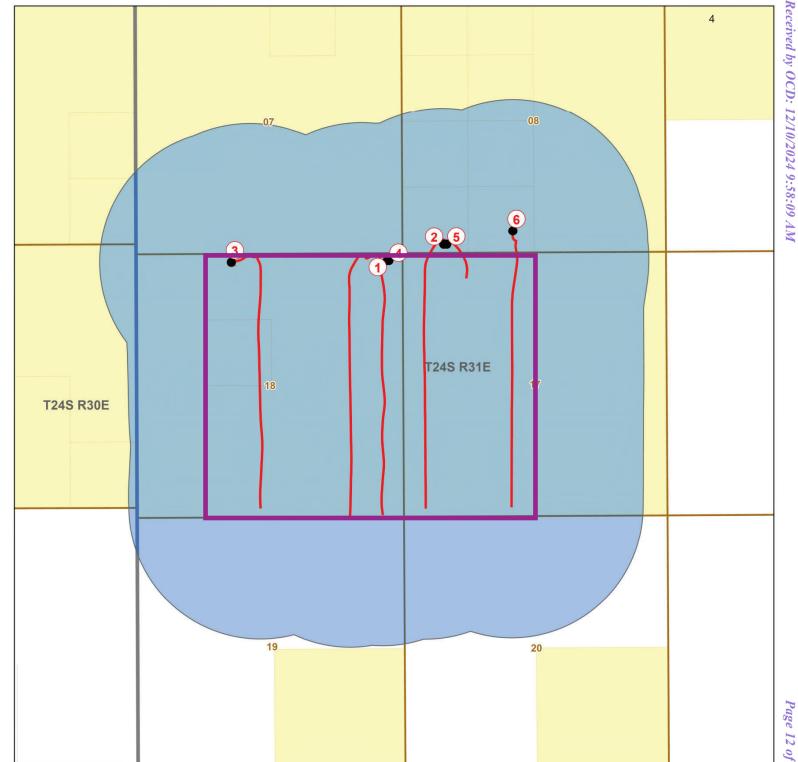
PROJECT OVERVIEW

- 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.





WM Pilot Project Project Area Map



<u>Key</u> Project Area Outline Oxy Leasehold IWM Candidate well 1/2 Mile Buffer

Page 12 of 74

CANDIDATE LIST AND REQUESTED RELIEF

	Candi	date 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 Application qualifies for administrative approval? Yes Yes No
II.	OPERATOR:OXY USA INC
	ADDRESS:P.O. BOX 4294, HOUSTON, TX, 77210-4294
	CONTACT PARTY:STEPHEN JANACEKPHONE: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 wit 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: DATE: 12/9/2024
*	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.

District 1
1623 N. French Dr., Hobbs, NM 88240
Floate: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>.
811 S. First St., Astesia, NM 88210
Phane: (575) 748-1283 Fax: (575) 748-9720
<u>District III</u>.
1000 Rio Brauns Rosel, Astes, NM 87410
Floate: (505) 134-6178 Fax: (505) 334-6170
<u>District IV</u>.
1220 S. S. Francis Dr., Santa Fa, NM 87505
Phane: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT
As Drilled

mydd 15079 WOff 160609WL-a-XY (Rev. A) (KA)

4 77 76	V	VELL LOCATION		ACRE	AGE D	EDICATIO	N PLAT			_
30-015-44272	unioer	13367 Pool	Code	Cott	on Draw;	Bone spring	Pool Name			
Property Code 316483		PAT	TON M	Property Na DP1 "1		DERAL			P	Vell Number 5H
<i>OGRID No.</i> 16696			OX	Operator No.						Elevation
				ace Loc			····		3	<i>523.8</i> '
UL or lot no. Section	Township	Range				North/South line	Feet from the	East/We	st line	County
A 18 A	24 SOUTH	31 EAST, N.	М. Р. М.		150'	NORTH	285'	EAS	T	EDDY
		Bottom Hol	e Locatio				e			<u> </u>
UL or lot no. Section P 18 2	Township	Range		Lot Ida F	Section 1995	North/South line	Feet from the	East/We	est line	County
	24 SOUTH	31 EAST, N.I	M. P. M.	1	,	SOUTH	1035'	EAS	T	EDDY
	Joint or Infill Y	Consolidation Code	Order No. NSL-752	4, TP: 35	58 FNL 10	26 FEL, BP: :	358 FSL 102	4 FEL		•
No allowable will be division.	e assigned to	this completion un		ests have	§ H50.	colidated or a 1	445837.29 US 703668.56 US	unit has b	рееп арр	roved by the
			KICK OFF NEW MEXIC NAD 1 Y=445782. Y=702631. LAT.: N 32. LONG.: W 10. TOP P NEW MEXIC NAD 1 Y=445492. X=702633. LAT.: N 32. LONG.: W 10. RUD AZ = 2 756.5: SURFACE L NEW MEXIC NAD 1 Y=4454892. LAT.: N 32. LONG.: W 10. BOTTOM NEW MEXIC NAD 1 Y=4408880. LAT.: N 32. LONG.: W 10. OTTOM HOLE NEW MEXIC NAD 1 Y=4408880. LAT.: N 32. LONG.: W 10. OTTOM HOLE NEW MEXIC NAD 1 Y=4408880. LAT.: N 32. LONG.: W 10. OTTOM HOLE NEW MEXIC NAD 1 Y=4408880. LAT.: N 32. LONG.: W 10. OTTOM HOLE NEW MEXIC NAD 1 Y=440788. ONG.: W 10. OTTOM HOLE NEW MEXIC NAD 1 Y=440788. ONG.: W 10.	20 EAST 983 10 US FT 2244552" 3.8117376" ERF. CO EAST 983 11 US FT 11 US FT 1236580" COCATION CO EAST 983 16 US FT 12241805" 3.8093124" EPERF. CO EAST 983 10 US FT 12241805" S.8117432" EVERF 10 EAST 983 10 US FT 12241805" S.8117432" EVERF 10 EAST 983 10 US FT 1241805" S.8117432" EVERF 10 EAST 983 10 US FT 1241805" S.8117432" EVERF 10 EAST 983 10 US FT 1241805" EVERF 10 US FT	TITILIANTILI	1035/11	I bereby cert complete to the	the best of any beam cither owns a wear the send inchesting a drill this well at a ref such a mineral by the division of such a mineral by the division of such a mineral by the division of such as s	exitian contained whether interest of the proposed to this location part of the computation of the computati	to kerein is true and live, and that this or unlessed mineral stams hale location or constant to a contract interest or so a pooling order 1/27/17 Date 100N 1

Y=440546.64 US FT X=702370.97 US FT Y=440552.99 US FT X=703690.31 US FT

9

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

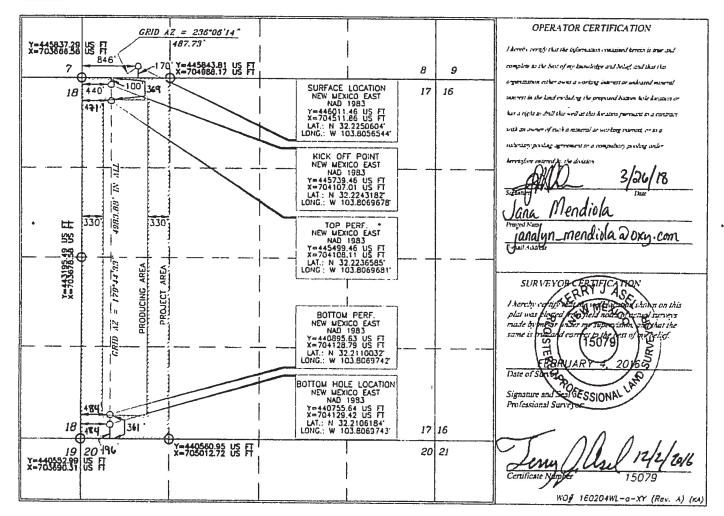
AMENDED REPORT

(AS-Dalled)

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Cotton 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, Artes, 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

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

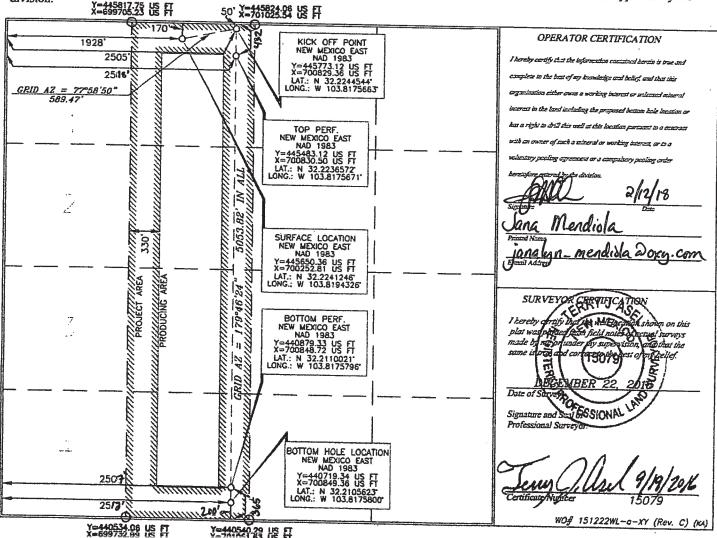
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

> AMENDED REPORT (As-Dilled)

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 16696 Elevation OXY USA INC. 3534.0'

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. 300 200 SOUTH WEST **EDDY** 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.



Y=440540.29 IE FT X=701051.63 US FT Released to Imaging: 12/11/2024 12:35:32

11

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phane: (575) 393-6161 Fac: (575) 393-0720 Final (373) 339-0101 Fax: (373) 339-0720 Dignist II. 811 S. Finat St., Artesia, NM 88210 Phame (375) 749-1283 Fax: (375) 749-9720 District III. 1000 Kio Brazas Road, Aztoc, NM 87410 1000 Rio Brusos Road, Aztec, NM 87410 Featur: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Fenneis Dr., Santo Fe, NM 87505 Phane: (505) 476-3460 Fax: (505) 476-3462

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

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

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 F 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 centify and the well the Bigo shown on this s flower from sighteness of located surveys major police my supervision, and that the militian compet to the best of they belief. BOTTOM PERF. NEW MEXICO EAST NAO 1983 Y=440891.16 US FT X=703308.80 US FT hown on this plat was $|\mathbf{u}|$ made bu AZ STE LAT.: N 32.2110019* LONG.: W 103.8096254* 15079 ESIONAL LAND Signature and Professional

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°

Y=440546.64 US FT X=702370.97 US FT

Certificate Numb

Y=440552.99 US FT X=703690.31 US FT

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
RECEIVE Submit one copy to appropriate
District Office

AMENDED REPORT

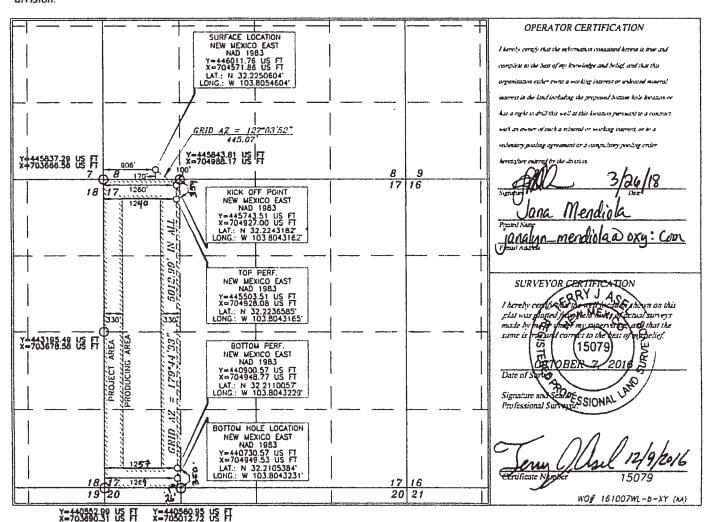
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-44		Pool Code 13367		Coffen	Draw	Bone G	orina		
Property Code	Property Code Property Name								
319619	BI9619 PATTON MDP1 "17" FEDERAL								2H
OGRID No.		Operator Name							
16696	OXY USA INC.							38	529.3'
		Surfa	ce Lo	ocation					
UL or lot no. Section	Township	waship Range Lot Idn Feet from the North-South line Feet from the East							County

SOUTH 24 SOUTH 31 EAST, N.M.P.M. 170' WEST EDDY 906' 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. Order No. Dedicated Acres Joint or Infill Consolidation Code 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

Diariet I 1025 N. Franch Dr., Hobbs, NM 88240 Phase: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Americ, NM 88210 Phone: (373) 748-1253 Fax: (375) 748-9720 Panet (273) 144-153 Feet (273) 144-1720 Dimpt III 1007 Ros Brason Rosel, Ames, RM 87410 Phames (200) 334-6173 Feet (200) 134-6173 Dimbs PV 1220 S. St. Finneis De, Santa F., RM 87543 Phames (503) 476-3463 Feet (502) 476-3462 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

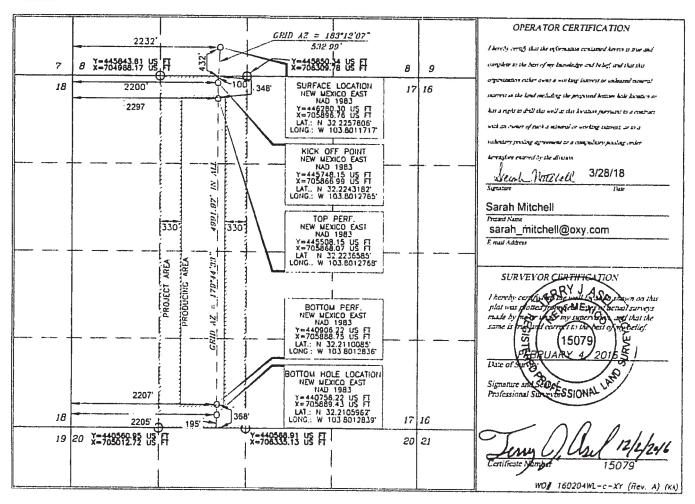
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44496	Pool Code 13367	COTTON DRAW; BONE SPRING		
Property Code 319619		perty Name "17" FEDERAL	Well Number 3H	
OGRID No. 16696	•	rator Name ISA INC.	Elevation 3540.8'	
10000		ISA INC.		

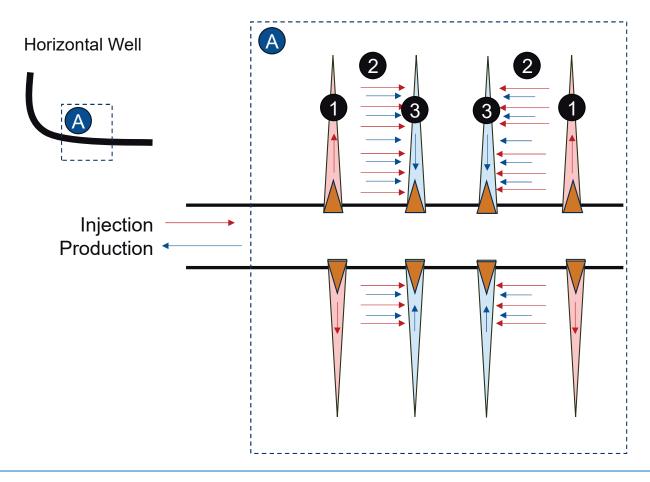
			Dan		CallOll				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East West line	County
N	8	24 SOUTH	31 EAST, N.M.P.M.		432'	SOUTH	2232,	WEST	EDDY
			Detter Hale Land	TC1	7.00				

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 Counts 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.



WHAT HAPPENS DOWNHOLE?



- 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



Received by OCD: 12/10/2024 9:58:09 AM

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 ADDE
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 ADDEI
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 ADDEI
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 ADDEI
CHUCK SMITH MDP1 8 17 FED COM 23H	30-015-54260	COTTON DRAW; BONE SPRING	13367	CA PENDING	TO BE ADDEI

30-015-54091

30-015-54049

30-015-54096

30-015-54047

30-015-54094

30-015-54095

COTTON DRAW; BONE SPRING

PURPLE SAGE; WOLFCAMP (GAS)

13367

98220

98220

98220

98220

98220

CHUCK SMITH MDP1 8 17 FED COM 44H

CHUCK SMITH MDP1 8 17 FED COM 2H

CHUCK SMITH MDP1 8 17 FED COM 3H

CHUCK SMITH MDP1 8 17 FED COM 24H

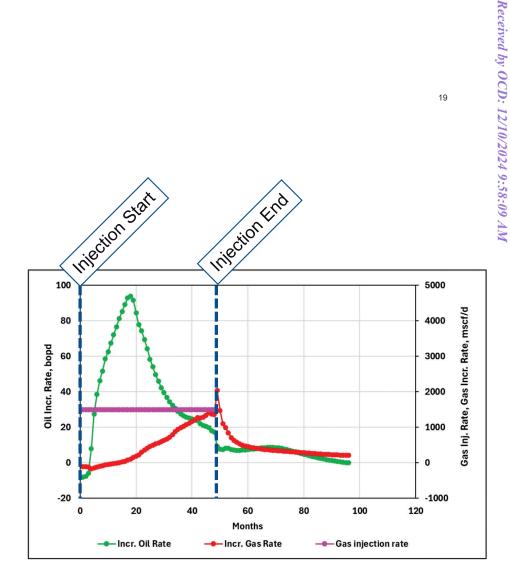
CHUCK SMITH MDP1 8 17 FED COM 25H

CHUCK SMITH MDP1 8 17 FED COM 26H

	18
	_
CA PENDING	
E/2 SEC 8 & 17	TO BE ADDED
CA PENDING	
W/2 SEC 8 & 17	TO BE ADDED
CA PENDING	
E/2 SEC 8 & 17	TO BE ADDED
CA PENDING	
E/2 SEC 8 & 17	TO BE ADDED
CA PENDING	
E/2 SEC 8 & 17	TO BE ADDED
CA PENDING	
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 Car	ndidates in existing C	LGC Order R-22208	
4	OR ID	API NUMBER	Current Operator	LEASE NAME	WELL NUM BER
	1	30-015-44272	OXY USA INC	PATTON MDP1 18 FEDERAL	005H
V	2	30-015-44459	OXY USA INC	PATTON MDP1 17 FEDERAL	001H
	3	30-015-44333	OXY USA INC	PATTON MDP1 18 FEDERAL	003H
	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.



1/2024 12:35:32 PM

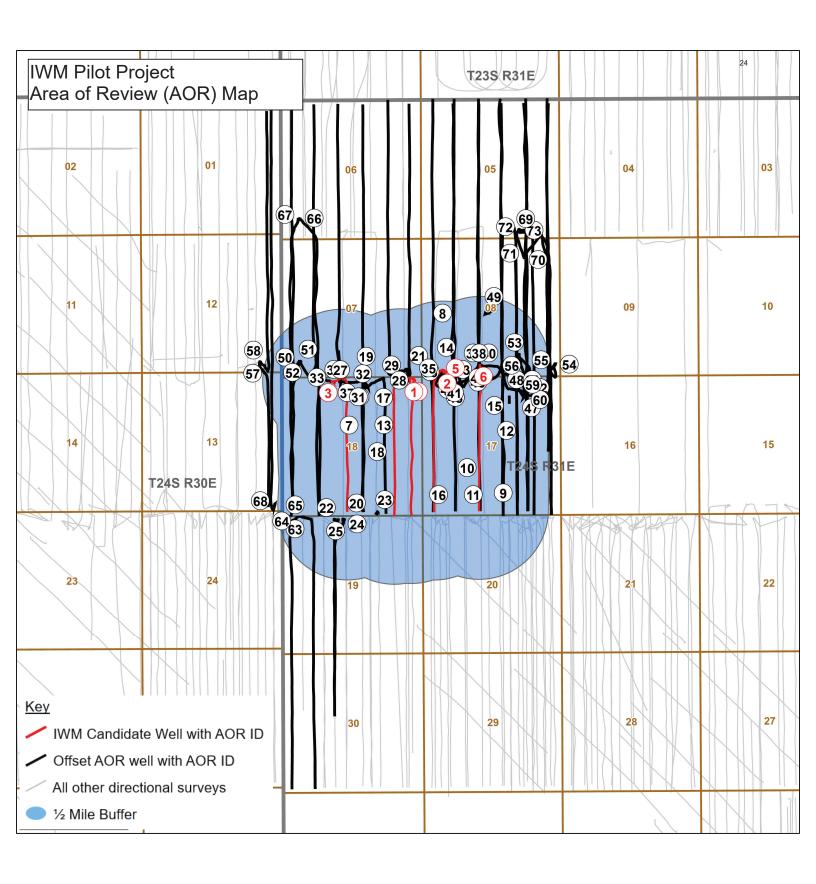


AREA OF REVIEW

2 MILE MAP- MINERAL OWNERSHIP

24 12:	+ ▼ Search by API or Tow	rnship Q			V035890002		A CANSISTAN		K 00 95 200 01
25.32 P	- · · · · · · · · · · · · · · · · · · ·	E052290014	11/04/11/1	06	05	04	11/03/1	K050180002	101.01 00
₹	Project Area Outline	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				VB05200002	My James		128
	NM SLO Oil and Gas Leases Oil and Gas Leases	Mondo		N	7				
0	Oil and Gas Leases		12 N	07	08	111/99/11/	[[]]	11	12 07
	Oil and Gas Leasing Restrictions			3556 ft					
	Mineral and Surface Ownership							3582 ft	
	Mineral Ownership					V.057890	002		100
1	7 minown	,,,,, 1 4,,	13 A	¹⁸ Artesia	(2) 1	V 023 72 00 05	15	14	13 18
	A-All minerals are owned by U.S. C-Only coal is owned by the U.S.	VE.			S-3	1/24/1949	31E		Hobbs (1
	G-Only oil, gas and coal are owned by					VB25380001		o Rd	
	the U.S. N-No minerals are owned by the U.S.						Buck lack	N	
2	O-Only oil and gas are owned by the U.S.	23	24						
_	T-Other minerals are owned by the U.S.	23	24	19	20	21	22	23	24 19
	Public Land Survey System (PLSS)	All all all							
	PLSS Townships								
							20.00		
2	PLSS First Division	26	25	20	20	20 0	0.7	20	25 24
_		20	23	30	29	28 County (27	26 3521 ft	25 30
	2km				29	poad		1 - / 3	POWERED BY
3	33 1 mi 31 33 ft -; 4-103.87	129 32.18354 Degre	es 6050002	31 Esri i	ASA, NGA, USG	S, FEMA Texas P	arks & Wildlife, C	ONANP, Esri, Ton	19 21 317





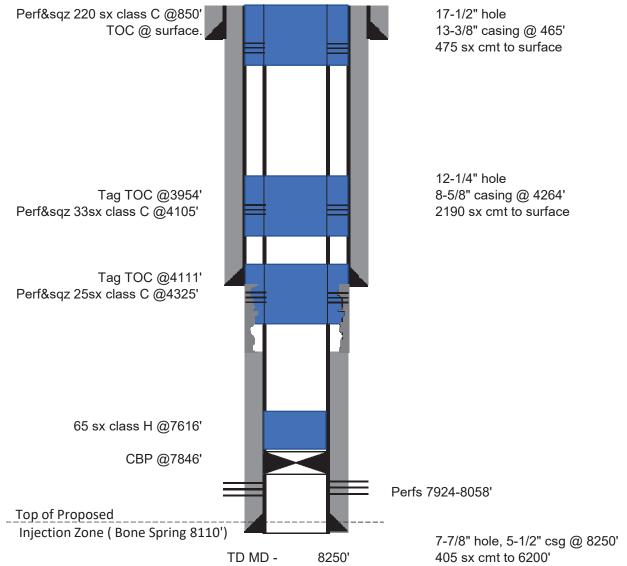
Page 33 of 74

R Table																		
DR API NUMBER	Current Operator	LEASE NAME	WELL NUMB Well Type:	Status:	Footages N/S	Footages E/W	/ Location Locatio	Surface Surface	n Spud:	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	OOSH Oil	Active	150 N	285 E	A 1	S 24S 31E	8/26/2017	Depth: 10016	10198-14778	17.500 12.250	13.375 9.625	672 4355	947 1970	Surf Circ 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	11/3/2017	9996	10309-14860	8.500 17.500 12.250	5.500 13.375 9.625	15105 664 4394	2220 850 1380	1624 CBL Surf Circ Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPRING
3 30-015-44333	OXY USA INC	PATTON MDP1 18 FEDERAL	003H Oil	Active	170 N	1928 W	C 1	8 24S 31E	9/7/2017	10010	10114-14620	8.500 17.500 12.250	5.500 13.375 9.625	15011 643 4344	2165 830 1220	516 CBL 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 1	8 24S 31E	8/29/2017	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	М	8 24S 31E	11/8/2017	9985	10265-14841	8.500 17.500 12.250	5.500 13.375 9.625	15038 671 4410	2263 850 1230	1090 CBL Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPRING
6 30-015-44496	OXY USA INC	PATTON MDP1 17 FEDERAL	003H Oil	Active	432 S	2232 W	N	8 24S 31E	11/20/2017	10060	10466-15036	8.500 17.500	5.500 13.375	15150 706	2160 870	1964 Echometer 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 1	8 24S 31E	6/5/1993	8250	NA	12.250 8.500 17.5	9.625 5.500 13.375	4447 15200 465	1235 2175 475	Surf Circ 1578 Echometer Surf CIRC		NA
									- 1-1			12.25 7.875	8.625 5.500	4264 8250	2190 405	Surf CIRC 6200 CBL		
8 30-015-28654	CHEVRON U S A INC	LOTOS FEDERAL	802 Oil	PA	1980 S	660 W	L	8 24S 31E	2/8/1998	8340	NA	14.75 11 7.875	11.750 8.625 5.500	643 4160 8340	590 1625 1250	Surf CIRC Surf CIRC 4100 CALC		NA
9 30-015-29279	OXY USA INC	PATTON 17 FEDERAL	001 Oil	PA	822 S	2581 E	0 1	7 24S 31E	12/20/1996	8280	NA	17.5 11 7.875	13.375 8.625 5.500	655 3995 8280	900 2108 1630	Surf CIRC Surf CIRC Surf CIRC		NA
10 30-015-29604	OXY USA INC	PATTON 17 FEDERAL	002 Oil	Active	1650 S	2250 W	K 1	7 24S 31E	5/8/1997	9700	8122-8161	17.5 11	13.375 8.625	668 4275	750 1760	Surf CIRC 22 TS		[50382] POKER LAKE; DELAWARE
11 30-015-29824	OXY USA INC	PATTON 17 FEDERAL	006 Oil	Active	330 S	1800 W	N 1	7 24S 31E	10/10/1997	8290	8094-8132	7.875 14.75 9.875	5.500 10.750 7.625	9700 668 4225	1100 650 1678	6710 Calc Surf circ Surf circ		[50382] POKER LAKE; DELAWARE
12 30-015-29904	OXY USA INC	PATTON 17 FEDERAL	007 Oil	Active	2075 N	2600 E	G 1	7 24S 31E	5/23/1998	8320	7974-8150	6.75 14.75	4.500 10.750	8290 635	910	2120 calc Surf circ		[50382] POKER LAKE; DELAWARE
		PATTON 18 FEDERAL										9.875 6.34	7.625 4.500	4250 8320	1090 1135	Surf circ 3375 calc		
13 30-015-32435	OXY USA INC	PATTON 18 FEDERAL	001 Gas	Active	1980 N	1980 E	G 1	8 24S 31E	9/20/2003	13223	7868-8060	17.500 11.000 7.875	13.375 8.625 5.500	758 4175 11770	1050 1550 1520	Surf circ Surf circ 4218 TS		[50382] POKER LAKE; DELAWARE
14 30-015-32775	OXY USA INC	SUNDANCE 8 FEDERAL	003Q Oil	Active	660 S	660 W	М	8 24S 31E	5/19/2003	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 1	7 24S 31E	9/28/2004	8380	9746-8162	7.875 17.500 11.000	5.5 13.375 8.625	960 4261	760 1750	surf cbl Surf Circ Surf Circ		[50382] POKER LAKE; DELAWARE
16 30-015-33034	OXY USA INC	PATTON 17 FEDERAL	009T Oil	PA	330 S	330 W	M 1	7 24S 31E	10/17/2004	8375	NA	7.875 17.500 11.000	5.500 13.375 8.625	8380 1005 4215	1755 800 1500	Surf clRC 2780 TS		NA
17 30-015-33451	OXY USA INC	PATTON 18 FEDERAL	003 Oil	Active	660 N	1980 E	B 1	8 24S 31E	9/8/2004	8270	7950-8047	7.875 17.500 11.000	5.500 13.375 8.625	900 4170	1550 1100 1450	600 CBL Surf circ Surf circ		[96046] POKER LAKE; DELAWARE, NOF
18 30-015-33710	OXY USA INC	PATTON 18 FEDERAL	004 Oil	Active	1980 S	1980 E	J 1	8 24S 31E	11/29/2004	8300	7944-8042	7.875 17.500 11.000	5.500 13.375 8.625	8270 965 4207	1570 975 1350	Surf cbl 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	1/10/2005	8308	NA	7.875 17.500	5.500 13.375	8300 1007	1480	4590 cbl Surf CIRC		NA
20 20 015 22025	OVV LICA INC	DATTON 10 FEDERAL	005 00	Anti	220.5	2210 W	N	0.245 245	1/20/2000	9275	7072 0050	11.000 7.875	8.625 5.500	4193 8308	1300 1975	Surf CIRC Surf CIRC		(OCOAC) DOVED LAVE, DELAWADE NODE
20 30-015-33825	OXY USA INC	PATTON 18 FEDERAL	006 Oil	Active	330 S	2310 W	N I	8 24S 31E	1/29/2005	8275	7872-8050	17.500 11.000 7.875	13.375 8.625 5.500	935 4200 8275	800 1225 1250	Surf circ Surf circ 3000 cbl		[96046] POKER LAKE; DELAWARE, NOR
21 30-015-33890	OXY USA INC	PALLADIUM 7 FEDERAL	006Q Oil	PA	660 S	660 E	Р	7 24S 31E	10/29/2009	8400	NA	17.500 11.000 7.875	13.375 8.625	995 4165 8400	950 1500 1625	Surf CIRC Surf CIRC Surf CIRC		NA
22 30-015-40261	XTO PERMIAN OPERATING LLC.	POKER LAKE CVX JV BS FEDERAL COM	014H Oil	Active	140 N	1980 W	C 1	9 24S 31E	5/17/2012	9550	9843-14121	17.500 11.000	5.500 13.375 8.625	713 4173	1000	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 1	8 24S 31E	7/22/2013	10011	10464-14320	7.875 14.750	5.500 11.750	14240 930	2000 650	3650 calc Surf circ		[13367] COTTON DRAW; BONE SPRING
24 30-015-42427	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT CVX JV BS	035H Oil	Active	190 N	2332 W	C 1	9 24S 31E	9/23/2014	10230	10560-17222	10.625 7.875 17.5	8.625 5.500 13.375	4207 14460 903	2150 2100 740	Surf circ Surf circ Surf Circ		[97975] WC-015 G-06 S243119C; BONE
25 30-015-42428	XTO PERMIAN OPERATING LLC	DOVED LAKE HAIT OW IV DS	036H Oil	Anti	2222 N	1985 W		0.245 245	0/21/2014	10705	10721 17540	12.25 8.75	9.625 5.5	4290 17248	1230 3335	Surf Circ 4118 CBL		[97975] WC-015 G-06 \$243119C BONE
23 30-013-42428	ATO PERIMIAN OPERATING LLC.	FORER LAKE UNIT CVX JV BS	oson UII	Active	2323 N	1965 W	C 1	9 24S 31E	9/21/2014	10/85	10721-17549	17.500 12.250 8.750	13.375 9.625 5.500	895 4290 17915	755 4290 3495	Surf Circ Surf Circ 3850 CBL		[3/3/3] WC-013 G-06 SZ43119C; BONE
26 30-015-43854	OXY USA INC	PATTON MDP1 18 FEDERAL	006H Gas	Active	150 N	505 E	A 1	8 24S 31E	8/15/2016	11613	11759-16145	5.500 20.000 13.500	3.500 16.000 10.750	17820 700 4290	485 800 1835	9722 CBL Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAMP (G
												9.875 6.750	7.625 5.5 x 4.5	11972 16359	2400 540	Surf Circ 10828 calc	4.5" liner top at 10828'	
27 30-015-44292	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	003H Oil	PA	169 N	2255 W	C 1	8 24S 31E	8/22/2017	10895	NA	17.5 12.25 8.5	13.375 9.625 NA	654 4351 NA	850 1672 NA	Surf Circ Surf Circ NA NA		NA NA
28 30-015-44293	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	006H Oil	Active	293 S	562 E	Р	7 24S 31E	8/15/2017	10059	10058-19910	17.500 12.250	13.375 9.625	672 4374	856 1625	Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPRING
29 30-015-44294	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	005H Oil	Active	293 S	592 E	P	7 24S 31E	8/13/2017	10064	10094-19979	8.500 17.500 12.250	5.500 13.375 9.625	20075 671 4372	3015 865 1330	Surf Circ 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 1	8 24S 31E	8/24/2017	10034	10251-19963	8.500 17.500	5.500 13.375	20278 641	2955 850	1565 cbl Surf Circ		[13367] COTTON DRAW; BONE SPRING
31 30-015-44316	OXY USA INC	PATTON MDP1 18 FEDERAL	023H Oil	Active				8 24S 31E				12.250 8.500	9.625 5.500	4348 20273	1458 3958	Surf Circ 1678 Fluid Shot (FS)		[13367] COTTON DRAW; BONE SPRING

													12.250	9.625	4380	1350	Surf Circ		
													8.500	5.500	14911	1650	3830 calc		
32 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 SPI
33 30-015-44337	OXY USA INC	PATTON MDP1 18 FEDERAL	002H Oil	Active	170 N	1898 W	С	18 24S	31E	9/6/2017	10084	10159-14663	17.500 12.250	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 SPI
34 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 12.250	5.500 13.375 9.625	14802 656 4365	2130 650 1350	968 FS Surf Circ Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SPI
35 30-015-44369	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	001H Oil	Active	170 S	816 W	М	8 24S	31E	11/2/2017	9941	10370-20250	8.500 17.500 12.250	5.500 13.375 9.625	13770 671 4418	1480 815 1230	1300 calc Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SP
36 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	8.500 17.500	5.500 13.375	20389 669	2940 850	1644 CBL Surf Circ		[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	18 245	31E	10/8/2017	10001	10092-19929	12.250 8.500 17.500	9.625 5.500 13.375	4418 20320 655	1228 2935 820	Surf Circ 574 CBL Surf Circ		[13367] COTTON DRAW; BONE SPF
38 30-015-44474	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	003H Oil	Active	432 S	2202 W	N	8 24S	31E	11/17/2017	10050	10591-20485	12.250 8.500 17.500	9.625 5.500 13.375	4352 20102 708	1536 3693 895	Surf Circ 799 FS Surf Circ		[13367] COTTON DRAW; BONE SPF
20 20 045 44475	OWALIST INC	CUMPING MADA OF FEDERAL COM	004H Oil	4.15	422.6	2252 141	N	0.246	245	44 (22 (2047	40050	40405 20250	12.250 8.500	9.625 5.500	4438 20610	1235 2900	Surf Circ 1330 CBL		(42257) SOTTON OR NY DON'T COS
39 30-015-44475	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	004H OII	Active	432 S	2262 W	N	8 245	31E	11/22/2017	10059	10406-20250	17.500 12.250 8.500	13.375 9.625 5.500	713 4431 20388	915 1235 2900	Surf Circ Surf Circ 2120 CBL		[13367] COTTON DRAW; BONE SPF
10 30-015-44497	OXY USA INC	PATTON MDP1 17 FEDERAL	004H Oil	Active	432 S	2292 W	N	8 245	31E	11/24/2017	10063	10674-15244	17.500 12.250 8.500	13.375 9.625 5.500	704 4444 15379	915 1235 2175	Surf Circ Surf Circ 1755 FS	Permitted CLGC well	[13367] COTTON DRAW; BONE SPF
41 30-015-44930	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	171H Gas	Active	194 N	1544 W	С	17 24S	31E	2/4/2019	11603	11906-22195	14.750 9.875	10.750 7.625	678 11006	745 2139	Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAMP
42 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	6.750 14.750 9.875	5.500 10.750 7.625	22315 690 11067	745 1899	Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAMI
13 30-015-44977	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	172H Gas	Active	194 N	1579 W	С	17 24S	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; WOLFCAMI
4 30-015-44989	OXY USA INC	PATTON MDP1 17 FEDERAL	171H Gas	Active	374 N	1545 W	C	17 245	31E	7/4/2018	11702	12213-16688	6.75 14.750	5.5 10.750	21705 704	775 680	10550 calc Surf Circ		[98220] PURPLE SAGE; WOLFCAM
15 30-015-44990	OXY USA INC	PATTON MDP1 17 FEDERAL	172H Gas	Active	374 N	1580 W	C	17 24S	31E	7/5/2018	11801	11956-16506	9.875 6.750 14.750	7.625 5.5 x 4.5 10.750	11242 16858 725	2045 675 680	Surf Circ 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	С	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; WOLFCAMP
47 30-015-45077	OXY USA INC	PATTON MDP1 17 FEDERAL	174H Gas	Active	772 N	1367 E	В	17 245	31E	7/19/2019	11076	12042-16593	9.875 6.750 14.750	7.625 5.5 x 4.5 10.750	11104 16749 762	2310 675 985	Surf Circ 6234 CBL Surf Circ		[98220] PURPLE SAGE; WOLFCAMI
													9.875 6.750	7.625 5.5 x 4.5	11334 16758	2320 675	Surf Circ 9865 CBL		
48 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	11//3	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
49 30-015-44131	NGL WATER SOLUTIONS PE	ERMIAN SAND DUNES SWD	002 SWD	Active	2600 S	2500 W	К	8 245	31E	5/2/2017	17920	16547-17920	26.000 17.500 12.250	20.000 13.375 9.625	822 4250 11698	1142 2315 2650	Surf Circ 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	8.500 17.500	7.625 1 13.375	1215-16547 657	375 845	11215 Circ Surf Circ		[13367] COTTON DRAW; BONE SPF
51 30-015-44299	OXY USA INC	PALLADIUM MDP1 7 6 FEDERAL COM	002H Oil	Active	609 S	742 W	М	7 24S	31E	10/10/2017	10033	10053-19769	12.250 8.500 17.500	9.625 5.500 13.375	4326 19874 661	1446 3893 845	Surf Circ 550 FS Surf Circ		[13367] COTTON DRAW; BONE SPF
52 30-015-44317	OXY USA INC	PATTON MDP1 18 FEDERAL	001H Oil	Active	609 S	712 W	M	7 245	31E	10/18/2017	10055	10272 14722	12.250 8.500 17.500	9.625 5.500 13.375	4304 20070 632	1519 3767 815	Surf Circ 206 FS Surf Circ	Permitted CLGC well	[13367] COTTON DRAW; BONE SPR
													12.250 8.500	9.625 5.500	4306 14865	1446 2759	Surf Circ 430 FS		
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	17.500 12.250 8.500	13.375 9.625 5.500	705 4471 15295	910 1380 2200	Surf Circ Surf Circ 680 CBL	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	17.500 12.250	13.375 9.625 5.500	699 4406	895 1570	Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPF
55 30-015-44473	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	006H Oil	Active	457 S	177 E	Р	8 24S	31E	12/2/2017	9996	10285-20137	8.500 17.500 12.250	13.375 9.625	720 4407	2216 895 1260	1300 CBL Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPE
56 30-015-44476	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	005H Oil	Active	834 S	1555 E	0	8 245	31E	11/26/2017	9933	10450-20234	8.500 17.500 12.250	5.500 13.375 9.625	20277 714 4449	3045 910 1380	1512 CBL Surf Circ Surf Circ		
57 30-015-44525	OXY USA INC	NIMITZ MDP1 13 FEDERAL COM	003H Oil	Active	379 S	808 E	Р	12 245	30E	3/16/2018	10249	9798-14796	8.500 17.500 12.250	5.500 13.375 9.625	20445 635 4277	2950 825 1330	384 CBL Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPE
58 30-015-44528	OXY USA INC	NIMITZ MDP1 12 FEDERAL COM	006H Oil	Active	379 S	778 E	P	12 24S	30E	3/17/2018	10190	9766-17399	8.500 17.500 12.250	5.500 13.375 9.625	14945 638 4281	2831 1050 1330	1180 CBL Surf Circ Surf Circ		[13367] COTTON DRAW; BONE SPR
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	8.500 14.750 9.875	5.500 10.750 7.625	17500 762 11125	2513 823 2040	1476 FS Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAMI
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	0 776	9857 Calc Surf Circ	Active CLGC well	[13367] COTTON DRAW; BONE SPF
													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'	
61 30-015-45152	OXY USA INC	SUNRISE MDP1 8 5 FEDERAL COM	175H Gas	Active	592 N	1334 E	В	17 24S	31E	2/2/2019	11580	11949-22281	14.750 9.875	10.750 7.625	745 11133	775 2393	Surf Circ Surf Circ		[98220] PURPLE SAGE; WOLFCAME

98.75 76.75 11275				
1225 12				
1225 12				
2 30 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	30 845	730	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
3 3 0 15-4626		11225	Surf Circ	
10.00 10.0			10725 Calc	
18-11-11-11-11-11-11-11-11-11-11-11-11-1			Surf Circ	[98220] PURPLE SAGE; WOLFCAN
30-015-46427 XTO PERMIAN OPERATING LIC. OKER LAKE UNIT 18 TWR			Surf Circ	
1250 1250			Surf Circ	
Second			Surf Circ	[98220] PURPLE SAGE; WOLFCAN
3 30-015-46428			Surf Circ	
10,625 10,925 1			10360 Calc	
SACTION SACT			Surf Circ	[98220] PURPLE SAGE; WOLFCAN
3 30-015-47249 OXY USA INC			Surf Circ	
9.875 10.50			Surf Circ	
30-015-4725 OXY USA INC DEFENITH MODIT 18 FEDERAL COM 071 Fabre Active 779 5 705 W M 6 2 8 18 4/18/202 1666 1266-2254 1666 1266-2254 1675 10750 1075		835	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
7 30-015-47258 OXY USA INC			Surf Circ	
1949 1949			10515 Calc	
8 30-015-53777 OXY USA INC NIMITZ MDP1 31 FEDERAL COM 175H Gas Active 230 S 280 E P 3 245 30E 8/16/2023 1373 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 1599-26882 1475 10.750 813 10.75			Surf Circ	[98220] PURPLE SAGE; WOLFCAN
8 30-015-53777 OXY USA INC NIMITZ MOP1 31 FEDERAL COM 175H Gas Active 230 S 280 E P 13 24S 30E 8/16/2023 11573 11599-26882 14.75 10.750 815 9.875 10.742 10.750 10.			Surf Circ	
9 30-015-54047 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 024H Gas Active 279 \$ 1500 E 0 5 24\$ 31E 9/2/023 12573 12600-22866 17.5 13375 830 100-015-54050 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 005H O Active 70 IN 1335 E B 8 24\$ 31E 10/13/203 10819 11092-1191 14.75 15.05 21988 100-015-54050 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 005H O Active 70 IN 1335 E B 8 24\$ 31E 10/13/203 10819 11092-1191 14.75 15.05 11054 11092-1191 14.75 15.05 11054 11092-1191 14.75 15.05 11054 11092-1191 14.75 15.05 11054 11092-1191 14.75 15.05 11.05	80 961	22480	9490 Calc	
9 30-015-54047 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 024H Gas Active 279 S 1550 E 0 5 24S 31E 9/2/2023 12573 12600-22866 17.5 13.375 83.0 12500-12540 12573 12600-22866 17.5 13.375 83.0 12500-12540 12573 12600-22866 17.5 12500-12500-12500-1	15 800	815	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
9 30-015-54047 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 024H Gas Active 279 \$ 1550 E 0 5 24\$ 31E 9/2/023 12573 12600-22866 175 13.375 830 12575 1250 E 0 5 24\$ 31E 9/2/023 12573 12600-22866 175 13.375 830 12575 1250 E 0 5 24\$ 31E 9/2/023 12573 12600-22866 175 13.375 830 12500 E 0 10 10 10 10 10 10 10 10 10 10 10 10 1	42 2180	10742	Surf Circ	
1813 1814 1815 1815 1815 1816 1816 1816 1817	03 1298	27003	6394 Calc	
2988 100	30 1035	830	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
0 30-015-54050 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 005H OII Active 701 N 1335 E B 8 24S 31E 10/13/2023 10819 11092-21190 14.75 10.750 811 9.875 76.55 10.564 6.75 10.505	13 2127	11813	Surf Circ	
9.875 7,625 10546 130-015-54092 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 024H 01 Active 731 N 1335 E B 8.24S 31E 10/12/203 1078 11082-21180 14.75 10.750 823 9.875 7,625 10542 9.875 7,625 1	88 2496	22988	8040 Calc	
6.75 5.500 2.308 1 30-015-54092 OXY USA INC CHUCK SMITH MDP1 817 FEDERAL COM 004 PI Active 731 N 1335 E B 8.24S 31E 10/12/203 10783 11082-21180 14.75 10.75 08.23 10.75	11 790	811	Surf Circ	[13367] COTTON DRAW; BONE SI
1 30-015-54092 OXY USA INC CHUCK SMITH MDP1 8 17 FEDERAL COM 004H Oil Active 73 I N 133 E B 8 24S 31E 10/12/2023 10783 11082-21180 14.75 10.750 823 9.875 7.625 10525 9.875 9.875 7.625 10525 9.875 9.	64 2490	10564	Surf Circ	
9.875 7.625 10525 6.75 10525 7.625 7.625 7	08 851	21308	8720 Calc	
6.75 5.500 21302 2 30-015-54094 OXY USA INC CHUCK SMITH MDP1 8 17 FEDERAL COM 025H Gas Active 279 S 1520 E O 5 24S 31E 9/3/2023 12344 12579-22673 14.75 13.375 796 9.875 9.625 11700	23 820	823	Surf Circ	[13367] COTTON DRAW; BONE SI
2 30-015-54094 OXY USA INC CHUCK SMITH MDP1 8 17 FEDERAL COM 025H Gas Active 279 S 1520 E O 5 245 31E 9/3/2023 12344 12579-22673 14.75 13.375 796 9.875 9.625 11700	25 2348	10525	Surf Circ	
9.875 9.625 11700	02 851	21302	6590 Calc	
	96 1005	796	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
	00 3774	11700	Surf Circ	
8.75 x 8.5 7 x 5.5 22810	10 2375	22810	9336 Calc	
3 3-0-15-54095 OXY USA INC CHUCK SMITH MDP1 8 17 FEDERAL COM 026H Oil Active 279 S 1490 E O 5 245 31E 9/5/2023 12560 12740-22965 17.5 13.375 793	93 995	793	Surf Circ	[98220] PURPLE SAGE; WOLFCAN
12.25 9.625 11840	40 3860	11840	Surf Circ	

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



P&A WBD

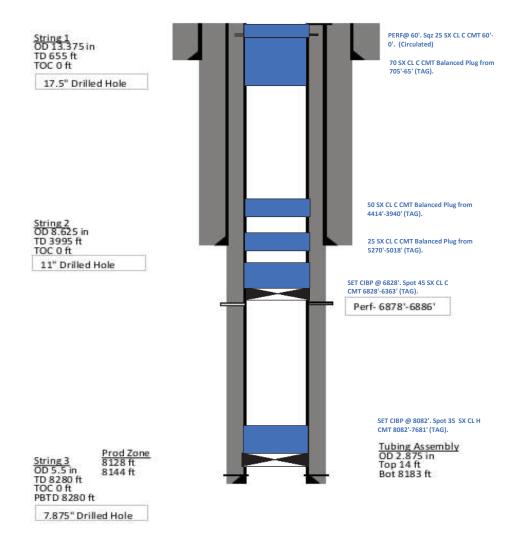
LOTOS C FEDERAL #802 Well#: 802 St. Lse: 30-015-28654 API Lease: LOTOS FEDERAL Unit Ltr.: Section: 8 Field: SAND DUNES SOUTH TSHP/Rng: 24S-31E 1980' FSL & 660' FWL Surf. Loc.: Unit Ltr.: Section: Bot. Loc.: County: Eddy St.: NM Directions: Status: Chevno: Surface Casing 11-3/4" Size: Wt., Grd.: 42# Depth: 643' Sxs Cmt: 590 Circulate: Yes Surface TOC: Spot 306 sx class C cmt at 250'. TOC @ surface Hole Size: 14-3/4" Intermediate Casing Size: 8 5/8" Wt., Grd.: 24# Depth: 4160' MLF Sxs Cmt: 1625 Circulate: Yes TOC: Surface Circulate 55 sx class C cmt from 2410-2210'. Hole Size: 11" Tag TOC @2151'. Size: 5 1/2" Wt., Grd.: 17# 8340 Depth: Sxs Cmt: 1250 MLF TOC 4100' est. Hole Size: 7 7/8" Circ 55 sx class C from 4450'-3944'. Tag TOC @ 3940' E MLF Spot 60 sx class C cmt from 6050'-5443'. Tag TOC @ 5445' MLF Set CIBP @ 7290'. Spot 25sx class C cmt from 7290'-7047'. Perfs: 7344'-8128'(OA) Top of proposed injection interval BS top 8178' PBTD: 8250'

TD: 8340'

Patton 17 Federal #001

30-015-29279-0000

Eddy



Page 38 of 74

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'

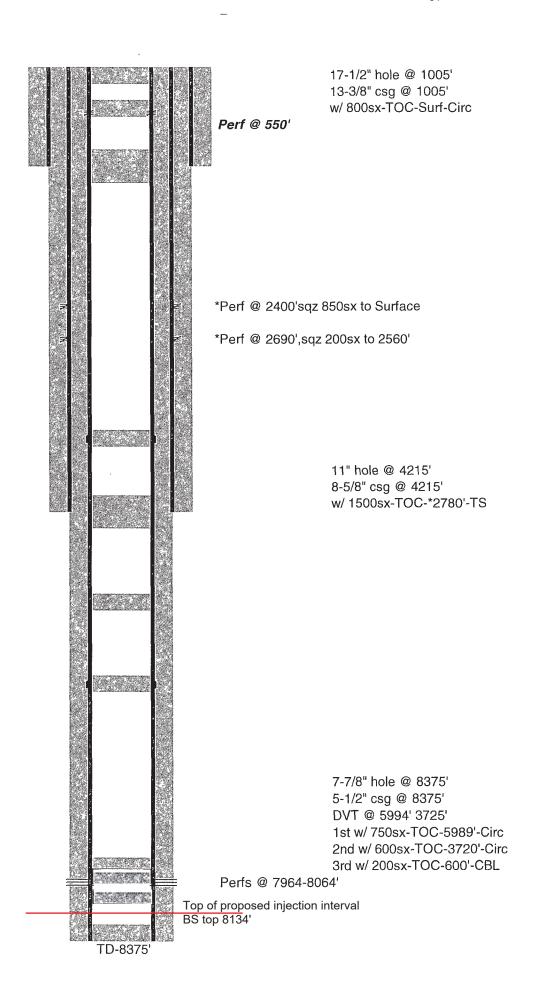
Spot 40 sx class C cmt @ 5304' TOC @4951'

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'

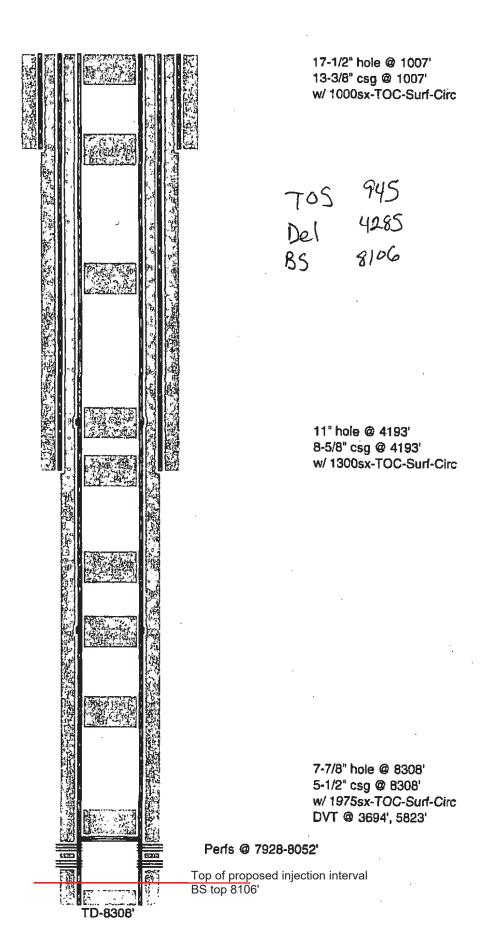
25 sx @5904'. Tag TOC @5692'

25 sx @6593'. Tag TOC @6351'

CIBP @ 7878' w/ 25sx

Tag TOC @ 7680'

PB-82041

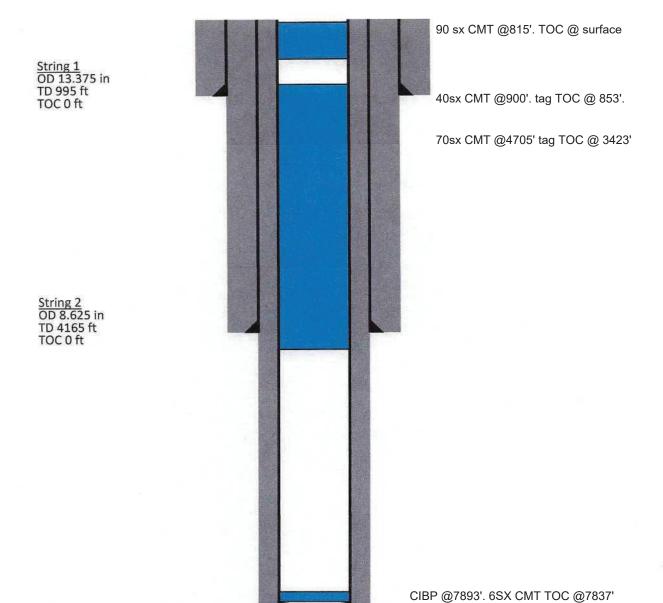


Stephen Janacek

7/14/2020

PALLADIUM 7 FEDERAL #006Q

30-015-33890-0000 Eddy



Perfs 7940-8056

BS top 8070'

Top of proposed injection interval

String 3 OD 5.5 in

TD 8400 ft TOC 0 ft

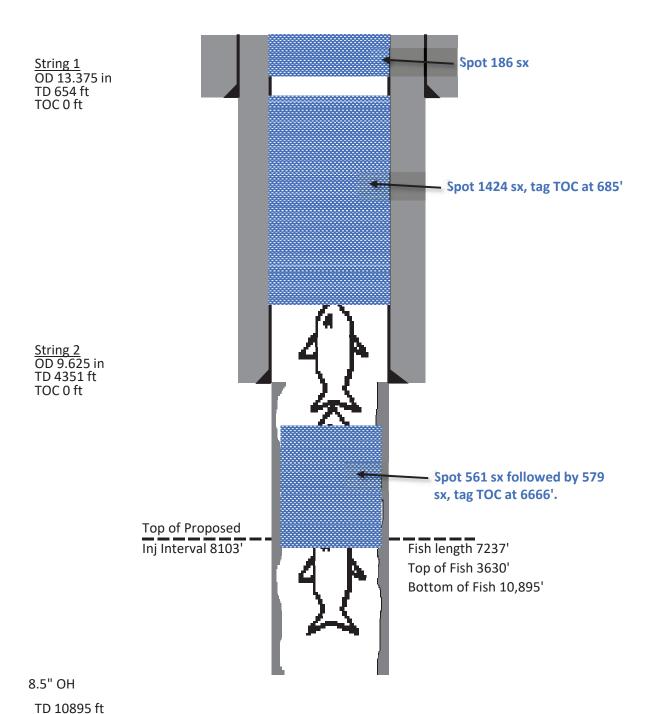
PBTD 8400 ft

Current Wellbore

4/7/2021

PALLADIUM MDP1-7-6 FEDERAL COM3H

30-015-44292-0000 Eddy



Released to Imaging: 12/11/2024 12:35:32 PM



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

WELL LOCATION: NENE 150 FNL 285 FEL A 18 T24S R31E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

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 KOP @ 9477' MD

Nipple w/ removeable plug to access

Perfs @ 10,198 - 14,777'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 947 sx. or

Top of Cement: Surface Method Determined: Topoff Job

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1970 sx. or ft³

Top of Cement: Surf

Method Determined: Circ

Production Casing

Hole Size: 8.5" Casing Size: 5.5"

Cemented with: 2220 sx. or ______ft

Top of Cement: 1624' Method Determined: CBL

Total Depth: 15,115'

Total Vertical Depth: 10,016'

Injection Interval MD/TVD

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

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Γuł	bing Size: 2.875" Lining Material: None
Туј	pe of Packer: 5.5" x 2.875" Feed Thru Packer
Pac	eker Setting Depth: 9500' / 9400' (MD/TVD)
Otł	ner Type of Tubing/Casing Seal (if applicable): NA
	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. None
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'

INJECTION WELL DATA SHEET

OPERATOR: Oxy USA Inc

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

WELL LOCATION: SWSW 170' FSL 846' FWL 24S 31E FOOTAGE LOCATION UNIT LETTER **SECTION TOWNSHIP** RANGE

WELL CONSTRUCTION DATA

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: 1380 sx.

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 8.5"

Casing Size: 5.5"

Cemented with: 2165 sx.

or

Top of Cement: 514'

Method Determined: CBL

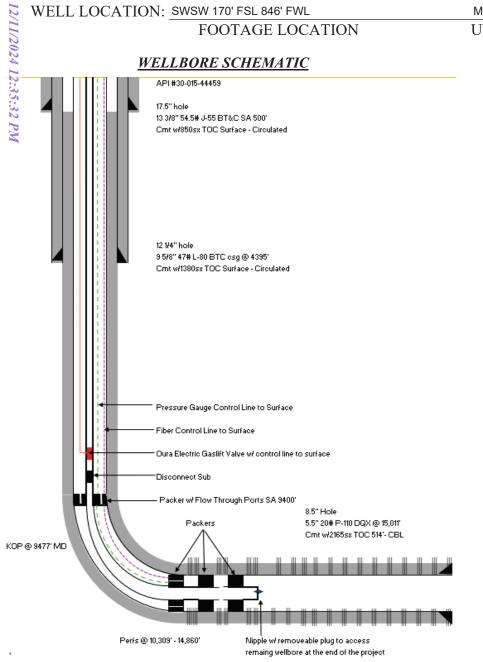
Total Depth: 15,025'

Total Vertical Depth: 9996'

Injection Interval MD/TVD

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

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tub	ing Size: 2.875 Lining Material: None
Тур	e of Packer: Feed Through Packer
Pac	ker Setting Depth: 9400' / 9370' (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'

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 Packers 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)

INJECTION WELL DATA SHEET

Γuł	Γubing Size: 2.875" Lining Material:	lone			
Туј	Type of Packer: Feed Through Packer				
Pac	Packer Setting Depth: 9500' / 9400' (MD/TVD)				
Otł	Other Type of Tubing/Casing Seal (if applicable): NA				
	Additional Data				
1.	1. Is this a new well drilled for injection?Ye	es <u>x</u> No			
	If no, for what purpose was the well originally drilled?Producer				
2.	2. Name of the Injection Formation: 2nd Bone Spring				
3.	. Name of Field or Pool (if applicable): Cotton Draw; Bone Spring				
4.	4. Has the well ever been perforated in any other zone(s)? List al intervals and give plugging detail, i.e. sacks of cement or plug(1			
5.	5. Give the name and depths of any oil or gas zones underlying or injection zone in this area:	r overlying the proposed			
	OVERLYING: FIRST BONE SPRING	9000'			
	UNDERLYING: THIRD BONE SPRIN	G 11000'			

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

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 1630 sx. or

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

INJECTION WELL DATA SHEET

Tub	ing Size: 2.875 Lining Material: None				
Тур	e 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'				

OPERATOR: O	xy USA Inc
-------------	------------

WELL NAME & NUMBER: Patton MDP1 17 Federal 2H 30-015-44460

WELL LOCATION: 170' FSL 906' FWL 24S 31E UNIT LETTER FOOTAGE LOCATION **SECTION TOWNSHIP** RANGE

WELL CONSTRUCTION DATA

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.

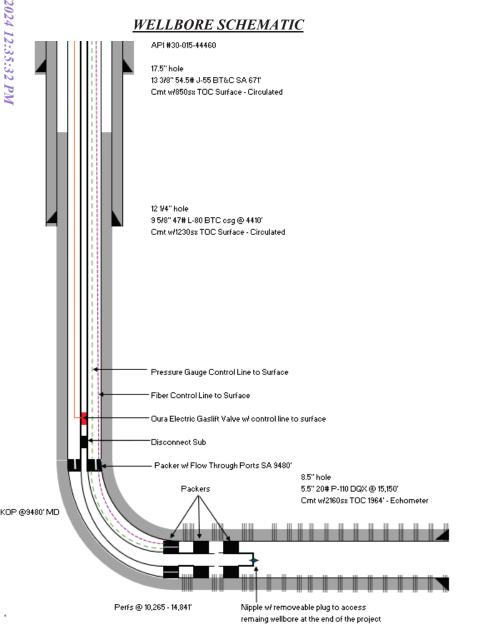
Top of Cement: 1964' Method Determined: Echometer

Total Vertical Depth: 9985' Total Depth: 15,165'

Injection Interval MD/TVD

feet to 11,285' / 9994' 10,285' / 9987'

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tub	ping Size: 2.875 Lining Material: None						
Тур	pe of Packer: Feed Through Packer						
Pac	eker Setting Depth: 9480' / 9460' (MD/TVD)						
Oth	ner 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'						

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

17.5" hole 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'

8.5" hole

Packers 5.5" 20# P-110 DQX @ 15,200'

Cmt w/2175sx TOC 1578' - Echor

KOP @ 9561' MD

Perfs @ 10,466 - 15,036' 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: 870 sx. or ft

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** ______ ft³

Top of Cement: 1578' Method Determined: Echometer

Total Depth: 15,210' Total Vertical Depth: 10,057'

<u>Injection Interval</u> MD/TVD

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

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Гub	ping Size: 2.875 Lining Material: None					
Тур	pe of Packer: Feed Through Packer					
Pac	eker Setting Depth: 9561' / 9548' (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) usedNo					
5. Give the name and depths of any oil or gas zones underlying or overlying the propos injection zone in this area:						
	OVERLYING: FIRST BONE SPRING 9000'					
	UNDERLYING: THIRD BONE SPRING 11000'					

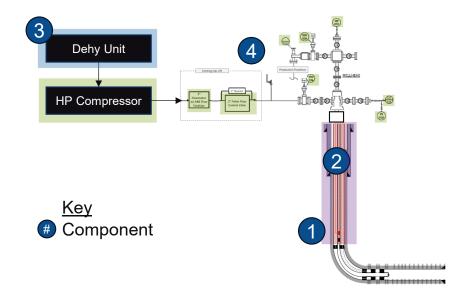
MAX PRESSURE AND INJECTION RATES

- 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.

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





EM LOGGING

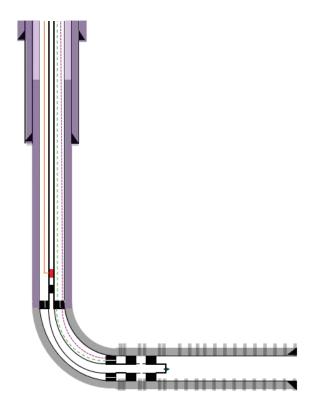
What is EM logging?

- 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:

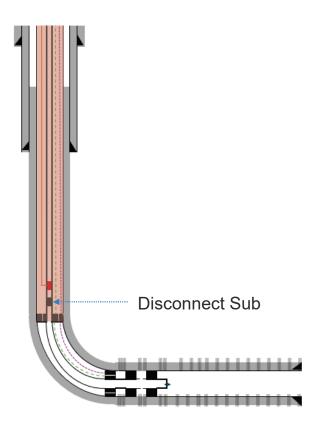
- P = Brust Pressure
 - 0.875 Safety Factor
- S = Minimum Yield Strength of the Pipe
- T = Wall thickness of the pipe
- D = Nominal OD of the pipe





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





Patton 17-1H Producing Gas Sample

Certificate of Analysis Number: 6030-20110112-006A **Artesia Laboratory** 200 E Main St.

Artesia, NM 88210 Phone 575-746-3481

Nov. 19, 2020

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

Field: Sand Dunes Station Name: Patton 17-1H Station Number: 17005T

Station Location: OXY Sample Point:

Downstream Formation: Quarterly County: Eddy Spot-Cylinder Type of Sample:: Heat Trace Used: N/A

Sampling Method: : Fill and Purge

Sampling Company: :SPL

Sampled By: Michael Mirabal Sample Of: Gas Spot Sample Date: 11/11/2020 11:51

Sample Conditions: 102 psia, @ 85 °F Ambient: 60 °F

11/11/2020 11:51 Effective Date: Method: GPA-2261M Cylinder No: 1111-002405

Instrument: 70104124 (Inficon GC-MicroFusion)

Last Inst. Cal.: 11/02/2020 0:00 AM

Analyzed: 11/19/2020 11:35:19 by PGS

Analytical Data

Components Ur	n-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 Prop	perties	Tota	I	C9+	
Calculated Molecular Weig	ght	21.85	,	128.26	
Compressibility Factor		0.9962	2		
Relative Density Real Gas		0.7570)	4.4283	
GPA 2172 Calculation:					
Calculated Gross BTU pe	er ft³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1266.5)	6974.4	
Water Sat. Gas Base BTU		1244.8	3	6852.4	
Ideal, Gross HV - Dry at 14	4.65 psia	1261.7	,	6974.4	
Ideal. Gross HV - Wet	•	1239.6	•	6852.4	

Mcf/day 602.5607

Hydrocarbon Laboratory Manager

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

assurance, unless otherwise stated.

Quality Assurance:

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 Report Date: 10/10/2024
Station Name: Patton MDP1 17 Federal 1H Gas Lift Sampled By: CG

Station Number: 17031I Sample Of: Gas Spot

Station Location: OP-L2090-WELLS-WPI-0000003 Sample Point: OP-L2090-WELLS-WPI-0000003 Sample Date: 09/15/2024 01:00 Sample Conditions: 1164 psig, @ 109 °F Ambient: 88 °F

 Property ID:
 FMP/LSE NMNM89172
 Received Date:
 09/25/2024

 Formation:
 NEW_MEXICO
 Login Date:
 09/25/2024

 County:
 Effective Date:
 09/15/2024 01:00

Well Name: Gas Lift Flow Rate: 451 MSCFD
Type of Sample: Spot-Cylinder PO/Ref. No: 4502054830
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method:: Fill and Purge Cylinder No: 5030-00602

Sampling Company: :OXY Instrument: 70142339 (Inficon GC-MicroFusion)

Analyzed: 09/27/2024 07:49:07 by CDW Last Inst. Cal.: 09/23/2024 08:22:22

Analytical Data

Components Un-no	ormalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+	6.246
Nitrogen	1.5101	1.4975	1.9253		GPM TOTAL C3+	2.986
Methane	76.0184	75.3843	55.5020		GPM TOTAL iC5+	0.453
Carbon Dioxide	0.9647	0.9567	1.9323			
Ethane	12.3154	12.2127	16.8534	3.260		
Propane	6.0478	5.9974	12.1371	1.649		
Iso-butane	0.8266	0.8197	2.1865	0.268		
n-Butane	1.9727	1.9562	5.2181	0.616		
Iso-pentane	0.3984	0.3951	1.3083	0.144		
n-Pentane	0.4184	0.4149	1.3738	0.150		
Hexanes Plus	0.3686	0.3655	1.5632	0.159		
	100.8411	100.0000	100.0000	6.246		
Calculated Physical Properties		To	otal	C6+		
Relative Density Real Gas		0.7	549	3.2176		
Calculated Molecular Weight		21	.79	93.19		
Compressibility Factor		0.9	962			
GPA 2172 Calculation:						
Calculated Gross BTU per ft	³ @ 14.65 p	sia & 60°F				
Real Gas Dry BTU		1:	271	5113		
Water Sat. Gas Base BTU		1:	249	5024		
Ideal, Gross HV - Dry at 14.65	psia	126	6.1	5113.2		
Ideal, Gross HV - Wet		124	3.9	5023.7		
Net BTU Dry Gas - real gas			154			
Net BTU Wet Gas - real gas		1	134			

Comments: H2S Field Content: 0 ppm

Mostag Shamond

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.

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

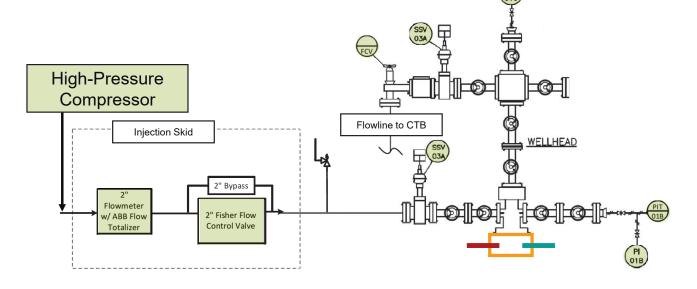
- Additional Spool
- Electrical Cable Connection
- Fiber Cable Connection
- Connected to SCADA

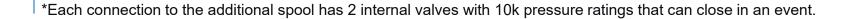
FCV Flow Control Valve

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
 - o 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
 - o 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: 12/11/2024 12:35:32 PM

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.

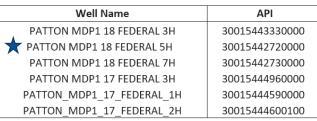
Released to Imaging: 12/11/2024 12:35:32 PM

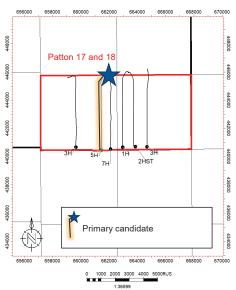
GEOLOGY

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 $^{\sim}$ 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 aquifers found just above the Salado at the base of the Rustler are saline water.
- The top of Rustler Formation is at about 210 ft. The Rustler top is a continuous anhydrite layer that acts as another permeability barrier creating a perched aquifer above it that is the lowest level where fresh water is known in the area. Because of the thickness of multiple impermeable rock layers above the injection reservoir there is no possible path for migration upward into freshwater aquifers where they exist.
- 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

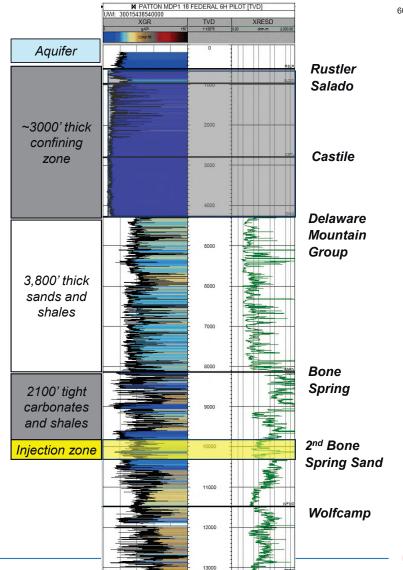






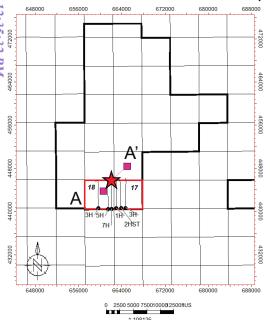
AREA TYPE LOG

- 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 aquifers found just above the Salado at the base of the Rustler are saline water.
- The top of Rustler Formation is at about 210 ft. The Rustler top is a continuous
 anhydrite layer that acts as another permeability barrier creating a perched aquifer
 above it that is the lowest level where fresh water is known in the area. Because of the
 thickness of multiple impermeable rock layers above the injection reservoir there is no
 possible path for migration upward into freshwater aquifers where they exist.

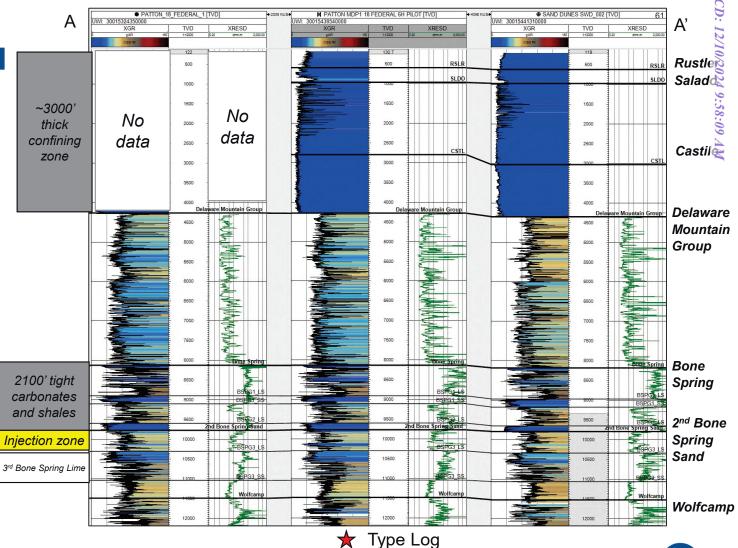


CROSS SECTION





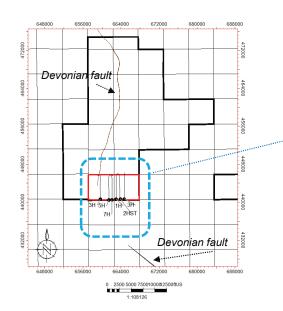
- Continuous confining zones
- Continuous beds of carbonates and shales above injection zone





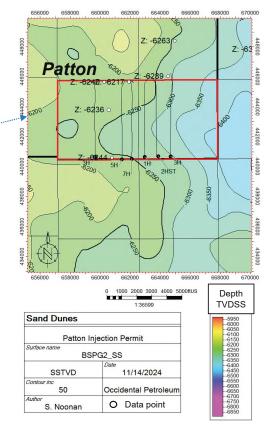
SAND DUNES – PATTON STRUCTURE MAPS

Devonain Faults at Sand Dunes

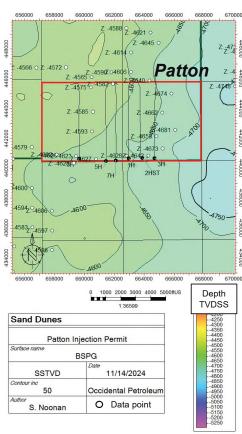


- Sand Dunes area has deep faults but Patton does not have faulting in 2nd Bone Spring Sand.
- Fault offset in Patton sections ends below the 3rd Bone Spring Limestone

Top Second Bone Spring Sand



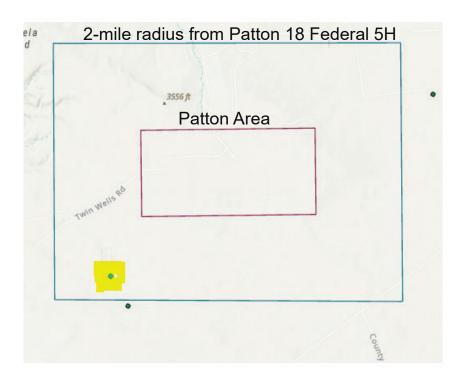
Top Bone Spring





ACTIVE GROUNDWATER WELLS

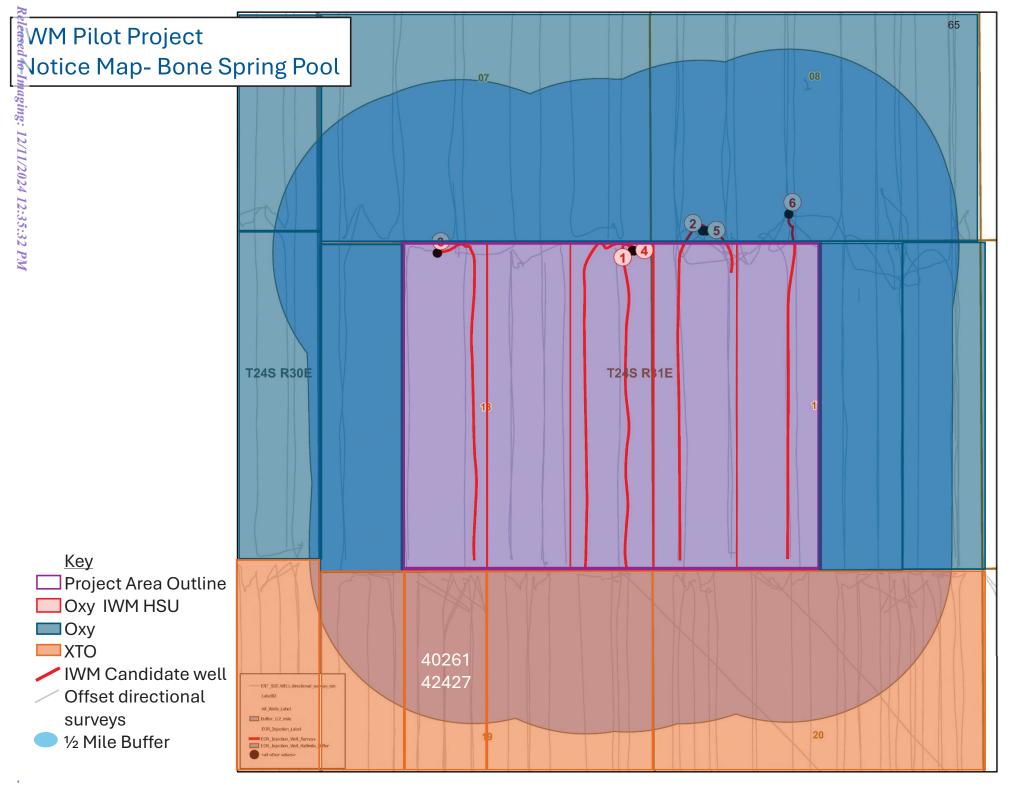
- There are several shallow wells in a 1-mile radius around the Patton area.
- One of these is active but is listed as "monitoring."





11/2024 12:35:32 PM





IWM Notice List

Party	Address		
Agencies and Surfa	ace Owners		
Duragu of Land Manament	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	ns and Parties		
Ovy 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		
McCombs Energy Ltd	755 Mulberry Ave, Suite 600		
	San Antonio, TX 78212		
LIC Francis Davidanment Com	US Energy Development Corp		
US 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 Basauraa II C	Ironhorse Resource LLC		
Ironhorse Resource LLC	6400 S. Fiddlers Green Circle #1720		
	Greenwood Village, CO 80111		