

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104

Revised August 1, 2011

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

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

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: RT - 01/25/2023
⁴ API Number 30 - 025-48816	⁵ Pool Name MESA VERDE; BONE SPRING	⁶ Pool Code 96229
⁷ Property Code: 320828	⁸ Property Name: MESA VERDE BONE SPRING UNIT	⁹ Well Number: 46H

II. 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
M	16	24S	32E		635	SOUTH	1210	WEST	LEA

¹¹ Bottom Hole Location

FTP- 139' FSL 2261' FWL LTP- 204' FNL 2301' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	9	24S	32E		44	NORTH	2301	WEST	LEA
¹² Lse Code F	¹³ Producing Method Code : F		¹⁴ Gas Connection Date: TBD		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 10/15/22	²² Ready Date 01/25/2023	²³ TD 20496'M 9742'V	²⁴ PBTD 20451'M 9742'V	²⁵ Perforations 10110-20336'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
14-3/4"		10-3/4"	979'		1015
9-7/8"		7-5/8"	9274'		2441
6-3/4"		5-1/2"	20476'		1177

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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: 01/24/2023 Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title: PETROLEUM SPECIALIST

Approval Date: 3/20/2023

RT EXPIRES 4/25/2023

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

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

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☒ AMENDED REPORT

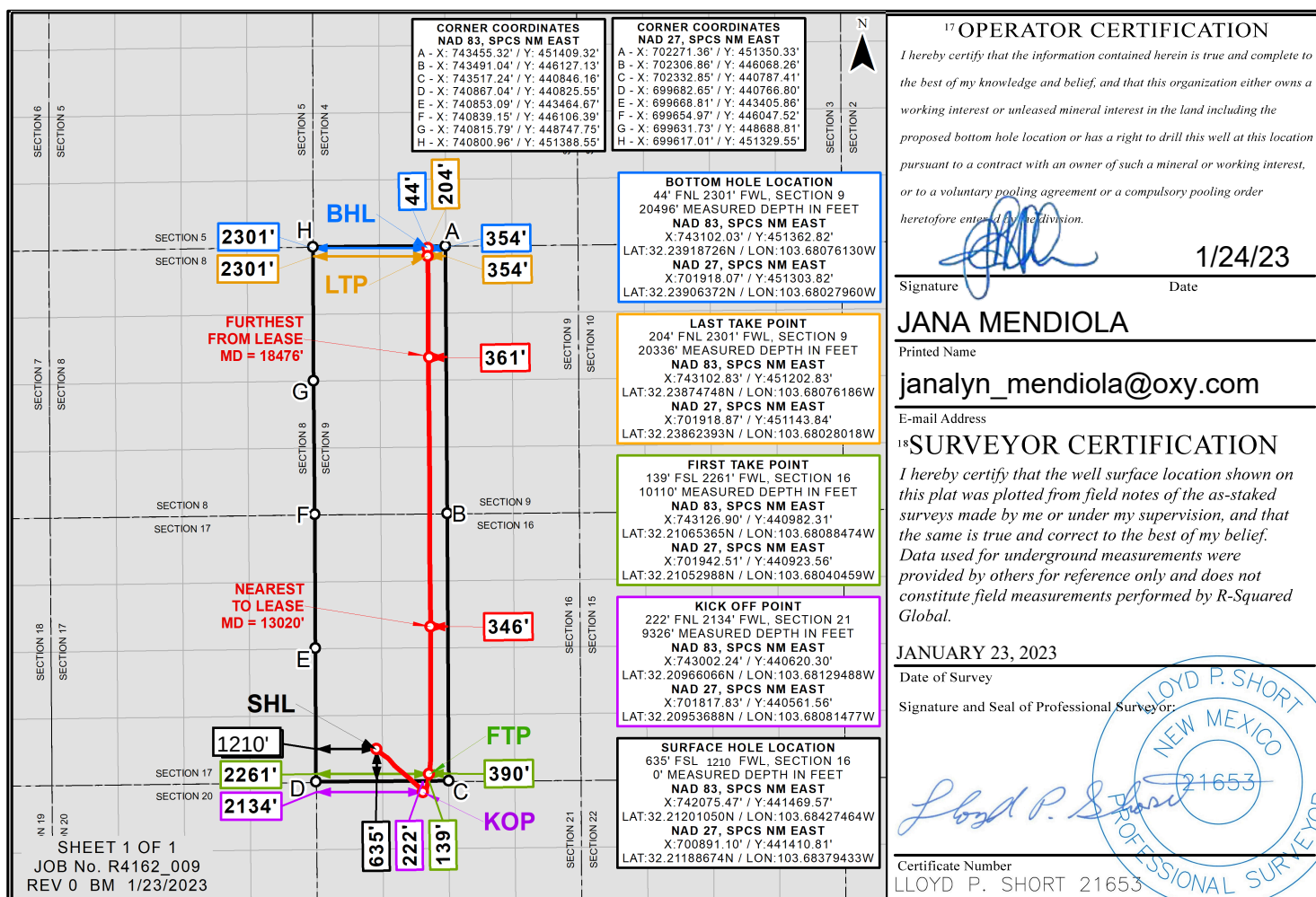
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-48816	² Pool Code 96229	³ Pool Name MESA VERDE; BONE SRPING
⁴ Property Code 320828	Property Name MESA VERDE BS UNIT	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁶ Well Number 46H
		⁹ Elevation 3573'

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
M	16	24S	32E		635	SOUTH	1210	WEST	LEA
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
C	9	24S	32E		44	NORTH	2301	WEST	LEA
¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



Distances/areas relative to NAD 83 Combined Scale Factor: 0.9990013 Convergence Angle: 0.68792778



Released to Imaging: 3/20/2023 3:02:59 PM



Actual Wellpath Report

Mesa Verde BS Unit 46H_awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Moyagusa
Scale	0.999955	Report Generated	11/25/2022 at 9:11:30 PM
Convergence at slot	0.35° East	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.57	70.00	742075.47	441469.57	32°12'43.2378"N	103°41'3.3887"W
Facility Reference Pt			742005.47	441469.00	32°12'43.2363"N	103°41'4.2035"W
Field Reference Pt			533303.25	1273342.63	34°30'0.0000"N	104°21'36.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 433 (KB) to Facility Vertical Datum	3600.00ft
Horizontal Reference Pt	Slot	H&P 433 (KB) to Mean Sea Level	3600.00ft
Vertical Reference Pt	H&P 433 (KB)	H&P 433 (KB) to Ground Level at Slot (Mesa Verde BS Unit 46H)	26.50ft
MD Reference Pt	H&P 433 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	6.01°



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Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	136.450	0.00	0.00	0.00	0.00	742075.47	441469.57	32°12'43.2378"N	103°41'3.3887"W	0.00	0.00	0.00	
26.50	0.000	136.450	26.50	0.00	0.00	0.00	742075.47	441469.57	32°12'43.2378"N	103°41'3.3887"W	0.00	0.00	0.00	
96.73	0.790	136.450	96.73	-0.31	-0.35	0.33	742075.80	441469.22	32°12'43.2343"N	103°41'3.3848"W	1.12	1.12	0.00	Adjusted Gyrodata Gyro Surveys 96.73'-960.69' (In
123.98	0.910	130.040	123.97	-0.56	-0.63	0.63	742076.10	441468.94	32°12'43.2315"N	103°41'3.3814"W	0.56	0.44	-23.52	
181.32	1.080	132.400	181.31	-1.13	-1.28	1.38	742076.85	441468.29	32°12'43.2250"N	103°41'3.3728"W	0.30	0.30	4.12	
268.61	1.160	130.320	268.58	-2.12	-2.41	2.66	742078.13	441467.16	32°12'43.2138"N	103°41'3.3579"W	0.10	0.09	-2.38	
363.57	1.120	132.770	363.52	-3.22	-3.66	4.07	742079.54	441465.91	32°12'43.2013"N	103°41'3.3416"W	0.07	-0.04	2.58	
457.91	1.090	132.820	457.84	-4.31	-4.90	5.41	742080.88	441464.67	32°12'43.1890"N	103°41'3.3261"W	0.03	-0.03	0.05	
551.85	0.990	142.150	551.77	-5.43	-6.15	6.56	742082.03	441463.42	32°12'43.1766"N	103°41'3.3128"W	0.21	-0.11	9.93	
646.33	0.970	143.900	646.23	-6.61	-7.44	7.53	742083.00	441462.13	32°12'43.1637"N	103°41'3.3016"W	0.04	-0.02	1.85	
740.66	0.810	148.700	740.55	-7.73	-8.65	8.35	742083.82	441460.92	32°12'43.1517"N	103°41'3.2921"W	0.19	-0.17	5.09	
834.90	0.560	151.160	834.79	-8.64	-9.62	8.92	742084.39	441459.95	32°12'43.1420"N	103°41'3.2856"W	0.27	-0.27	2.61	
929.26	0.540	165.280	929.14	-9.43	-10.46	9.25	742084.72	441459.11	32°12'43.1337"N	103°41'3.2817"W	0.14	-0.02	14.96	
960.69	0.590	161.190	960.57	-9.72	-10.75	9.34	742084.81	441458.82	32°12'43.1308"N	103°41'3.2807"W	0.20	0.16	-13.01	
1029.00	0.620	158.310	1028.88	-10.36	-11.43	9.59	742085.06	441458.14	32°12'43.1241"N	103°41'3.2779"W	0.06	0.04	-4.22	SLB MWD Surveys 1029'-9260' (Imported)
1121.00	0.610	154.730	1120.87	-11.22	-12.34	9.99	742085.45	441457.23	32°12'43.1151"N	103°41'3.2734"W	0.04	-0.01	-3.89	
1215.00	0.470	157.150	1214.87	-11.99	-13.14	10.35	742085.82	441456.43	32°12'43.1071"N	103°41'3.2692"W	0.15	-0.15	2.57	
1309.00	0.500	161.250	1308.86	-12.70	-13.89	10.63	742086.10	441455.68	32°12'43.0997"N	103°41'3.2660"W	0.05	0.03	4.36	
1401.00	0.090	336.880	1400.86	-13.00	-14.20	10.73	742086.20	441455.37	32°12'43.0966"N	103°41'3.2648"W	0.64	-0.45	190.90	
1494.00	0.080	358.080	1493.86	-12.87	-14.07	10.70	742086.17	441455.50	32°12'43.0979"N	103°41'3.2652"W	0.04	-0.01	22.80	
1587.00	0.090	8.310	1586.86	-12.73	-13.93	10.71	742086.18	441455.64	32°12'43.0993"N	103°41'3.2650"W	0.02	0.01	11.00	
1683.00	0.090	87.910	1682.86	-12.65	-13.86	10.79	742086.26	441455.72	32°12'43.1000"N	103°41'3.2640"W	0.12	0.00	82.92	
1777.00	0.090	180.530	1776.86	-12.71	-13.93	10.87	742086.34	441455.64	32°12'43.0993"N	103°41'3.2632"W	0.14	0.00	98.53	
1872.00	0.090	14.830	1871.86	-12.71	-13.93	10.89	742086.36	441455.64	32°12'43.0993"N	103°41'3.2630"W	0.19	0.00	-174.42	
1966.00	0.080	292.720	1965.86	-12.62	-13.83	10.84	742086.31	441455.74	32°12'43.1003"N	103°41'3.2635"W	0.12	-0.01	-87.35	
2060.00	0.080	137.080	2059.86	-12.64	-13.85	10.83	742086.30	441455.72	32°12'43.1000"N	103°41'3.2636"W	0.17	0.00	-165.57	
2155.00	0.080	197.480	2154.86	-12.75	-13.97	10.85	742086.32	441455.60	32°12'43.0989"N	103°41'3.2634"W	0.08	0.00	63.58	
2249.00	0.090	184.870	2248.86	-12.89	-14.10	10.83	742086.30	441455.47	32°12'43.0976"N	103°41'3.2637"W	0.02	0.01	-13.41	
2344.00	0.090	244.410	2343.86	-13.01	-14.21	10.75	742086.22	441455.36	32°12'43.0965"N	103°41'3.2645"W	0.09	0.00	62.67	
2439.00	0.080	201.440	2438.86	-13.11	-14.30	10.66	742086.13	441455.27	32°12'43.0956"N	103°41'3.2656"W	0.07	-0.01	-45.23	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2533.00	0.090	111.110	2532.86	-13.19	-14.39	10.71	742086.18	441455.18	32°12'43.0947"N	103°41'3.2651"W	0.13	0.01	-96.10	
2628.00	0.100	79.020	2627.86	-13.19	-14.40	10.86	742086.33	441455.17	32°12'43.0946"N	103°41'3.2633"W	0.06	0.01	-33.78	
2723.00	0.090	3.260	2722.86	-13.09	-14.31	10.94	742086.41	441455.26	32°12'43.0955"N	103°41'3.2623"W	0.12	-0.01	-79.75	
2818.00	0.080	328.800	2817.86	-12.96	-14.18	10.91	742086.38	441455.39	32°12'43.0968"N	103°41'3.2627"W	0.05	-0.01	-36.27	
2913.00	0.080	309.570	2912.86	-12.87	-14.08	10.83	742086.30	441455.49	32°12'43.0978"N	103°41'3.2637"W	0.03	0.00	-20.24	
3008.00	0.090	225.530	3007.86	-12.89	-14.09	10.72	742086.19	441455.48	32°12'43.0977"N	103°41'3.2649"W	0.12	0.01	-88.46	
3103.00	0.080	350.490	3102.86	-12.88	-14.08	10.66	742086.13	441455.49	32°12'43.0978"N	103°41'3.2656"W	0.16	-0.01	131.54	
3198.00	0.100	61.010	3197.86	-12.77	-13.97	10.72	742086.19	441455.60	32°12'43.0989"N	103°41'3.2649"W	0.11	0.02	74.23	
3293.00	0.120	333.260	3292.86	-12.64	-13.84	10.75	742086.22	441455.73	32°12'43.1002"N	103°41'3.2646"W	0.16	0.02	-92.37	
3388.00	0.080	208.710	3387.86	-12.62	-13.81	10.67	742086.14	441455.76	32°12'43.1005"N	103°41'3.2655"W	0.19	-0.04	-131.11	
3483.00	0.070	57.780	3482.86	-12.64	-13.84	10.69	742086.16	441455.73	32°12'43.1002"N	103°41'3.2653"W	0.15	-0.01	-158.87	
3578.00	0.110	110.670	3577.86	-12.63	-13.84	10.82	742086.29	441455.73	32°12'43.1002"N	103°41'3.2637"W	0.09	0.04	55.67	
3673.00	0.090	316.690	3672.86	-12.61	-13.82	10.86	742086.33	441455.75	32°12'43.1004"N	103°41'3.2633"W	0.21	-0.02	-162.08	
3768.00	0.160	236.230	3767.86	-12.64	-13.84	10.70	742086.17	441455.73	32°12'43.1002"N	103°41'3.2652"W	0.18	0.07	-84.69	
3863.00	0.190	171.950	3862.86	-12.88	-14.07	10.61	742086.08	441455.50	32°12'43.0979"N	103°41'3.2662"W	0.20	0.03	-67.66	
3958.00	0.080	262.010	3957.86	-13.05	-14.23	10.57	742086.03	441455.34	32°12'43.0963"N	103°41'3.2667"W	0.22	-0.12	94.80	
4052.00	0.110	43.460	4051.86	-12.99	-14.18	10.56	742086.03	441455.39	32°12'43.0969"N	103°41'3.2668"W	0.19	0.03	150.48	
4148.00	0.100	344.430	4147.86	-12.84	-14.03	10.60	742086.07	441455.54	32°12'43.0983"N	103°41'3.2663"W	0.11	-0.01	-61.49	
4242.00	0.100	148.540	4241.86	-12.83	-14.02	10.62	742086.09	441455.55	32°12'43.0984"N	103°41'3.2660"W	0.21	0.00	174.59	
4337.00	0.100	118.190	4336.86	-12.93	-14.13	10.74	742086.21	441455.44	32°12'43.0973"N	103°41'3.2647"W	0.06	0.00	-31.95	
4432.00	0.080	257.330	4431.86	-12.98	-14.18	10.75	742086.22	441455.39	32°12'43.0968"N	103°41'3.2646"W	0.18	-0.02	146.46	
4526.00	0.110	79.880	4525.86	-12.98	-14.18	10.77	742086.24	441455.39	32°12'43.0968"N	103°41'3.2643"W	0.20	0.03	-188.78	
4621.00	0.110	156.980	4620.86	-13.03	-14.25	10.90	742086.37	441455.32	32°12'43.0961"N	103°41'3.2629"W	0.14	0.00	81.16	
4716.00	0.950	148.700	4715.85	-13.74	-15.01	11.34	742086.81	441454.56	32°12'43.0886"N	103°41'3.2577"W	0.89	0.88	-8.72	
4811.00	3.620	136.730	4810.77	-16.32	-17.86	13.81	742089.28	441451.71	32°12'43.0602"N	103°41'3.2292"W	2.84	2.81	-12.60	
4906.00	6.150	133.060	4905.42	-21.34	-23.52	19.58	742095.05	441446.05	32°12'43.0038"N	103°41'3.1624"W	2.68	2.66	-3.86	
5001.00	8.580	130.150	4999.63	-28.39	-31.57	28.72	742104.19	441438.00	32°12'42.9237"N	103°41'3.0567"W	2.59	2.56	-3.06	
5096.00	10.390	129.880	5093.32	-37.14	-41.63	40.71	742116.18	441427.94	32°12'42.8234"N	103°41'2.9178"W	1.91	1.91	-0.28	
5191.00	12.020	128.460	5186.51	-47.22	-53.28	55.03	742130.50	441416.29	32°12'42.7073"N	103°41'2.7519"W	1.74	1.72	-1.49	
5286.00	13.970	128.220	5279.07	-58.64	-66.53	71.79	742147.26	441403.05	32°12'42.5752"N	103°41'2.5578"W	2.05	2.05	-0.25	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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5380.00	16.720	128.350	5369.71	-71.93	-81.94	91.31	742166.78	441387.64	32°12'42.4215"N	103°41'2.3317"W	2.93	2.93	0.14	
5475.00	18.670	128.220	5460.21	-87.34	-99.83	113.98	742189.44	441369.75	32°12'42.2432"N	103°41'2.0692"W	2.05	2.05	-0.14	
5570.00	17.470	126.150	5550.53	-102.61	-117.65	137.44	742212.90	441351.93	32°12'42.0655"N	103°41'1.7974"W	1.43	-1.26	-2.18	
5665.00	13.830	121.700	5641.99	-114.70	-132.03	158.62	742234.08	441337.55	32°12'41.9219"N	103°41'1.5518"W	4.03	-3.83	-4.68	
5760.00	14.450	121.360	5734.12	-124.69	-144.17	178.40	742253.86	441325.41	32°12'41.8006"N	103°41'1.3224"W	0.66	0.65	-0.36	
5855.00	14.340	125.050	5826.13	-135.48	-157.09	198.16	742273.62	441312.49	32°12'41.6715"N	103°41'1.0934"W	0.97	-0.12	3.88	
5950.00	14.410	126.740	5918.16	-147.23	-170.92	217.26	742292.72	441298.66	32°12'41.5336"N	103°41'0.8721"W	0.45	0.07	1.78	
6044.00	14.320	132.410	6009.23	-160.11	-185.76	235.22	742310.68	441283.82	32°12'41.3857"N	103°41'0.6641"W	1.50	-0.10	6.03	
6139.00	14.300	136.940	6101.28	-174.77	-202.25	251.90	742327.36	441267.33	32°12'41.2214"N	103°41'0.4711"W	1.18	-0.02	4.77	
6234.00	14.930	138.300	6193.21	-190.69	-219.96	268.05	742343.51	441249.62	32°12'41.0452"N	103°41'0.2843"W	0.76	0.66	1.43	
6329.00	17.680	141.650	6284.38	-209.24	-240.42	285.15	742360.61	441229.17	32°12'40.8418"N	103°41'0.0868"W	3.06	2.89	3.53	
6423.00	17.680	139.800	6373.94	-229.32	-262.51	303.22	742378.67	441207.07	32°12'40.6221"N	103°40'59.8780"W	0.60	0.00	-1.97	
6518.00	17.390	137.920	6464.53	-248.79	-284.07	322.04	742397.50	441185.52	32°12'40.4077"N	103°40'59.6605"W	0.67	-0.31	-1.98	
6613.00	17.430	136.010	6555.18	-267.42	-304.84	341.44	742416.89	441164.74	32°12'40.2010"N	103°40'59.4362"W	0.60	0.04	-2.01	
6708.00	17.670	135.310	6645.75	-285.69	-325.33	361.46	742436.91	441144.26	32°12'39.9970"N	103°40'59.2046"W	0.34	0.25	-0.74	
6803.00	17.580	133.340	6736.30	-303.53	-345.43	382.04	742457.49	441124.16	32°12'39.7970"N	103°40'58.9665"W	0.63	-0.09	-2.07	
6898.00	17.690	132.320	6826.83	-320.77	-364.99	403.14	742478.59	441104.60	32°12'39.6021"N	103°40'58.7223"W	0.35	0.12	-1.07	
6993.00	17.470	131.220	6917.39	-337.54	-384.10	424.54	742499.99	441085.48	32°12'39.4117"N	103°40'58.4746"W	0.42	-0.23	-1.16	
7088.00	17.650	130.270	7007.97	-353.87	-402.81	446.26	742521.70	441066.78	32°12'39.2253"N	103°40'58.2231"W	0.36	0.19	-1.00	
7183.00	17.680	129.230	7098.49	-369.88	-421.24	468.42	742543.87	441048.35	32°12'39.0416"N	103°40'57.9665"W	0.33	0.03	-1.09	
7277.00	17.430	127.860	7188.11	-385.13	-438.91	490.59	742566.04	441030.68	32°12'38.8654"N	103°40'57.7097"W	0.51	-0.27	-1.46	
7372.00	17.390	126.620	7278.76	-399.87	-456.11	513.22	742588.66	441013.48	32°12'38.6939"N	103°40'57.4475"W	0.39	-0.04	-1.31	
7467.00	17.320	128.220	7369.43	-414.64	-473.33	535.72	742611.17	440996.26	32°12'38.5222"N	103°40'57.1868"W	0.51	-0.07	1.68	
7562.00	17.320	129.180	7460.13	-429.91	-491.01	557.79	742633.24	440978.58	32°12'38.3459"N	103°40'56.9312"W	0.30	0.00	1.01	
7658.00	17.710	130.710	7551.68	-446.04	-509.56	579.94	742655.38	440960.03	32°12'38.1610"N	103°40'56.6747"W	0.63	0.41	1.59	
7753.00	17.400	129.820	7642.25	-462.17	-528.08	601.80	742677.25	440941.51	32°12'37.9764"N	103°40'56.4216"W	0.43	-0.33	-0.94	
7847.00	17.370	130.310	7731.96	-477.90	-546.16	623.30	742698.74	440923.43	32°12'37.7962"N	103°40'56.1727"W	0.16	-0.03	0.52	
7942.00	17.490	131.560	7822.60	-494.19	-564.81	644.79	742720.23	440904.79	32°12'37.6105"N	103°40'55.9238"W	0.41	0.13	1.32	
8038.00	17.480	132.560	7914.16	-511.16	-584.13	666.21	742741.65	440885.47	32°12'37.4180"N	103°40'55.6760"W	0.31	-0.01	1.04	
8133.00	17.480	133.780	8004.78	-528.40	-603.65	687.02	742762.46	440865.95	32°12'37.2236"N	103°40'55.4351"W	0.39	0.00	1.28	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8228.00	17.320	133.250	8095.43	-545.70	-623.21	707.62	742783.06	440846.39	32°12'37.0288"N	103°40'55.1967"W	0.24	-0.17	-0.56	
8323.00	17.320	131.920	8186.12	-562.55	-642.35	728.44	742803.88	440827.25	32°12'36.8382"N	103°40'54.9557"W	0.42	0.00	-1.40	
8418.00	17.470	131.160	8276.78	-579.05	-661.18	749.70	742825.13	440808.42	32°12'36.6505"N	103°40'54.7097"W	0.29	0.16	-0.80	
8512.00	17.170	130.550	8366.51	-595.04	-679.49	770.87	742846.30	440790.11	32°12'36.4681"N	103°40'54.4646"W	0.37	-0.32	-0.65	
8607.00	17.180	130.710	8457.28	-610.98	-697.75	792.16	742867.59	440771.85	32°12'36.2861"N	103°40'54.2181"W	0.05	0.01	0.17	
8702.00	17.230	131.540	8548.03	-627.14	-716.24	813.32	742888.75	440753.37	32°12'36.1020"N	103°40'53.9731"W	0.26	0.05	0.87	
8797.00	16.420	134.830	8638.96	-643.74	-735.03	833.38	742908.81	440734.57	32°12'35.9147"N	103°40'53.7410"W	1.32	-0.85	3.46	
8892.00	16.240	136.630	8730.13	-660.80	-754.16	852.02	742927.45	440715.45	32°12'35.7244"N	103°40'53.5253"W	0.57	-0.19	1.89	
8988.00	16.580	138.060	8822.22	-678.72	-774.10	870.39	742945.82	440695.50	32°12'35.5259"N	103°40'53.3129"W	0.55	0.35	1.49	
9083.00	16.010	140.720	8913.40	-697.01	-794.33	887.75	742963.18	440675.28	32°12'35.3248"N	103°40'53.1124"W	0.99	-0.60	2.80	
9178.00	16.350	147.000	9004.65	-716.62	-815.68	903.33	742978.75	440653.93	32°12'35.1125"N	103°40'52.9326"W	1.88	0.36	6.61	
9260.00	16.940	145.960	9083.21	-734.73	-835.26	916.30	742991.73	440634.35	32°12'34.9180"N	103°40'52.7829"W	0.81	0.72	-1.27	
9326.00	13.840	139.850	9146.84	-747.56	-849.27	926.77	743002.20	440620.34	32°12'34.7788"N	103°40'52.6620"W	5.29	-4.70	-9.26	BKR Lucida MWD Surveys 9326'-20475'
9422.00	10.000	81.090	9241.07	-753.39	-856.78	942.47	743017.90	440612.83	32°12'34.7035"N	103°40'52.4799"W	12.61	-4.00	-61.21	
9517.00	13.850	46.570	9334.12	-742.61	-847.67	958.90	743034.33	440621.94	32°12'34.7927"N	103°40'52.2880"W	8.35	4.05	-36.34	
9612.00	19.010	33.960	9425.23	-720.29	-827.00	975.82	743051.25	440642.61	32°12'34.9962"N	103°40'52.0896"W	6.57	5.43	-13.27	
9707.00	30.850	21.540	9511.29	-682.99	-791.36	993.48	743068.90	440678.25	32°12'35.3478"N	103°40'51.8815"W	13.56	12.46	-13.07	
9802.00	40.910	12.990	9588.21	-628.47	-738.22	1009.47	743084.89	440731.38	32°12'35.8726"N	103°40'51.6917"W	11.81	10.59	-9.00	
9896.00	50.320	10.070	9653.89	-561.68	-672.46	1022.74	743098.16	440797.14	32°12'36.5225"N	103°40'51.5326"W	10.25	10.01	-3.11	
9954.00†	56.449	9.450	9688.47	-515.25	-626.60	1030.62	743106.04	440843.00	32°12'36.9758"N	103°40'51.4377"W	10.60	10.57	-1.07	Lease Line Crossing: 9954.00ft MD
9991.00	60.360	9.100	9707.85	-483.79	-595.51	1035.70	743111.12	440874.09	32°12'37.2832"N	103°40'51.3764"W	10.60	10.57	-0.95	
10069.00†	69.309	8.009	9740.99	-413.34	-525.76	1046.16	743121.58	440943.83	32°12'37.9727"N	103°40'51.2496"W	11.54	11.47	-1.40	FTP/100'FSL Crossing: 10069.00ft MD
10086.00	71.260	7.790	9746.72	-397.34	-509.91	1048.36	743123.78	440959.68	32°12'38.1294"N	103°40'51.2229"W	11.54	11.48	-1.29	
10181.00	79.290	7.150	9770.85	-305.57	-418.89	1060.29	743135.71	441050.70	32°12'39.0294"N	103°40'51.0777"W	8.48	8.45	-0.67	
10276.00	88.250	7.050	9781.15	-211.24	-325.27	1071.95	743147.37	441144.32	32°12'39.9550"N	103°40'50.9354"W	9.43	9.43	-0.11	
10371.00	90.040	2.720	9782.57	-116.30	-230.65	1080.03	743155.45	441238.93	32°12'40.8908"N	103°40'50.8346"W	4.93	1.88	-4.56	
10441.00	90.180	0.700	9782.43	-46.50	-160.68	1082.12	743157.54	441308.89	32°12'41.5830"N	103°40'50.8053"W	2.89	0.20	-2.89	
10536.00	90.580	359.660	9781.80	48.00	-65.69	1082.42	743157.84	441403.89	32°12'42.5229"N	103°40'50.7951"W	1.17	0.42	-1.09	
10631.00	90.300	359.690	9781.07	142.42	29.31	1081.88	743157.30	441498.88	32°12'43.4630"N	103°40'50.7947"W	0.30	-0.29	0.03	
10726.00	90.550	359.980	9780.37	236.87	124.30	1081.61	743157.03	441593.87	32°12'44.4030"N	103°40'50.7912"W	0.40	0.26	0.31	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
10821.00	90.580	359.950	9779.43	331.34	219.30	1081.55	743156.97	441688.86	32°12'45.3429"N	103°40'50.7851"W	0.04	0.03	-0.03	
10914.00	90.210	359.740	9778.79	423.79	312.30	1081.30	743156.72	441781.85	32°12'46.2632"N	103°40'50.7815"W	0.46	-0.40	-0.23	
11007.00	90.330	359.670	9778.35	516.23	405.29	1080.82	743156.24	441874.85	32°12'47.1834"N	103°40'50.7805"W	0.15	0.13	-0.08	
11100.00	90.240	359.740	9777.89	608.67	498.29	1080.34	743155.76	441967.84	32°12'48.1036"N	103°40'50.7795"W	0.12	-0.10	0.08	
11194.00	90.330	359.720	9777.42	702.10	592.29	1079.90	743155.32	442061.83	32°12'49.0338"N	103°40'50.7780"W	0.10	0.10	-0.02	
11287.00	90.270	359.680	9776.93	794.54	685.29	1079.41	743154.83	442154.83	32°12'49.9540"N	103°40'50.7771"W	0.08	-0.06	-0.04	
11380.00	89.990	359.550	9776.72	886.96	778.29	1078.79	743154.21	442247.82	32°12'50.8743"N	103°40'50.7778"W	0.33	-0.30	-0.14	
11474.00	90.270	359.510	9776.51	980.36	872.28	1078.02	743153.44	442341.81	32°12'51.8044"N	103°40'50.7801"W	0.30	0.30	-0.04	
11567.00	89.570	359.850	9776.64	1072.79	965.28	1077.50	743152.92	442434.80	32°12'52.7246"N	103°40'50.7796"W	0.84	-0.75	0.37	
11660.00	90.590	360.000	9776.51	1165.26	1058.28	1077.37	743152.79	442527.80	32°12'53.6449"N	103°40'50.7744"W	1.11	1.10	0.16	
11753.00	92.100	0.340	9774.33	1257.75	1151.25	1077.65	743153.07	442620.77	32°12'54.5648"N	103°40'50.7647"W	1.66	1.62	0.37	
11848.00	88.740	359.700	9773.63	1352.22	1246.23	1077.68	743153.10	442715.74	32°12'55.5047"N	103°40'50.7576"W	3.60	-3.54	-0.67	
11943.00	89.510	0.270	9775.08	1446.68	1341.22	1077.66	743153.08	442810.73	32°12'56.4446"N	103°40'50.7511"W	1.01	0.81	0.60	
12038.00	89.480	0.010	9775.92	1541.18	1436.22	1077.89	743153.31	442905.72	32°12'57.3845"N	103°40'50.7417"W	0.28	-0.03	-0.27	
12132.00	89.760	0.090	9776.54	1634.67	1530.21	1077.97	743153.39	442999.71	32°12'58.3146"N	103°40'50.7341"W	0.31	0.30	0.09	
12227.00	89.930	2.710	9776.80	1729.35	1625.18	1080.29	743155.71	443094.67	32°12'59.2541"N	103°40'50.7004"W	2.76	0.18	2.76	
12318.00	89.650	359.910	9777.13	1820.04	1716.14	1082.37	743157.79	443185.63	32°13'0.1541"N	103°40'50.6698"W	3.09	-0.31	-3.08	
12413.00	89.930	359.890	9777.48	1914.50	1811.14	1082.21	743157.63	443280.63	32°13'1.0942"N	103°40'50.6650"W	0.30	0.29	-0.02	
12508.00	89.900	0.070	9777.62	2008.97	1906.14	1082.17	743157.59	443375.62	32°13'2.0342"N	103°40'50.6586"W	0.19	-0.03	0.19	
12604.00	89.800	359.670	9777.87	2104.42	2002.14	1081.96	743157.38	443471.62	32°13'2.9841"N	103°40'50.6544"W	0.43	-0.10	-0.42	
12698.00	89.870	359.890	9778.14	2197.86	2096.14	1081.60	743157.02	443565.61	32°13'3.9142"N	103°40'50.6520"W	0.25	0.07	0.23	
12793.00	90.110	359.830	9778.16	2292.32	2191.14	1081.36	743156.78	443660.61	32°13'4.8543"N	103°40'50.6479"W	0.26	0.25	-0.06	
12888.00	89.770	359.720	9778.26	2386.76	2286.14	1080.99	743156.41	443755.60	32°13'5.7943"N	103°40'50.6456"W	0.38	-0.36	-0.12	
12983.00	90.360	359.790	9778.15	2481.19	2381.14	1080.58	743156.00	443850.60	32°13'6.7343"N	103°40'50.6436"W	0.63	0.62	0.07	
13078.00	90.390	359.450	9777.53	2575.60	2476.13	1079.95	743155.37	443945.59	32°13'7.6744"N	103°40'50.6442"W	0.36	0.03	-0.36	
13173.00	90.510	359.340	9776.79	2669.96	2571.13	1078.95	743154.37	444040.58	32°13'8.6144"N	103°40'50.6492"W	0.17	0.13	-0.12	
13268.00	90.300	359.390	9776.11	2764.32	2666.12	1077.90	743153.32	444135.56	32°13'9.5544"N	103°40'50.6547"W	0.23	-0.22	0.05	
13363.00	90.200	359.300	9775.70	2858.68	2761.11	1076.81	743152.23	444230.55	32°13'10.4944"N	103°40'50.6606"W	0.14	-0.11	-0.09	
13458.00	90.450	359.250	9775.16	2953.02	2856.10	1075.61	743151.03	444325.54	32°13'11.4344"N	103°40'50.6679"W	0.27	0.26	-0.05	
13554.00	89.900	359.360	9774.87	3048.36	2952.09	1074.45	743149.87	444421.52	32°13'12.3843"N	103°40'50.6747"W	0.58	-0.57	0.11	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
13648.00	90.200	359.390	9774.79	3141.73	3046.09	1073.42	743148.84	444515.51	32°13'13.3144"N	103°40'50.6800"W	0.32	0.32	0.03	
13743.00	89.710	359.200	9774.86	3236.08	3141.08	1072.25	743147.67	444610.50	32°13'14.2544"N	103°40'50.6869"W	0.55	-0.52	-0.20	
13838.00	91.190	359.240	9774.11	3330.41	3236.07	1070.96	743146.38	444705.48	32°13'15.1944"N	103°40'50.6952"W	1.56	1.56	0.04	
13933.00	90.480	359.290	9772.73	3424.74	3331.05	1069.74	743145.16	444800.46	32°13'16.1343"N	103°40'50.7027"W	0.75	-0.75	0.05	
14028.00	91.470	359.320	9771.11	3519.08	3426.02	1068.59	743144.01	444895.43	32°13'17.0742"N	103°40'50.7094"W	1.04	1.04	0.03	
14218.00	90.360	359.310	9768.08	3707.75	3615.98	1066.32	743141.74	445085.38	32°13'18.9539"N	103°40'50.7224"W	0.58	-0.58	-0.01	
14313.00	90.050	359.100	9767.74	3802.08	3710.97	1065.00	743140.42	445180.37	32°13'19.8940"N	103°40'50.7310"W	0.39	-0.33	-0.22	
14408.00	90.110	359.830	9767.61	3896.46	3805.97	1064.11	743139.53	445275.36	32°13'20.8340"N	103°40'50.7346"W	0.77	0.06	0.77	
14503.00	90.240	359.890	9767.32	3990.92	3900.97	1063.88	743139.30	445370.36	32°13'21.7740"N	103°40'50.7306"W	0.15	0.14	0.06	
14598.00	90.420	359.810	9766.77	4085.37	3995.97	1063.63	743139.05	445465.35	32°13'22.7140"N	103°40'50.7268"W	0.21	0.19	-0.08	
14693.00	90.200	359.840	9766.25	4179.81	4090.96	1063.34	743138.76	445560.34	32°13'23.6540"N	103°40'50.7234"W	0.23	-0.23	0.03	
14788.00	90.300	359.890	9765.84	4274.27	4185.96	1063.12	743138.54	445655.34	32°13'24.5941"N	103°40'50.7193"W	0.12	0.11	0.05	
14883.00	90.110	359.960	9765.50	4368.73	4280.96	1062.99	743138.41	445750.33	32°13'25.5341"N	103°40'50.7141"W	0.21	-0.20	0.07	
14978.00	90.170	359.840	9765.27	4463.19	4375.96	1062.83	743138.25	445845.33	32°13'26.4741"N	103°40'50.7093"W	0.14	0.06	-0.13	
15073.00	90.110	359.760	9765.04	4557.63	4470.96	1062.50	743137.92	445940.32	32°13'27.4141"N	103°40'50.7064"W	0.11	-0.06	-0.08	
15168.00	90.240	359.840	9764.75	4652.07	4565.96	1062.16	743137.58	446035.32	32°13'28.3542"N	103°40'50.7036"W	0.16	0.14	0.08	
15263.00	90.080	359.810	9764.48	4746.52	4660.96	1061.87	743137.29	446130.31	32°13'29.2942"N	103°40'50.7002"W	0.17	-0.17	-0.03	
15357.00	90.110	359.650	9764.32	4839.96	4754.96	1061.43	743136.85	446224.31	32°13'30.2243"N	103°40'50.6987"W	0.17	0.03	-0.17	
15453.00	90.110	359.860	9764.14	4935.39	4850.96	1061.02	743136.44	446320.30	32°13'31.1743"N	103°40'50.6967"W	0.22	0.00	0.22	
15547.00	90.140	359.960	9763.94	5028.85	4944.96	1060.87	743136.29	446414.30	32°13'32.1044"N	103°40'50.6918"W	0.11	0.03	0.11	
15642.00	90.360	359.860	9763.52	5123.31	5039.96	1060.72	743136.14	446509.29	32°13'33.0444"N	103°40'50.6868"W	0.25	0.23	-0.11	
15737.00	90.230	359.790	9763.03	5217.76	5134.95	1060.43	743135.85	446604.28	32°13'33.9844"N	103°40'50.6835"W	0.16	-0.14	-0.07	
15832.00	90.240	359.860	9762.64	5312.21	5229.95	1060.14	743135.56	446699.28	32°13'34.9245"N	103°40'50.6801"W	0.07	0.01	0.07	
15927.00	90.200	359.860	9762.28	5406.66	5324.95	1059.91	743135.33	446794.27	32°13'35.8645"N	103°40'50.6761"W	0.04	-0.04	0.00	
16117.00	90.170	359.820	9761.66	5595.56	5514.95	1059.38	743134.80	446984.26	32°13'37.7446"N	103°40'50.6689"W	0.03	-0.02	-0.02	
16212.00	90.270	359.430	9761.30	5689.97	5609.95	1058.76	743134.18	447079.25	32°13'38.6846"N	103°40'50.6694"W	0.42	0.11	-0.41	
16402.00	90.240	359.420	9760.45	5878.71	5799.94	1056.85	743132.27	447269.23	32°13'40.5646"N	103°40'50.6781"W	0.02	-0.02	-0.01	
16497.00	90.300	359.350	9760.01	5973.08	5894.93	1055.83	743131.25	447364.22	32°13'41.5046"N	103°40'50.6833"W	0.10	0.06	-0.07	
16592.00	90.200	359.400	9759.59	6067.44	5989.92	1054.80	743130.22	447459.21	32°13'42.4447"N	103°40'50.6886"W	0.12	-0.11	0.05	
16687.00	90.360	359.400	9759.13	6161.81	6084.92	1053.80	743129.22	447554.20	32°13'43.3847"N	103°40'50.6935"W	0.17	0.17	0.00	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
16876.00	90.360	359.370	9757.94	6349.54	6273.90	1051.77	743127.19	447743.18	32°13'45.2548"N	103°40'50.7038"W	0.02	0.00	-0.02	
16971.00	90.540	359.260	9757.19	6443.89	6368.89	1050.64	743126.06	447838.16	32°13'46.1948"N	103°40'50.7103"W	0.22	0.19	-0.12	
17162.00	90.450	359.270	9755.54	6633.56	6559.87	1048.19	743123.61	448029.13	32°13'48.0846"N	103°40'50.7253"W	0.05	-0.05	0.01	
17256.00	90.570	359.360	9754.71	6726.92	6653.86	1047.06	743122.48	448123.12	32°13'49.0147"N	103°40'50.7317"W	0.16	0.13	0.10	
17351.00	90.570	359.310	9753.76	6821.27	6748.85	1045.96	743121.38	448218.10	32°13'49.9547"N	103°40'50.7378"W	0.05	0.00	-0.05	
17446.00	90.360	359.250	9752.99	6915.61	6843.84	1044.77	743120.19	448313.09	32°13'50.8947"N	103°40'50.7450"W	0.23	-0.22	-0.06	
17541.00	90.450	359.430	9752.32	7009.96	6938.83	1043.67	743119.09	448408.07	32°13'51.8347"N	103°40'50.7510"W	0.21	0.09	0.19	
17636.00	90.450	359.340	9751.57	7104.33	7033.82	1042.65	743118.07	448503.06	32°13'52.7747"N	103°40'50.7562"W	0.09	0.00	-0.09	
17731.00	90.510	359.350	9750.78	7198.68	7128.81	1041.57	743116.99	448598.05	32°13'53.7147"N	103°40'50.7621"W	0.06	0.06	0.01	
17921.00	90.480	359.290	9749.14	7387.38	7318.79	1039.31	743114.73	448788.02	32°13'55.5947"N	103°40'50.7749"W	0.04	-0.02	-0.03	
18016.00	90.480	359.300	9748.34	7481.73	7413.78	1038.14	743113.56	448883.00	32°13'56.5346"N	103°40'50.7818"W	0.01	0.00	0.01	
18206.00	90.510	359.380	9746.70	7670.43	7603.76	1035.95	743111.38	449072.97	32°13'58.4146"N	103°40'50.7938"W	0.04	0.02	0.04	
18301.00	90.570	359.360	9745.80	7764.79	7698.75	1034.91	743110.33	449167.96	32°13'59.3546"N	103°40'50.7993"W	0.07	0.06	-0.02	
18396.00	90.450	359.310	9744.96	7859.14	7793.74	1033.81	743109.23	449262.94	32°14'0.2946"N	103°40'50.8054"W	0.14	-0.13	-0.05	
18491.00	90.510	359.330	9744.16	7953.49	7888.73	1032.68	743108.10	449357.93	32°14'1.2346"N	103°40'50.8118"W	0.07	0.06	0.02	
18586.00	89.990	359.780	9743.75	8047.89	7983.72	1031.94	743107.36	449452.92	32°14'2.1746"N	103°40'50.8137"W	0.72	-0.55	0.47	
18680.00	90.140	359.790	9743.64	8141.34	8077.72	1031.59	743107.01	449546.92	32°14'3.1047"N	103°40'50.8111"W	0.16	0.16	0.01	
18775.00	90.170	359.780	9743.38	8235.77	8172.72	1031.23	743106.65	449641.91	32°14'4.0448"N	103°40'50.8086"W	0.03	0.03	-0.01	
18870.00	89.960	359.990	9743.28	8330.23	8267.72	1031.04	743106.46	449736.91	32°14'4.9848"N	103°40'50.8041"W	0.31	-0.22	0.22	
18965.00	90.200	359.880	9743.14	8424.70	8362.72	1030.93	743106.36	449831.90	32°14'5.9248"N	103°40'50.7986"W	0.28	0.25	-0.12	
19060.00	90.020	359.890	9742.96	8519.16	8457.72	1030.74	743106.17	449926.90	32°14'6.8648"N	103°40'50.7941"W	0.19	-0.19	0.01	
19155.00	90.020	0.080	9742.93	8613.63	8552.72	1030.72	743106.14	450021.89	32°14'7.8049"N	103°40'50.7877"W	0.20	0.00	0.20	
19249.00	89.990	359.770	9742.92	8707.10	8646.72	1030.60	743106.02	450115.89	32°14'8.7350"N	103°40'50.7825"W	0.33	-0.03	-0.33	
19344.00	90.140	359.910	9742.81	8801.55	8741.72	1030.33	743105.75	450210.88	32°14'9.6750"N	103°40'50.7788"W	0.22	0.16	0.15	
19439.00	90.110	359.820	9742.60	8896.01	8836.72	1030.11	743105.53	450305.88	32°14'10.6151"N	103°40'50.7747"W	0.10	-0.03	-0.09	
19629.00	90.020	359.940	9742.39	9084.92	9026.72	1029.71	743105.13	450495.87	32°14'12.4951"N	103°40'50.7659"W	0.08	-0.05	0.06	
19724.00	89.960	359.870	9742.41	9179.38	9121.72	1029.55	743104.97	450590.86	32°14'13.4351"N	103°40'50.7610"W	0.10	-0.06	-0.07	
19914.00	89.800	359.660	9742.80	9368.25	9311.72	1028.77	743104.19	450780.85	32°14'15.3152"N	103°40'50.7567"W	0.14	-0.08	-0.11	
20009.00	90.080	359.730	9742.90	9462.68	9406.72	1028.27	743103.69	450875.85	32°14'16.2552"N	103°40'50.7558"W	0.30	0.29	0.07	
20104.00	90.050	359.930	9742.79	9557.12	9501.72	1027.98	743103.41	450970.84	32°14'17.1953"N	103°40'50.7524"W	0.21	-0.03	0.21	



Actual Wellpath Report

Mesa Verde BS Unit 46H_ awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH DATA (215 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
20294.00	90.170	359.820	9742.43	9746.03	9691.71	1027.57	743102.99	451160.83	32°14'19.0753"N	103°40'50.7438"W	0.09	0.06	-0.06	
20389.00	89.830	359.500	9742.43	9840.45	9786.71	1027.01	743102.43	451255.83	32°14'20.0154"N	103°40'50.7436"W	0.49	-0.36	-0.34	
20439.00†	90.028	359.779	9742.49	9890.14	9836.71	1026.69	743102.11	451305.82	32°14'20.5101"N	103°40'50.7437"W	0.68	0.40	0.56	LTP/100'FNL Crossing: 20439.00ft MD
20475.00	90.170	359.980	9742.43	9925.94	9872.71	1026.62	743102.04	451341.82	32°14'20.8663"N	103°40'50.7421"W	0.68	0.40	0.56	Final BKR MWD Survey: 20475.00ft MD
20496.00‡	90.170	359.980	9742.37	9946.82	9893.71	1026.61	743102.03	451362.82	32°14'21.0741"N	103°40'50.7407"W	0.00	0.00	0.00	Projection to TD: 20496.00ft MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mesa Verde BS Unit 46H - PBHL	9718.58	9917.46	1043.64	743119.06	451386.57	32°14'21.3081"N	103°40'50.5407"W	point
Mesa Verde BS Unit 46H - LTP	9719.07	9837.46	1044.16	743119.58	451306.57	32°14'20.5165"N	103°40'50.5403"W	point
Mesa Verde BS Unit 46H - FTP	9781.99	-526.00	1111.03	743186.45	440943.59	32°12'37.9664"N	103°40'50.4947"W	point
Mesa Verde BS Unit 46H - KOP	9782.29	-576.00	1111.36	743186.78	440893.60	32°12'37.4717"N	103°40'50.4944"W	point



Actual Wellpath Report

Mesa Verde BS Unit 46H_awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH COMPOSITION - Ref Wellbore: Mesa Verde BS Unit 46H AWB Ref Wellpath: Mesa Verde BS Unit 46H_awp 96.73'-20475' Proj: 20496'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.50	960.69	BH Generic gyro - northseeking (Standard)	Adjusted Gyrodata Gyro Surveys 96.73'-960.69' (Imported)	Mesa Verde BS Unit 46H AWB	10/20/2022
960.69	9260.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	SLB MWD Surveys 1029'-9260' (Imported)	Mesa Verde BS Unit 46H AWB	10/20/2022
9260.00	20496.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	BKR Lucida MWD Surveys 9326'-20475'	Mesa Verde BS Unit 46H AWB	11/11/2022



Actual Wellpath Report

Mesa Verde BS Unit 46H_awp 96.73'-20475' Proj: 20496'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA, Inc.	Well	Mesa Verde BS Unit 46H
Field	Mesa Verde; Bone Spring - Lea County, NM	API	30-025-48816-00
Facility	Mesa Verde BS Unit Pad	Wellbore	Mesa Verde BS Unit 46H AWB
Slot	Mesa Verde BS Unit 46H		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
96.73	0.790	136.450	96.73	Adjusted Gyrodata Gyro Surveys 96.73'-960.69' (Imported)
1029.00	0.620	158.310	1028.88	SLB MWD Surveys 1029'-9260' (Imported)
9326.00	13.840	139.850	9146.84	BKR Lucida MWD Surveys 9326'-20475'
9954.00	56.449	9.450	9688.47	Lease Line Crossing: 9954.00ft MD
10069.00	69.309	8.009	9740.99	FTP/100'FSL Crossing: 10069.00ft MD
20439.00	90.028	359.779	9742.49	LTP/100'FNL Crossing: 20439.00ft MD
20475.00	90.170	359.980	9742.43	Final BKR MWD Survey: 20475.00ft MD
20496.00	90.170	359.980	9742.37	Projection to TD: 20496.00ft MD

COMMENTS

Wellpath general comments

Actual Line Calls

Lease Line Crossing @ 9954.00ft MD: 2237'FWL

FTP Crossing @ 10069.00ft MD: 100'FSL & 2253'FWL

LTP Crossing @ 20439.00ft MD: 100'FNL & 2301'FWL

Final BKR MWD Survey @ 20475.00ft MD: 65'FNL & 2301'FWL

Projection to TD @ 20496.00ft MD: 44'FNL & 2301'FWL

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

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 179229

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 179229
	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.

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

CONDITIONS

Action 179229

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 179229
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 4/25/2023.	3/20/2023