

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710		² OGRID Number: 16696
		³ Reason for Filing Code/ Effective Date - NW- 11/21/2022
⁴ API Number 30-015-46370	⁵ Pool Name PURPLE SAGE WOLFCAMP <i>*NSL-8399</i>	⁶ Pool Code 98220
⁷ Property Code: 326150	⁸ Property Name: Arkenstone 31 Federal	⁹ Well Number: 1H

II. ¹⁰ Surface Location

Ul or lot no. D	Section 31	Township 23S	Range 31E	Lot Idn	Feet from the 130	North/South Line NORTH	Feet from the 895	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location FTP: 171' FNL 381' FWL LTP: 158' FSL 342' FWL

UL or lot no. M	Section 6	Township 24S	Range 31E	Lot Idn	Feet from the 49	North/South line SOUTH	Feet from the 342	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code : P		¹⁴ Gas Connection Date: 11/24/22		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
237722	CENTURION PIPELINE L.P.	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 07/07/22	²² Ready Date 11/21/22	²³ TD 21955'M 11390'V	²⁴ PBTD 21912'M 11390'V	²⁵ Perforations 16728-21846'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8"		407'	460
12-1/4"		9-5/8"		4175'	1140
8-3/4"		7-5/8"		10654'	1606
6-3/4"		5-1/2"		21935'	874

V. Well Test Data 1-2/3" TBG 11195'

³¹ Date New Oil 11/24/22	³² Gas Delivery Date 11/24/22	³³ Test Date 12/7/22	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2100
³⁷ Choke Size 56/128	³⁸ Oil 2244	³⁹ Water 4966	⁴⁰ Gas 3829		⁴¹ Test Method F

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name:
JANA MENDIOLA

Title:
SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

Date: 03/15/2023
Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title: *PETROLEUM SPECIALIST*

Approval Date: *5/30/2023*

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		³ Reason for Filing Code/ Effective Date - NW- 11/21/2022
⁴ API Number 30-015-46370	⁵ Pool Name WC-015 G-08 S233135; WOLFCAMP *NSL-8399	⁶ Pool Code 98236
⁷ Property Code: 326150	⁸ Property Name: Arkenstone 31 Federal	⁹ Well Number: 1H

II. ¹⁰ Surface Location

Ul or lot no. D	Section 31	Township 23S	Range 31E	Lot Idn	Feet from the 130	North/South Line NORTH	Feet from the 895	East/West line WEST	County EDDY
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UL or lot no. M	Section 6	Township 24S	Range 31E	Lot Idn	Feet from the 49	North/South line SOUTH	Feet from the 342	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code : P		¹⁴ Gas Connection Date: 11/24/22		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

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⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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Printed name:
JANA MENDIOLA

Title:
SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

Date: 03/15/2023 Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:
PATRICIA MARTINEZ

Title:
PETROLEUM SPECIALIST

Approval Date:
5/30/2023

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☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46370	² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code 326150	Property Name ARKENSTONE 31 FEDERAL	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁶ Well Number 1H
		⁹ Elevation 3347'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 1	31	23S	31E		130	NORTH	895	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 7	6	24S	31E		49	SOUTH	342	WEST	EDDY
¹² Dedicated Acres 648.29	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8399						

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

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 700956.72' / Y: 461880.43' B - X: 703599.62' / Y: 461692.37' C - X: 703615.24' / Y: 459051.85' D - X: 703629.20' / Y: 456410.90' E - X: 703635.84' / Y: 453765.49' F - X: 703642.47' / Y: 451120.08' G - X: 701001.86' / Y: 451107.73' H - X: 698302.38' / Y: 451095.14' I - X: 698292.14' / Y: 453738.71' J - X: 698281.85' / Y: 456382.27' K - X: 698269.19' / Y: 459024.23' L - X: 698257.10' / Y: 461665.25'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 659773.17' / Y: 461621.13' B - X: 662416.07' / Y: 461633.08' C - X: 662431.61' / Y: 458992.63' D - X: 662445.49' / Y: 458351.74' E - X: 662452.04' / Y: 453706.39' F - X: 662458.59' / Y: 451061.04' G - X: 659817.78' / Y: 451048.69' H - X: 657118.51' / Y: 451036.10' I - X: 657108.36' / Y: 453679.61' J - X: 657098.16' / Y: 456323.11' K - X: 657085.57' / Y: 458965.00' L - X: 657073.56' / Y: 461605.95'		SECTION 28 SHEET 1 OF 1 JOB No. R4111_017 REV 0 BM 11/18/2022	
SURFACE HOLE LOCATION 130' FNL 895' FWL, SECTION 31 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699152.80' / Y: 461540.50' LAT: 32.26781759N / LON: 103.82274532W NAD 27, SPCS NM EAST X: 657969.25' / Y: 461481.21' LAT: 32.26769469N / LON: 103.82225890W					
KICK OFF POINT 239' FSL 475' FWL, SECTION 30 10834' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 698731.23' / Y: 461906.61' LAT: 32.26882945N / LON: 103.82410358W NAD 27, SPCS NM EAST X: 657547.69' / Y: 461847.31' LAT: 32.26870656N / LON: 103.82371099W					
FIRST TAKE POINT 171' FNL 381' FWL, SECTION 31 11578' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 698639.35' / Y: 461495.91' LAT: 32.26770172N / LON: 103.82440713W NAD 27, SPCS NM EAST X: 657455.81' / Y: 461436.62' LAT: 32.26757882N / LON: 103.82392067W					
LAST TAKE POINT 158' FSL 342' FWL, SECTION 6 21846' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 698643.48' / Y: 451254.49' LAT: 32.23955020N / LON: 103.82455080W NAD 27, SPCS NM EAST X: 657459.61' / Y: 451195.44' LAT: 32.23942709N / LON: 103.82406552W					
BOTTOM HOLE LOCATION 49' FSL 342' FWL, SECTION 6 21955' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 698644.54' / Y: 451145.54' LAT: 32.23925071N / LON: 103.82454904W NAD 27, SPCS NM EAST X: 657460.67' / Y: 451086.50' LAT: 32.23912760N / LON: 103.82406378W					

¹⁷ OPERATOR CERTIFICATION

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

Signature: Date: 11/21/22

Printed Name: **JANA MENDIOLA**

E-mail Address: **janalyn_mendiola@oxy.com**

¹⁸ SURVEYOR CERTIFICATION

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

NOVEMBER 18, 2022

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: **21653**

LOYD P. SHORT 21653

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977803 Convergence Angle: 00°16'32.4192950"

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⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3347'

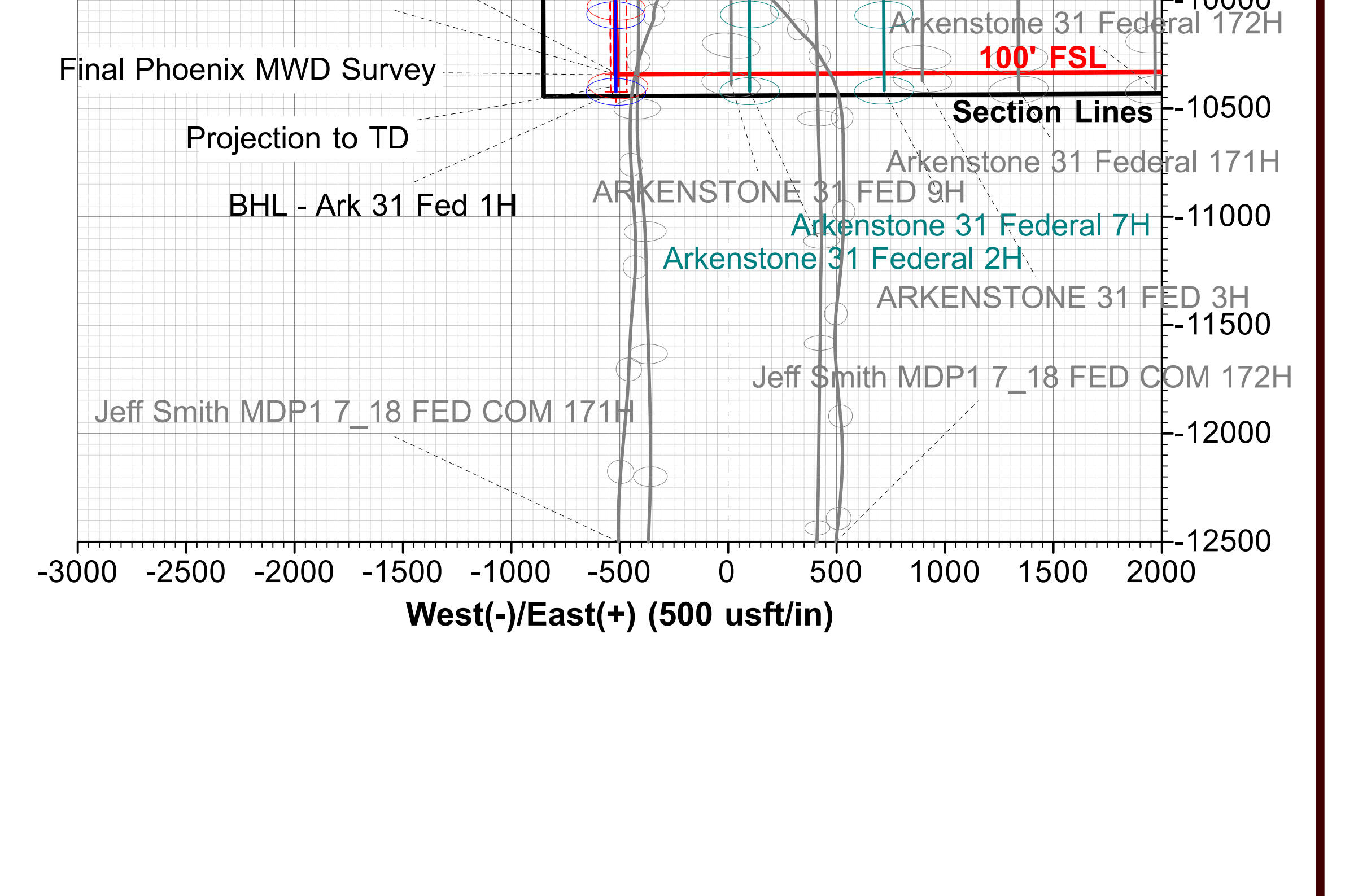
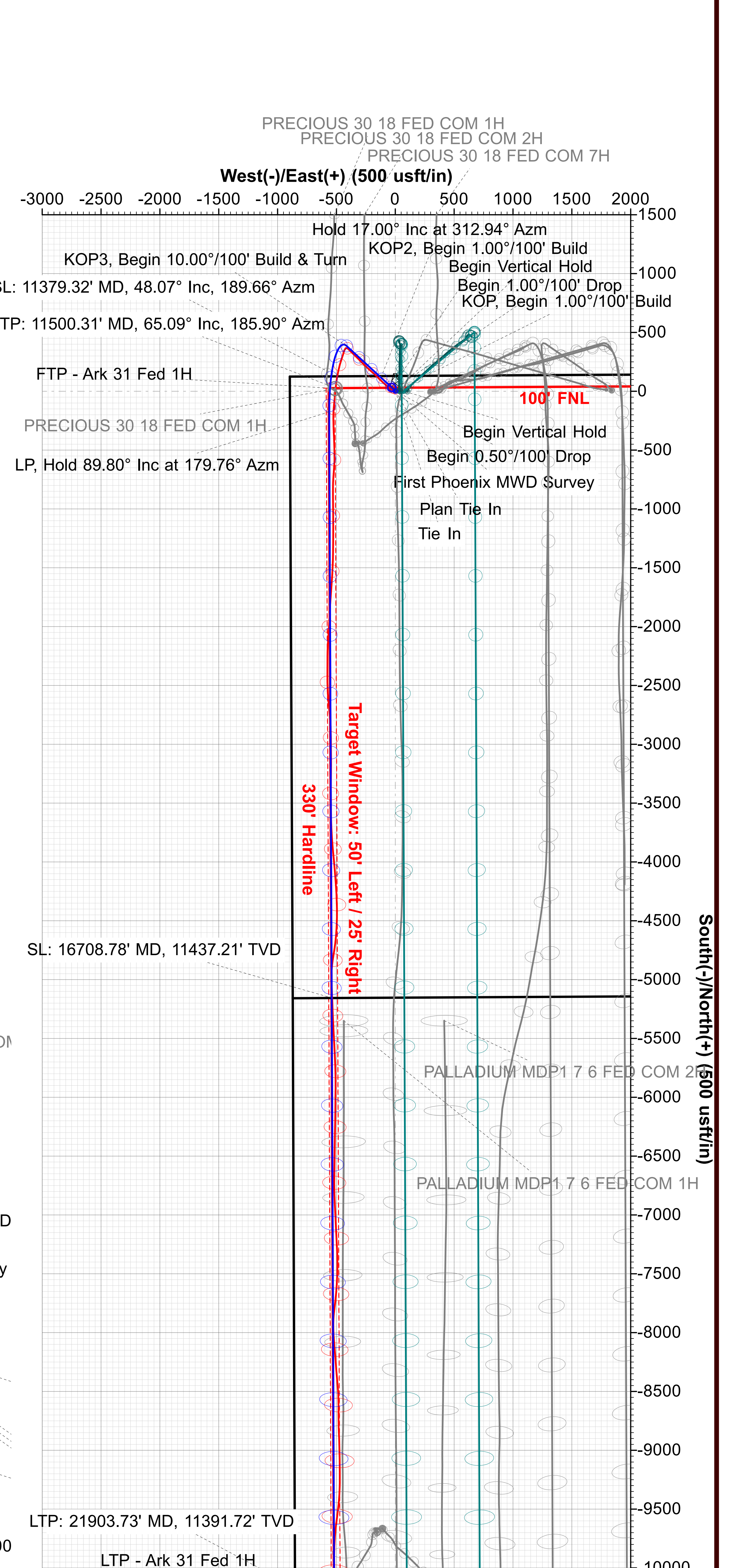
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977803 Convergence Angle: 00°16'32.4192950"





OXY USA INC.

**Eddy County, NM (NAD83-NME)
Arkenstone 31
Arkenstone 31 Federal 1H**

OH / 70334

Design: Surveys (H&P 466)

Standard Survey Report

20 September, 2022





Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Project	Eddy County, NM (NAD83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Arkenstone 31		
Site Position:		Northing:	461,588.60 usft
From:	Map	Easting:	702,735.30 usft
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 4.448728 N
		Longitude:	103° 48' 40.155566 W
		Grid Convergence:	0.279 °

Well	Arkenstone 31 Federal 1H		
Well Position	+N/-S	0.00 usft	Northing: 461,540.50 usft
	+E/-W	0.00 usft	Easting: 699,152.80 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 4.143331 N
		Longitude:	103° 49' 21.883151 W
		Ground Level:	3,347.30 usft

Wellbore	OH / 70334		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	8/8/2022	6.747
			Dip Angle (°) 59.910
			Field Strength (nT) 47,617.10000000

Design	Surveys (H&P 466)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 182.84

Survey Program	Date	9/20/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	393.96	Gyrodata Gyro Surveys - Adj Surface (OH	GYD_G003_GC+DROP+I	Gyrodata Stationary Tool drop on BHA on open h
527.00	21,955.00	Phoenix MWD Surveys - SQC R8 (OH / 70	SQC_C705a_MWD+IFR1	OWSG MWD + IFR1 + Sag + FDIR Correction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00
98.99	0.32	48.04	98.99	0.14	0.15	-0.15	0.43	0.43	0.00
126.40	0.42	52.21	126.40	0.25	0.29	-0.26	0.38	0.36	15.21
210.92	0.28	73.06	210.92	0.50	0.73	-0.54	0.22	-0.17	24.67
303.17	0.21	58.14	303.17	0.66	1.09	-0.71	0.10	-0.08	-16.17
393.96	0.55	39.90	393.95	1.08	1.51	-1.15	0.39	0.37	-20.09
Tie In									
527.00	0.75	78.23	526.99	1.75	2.77	-1.88	0.35	0.15	28.81



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
First Phoenix MWD Survey									
619.00	0.99	70.78	618.98	2.13	4.11	-2.33	0.29	0.26	-8.10
717.00	0.61	81.04	716.97	2.49	5.43	-2.76	0.41	-0.39	10.47
811.00	0.10	260.73	810.96	2.55	5.84	-2.84	0.76	-0.54	191.16
905.00	0.07	318.83	904.96	2.58	5.72	-2.87	0.09	-0.03	61.81
1,000.00	0.13	167.57	999.96	2.52	5.71	-2.80	0.20	0.06	-159.22
1,094.00	0.17	167.25	1,093.96	2.28	5.76	-2.57	0.04	0.04	-0.34
1,188.00	0.91	248.57	1,187.96	1.87	5.10	-2.12	0.96	0.79	86.51
1,283.00	1.47	259.43	1,282.94	1.37	3.20	-1.53	0.63	0.59	11.43
1,377.00	1.36	250.05	1,376.91	0.77	0.96	-0.82	0.27	-0.12	-9.98
1,472.00	1.25	254.57	1,471.89	0.11	-1.09	-0.06	0.16	-0.12	4.76
1,566.00	1.10	244.48	1,565.87	-0.55	-2.90	0.69	0.27	-0.16	-10.73
1,660.00	1.02	247.92	1,659.85	-1.25	-4.49	1.47	0.11	-0.09	3.66
1,755.00	0.94	247.13	1,754.84	-1.87	-5.99	2.17	0.09	-0.08	-0.83
1,849.00	0.82	235.54	1,848.83	-2.55	-7.25	2.91	0.23	-0.13	-12.33
1,945.00	0.74	238.78	1,944.82	-3.26	-8.35	3.67	0.10	-0.08	3.38
2,040.00	0.64	242.88	2,039.81	-3.82	-9.35	4.28	0.12	-0.11	4.32
2,134.00	0.56	264.94	2,133.80	-4.10	-10.27	4.61	0.26	-0.09	23.47
2,229.00	0.37	266.89	2,228.80	-4.16	-11.04	4.70	0.20	-0.20	2.05
2,324.00	0.35	281.38	2,323.80	-4.12	-11.63	4.69	0.10	-0.02	15.25
2,418.00	0.08	333.71	2,417.80	-4.00	-11.94	4.59	0.33	-0.29	55.67
2,513.00	0.64	41.71	2,512.80	-3.55	-11.62	4.12	0.65	0.59	71.58
2,608.00	0.57	32.28	2,607.79	-2.75	-11.01	3.30	0.13	-0.07	-9.93
2,702.00	0.60	39.51	2,701.79	-1.98	-10.45	2.49	0.08	0.03	7.69
2,797.00	0.46	19.72	2,796.78	-1.24	-10.00	1.73	0.24	-0.15	-20.83
2,892.00	0.53	33.31	2,891.78	-0.51	-9.63	0.99	0.14	0.07	14.31
2,987.00	0.50	3.35	2,986.78	0.27	-9.37	0.19	0.28	-0.03	-31.54
3,082.00	0.54	33.60	3,081.77	1.06	-9.10	-0.61	0.29	0.04	31.84
3,177.00	0.79	23.02	3,176.77	2.03	-8.59	-1.61	0.29	0.26	-11.14
3,271.00	0.78	40.11	3,270.76	3.12	-7.93	-2.72	0.25	-0.01	18.18
3,366.00	0.62	83.35	3,365.75	3.67	-7.00	-3.32	0.57	-0.17	45.52
3,461.00	0.76	81.53	3,460.74	3.83	-5.87	-3.53	0.15	0.15	-1.92
3,556.00	0.78	108.80	3,555.73	3.71	-4.63	-3.48	0.38	0.02	28.71
3,651.00	0.98	127.85	3,650.72	3.00	-3.38	-2.83	0.37	0.21	20.05
3,745.00	1.41	134.34	3,744.70	1.70	-1.92	-1.61	0.48	0.46	6.90
3,840.00	1.26	135.10	3,839.68	0.15	-0.34	-0.13	0.16	-0.16	0.80
3,935.00	0.77	140.28	3,934.66	-1.09	0.80	1.04	0.52	-0.52	5.45
4,030.00	0.54	152.91	4,029.66	-1.97	1.41	1.90	0.28	-0.24	13.29
4,124.00	0.52	167.08	4,123.65	-2.78	1.71	2.70	0.14	-0.02	15.07
4,223.00	0.66	163.04	4,222.65	-3.77	1.98	3.67	0.15	0.14	-4.08
4,318.00	0.65	171.89	4,317.64	-4.82	2.21	4.71	0.11	-0.01	9.32
4,413.00	0.64	152.00	4,412.63	-5.83	2.54	5.69	0.23	-0.01	-20.94
4,508.00	0.60	167.30	4,507.63	-6.78	2.90	6.63	0.18	-0.04	16.11



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,603.00	0.75	166.52	4,602.62	-7.87	3.15	7.70	0.16	0.16	-0.82	
4,697.00	0.67	149.11	4,696.62	-8.94	3.58	8.75	0.24	-0.09	-18.52	
4,792.00	1.50	286.17	4,791.61	-9.07	2.67	8.93	2.15	0.87	144.27	
4,887.00	4.67	300.06	4,886.46	-6.79	-1.87	6.87	3.40	3.34	14.62	
4,981.00	5.21	302.34	4,980.11	-2.59	-8.79	3.02	0.61	0.57	2.43	
5,076.00	4.37	317.80	5,074.78	2.40	-14.87	-1.66	1.61	-0.88	16.27	
5,171.00	4.28	314.50	5,169.51	7.57	-19.83	-6.58	0.28	-0.09	-3.47	
5,265.00	4.19	314.38	5,263.25	12.43	-24.78	-11.18	0.10	-0.10	-0.13	
5,360.00	4.19	314.17	5,358.00	17.27	-29.75	-15.78	0.02	0.00	-0.22	
5,455.00	4.02	312.07	5,452.75	21.92	-34.71	-20.18	0.24	-0.18	-2.21	
5,549.00	2.42	331.79	5,546.61	25.88	-38.10	-23.96	2.05	-1.70	20.98	
5,644.00	2.47	336.75	5,641.52	29.53	-39.86	-27.52	0.23	0.05	5.22	
5,739.00	1.74	16.19	5,736.46	32.79	-40.26	-30.76	1.66	-0.77	41.52	
5,834.00	1.54	25.96	5,831.42	35.33	-39.30	-33.34	0.36	-0.21	10.28	
5,929.00	1.62	16.20	5,926.38	37.76	-38.37	-35.82	0.30	0.08	-10.27	
6,023.00	0.94	43.47	6,020.36	39.60	-37.47	-37.69	0.95	-0.72	29.01	
6,118.00	0.75	90.21	6,115.35	40.16	-36.31	-38.31	0.73	-0.20	49.20	
6,213.00	0.86	78.16	6,210.34	40.31	-34.99	-38.52	0.21	0.12	-12.68	
6,308.00	0.74	93.17	6,305.33	40.42	-33.68	-38.70	0.25	-0.13	15.80	
6,402.00	0.77	73.07	6,399.33	40.57	-32.47	-38.91	0.28	0.03	-21.38	
6,497.00	0.57	67.99	6,494.32	40.93	-31.42	-39.33	0.22	-0.21	-5.35	
6,592.00	0.04	182.09	6,589.32	41.08	-30.98	-39.49	0.62	-0.56	120.11	
6,687.00	0.30	197.50	6,684.32	40.81	-31.06	-39.22	0.28	0.27	16.22	
6,781.00	0.34	189.13	6,778.32	40.30	-31.18	-38.70	0.07	0.04	-8.90	
6,876.00	0.41	187.92	6,873.31	39.68	-31.27	-38.08	0.07	0.07	-1.27	
6,971.00	0.50	172.45	6,968.31	38.93	-31.26	-37.34	0.16	0.09	-16.28	
7,066.00	0.53	169.68	7,063.31	38.09	-31.13	-36.50	0.04	0.03	-2.92	
7,160.00	0.61	149.08	7,157.30	37.23	-30.79	-35.66	0.23	0.09	-21.91	
7,255.00	0.55	137.30	7,252.30	36.47	-30.22	-34.92	0.14	-0.06	-12.40	
7,350.00	0.56	138.62	7,347.29	35.78	-29.61	-34.27	0.02	0.01	1.39	
7,445.00	0.57	137.20	7,442.29	35.09	-28.98	-33.61	0.02	0.01	-1.49	
7,539.00	0.74	133.36	7,536.28	34.33	-28.22	-32.89	0.19	0.18	-4.09	
7,634.00	0.86	135.69	7,631.27	33.40	-27.28	-32.00	0.13	0.13	2.45	
7,728.00	0.86	141.82	7,725.26	32.34	-26.35	-30.99	0.10	0.00	6.52	
7,823.00	1.08	145.24	7,820.25	31.04	-25.40	-29.74	0.24	0.23	3.60	
7,918.00	1.11	159.05	7,915.23	29.45	-24.56	-28.19	0.28	0.03	14.54	
8,012.00	1.13	153.12	8,009.21	27.77	-23.81	-26.55	0.13	0.02	-6.31	
8,107.00	1.24	152.34	8,104.19	26.02	-22.91	-24.85	0.12	0.12	-0.82	
8,202.00	0.57	196.53	8,199.18	24.66	-22.57	-23.51	0.97	-0.71	46.52	
8,297.00	1.65	250.77	8,294.16	23.76	-23.99	-22.54	1.47	1.14	57.09	
8,392.00	1.25	271.96	8,389.13	23.34	-26.32	-22.01	0.70	-0.42	22.31	
8,486.00	0.93	262.37	8,483.12	23.27	-28.10	-21.85	0.39	-0.34	-10.20	
8,581.00	1.45	272.56	8,578.10	23.23	-30.07	-21.71	0.59	0.55	10.73	
8,676.00	1.90	285.46	8,673.06	23.70	-32.79	-22.04	0.62	0.47	13.58	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,770.00	4.08	295.59	8,766.92	25.56	-37.30	-23.68	2.38	2.32	10.78
8,865.00	5.52	303.35	8,861.59	29.53	-44.17	-27.30	1.66	1.52	8.17
8,960.00	6.23	297.26	8,956.09	34.40	-52.57	-31.76	0.99	0.75	-6.41
9,054.00	7.49	301.12	9,049.42	39.91	-62.35	-36.77	1.43	1.34	4.11
9,149.00	8.08	308.70	9,143.54	47.28	-72.86	-43.61	1.25	0.62	7.98
9,235.00	10.20	312.90	9,228.45	56.24	-83.16	-52.05	2.58	2.47	4.88
9,329.00	13.07	310.79	9,320.51	68.86	-97.30	-63.95	3.09	3.05	-2.24
9,424.00	13.68	313.67	9,412.93	83.63	-113.56	-77.90	0.95	0.64	3.03
9,519.00	14.96	314.07	9,504.98	99.92	-130.50	-93.32	1.35	1.35	0.42
9,614.00	14.07	316.21	9,596.94	116.78	-147.30	-109.34	1.09	-0.94	2.25
9,708.00	18.64	313.96	9,687.12	135.47	-166.03	-127.07	4.91	4.86	-2.39
9,803.00	19.60	310.73	9,776.88	156.41	-189.03	-146.84	1.50	1.01	-3.40
9,898.00	20.64	312.19	9,866.08	178.05	-213.52	-167.24	1.22	1.09	1.54
9,993.00	19.54	312.60	9,955.30	200.05	-237.62	-188.02	1.17	-1.16	0.43
10,087.00	19.30	313.66	10,043.95	221.41	-260.43	-208.23	0.45	-0.26	1.13
10,182.00	20.87	315.75	10,133.17	244.37	-283.59	-230.01	1.82	1.65	2.20
10,276.00	22.18	315.83	10,220.61	269.09	-307.64	-253.51	1.39	1.39	0.09
10,371.00	19.89	314.98	10,309.28	293.38	-331.57	-276.58	2.43	-2.41	-0.89
10,465.00	17.00	312.86	10,398.44	314.04	-352.96	-296.15	3.16	-3.07	-2.26
10,560.00	16.54	314.52	10,489.40	332.97	-372.78	-314.07	0.70	-0.48	1.75
10,607.00	16.45	314.96	10,534.46	342.36	-382.26	-322.98	0.33	-0.19	0.94
10,739.00	12.50	312.36	10,662.25	365.20	-406.05	-344.62	3.03	-2.99	-1.97
10,834.00	12.00	232.44	10,755.67	366.11	-421.57	-344.76	16.49	-0.53	-84.13
10,928.00	17.66	195.30	10,846.70	346.34	-433.11	-324.44	11.48	6.02	-39.51
11,023.00	26.46	197.80	10,934.66	312.23	-443.41	-289.86	9.31	9.26	2.63
11,118.00	28.49	199.63	11,018.94	270.73	-457.49	-247.71	2.31	2.14	1.93
11,213.00	30.82	193.45	11,101.51	225.70	-470.77	-202.08	4.04	2.45	-6.51
11,307.00	36.99	193.94	11,179.49	174.79	-483.19	-150.61	6.57	6.56	0.52
11,379.32	48.07	189.66	11,232.71	126.99	-492.98	-102.39	15.83	15.32	-5.92
SL: 11379.32' MD, 48.07° Inc, 189.66° Azm									
11,402.00	51.57	188.62	11,247.34	109.89	-495.73	-85.17	15.83	15.44	-4.57
11,496.00	64.84	185.90	11,296.77	30.80	-505.66	-5.69	14.33	14.12	-2.89
11,500.31	65.09	185.90	11,298.59	26.92	-506.07	-1.79	5.92	5.92	-0.01
FTP: 11500.31' MD, 65.09° Inc, 185.90° Azm									
11,591.00	70.46	185.89	11,332.88	-56.56	-514.68	82.01	5.92	5.92	-0.01
11,686.00	74.51	184.33	11,361.46	-146.77	-522.74	172.51	4.54	4.26	-1.64
11,780.00	81.74	179.78	11,380.80	-238.62	-525.99	264.41	9.03	7.69	-4.84
11,875.00	87.88	176.92	11,389.39	-333.13	-523.25	358.67	7.12	6.46	-3.01
11,935.00	88.16	177.81	11,391.47	-393.03	-520.49	418.36	1.55	0.47	1.48
12,030.00	87.41	177.99	11,395.14	-487.90	-517.02	512.93	0.81	-0.79	0.19
12,125.00	87.23	181.25	11,399.58	-582.78	-516.39	607.67	3.43	-0.19	3.43
12,219.00	88.57	185.04	11,403.03	-676.56	-521.54	701.58	4.27	1.43	4.03
12,314.00	89.19	182.28	11,404.89	-771.33	-527.60	796.55	2.98	0.65	-2.91



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,409.00	89.73	179.51	11,405.78	-866.31	-529.09	891.48	2.97	0.57	-2.92
12,504.00	88.48	179.42	11,407.27	-961.29	-528.20	986.30	1.32	-1.32	-0.09
12,598.00	90.00	179.59	11,408.51	-1,055.28	-527.39	1,080.13	1.63	1.62	0.18
12,693.00	90.57	180.06	11,408.04	-1,150.27	-527.10	1,175.00	0.78	0.60	0.49
12,787.00	89.58	180.27	11,407.92	-1,244.27	-527.37	1,268.89	1.08	-1.05	0.22
12,882.00	88.80	180.36	11,409.26	-1,339.26	-527.89	1,363.79	0.83	-0.82	0.09
12,976.00	91.59	182.16	11,408.94	-1,433.22	-529.96	1,457.74	3.53	2.97	1.91
13,071.00	89.98	182.54	11,407.64	-1,528.13	-533.85	1,552.72	1.74	-1.69	0.40
13,165.00	90.32	184.39	11,407.39	-1,621.96	-539.53	1,646.71	2.00	0.36	1.97
13,260.00	90.40	183.91	11,406.79	-1,716.71	-546.41	1,741.69	0.51	0.08	-0.51
13,355.00	89.47	183.88	11,406.90	-1,811.48	-552.86	1,836.67	0.98	-0.98	-0.03
13,450.00	89.67	182.89	11,407.62	-1,906.32	-558.47	1,931.66	1.06	0.21	-1.04
13,544.00	90.28	182.93	11,407.66	-2,000.19	-563.24	2,025.66	0.65	0.65	0.04
13,639.00	90.27	184.26	11,407.20	-2,095.00	-569.20	2,120.65	1.40	-0.01	1.40
13,734.00	89.74	182.03	11,407.19	-2,189.85	-574.41	2,215.64	2.41	-0.56	-2.35
13,829.00	90.05	179.83	11,407.37	-2,284.84	-575.95	2,310.58	2.34	0.33	-2.32
13,923.00	89.81	180.63	11,407.48	-2,378.83	-576.33	2,404.48	0.89	-0.26	0.85
14,018.00	89.54	179.38	11,408.02	-2,473.83	-576.34	2,499.36	1.35	-0.28	-1.32
14,113.00	87.30	176.02	11,410.64	-2,568.70	-572.53	2,593.93	4.25	-2.36	-3.54
14,207.00	87.91	174.67	11,414.57	-2,662.30	-564.91	2,687.04	1.57	0.65	-1.44
14,302.00	88.59	174.63	11,417.47	-2,756.84	-556.05	2,781.03	0.72	0.72	-0.04
14,396.00	90.15	177.43	11,418.50	-2,850.60	-549.55	2,874.34	3.41	1.66	2.98
14,491.00	90.95	179.37	11,417.59	-2,945.55	-546.89	2,969.05	2.21	0.84	2.04
14,585.00	90.43	179.59	11,416.46	-3,039.54	-546.04	3,062.88	0.60	-0.55	0.23
14,680.00	90.59	179.47	11,415.61	-3,134.54	-545.26	3,157.72	0.21	0.17	-0.13
14,775.00	91.02	181.08	11,414.28	-3,229.52	-545.72	3,252.61	1.75	0.45	1.69
14,870.00	91.07	180.69	11,412.55	-3,324.50	-547.18	3,347.54	0.41	0.05	-0.41
14,964.00	89.59	181.29	11,412.00	-3,418.48	-548.81	3,441.48	1.70	-1.57	0.64
15,059.00	90.37	178.93	11,412.04	-3,513.47	-548.99	3,536.37	2.62	0.82	-2.48
15,153.00	88.80	178.02	11,412.72	-3,607.43	-546.49	3,630.09	1.93	-1.67	-0.97
15,248.00	89.76	177.52	11,413.91	-3,702.35	-542.79	3,724.71	1.14	1.01	-0.53
15,343.00	88.32	176.42	11,415.50	-3,797.20	-537.77	3,819.19	1.91	-1.52	-1.16
15,437.00	89.05	174.59	11,417.66	-3,890.88	-530.41	3,912.39	2.10	0.78	-1.95
15,532.00	89.47	174.23	11,418.89	-3,985.42	-521.16	4,006.36	0.58	0.44	-0.38
15,626.00	91.20	175.75	11,418.34	-4,079.05	-512.95	4,099.47	2.45	1.84	1.62
15,721.00	88.87	175.28	11,418.28	-4,173.76	-505.52	4,193.69	2.50	-2.45	-0.49
15,816.00	87.48	177.72	11,421.31	-4,268.52	-499.72	4,288.05	2.95	-1.46	2.57
15,910.00	84.41	178.13	11,427.95	-4,362.21	-496.33	4,381.46	3.29	-3.27	0.44
16,005.00	83.50	180.40	11,437.96	-4,456.67	-495.11	4,475.74	2.56	-0.96	2.39
16,100.00	85.82	183.69	11,446.80	-4,551.18	-498.49	4,570.30	4.23	2.44	3.46
16,195.00	87.03	184.57	11,452.73	-4,645.74	-505.32	4,665.08	1.57	1.27	0.93
16,290.00	91.83	189.19	11,453.67	-4,740.00	-516.70	4,759.79	7.01	5.05	4.86
16,385.00	95.46	188.35	11,447.63	-4,833.68	-531.15	4,854.07	3.92	3.82	-0.88
16,479.00	93.30	182.98	11,440.45	-4,926.91	-540.39	4,947.65	6.14	-2.30	-5.71



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,574.00	91.86	178.47	11,436.17	-5,021.78	-541.59	5,042.46	4.98	-1.52	-4.75
16,669.00	88.08	177.13	11,436.22	-5,116.69	-537.94	5,137.07	4.22	-3.98	-1.41
16,708.78	89.07	177.38	11,437.21	-5,156.41	-536.04	5,176.65	2.57	2.49	0.62
SL: 16708.78' MD, 11437.21' TVD									
16,764.00	90.45	177.72	11,437.44	-5,211.58	-533.68	5,231.63	2.57	2.49	0.62
16,858.00	90.76	178.07	11,436.45	-5,305.51	-530.22	5,325.28	0.50	0.33	0.37
16,953.00	90.10	177.00	11,435.73	-5,400.42	-526.14	5,419.86	1.32	-0.69	-1.13
17,048.00	88.89	176.22	11,436.57	-5,495.25	-520.52	5,514.30	1.52	-1.27	-0.82
17,143.00	91.08	177.35	11,436.60	-5,590.09	-515.19	5,608.76	2.59	2.31	1.19
17,237.00	91.02	178.93	11,434.87	-5,684.02	-512.14	5,702.42	1.68	-0.06	1.68
17,332.00	88.52	177.26	11,435.25	-5,778.96	-508.99	5,797.09	3.16	-2.63	-1.76
17,427.00	91.13	180.22	11,435.54	-5,873.92	-506.90	5,891.82	4.15	2.75	3.12
17,522.00	90.56	180.68	11,434.14	-5,968.90	-507.64	5,986.73	0.77	-0.60	0.48
17,617.00	90.41	180.68	11,433.34	-6,063.89	-508.77	6,081.66	0.16	-0.16	0.00
17,711.00	91.01	180.62	11,432.17	-6,157.88	-509.84	6,175.58	0.64	0.64	-0.06
17,806.00	90.41	181.10	11,431.00	-6,252.86	-511.26	6,270.52	0.81	-0.63	0.51
17,901.00	90.17	180.95	11,430.52	-6,347.84	-512.96	6,365.47	0.30	-0.25	-0.16
17,995.00	89.52	180.36	11,430.77	-6,441.83	-514.04	6,459.40	0.93	-0.69	-0.63
18,090.00	90.23	180.93	11,430.98	-6,536.83	-515.11	6,554.33	0.96	0.75	0.60
18,185.00	90.78	181.22	11,430.14	-6,631.81	-516.89	6,649.28	0.65	0.58	0.31
18,279.00	90.19	180.35	11,429.34	-6,725.79	-518.18	6,743.21	1.12	-0.63	-0.93
18,374.00	90.59	178.01	11,428.70	-6,820.77	-516.82	6,838.01	2.50	0.42	-2.46
18,469.00	90.46	177.03	11,427.83	-6,915.68	-512.71	6,932.60	1.04	-0.14	-1.03
18,563.00	92.94	177.58	11,425.04	-7,009.53	-508.29	7,026.11	2.70	2.64	0.59
18,658.00	90.55	176.92	11,422.15	-7,104.37	-503.73	7,120.61	2.61	-2.52	-0.69
18,753.00	90.51	177.88	11,421.27	-7,199.26	-499.42	7,215.17	1.01	-0.04	1.01
18,847.00	89.23	176.54	11,421.48	-7,293.15	-494.85	7,308.71	1.97	-1.36	-1.43
18,942.00	90.37	179.56	11,421.81	-7,388.08	-491.62	7,403.37	3.40	1.20	3.18
19,037.00	89.35	181.32	11,422.04	-7,483.07	-492.35	7,498.28	2.14	-1.07	1.85
19,132.00	89.65	183.12	11,422.87	-7,577.99	-496.03	7,593.27	1.92	0.32	1.89
19,226.00	90.39	184.98	11,422.84	-7,671.75	-502.66	7,687.24	2.13	0.79	1.98
19,321.00	90.81	187.38	11,421.85	-7,766.19	-512.89	7,782.07	2.56	0.44	2.53
19,416.00	89.95	184.83	11,421.22	-7,860.64	-522.99	7,876.90	2.83	-0.91	-2.68
19,510.00	90.74	179.23	11,420.65	-7,954.54	-526.32	7,970.85	6.02	0.84	-5.96
19,605.00	89.54	175.46	11,420.42	-8,049.42	-521.92	8,065.40	4.16	-1.26	-3.97
19,700.00	90.28	175.37	11,420.57	-8,144.11	-514.33	8,159.60	0.78	0.78	-0.09
19,795.00	91.58	175.75	11,419.02	-8,238.81	-506.97	8,253.82	1.43	1.37	0.40
19,890.00	90.49	175.50	11,417.31	-8,333.52	-499.73	8,348.05	1.18	-1.15	-0.26
19,984.00	89.68	174.15	11,417.17	-8,427.13	-491.25	8,441.13	1.67	-0.86	-1.44
20,079.00	90.77	177.61	11,416.80	-8,521.87	-484.43	8,535.41	3.82	1.15	3.64
20,173.00	91.28	179.94	11,415.11	-8,615.83	-482.42	8,629.15	2.54	0.54	2.48
20,268.00	91.55	180.09	11,412.77	-8,710.80	-482.44	8,724.01	0.33	0.28	0.16
20,363.00	90.83	177.57	11,410.79	-8,805.75	-480.50	8,818.75	2.76	-0.76	-2.65



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 1H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.30usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.30usft (H&P 466)
Well:	Arkenstone 31 Federal 1H	North Reference:	Grid
Wellbore:	OH / 70334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,457.00	91.74	178.05	11,408.69	-8,899.66	-476.91	8,912.36	1.09	0.97	0.51	
20,552.00	90.98	178.67	11,406.43	-8,994.59	-474.19	9,007.04	1.03	-0.80	0.65	
20,647.00	90.39	179.28	11,405.30	-9,089.57	-472.49	9,101.82	0.89	-0.62	0.64	
20,741.00	90.48	179.33	11,404.58	-9,183.56	-471.35	9,195.63	0.11	0.10	0.05	
20,836.00	91.22	180.73	11,403.17	-9,278.55	-471.40	9,290.51	1.67	0.78	1.47	
20,930.00	91.08	183.32	11,401.29	-9,372.46	-474.72	9,384.47	2.76	-0.15	2.76	
21,025.00	91.39	185.77	11,399.24	-9,467.13	-482.25	9,479.40	2.60	0.33	2.58	
21,120.00	90.65	187.95	11,397.55	-9,561.43	-493.59	9,574.14	2.42	-0.78	2.29	
21,214.00	90.73	186.22	11,396.42	-9,654.70	-505.19	9,667.88	1.84	0.09	-1.84	
21,309.00	89.49	183.85	11,396.23	-9,749.33	-513.52	9,762.80	2.82	-1.31	-2.49	
21,404.00	89.79	181.63	11,396.83	-9,844.21	-518.06	9,857.79	2.36	0.32	-2.34	
21,498.00	90.55	179.62	11,396.55	-9,938.20	-519.09	9,951.71	2.29	0.81	-2.14	
21,593.00	89.93	177.25	11,396.15	-10,033.16	-516.49	10,046.42	2.58	-0.65	-2.49	
21,688.00	90.29	178.21	11,395.97	-10,128.08	-512.73	10,141.04	1.08	0.38	1.01	
21,783.00	91.48	179.10	11,394.50	-10,223.04	-510.50	10,235.78	1.56	1.25	0.94	
21,878.00	91.12	178.75	11,392.35	-10,318.00	-508.72	10,330.53	0.53	-0.38	-0.37	
21,903.73	91.69	179.77	11,391.72	-10,343.72	-508.39	10,356.20	4.54	2.21	3.96	
LTP: 21903.73' MD, 11391.72' TVD										
21,906.00	91.74	179.86	11,391.65	-10,345.99	-508.38	10,358.47	4.54	2.21	3.97	
Final Phoenix MWD Survey										
21,955.00	91.74	179.86	11,390.16	-10,394.96	-508.26	10,407.38	0.00	0.00	0.00	
Projection to TD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
393.96	393.95	1.08	1.51	Tie In
527.00	526.99	1.75	2.77	First Phoenix MWD Survey
11,379.32	11,232.71	126.99	-492.98	SL: 11379.32' MD, 48.07° Inc, 189.66° Azm
11,500.31	11,298.59	26.92	-506.07	FTP: 11500.31' MD, 65.09° Inc, 185.90° Azm
16,708.78	11,437.21	-5,156.41	-536.04	SL: 16708.78' MD, 11437.21' TVD
21,903.73	11,391.72	-10,343.72	-508.39	LTP: 21903.73' MD, 11391.72' TVD
21,906.00	11,391.65	-10,345.99	-508.38	Final Phoenix MWD Survey
21,955.00	11,390.16	-10,394.96	-508.26	Projection to TD

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-46370	
5. Indicate Type of Lease- FED STATE ☐ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL	
8. Well Number- 1H	
9. OGRID Number- 16696	
10. Pool name or Wildcat PURPLE SAGE WOLFCAMP / WC-015 G-08 S233135; WOLFCAMP	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ 2. Name of Operator- OXY USA INC. 3. Address of Operator- P.O. BOX 50250 MIDLAND, TX 79710 4. Well Location Unit Letter ___ L1 ___: ___ 130 ___ feet from the ___ NORTH ___ line and ___ 895 ___ feet from the ___ WEST ___ line Section 31 Township 23S Range 31E NMPM County- EDDY 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3347' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: COMPLETION ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

RUPU 10/26/22, RIH & clean out to PBTD @ 21912', pressure test casing to 6000# for 30 min, good test. RIH & perf @ 11578-21846' Total 1230 holes. Frac in 41 stages w/ 408165BBL Produced Water + 9213BBL Brackish Water (> 1,000 mg/I TDS and < 10,000 mg/I TDS) w/ 30830170# sand, RD NexTier 11/16/22. Well ready to produce 11/21/22. 02/10/23 RIH with 1-2/3" L80 tbg & gas lift set @ 11195', RD 02/12/23.

Formation Tops for this completion are as follows:

Rustler	347'M	347'V
Salado	669'M	669'V
Castile	1996'M	1996'V
Delaware	3995'M	3995'V
Bell Canyon	4115'M	4115'V
Cherry Canyon	4977'M	4977'V
Brushy Canyon	6256'M	6253'V
Bone Spring	7886'M	7883'V
1st Bone Spring	8909'M	8906'V
2nd Bone Spring	9602'M	9585'V
3rd Bone Spring	10994'M	10951'V
Wolfcamp	11444'M	11272'V

Spud Date:

Rig Release Date:

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

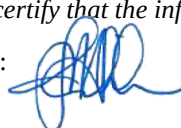
SIGNATURE  TITLE SR. REGULATORY ANALYST DATE 03-14-23

Type or print name JANA MENDIOLA E-mail address: janalyn_mendiola@oxy.com PHONE: 432-685-5936

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-015-46370		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN		
								3. State Oil & Gas Lease No.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL		
8. Name of Operator: OXY USA INC.								6. Well Number: 1H		
10. Address of Operator: P.O. BOX 50250 MIDLAND, TX 79710								9. OGRID: 16696		
11. Pool name or Wildcat PURPLE SAGE WOLFCAMP										
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	D	31	23S	31E		130	NORTH	895	WEST	EDDY
BH:	M	6	24S	31E		49	SOUTH	342	WEST	EDDY
13. Date Spudded 07/7/2022	14. Date T.D. Reached 09/16/2022	15. Date Rig Released 09/19/2022			16. Date Completed (Ready to Produce) 11/21/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3347' GL		
18. Total Measured Depth of Well 21955'M 11390'V			19. Plug Back Measured Depth 21912'M 11390'V			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run CBL		
22. Producing Interval(s), of this completion - Top, Bottom, Name 16728-21846' WOLFCAMP										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13.375" J55		54.5		407'		17.5"		460sx-surf circ		
9.625" HCL80		40		4175'		12.25"		1140sx-surf circ		
7.625" HCL80		29.7		10654'		8.75"		1606sx-surf circ		
5.5" P110 ICY		20		21935'		6.75"		874sx-TOC@8539'		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						1-2/3"	11195'			
26. Perforation record (interval, size, and number) Perf @ 16728-21846' Total 615 holes, Hole Size=0.42						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						16728-21846'		408165BBL Produced Water + 9213BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 30830170# sand		
28. PRODUCTION										
Date First Production 11/24/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas lift				Well Status (Prod. or Shut-in) Prod.				
Date of Test 12/07/2022	Hours Tested 24 hrs.	Choke Size 56/128	Prod'n For Test Period	Oil - Bbl 2244	Gas - MCF 3829	Water - Bbl. 4966	Gas - Oil Ratio 1706			
Flow Tubing Press.	Casing Pressure 2100	Calculated 24- Hour Rate	Oil - Bbl. 2244	Gas - MCF 3829	Water - Bbl. 4966	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD								30. Test Witnessed By		
31. List Attachments WBD										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature: 			Printed Name: <u>Jana Mendiola</u>			Title: <u>Sr. Regulatory Analyst</u>			Date: <u>03/15/2023</u>	
E-mail Address: <u>janalyn_mendiola@oxy.com</u>										

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Southeastern New Mexico		Northwestern New Mexico	
T. Rustler 347'	T. Bell Canyon 4115'	T. Ojo Alamo	T. Penn A"
T. Salado 669'	T. Strawn	T. Kirtland	T. Penn. "B"
T. Castile 1996'	T. Atoka	T. Fruitland	T. Penn. "C"
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T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
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T. Penn	T. 3 rd Bone Spring 10994'	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

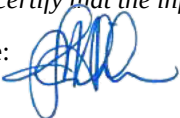
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017													
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								6. Well Number: 1H										
8. Name of Operator: OXY USA INC.						9. OGRID: 16696												
10. Address of Operator: P.O. BOX 50250 MIDLAND, TX 79710						11. Pool name or Wildcat WC-015 G-08 S233135; WOLFCAMP												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	D	31	23S	31E		130	NORTH	895	WEST	EDDY								
BH:	M	6	24S	31E		49	SOUTH	342	WEST	EDDY								
13. Date Spudded 07/7/2022	14. Date T.D. Reached 09/16/2022		15. Date Rig Released 09/19/2022		16. Date Completed (Ready to Produce) 11/21/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3347' GL										
18. Total Measured Depth of Well 21955'M 11390'V			19. Plug Back Measured Depth 21912'M 11390'V		20. Was Directional Survey Made? YES			21. Type Electric and Other Logs Run CBL										
22. Producing Interval(s), of this completion - Top, Bottom, Name 11578-16704' WOLFCAMP																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13.375" J55		54.5		407'		17.5"		460sx-surf circ										
9.625" HCL80		40		4175'		12.25"		1140sx-surf circ										
7.625" HCL80		29.7		10654'		8.75"		1606sx-surf circ										
5.5" P110 ICY		20		21935'		6.75"		874sx-TOC@8539'										
24. LINER RECORD																		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET								
						1-2/3"		11195'										
26. Perforation record (interval, size, and number) Perf @ 11578-16704' Total 615 holes, Hole Size=0.42						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH INTERVAL</td> <td>AMOUNT AND KIND MATERIAL USED</td> </tr> <tr> <td>11578-16704'</td> <td>408165BBL Produced Water + 9213BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 30830170# sand</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	11578-16704'	408165BBL Produced Water + 9213BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 30830170# sand				
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28. PRODUCTION																		
Date First Production 11/24/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas lift				Well Status (Prod. or Shut-in) Prod.												
Date of Test 12/07/2022	Hours Tested 24 hrs.	Choke Size 56/128	Prod'n For Test Period	Oil - Bbl 2244	Gas - MCF 3829	Water - Bbl. 4966	Gas - Oil Ratio 1706											
Flow Tubing Press.	Casing Pressure 2100	Calculated 24- Hour Rate	Oil - Bbl. 2244	Gas - MCF 3829	Water - Bbl. 4966	Oil Gravity - API - (Corr.)												
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD								30. Test Witnessed By										
31. List Attachments WBD																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:										
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude _____ Longitude _____ NAD83																		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																		
Printed																		
Signature: 		Name: <u>Jana Mendiola</u>			Title: <u>Sr. Regulatory Analyst</u>			Date: <u>03/15/2023</u>										
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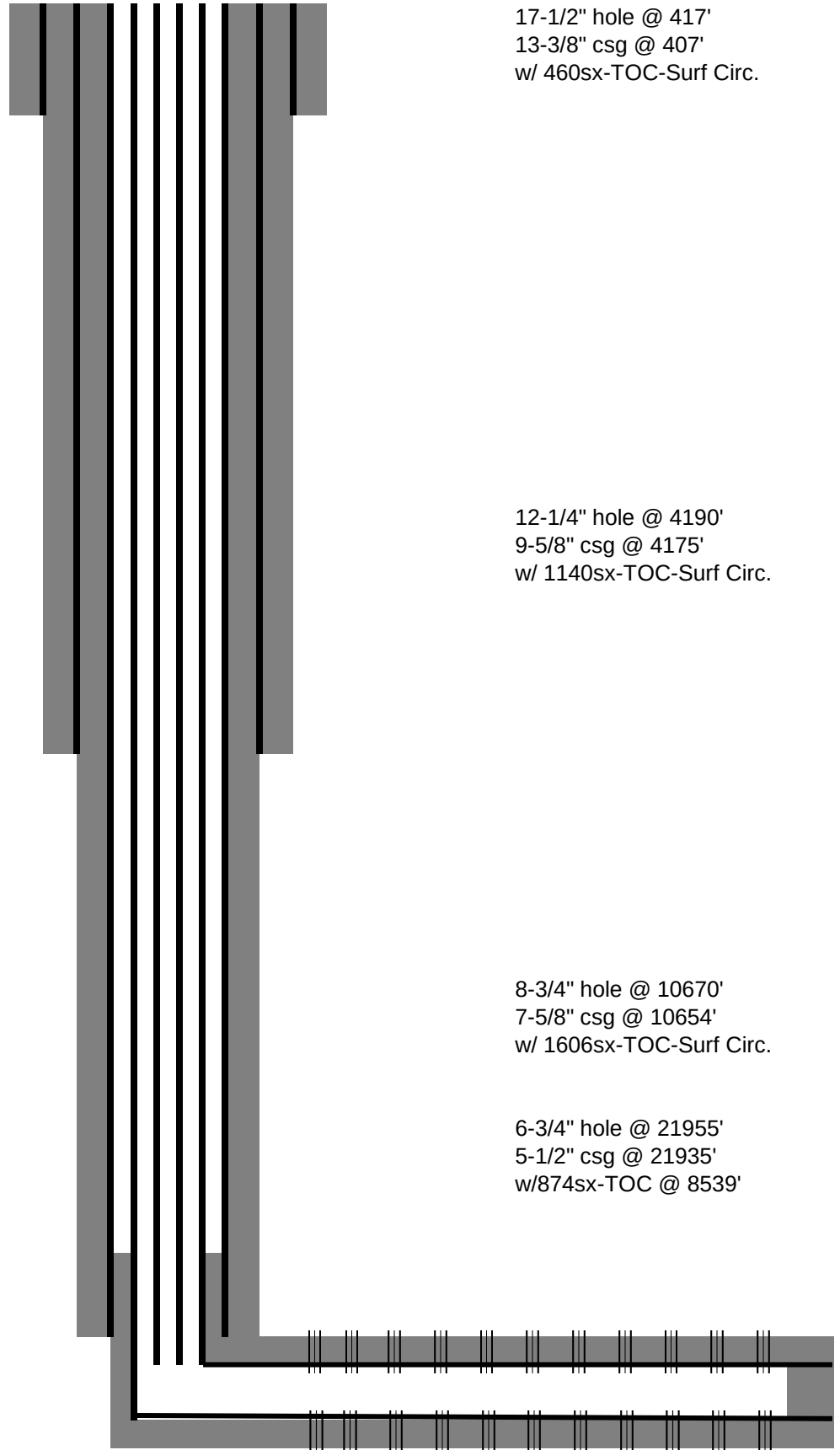
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From	To	Thickness In Feet	Lithology

OXY USA Inc.
ARKENSTONE 31 FEDERAL 1H
API No. 30-015-46370



1-2/3" tbq & gas lift @ 11195'

Perfs @ 11578-21846'

TD- 21955'M 11390'V

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 197232

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197232
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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Energy, Minerals and Natural Resources
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CONDITIONS

Action 197232

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197232
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days to NMOCD after BLM approval.	5/30/2023
plmartinez	Submit CBL to OCD Permitting as [UF-WL] EP Well Log Submission.	5/30/2023