

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- 11/10/2022
⁴ API Number 30-015-46323	⁵ Pool Name PURPLE SAGE WOLFCAMP *NSL-8401, NSP-2139	⁶ Pool Code 98220
⁷ Property Code: 326149	⁸ Property Name: Arkenstone 31 Federal Com	⁹ Well Number: 10H

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
A	31	23S	31E		100	NORTH	795	EAST	EDDY

¹¹ Bottom Hole Location FTP: 150' FNL 643' FEL LTP: 201' FSL 669' FEL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	24S	31E		68	SOUTH	675	EAST	EDDY
¹² Lse Code F	¹³ Producing Method Code : P	¹⁴ Gas Connection Date: 11/13/22	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 07/12/22	²² Ready Date 11/10/22	²³ TD 27351'M 11467'V	²⁴ PBDT 27309'M 11467'V	²⁵ Perforations 16845-27218'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	427'	545		
12-1/4"	9-5/8"	4157'	1098		
8-3/4"	7-5/8"	10720'	773		
6-3/4"	5-1/2"	27331'	1285		

V. Well Test Data 2-3/8" TBG 11366'

³¹ Date New Oil 11/13/22	³² Gas Delivery Date 11/13/22	³³ Test Date 11/23/22	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1670
³⁷ Choke Size 61/128	³⁸ Oil 1798	³⁹ Water 4081	⁴⁰ Gas 4591		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: 03/21/2023 Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:
PATRICIA MARTINEZ

Title: *PETROLEUM SPECIALIST*

Approval Date: *5/31/2023*

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⁴ API Number 30-015-46323	⁵ Pool Name WC-015 G-08 S233135D; WOLFCAMP <i>*NSL-8401, NSP-2139</i>	⁶ Pool Code 98236
⁷ Property Code: 326149	⁸ Property Name: Arkenstone 31 Federal Com	⁹ Well Number: 10H

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²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
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Printed name:
JANA MENDIOLA

Title:
SR. REGULATORY ANALYST

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OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title: *PETROLEUM SPECIALIST*

Approval Date: *5/31/2023*

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Phone: (575) 393-6161 Fax: (575) 393-0720
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OIL CONSERVATION DIVISION
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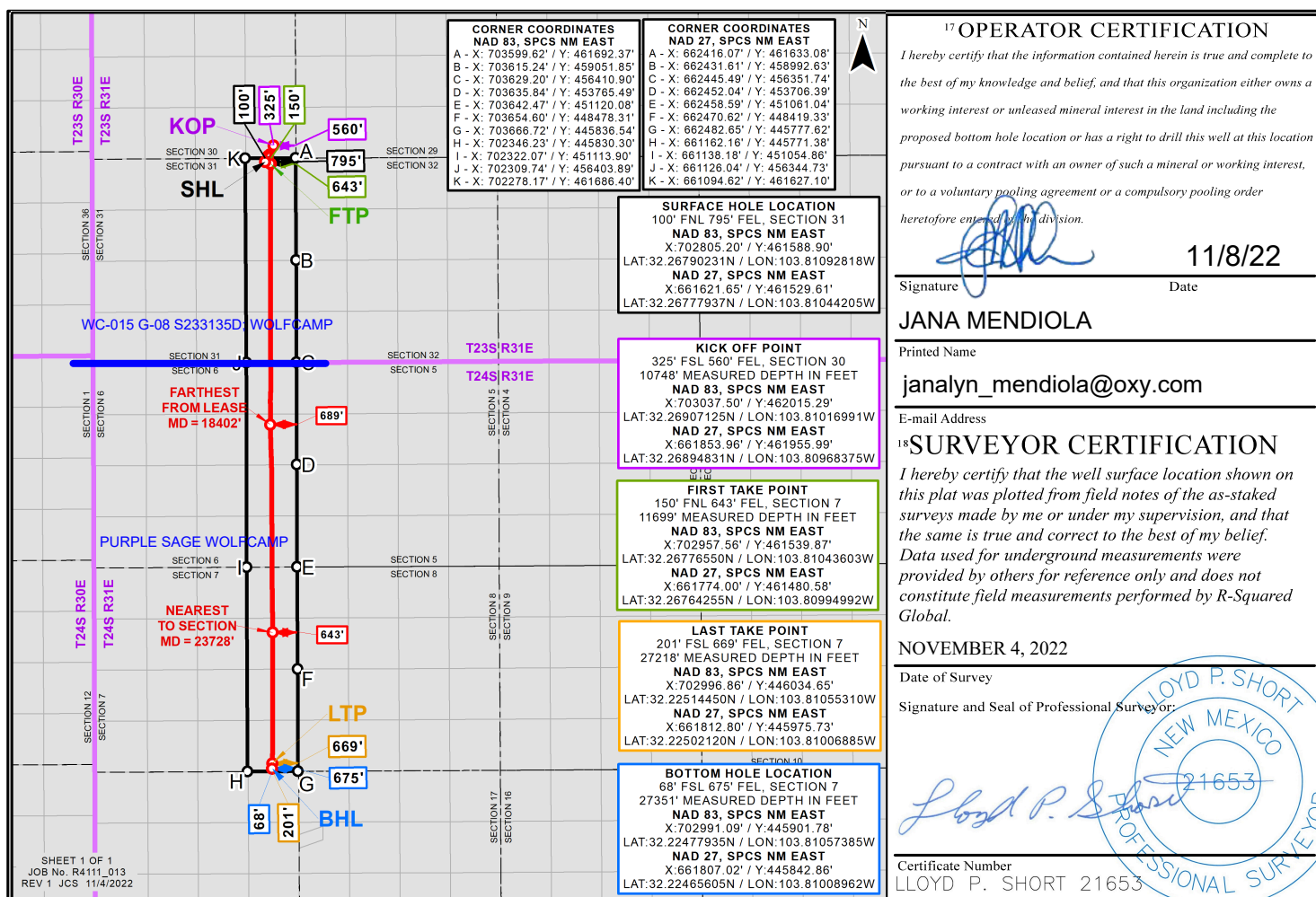
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46323	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 326149	Property Name ARKENSTONE 31 FEDERAL COM	⁶ Well Number 10H
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3344'

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
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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
P	7	24S	31E		68	SOUTH	675	EAST	EDDY
¹² Dedicated Acres 320.22	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8401, NSP-2139						

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: 0.99977803 Convergence Angle: 00°16'32.4192950"

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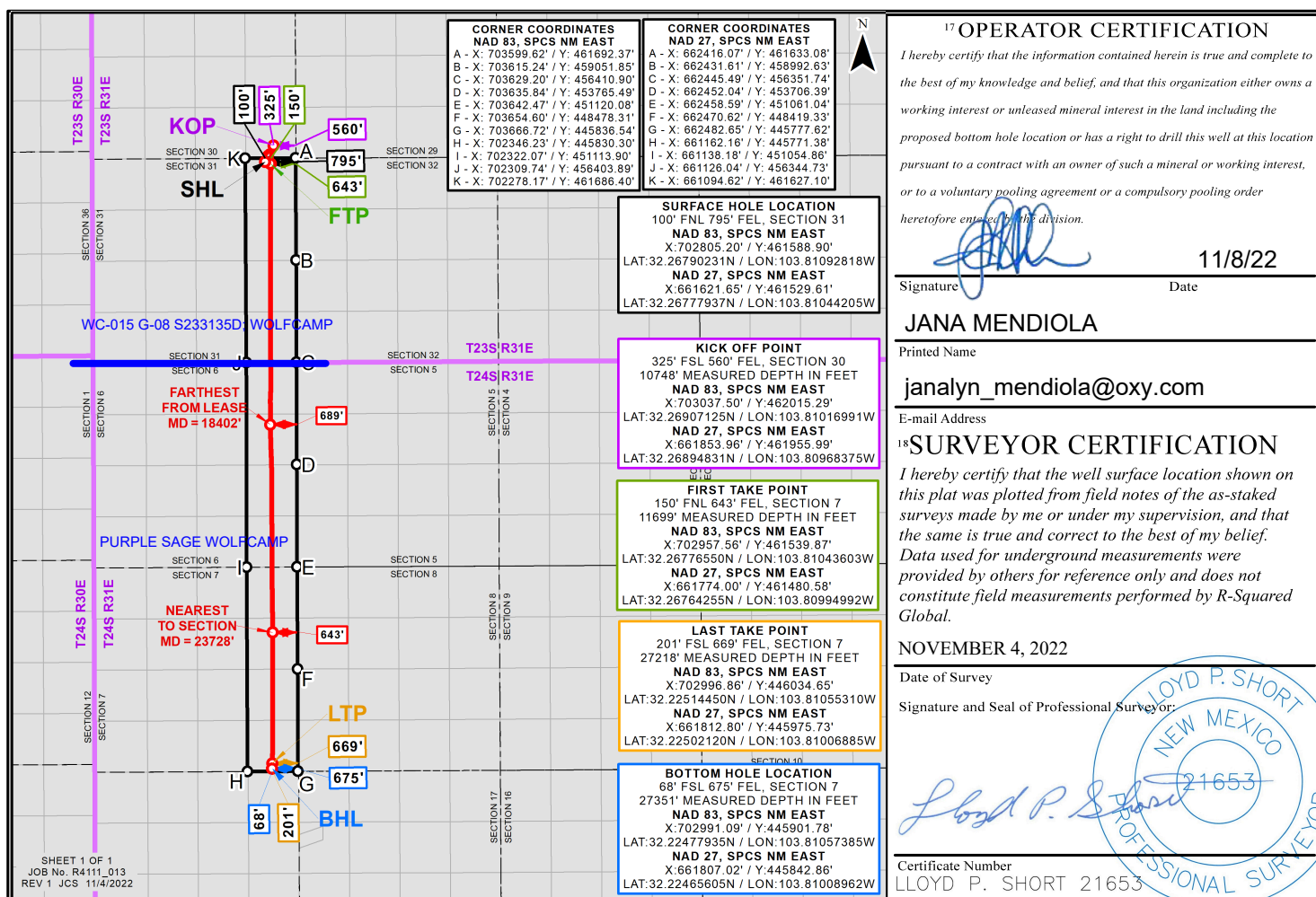
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⁴ Property Code 326149	Property Name ARKENSTONE 31 FEDERAL COM	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	
	⁶ Well Number 10H	⁹ Elevation 3344'

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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	24S	31E		68	SOUTH	675	EAST	EDDY
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No. NSL-8401, NSP-2139					

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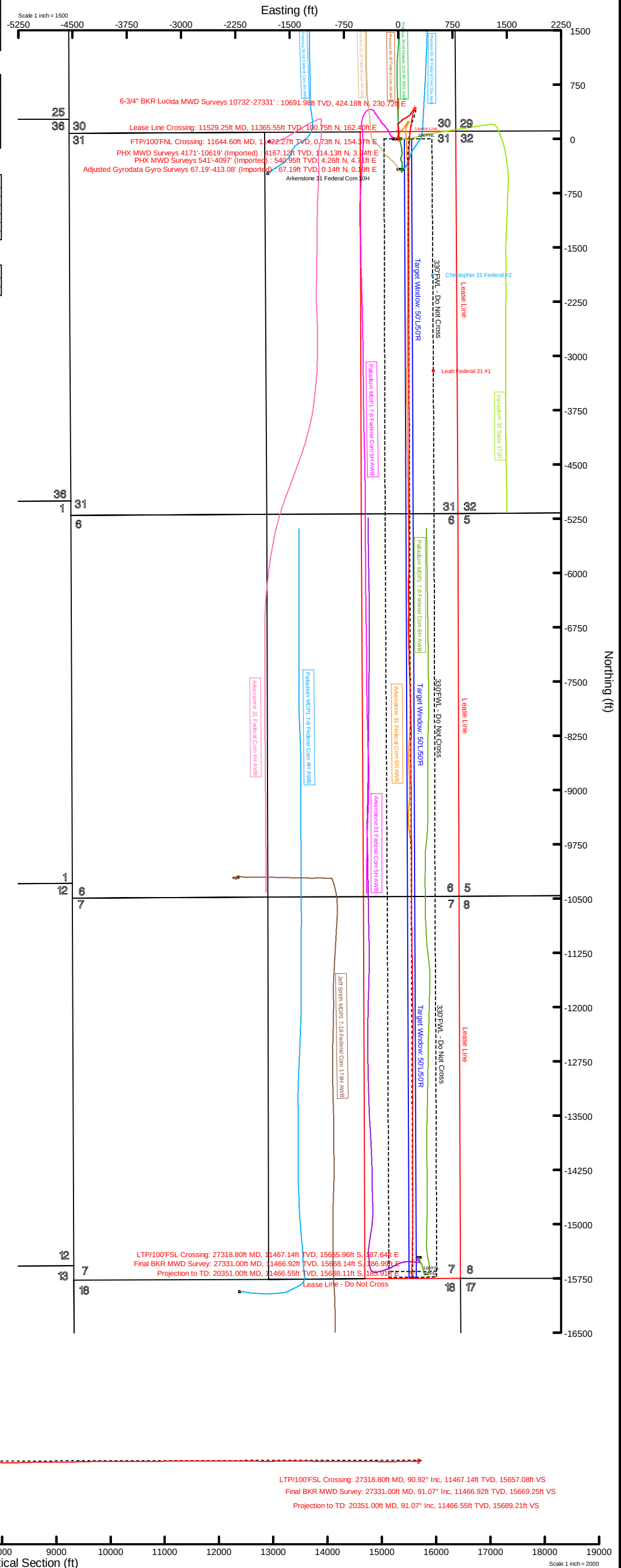
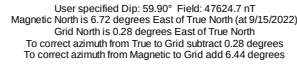
Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977803 Convergence Angle: 00°16'32.4192950"



Slot: Arkenstone 31 Federal Com 10H
Well: Arkenstone 31 Federal Com 10H
Wellbore: Arkenstone 31 Federal Com 10H AWB



Bottom Hole Location									
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
27351.00	91.070	183.110	11466.55	-15688.11	185.91	702991.09	445901.78	32°13'29.2056"N	103°48'38.0658"W





Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

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	0.999939	Report Generated	10/3/2022 at 1:35:34 PM
Convergence at slot	0.28° 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	0.00	0.00	702805.20	461588.90	32°16'4.4483"N	103°48'39.3414"W
Facility Reference Pt			702805.20	461588.90	32°16'4.4483"N	103°48'39.3414"W
Field Reference Pt			533303.25	1273342.63	34°30'0.0000"N	104°21'36.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Citadel 3 (RT) to Facility Vertical Datum	3368.10ft
Horizontal Reference Pt	Slot	Citadel 3 (RT) to Mean Sea Level	3368.10ft
Vertical Reference Pt	Citadel 3 (RT)	Citadel 3 (RT) to Ground Level at Slot (Arkenstone 31 Federal Com 10H)	24.00ft
MD Reference Pt	Citadel 3 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.27°



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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	54.020	0.00	0.00	0.00	0.00	702805.20	461588.90	32°16'4.4483"N	103°48'39.3414"W	0.00	0.00	0.00	
24.00	0.000	54.020	24.00	0.00	0.00	0.00	702805.20	461588.90	32°16'4.4483"N	103°48'39.3414"W	0.00	0.00	0.00	
67.19	0.620	54.020	67.19	-0.13	0.14	0.19	702805.39	461589.04	32°16'4.4497"N	103°48'39.3392"W	1.44	1.44	0.00	Adjusted Gyrodata Gyro Surveys 67.19'-413.08' (Imp
153.08	0.930	48.880	153.07	-0.85	0.87	1.09	702806.29	461589.77	32°16'4.4569"N	103°48'39.3287"W	0.37	0.36	-5.98	
237.77	0.860	53.540	237.75	-1.67	1.70	2.12	702807.32	461590.60	32°16'4.4650"N	103°48'39.3167"W	0.12	-0.08	5.50	
332.10	0.570	67.030	332.07	-2.26	2.30	3.12	702808.32	461591.20	32°16'4.4710"N	103°48'39.3050"W	0.35	-0.31	14.30	
413.08	0.410	51.950	413.05	-2.59	2.64	3.72	702808.92	461591.54	32°16'4.4743"N	103°48'39.2980"W	0.25	-0.20	-18.62	
541.00	1.330	25.150	540.95	-4.20	4.26	4.71	702809.91	461593.16	32°16'4.4903"N	103°48'39.2863"W	0.77	0.72	-20.95	PHX MWD Surveys 541'-4097' (Imported)
635.00	1.440	27.770	634.93	-6.22	6.30	5.72	702810.92	461595.20	32°16'4.5104"N	103°48'39.2744"W	0.13	0.12	2.79	
729.00	1.470	8.920	728.90	-8.45	8.53	6.46	702811.66	461597.43	32°16'4.5324"N	103°48'39.2657"W	0.51	0.03	-20.05	
823.00	1.560	356.680	822.86	-10.92	11.00	6.57	702811.77	461599.90	32°16'4.5569"N	103°48'39.2642"W	0.36	0.10	-13.02	
918.00	1.640	351.820	917.83	-13.56	13.64	6.31	702811.51	461602.54	32°16'4.5830"N	103°48'39.2672"W	0.17	0.08	-5.12	
976.00	1.560	359.320	975.81	-15.17	15.25	6.18	702811.38	461604.15	32°16'4.5989"N	103°48'39.2686"W	0.39	-0.14	12.93	
1070.00	0.640	316.100	1069.79	-16.83	16.91	5.80	702811.00	461605.81	32°16'4.6153"N	103°48'39.2729"W	1.25	-0.98	-45.98	
1163.00	0.450	272.970	1162.78	-17.23	17.30	5.08	702810.27	461606.20	32°16'4.6193"N	103°48'39.2813"W	0.47	-0.20	-46.38	
1258.00	0.440	281.160	1257.78	-17.33	17.39	4.34	702809.54	461606.29	32°16'4.6202"N	103°48'39.2898"W	0.07	-0.01	8.62	
1352.00	0.320	278.580	1351.78	-17.45	17.50	3.73	702808.93	461606.40	32°16'4.6213"N	103°48'39.2970"W	0.13	-0.13	-2.74	
1445.00	0.280	265.160	1444.78	-17.48	17.52	3.25	702808.45	461606.42	32°16'4.6215"N	103°48'39.3026"W	0.09	-0.04	-14.43	
1538.00	0.160	263.050	1537.78	-17.45	17.48	2.89	702808.09	461606.38	32°16'4.6212"N	103°48'39.3068"W	0.13	-0.13	-2.27	
1633.00	0.170	242.180	1632.78	-17.37	17.40	2.64	702807.84	461606.30	32°16'4.6204"N	103°48'39.3097"W	0.06	0.01	-21.97	
1728.00	0.110	199.990	1727.78	-17.22	17.25	2.48	702807.68	461606.15	32°16'4.6189"N	103°48'39.3116"W	0.12	-0.06	-44.41	
1822.00	0.060	189.450	1821.78	-17.08	17.12	2.44	702807.64	461606.02	32°16'4.6176"N	103°48'39.3120"W	0.06	-0.05	-11.21	
1917.00	0.110	130.160	1916.78	-16.98	17.01	2.50	702807.70	461605.91	32°16'4.6165"N	103°48'39.3113"W	0.10	0.05	-62.41	
2012.00	0.160	105.500	2011.78	-16.88	16.91	2.70	702807.90	461605.81	32°16'4.6156"N	103°48'39.3090"W	0.08	0.05	-25.96	
2106.00	0.340	102.850	2105.78	-16.78	16.82	3.10	702808.30	461605.72	32°16'4.6146"N	103°48'39.3044"W	0.19	0.19	-2.82	
2201.00	0.280	86.180	2200.77	-16.72	16.77	3.61	702808.81	461605.67	32°16'4.6141"N	103°48'39.2985"W	0.11	-0.06	-17.55	
2296.00	0.350	83.210	2295.77	-16.77	16.82	4.12	702809.32	461605.72	32°16'4.6146"N	103°48'39.2924"W	0.08	0.07	-3.13	
2390.00	0.580	75.620	2389.77	-16.91	16.97	4.87	702810.07	461605.87	32°16'4.6160"N	103°48'39.2837"W	0.25	0.24	-8.07	
2485.00	0.560	78.220	2484.76	-17.11	17.19	5.79	702810.99	461606.09	32°16'4.6181"N	103°48'39.2730"W	0.03	-0.02	2.74	
2580.00	0.880	355.710	2579.76	-17.93	18.01	6.19	702811.39	461606.91	32°16'4.6262"N	103°48'39.2683"W	1.03	0.34	-86.85	



Actual Wellpath Report

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Slot	Arkenstone 31 Federal Com 10H		

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2675.00	1.510	341.360	2674.74	-19.85	19.92	5.74	702810.94	461608.82	32°16'4.6452"N	103°48'39.2735"W	0.73	0.66	-15.11	
2770.00	1.330	330.530	2769.71	-22.01	22.07	4.79	702809.99	461610.97	32°16'4.6665"N	103°48'39.2844"W	0.34	-0.19	-11.40	
2864.00	1.190	323.230	2863.69	-23.75	23.80	3.67	702808.87	461612.70	32°16'4.6836"N	103°48'39.2973"W	0.23	-0.15	-7.77	
2959.00	1.880	327.190	2958.65	-25.87	25.90	2.24	702807.44	461614.80	32°16'4.7045"N	103°48'39.3139"W	0.73	0.73	4.17	
3054.00	3.170	331.490	3053.56	-29.51	29.52	0.14	702805.34	461618.42	32°16'4.7404"N	103°48'39.3381"W	1.37	1.36	4.53	
3149.00	4.970	338.380	3148.31	-35.68	35.65	-2.63	702802.57	461624.55	32°16'4.8012"N	103°48'39.3700"W	1.96	1.89	7.25	
3244.00	5.310	1.750	3242.94	-43.92	43.87	-4.01	702801.19	461632.77	32°16'4.8826"N	103°48'39.3857"W	2.22	0.36	24.60	
3339.00	5.180	13.690	3337.55	-52.47	52.43	-2.86	702802.34	461641.33	32°16'4.9673"N	103°48'39.3718"W	1.15	-0.14	12.57	
3433.00	4.490	15.210	3431.21	-60.11	60.11	-0.89	702804.31	461649.00	32°16'5.0431"N	103°48'39.3484"W	0.75	-0.73	1.62	
3528.00	3.880	15.280	3525.96	-66.78	66.80	0.93	702806.13	461655.69	32°16'5.1092"N	103°48'39.3268"W	0.64	-0.64	0.07	
3623.00	3.260	20.420	3620.77	-72.39	72.43	2.72	702807.92	461661.32	32°16'5.1649"N	103°48'39.3057"W	0.73	-0.65	5.41	
3718.00	3.840	8.800	3715.59	-78.04	78.10	4.15	702809.35	461667.00	32°16'5.2210"N	103°48'39.2887"W	0.97	0.61	-12.23	
3813.00	4.240	4.080	3810.36	-84.68	84.75	4.88	702810.08	461673.64	32°16'5.2867"N	103°48'39.2797"W	0.55	0.42	-4.97	
3907.00	3.850	4.740	3904.12	-91.28	91.36	5.39	702810.59	461680.25	32°16'5.3521"N	103°48'39.2735"W	0.42	-0.41	0.70	
4002.00	4.740	356.760	3998.86	-98.38	98.46	5.43	702810.63	461687.35	32°16'5.4223"N	103°48'39.2726"W	1.13	0.94	-8.40	
4097.00	5.530	353.730	4093.47	-106.86	106.93	4.71	702809.91	461695.82	32°16'5.5061"N	103°48'39.2805"W	0.88	0.83	-3.19	
4171.00	5.710	354.070	4167.12	-114.07	114.13	3.94	702809.14	461703.03	32°16'5.5775"N	103°48'39.2890"W	0.25	0.24	0.46	PHX MWD Surveys 4171'-10619' (Imported)
4266.00	6.040	354.180	4261.62	-123.76	123.81	2.95	702808.15	461712.70	32°16'5.6732"N	103°48'39.3001"W	0.35	0.35	0.12	
4361.00	6.260	353.950	4356.07	-133.89	133.93	1.89	702807.09	461722.82	32°16'5.7735"N	103°48'39.3118"W	0.23	0.23	-0.24	
4456.00	6.130	354.520	4450.52	-144.11	144.13	0.86	702806.06	461733.02	32°16'5.8744"N	103°48'39.3232"W	0.15	-0.14	0.60	
4550.00	6.090	352.360	4543.98	-154.06	154.07	-0.28	702804.92	461742.96	32°16'5.9728"N	103°48'39.3359"W	0.25	-0.04	-2.30	
4645.00	6.100	352.120	4638.45	-164.07	164.06	-1.64	702803.56	461752.95	32°16'6.0718"N	103°48'39.3512"W	0.03	0.01	-0.25	
4740.00	6.150	354.090	4732.90	-174.14	174.12	-2.86	702802.34	461763.01	32°16'6.1714"N	103°48'39.3648"W	0.23	0.05	2.07	
4834.00	6.050	352.340	4826.37	-184.08	184.04	-4.03	702801.17	461772.93	32°16'6.2696"N	103°48'39.3780"W	0.22	-0.11	-1.86	
4929.00	5.870	351.160	4920.86	-193.86	193.80	-5.45	702799.75	461782.69	32°16'6.3663"N	103°48'39.3939"W	0.23	-0.19	-1.24	
5024.00	1.010	318.280	5015.66	-199.30	199.23	-6.75	702798.45	461788.12	32°16'6.4200"N	103°48'39.4088"W	5.32	-5.12	-34.61	
5118.00	0.040	11.050	5109.66	-199.96	199.88	-7.30	702797.90	461788.77	32°16'6.4265"N	103°48'39.4151"W	1.05	-1.03	56.14	
5213.00	0.040	142.960	5204.66	-199.96	199.89	-7.27	702797.93	461788.77	32°16'6.4266"N	103°48'39.4148"W	0.08	0.00	138.85	
5307.00	0.030	287.320	5298.66	-199.95	199.87	-7.28	702797.93	461788.76	32°16'6.4264"N	103°48'39.4148"W	0.07	-0.01	153.57	
5402.00	0.040	357.550	5393.66	-199.99	199.91	-7.30	702797.90	461788.80	32°16'6.4268"N	103°48'39.4151"W	0.04	0.01	73.93	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
5497.00	0.060	347.930	5488.66	-200.07	199.99	-7.31	702797.89	461788.88	32°16'6.4276"N	103°48'39.4153"W	0.02	0.02	-10.13	
5592.00	0.050	277.650	5583.66	-200.12	200.05	-7.36	702797.84	461788.93	32°16'6.4281"N	103°48'39.4159"W	0.07	-0.01	-73.98	
5686.00	0.020	113.920	5677.66	-200.12	200.04	-7.39	702797.81	461788.93	32°16'6.4281"N	103°48'39.4162"W	0.07	-0.03	-174.18	
5781.00	0.060	8.590	5772.66	-200.16	200.09	-7.37	702797.83	461788.97	32°16'6.4285"N	103°48'39.4159"W	0.07	0.04	-110.87	
5876.00	0.020	191.590	5867.66	-200.20	200.12	-7.36	702797.84	461789.01	32°16'6.4289"N	103°48'39.4158"W	0.08	-0.04	-186.32	
5970.00	0.030	107.600	5961.66	-200.17	200.10	-7.34	702797.86	461788.98	32°16'6.4286"N	103°48'39.4156"W	0.04	0.01	-89.35	
6065.00	0.010	219.890	6056.66	-200.16	200.08	-7.32	702797.88	461788.97	32°16'6.4285"N	103°48'39.4154"W	0.04	-0.02	118.20	
6160.00	0.070	26.980	6151.66	-200.20	200.13	-7.30	702797.90	461789.01	32°16'6.4289"N	103°48'39.4151"W	0.08	0.06	175.88	
6255.00	0.030	263.530	6246.66	-200.25	200.18	-7.30	702797.90	461789.06	32°16'6.4294"N	103°48'39.4151"W	0.09	-0.04	-129.95	
6350.00	0.050	151.930	6341.66	-200.21	200.14	-7.31	702797.89	461789.02	32°16'6.4290"N	103°48'39.4152"W	0.07	0.02	-117.47	
6445.00	0.050	158.560	6436.66	-200.14	200.06	-7.27	702797.93	461788.95	32°16'6.4283"N	103°48'39.4148"W	0.01	0.00	6.98	
6540.00	0.060	347.670	6531.66	-200.15	200.07	-7.27	702797.93	461788.96	32°16'6.4284"N	103°48'39.4147"W	0.12	0.01	-179.88	
6634.00	0.060	75.370	6625.66	-200.21	200.13	-7.23	702797.97	461789.02	32°16'6.4290"N	103°48'39.4143"W	0.09	0.00	93.30	
6729.00	0.050	84.020	6720.66	-200.22	200.15	-7.14	702798.06	461789.04	32°16'6.4291"N	103°48'39.4133"W	0.01	-0.01	9.11	
6823.00	0.040	138.010	6814.66	-200.20	200.13	-7.08	702798.12	461789.02	32°16'6.4289"N	103°48'39.4125"W	0.04	-0.01	57.44	
6918.00	0.060	116.200	6909.66	-200.16	200.08	-7.01	702798.19	461788.97	32°16'6.4285"N	103°48'39.4117"W	0.03	0.02	-22.96	
7013.00	0.030	250.270	7004.66	-200.12	200.05	-6.99	702798.21	461788.94	32°16'6.4282"N	103°48'39.4115"W	0.09	-0.03	141.13	
7108.00	0.030	38.140	7099.66	-200.14	200.06	-7.00	702798.20	461788.95	32°16'6.4283"N	103°48'39.4116"W	0.06	0.00	155.65	
7202.00	0.060	96.370	7193.66	-200.15	200.08	-6.93	702798.27	461788.96	32°16'6.4284"N	103°48'39.4108"W	0.05	0.03	61.95	
7297.00	0.040	39.300	7288.66	-200.17	200.10	-6.86	702798.34	461788.98	32°16'6.4286"N	103°48'39.4100"W	0.05	-0.02	-60.07	
7392.00	0.020	303.340	7383.66	-200.20	200.13	-6.86	702798.34	461789.02	32°16'6.4290"N	103°48'39.4099"W	0.05	-0.02	-101.01	
7487.00	0.030	40.850	7478.66	-200.23	200.16	-6.85	702798.35	461789.05	32°16'6.4292"N	103°48'39.4099"W	0.04	0.01	102.64	
7582.00	0.070	90.610	7573.66	-200.25	200.18	-6.78	702798.42	461789.07	32°16'6.4294"N	103°48'39.4090"W	0.06	0.04	52.38	
7676.00	0.050	292.070	7667.66	-200.26	200.19	-6.76	702798.44	461789.08	32°16'6.4296"N	103°48'39.4088"W	0.13	-0.02	-168.66	
7771.00	0.050	171.800	7762.66	-200.24	200.17	-6.79	702798.41	461789.05	32°16'6.4293"N	103°48'39.4092"W	0.09	0.00	-126.60	
7866.00	0.030	160.060	7857.66	-200.17	200.10	-6.78	702798.42	461788.99	32°16'6.4287"N	103°48'39.4090"W	0.02	-0.02	-12.36	
7961.00	0.080	225.740	7952.66	-200.10	200.03	-6.82	702798.38	461788.92	32°16'6.4280"N	103°48'39.4095"W	0.08	0.05	69.14	
8056.00	0.070	291.020	8047.66	-200.08	200.01	-6.92	702798.28	461788.90	32°16'6.4277"N	103°48'39.4107"W	0.09	-0.01	68.72	
8151.00	0.080	16.410	8142.66	-200.16	200.09	-6.95	702798.25	461788.98	32°16'6.4286"N	103°48'39.4111"W	0.11	0.01	89.88	
8245.00	0.020	136.280	8236.66	-200.22	200.14	-6.93	702798.28	461789.03	32°16'6.4291"N	103°48'39.4107"W	0.10	-0.06	127.52	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
8340.00	0.050	180.330	8331.66	-200.16	200.09	-6.91	702798.29	461788.98	32°16'6.4285"N	103°48'39.4106"W	0.04	0.03	46.37	
8435.00	0.100	195.770	8426.66	-200.04	199.97	-6.94	702798.26	461788.86	32°16'6.4273"N	103°48'39.4109"W	0.06	0.05	16.25	
8530.00	0.080	266.900	8521.66	-199.96	199.89	-7.03	702798.18	461788.77	32°16'6.4265"N	103°48'39.4119"W	0.11	-0.02	74.87	
8625.00	0.070	219.080	8616.66	-199.91	199.84	-7.13	702798.07	461788.72	32°16'6.4260"N	103°48'39.4131"W	0.06	-0.01	-50.34	
8720.00	0.830	265.280	8711.65	-199.82	199.74	-7.85	702797.35	461788.62	32°16'6.4251"N	103°48'39.4215"W	0.82	0.80	48.63	
8815.00	1.950	260.090	8806.63	-199.51	199.40	-10.13	702795.07	461788.29	32°16'6.4219"N	103°48'39.4481"W	1.19	1.18	-5.46	
8909.00	2.200	29.290	8900.60	-200.82	200.70	-10.82	702794.38	461789.59	32°16'6.4348"N	103°48'39.4561"W	3.99	0.27	137.45	
9004.00	6.060	44.200	8995.33	-205.95	205.89	-6.43	702798.77	461794.77	32°16'6.4859"N	103°48'39.4047"W	4.18	4.06	15.69	
9099.00	10.480	49.350	9089.32	-215.05	215.11	3.62	702808.82	461804.00	32°16'6.5767"N	103°48'39.2870"W	4.71	4.65	5.42	
9194.00	11.180	49.190	9182.63	-226.53	226.76	17.15	702822.35	461815.65	32°16'6.6913"N	103°48'39.1288"W	0.74	0.74	-0.17	
9289.00	11.120	48.010	9275.84	-238.50	238.91	30.93	702836.13	461827.79	32°16'6.8108"N	103°48'38.9677"W	0.25	-0.06	-1.24	
9383.00	10.400	45.690	9368.19	-250.32	250.90	43.74	702848.94	461839.79	32°16'6.9289"N	103°48'38.8178"W	0.89	-0.77	-2.47	
9478.00	10.760	49.150	9461.57	-261.95	262.69	56.58	702861.78	461851.57	32°16'7.0449"N	103°48'38.6676"W	0.77	0.38	3.64	
9573.00	11.250	56.890	9554.83	-272.63	273.55	71.05	702876.25	461862.44	32°16'7.1517"N	103°48'38.4984"W	1.64	0.52	8.15	
9668.00	11.350	65.470	9647.99	-281.36	282.50	87.32	702892.52	461871.38	32°16'7.2394"N	103°48'38.3084"W	1.77	0.11	9.03	
9762.00	11.140	63.000	9740.19	-289.11	290.46	103.83	702909.02	461879.34	32°16'7.3174"N	103°48'38.1158"W	0.56	-0.22	-2.63	
9857.00	11.430	57.300	9833.36	-298.16	299.71	119.93	702925.12	461888.59	32°16'7.4082"N	103°48'37.9277"W	1.21	0.31	-6.00	
9951.00	11.470	55.230	9925.49	-308.32	310.07	135.44	702940.63	461898.96	32°16'7.5100"N	103°48'37.7465"W	0.44	0.04	-2.20	
10046.00	11.320	50.310	10018.62	-319.47	321.42	150.38	702955.57	461910.30	32°16'7.6215"N	103°48'37.5719"W	1.04	-0.16	-5.18	
10141.00	11.230	40.920	10111.79	-332.25	334.36	163.61	702968.80	461923.24	32°16'7.7489"N	103°48'37.4170"W	1.93	-0.09	-9.88	
10235.00	11.350	30.320	10203.98	-347.02	349.26	174.28	702979.47	461938.14	32°16'7.8959"N	103°48'37.2920"W	2.21	0.13	-11.28	
10330.00	10.880	29.220	10297.20	-362.79	365.16	183.37	702988.56	461954.04	32°16'8.0527"N	103°48'37.1851"W	0.54	-0.49	-1.16	
10424.00	10.710	39.140	10389.54	-377.18	379.68	193.22	702998.41	461968.55	32°16'8.1959"N	103°48'37.0696"W	1.98	-0.18	10.55	
10519.00	11.120	43.700	10482.83	-390.50	393.15	205.12	703010.31	461982.02	32°16'8.3286"N	103°48'36.9303"W	1.01	0.43	4.80	
10614.00	10.910	40.270	10576.08	-403.83	406.63	217.26	703022.45	461995.50	32°16'8.4614"N	103°48'36.7881"W	0.72	-0.22	-3.61	
10619.00	10.910	39.690	10580.99	-404.55	407.35	217.87	703023.05	461996.23	32°16'8.4686"N	103°48'36.7810"W	2.20	0.00	-11.60	
10732.00	10.710	35.010	10691.98	-421.21	424.18	230.72	703035.91	462013.06	32°16'8.6345"N	103°48'36.6303"W	0.80	-0.18	-4.14	6-3/4" BKR Lucida MWD Surveys 10732'-273
10827.00	1.200	82.400	10786.38	-428.51	431.56	236.79	703041.97	462020.44	32°16'8.7072"N	103°48'36.5593"W	10.46	-10.01	49.88	
10922.00	8.630	209.250	10881.05	-422.44	425.46	234.28	703039.47	462014.34	32°16'8.6470"N	103°48'36.5888"W	9.89	7.82	133.53	
11017.00	17.960	207.010	10973.40	-403.26	406.15	224.13	703029.31	461995.03	32°16'8.4564"N	103°48'36.7082"W	9.83	9.82	-2.36	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
11111.00	25.350	199.370	11060.72	-371.49	374.21	210.85	703016.04	461963.08	32°16'8.1409"N	103°48'36.8646"W	8.40	7.86	-8.13	
11206.00	33.880	191.660	11143.26	-326.43	328.99	198.73	703003.92	461917.87	32°16'7.6941"N	103°48'37.0084"W	9.82	8.98	-8.12	
11301.00	40.660	189.460	11218.82	-270.04	272.46	188.28	702993.46	461861.34	32°16'7.1352"N	103°48'37.1333"W	7.27	7.14	-2.32	
11396.00	48.510	189.080	11286.43	-204.41	206.69	177.56	702982.75	461795.58	32°16'6.4850"N	103°48'37.2618"W	8.27	8.26	-0.40	
11490.00	55.880	188.020	11344.01	-131.16	133.29	166.56	702971.75	461722.19	32°16'5.7592"N	103°48'37.3941"W	7.89	7.84	-1.13	
11529.25†	57.550	186.549	11365.55	-98.67	100.75	162.40	702967.59	461689.64	32°16'5.4374"N	103°48'37.4444"W	5.28	4.25	-3.75	Lease Line Crossing: 11529.25ft MD
11585.00	59.950	184.550	11394.47	-51.30	53.32	157.80	702962.99	461642.22	32°16'4.9683"N	103°48'37.5006"W	5.28	4.30	-3.58	
11644.60†	64.443	182.952	11422.27	1.24	0.73	154.37	702959.56	461589.63	32°16'4.4481"N	103°48'37.5436"W	7.90	7.54	-2.68	FTP/100'FNL Crossing: 11644.60ft MD
11680.00	67.120	182.060	11436.79	33.47	-31.52	152.96	702958.15	461557.38	32°16'4.1290"N	103°48'37.5618"W	7.90	7.56	-2.52	
11775.00	67.880	181.250	11473.14	121.16	-119.25	150.43	702955.62	461469.65	32°16'3.2611"N	103°48'37.5963"W	1.12	0.80	-0.85	
11870.00	82.330	181.830	11497.50	212.65	-210.78	147.95	702953.14	461378.13	32°16'2.3555"N	103°48'37.6303"W	15.22	15.21	0.61	
11965.00	90.110	182.020	11503.76	307.27	-305.45	144.77	702949.96	461283.47	32°16'1.4189"N	103°48'37.6728"W	8.19	8.19	0.20	
12060.00	89.580	179.900	11504.01	402.22	-400.43	143.18	702948.37	461188.49	32°16'0.4792"N	103°48'37.6967"W	2.30	-0.56	-2.23	
12155.00	89.860	180.210	11504.48	497.21	-495.43	143.09	702948.28	461093.50	32°15'59.5392"N	103°48'37.7031"W	0.44	0.29	0.33	
12249.00	89.770	179.990	11504.78	591.20	-589.43	142.92	702948.11	460999.51	32°15'58.6091"N	103°48'37.7104"W	0.25	-0.10	-0.23	
12344.00	90.110	180.030	11504.88	686.20	-684.43	142.91	702948.10	460904.51	32°15'57.6690"N	103°48'37.7160"W	0.36	0.36	0.04	
12439.00	89.650	179.750	11505.08	781.19	-779.43	143.09	702948.28	460809.52	32°15'56.7290"N	103°48'37.7192"W	0.57	-0.48	-0.29	
12534.00	89.740	180.130	11505.59	876.18	-874.43	143.19	702948.38	460714.53	32°15'55.7890"N	103°48'37.7235"W	0.41	0.09	0.40	
12629.00	89.830	180.000	11505.94	971.17	-969.43	143.08	702948.27	460619.53	32°15'54.8490"N	103°48'37.7301"W	0.17	0.09	-0.14	
12723.00	89.800	179.990	11506.25	1065.16	-1063.43	143.09	702948.28	460525.54	32°15'53.9189"N	103°48'37.7353"W	0.03	-0.03	-0.01	
12818.00	89.860	179.990	11506.53	1160.16	-1158.43	143.11	702948.30	460430.55	32°15'52.9789"N	103°48'37.7405"W	0.06	0.06	0.00	
12913.00	89.520	179.820	11507.04	1255.15	-1253.42	143.26	702948.45	460335.55	32°15'52.0388"N	103°48'37.7441"W	0.40	-0.36	-0.18	
13008.00	89.680	179.940	11507.71	1350.14	-1348.42	143.46	702948.65	460240.56	32°15'51.0988"N	103°48'37.7472"W	0.21	0.17	0.13	
13103.00	90.050	180.170	11507.93	1445.13	-1443.42	143.37	702948.56	460145.57	32°15'50.1588"N	103°48'37.7536"W	0.46	0.39	0.24	
13198.00	90.320	179.740	11507.62	1540.12	-1538.42	143.45	702948.64	460050.58	32°15'49.2188"N	103°48'37.7581"W	0.53	0.28	-0.45	
13292.00	90.660	180.000	11506.82	1634.11	-1632.42	143.66	702948.85	459956.59	32°15'48.2887"N	103°48'37.7610"W	0.46	0.36	0.28	
13387.00	90.600	179.880	11505.77	1729.10	-1727.41	143.76	702948.95	459861.60	32°15'47.3487"N	103°48'37.7652"W	0.14	-0.06	-0.13	
13482.00	90.510	180.020	11504.85	1824.09	-1822.41	143.84	702949.03	459766.61	32°15'46.4088"N	103°48'37.7696"W	0.18	-0.09	0.15	
13672.00	90.720	180.040	11502.81	2014.06	-2012.39	143.74	702948.93	459576.63	32°15'44.5288"N	103°48'37.7816"W	0.11	0.11	0.01	
13766.00	90.570	180.020	11501.76	2108.05	-2106.39	143.69	702948.88	459482.64	32°15'43.5988"N	103°48'37.7875"W	0.16	-0.16	-0.02	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
13861.00	90.230	179.750	11501.09	2203.04	-2201.39	143.88	702949.07	459387.65	32°15'42.6588"N	103°48'37.7906"W	0.46	-0.36	-0.28	
13956.00	89.240	179.080	11501.53	2298.04	-2296.38	144.85	702950.04	459292.67	32°15'41.7188"N	103°48'37.7847"W	1.26	-1.04	-0.71	
14051.00	90.600	179.970	11501.67	2393.03	-2391.37	145.64	702950.83	459197.68	32°15'40.7788"N	103°48'37.7810"W	1.71	1.43	0.94	
14145.00	90.660	180.070	11500.63	2487.02	-2485.37	145.61	702950.80	459103.69	32°15'39.8487"N	103°48'37.7867"W	0.12	0.06	0.11	
14240.00	90.570	179.780	11499.61	2582.01	-2580.36	145.73	702950.92	459008.70	32°15'38.9087"N	103°48'37.7906"W	0.32	-0.09	-0.31	
14335.00	90.320	180.020	11498.87	2677.00	-2675.36	145.90	702951.09	458913.71	32°15'37.9687"N	103°48'37.7941"W	0.36	-0.26	0.25	
14430.00	90.350	179.960	11498.32	2771.99	-2770.36	145.91	702951.11	458818.72	32°15'37.0287"N	103°48'37.7993"W	0.07	0.03	-0.06	
14524.00	90.630	180.010	11497.52	2865.98	-2864.35	145.94	702951.13	458724.73	32°15'36.0986"N	103°48'37.8043"W	0.30	0.30	0.05	
14619.00	90.630	180.010	11496.47	2960.97	-2959.35	145.92	702951.11	458629.74	32°15'35.1587"N	103°48'37.8099"W	0.00	0.00	0.00	
14714.00	90.110	180.060	11495.86	3055.95	-3054.34	145.86	702951.06	458534.75	32°15'34.2187"N	103°48'37.8160"W	0.55	-0.55	0.05	
14903.00	89.890	179.910	11495.86	3244.94	-3243.34	145.91	702951.11	458345.76	32°15'32.3485"N	103°48'37.8261"W	0.14	-0.12	-0.08	
14998.00	90.080	179.920	11495.88	3339.93	-3338.34	146.06	702951.25	458250.77	32°15'31.4085"N	103°48'37.8298"W	0.20	0.20	0.01	
15093.00	90.010	180.310	11495.81	3434.92	-3433.34	145.86	702951.06	458155.77	32°15'30.4685"N	103°48'37.8375"W	0.42	-0.07	0.41	
15188.00	88.630	179.800	11496.93	3529.90	-3528.33	145.77	702950.96	458060.79	32°15'29.5286"N	103°48'37.8439"W	1.55	-1.45	-0.54	
15282.00	88.660	179.860	11499.16	3623.87	-3622.31	146.05	702951.24	457966.82	32°15'28.5987"N	103°48'37.8460"W	0.07	0.03	0.06	
15377.00	89.280	179.770	11500.87	3718.85	-3717.29	146.36	702951.55	457871.84	32°15'27.6588"N	103°48'37.8478"W	0.66	0.65	-0.09	
15472.00	90.510	179.960	11501.04	3813.85	-3812.29	146.58	702951.77	457776.85	32°15'26.7188"N	103°48'37.8506"W	1.31	1.29	0.20	
15566.00	89.980	180.030	11500.64	3907.84	-3906.29	146.59	702951.78	457682.86	32°15'25.7887"N	103°48'37.8558"W	0.57	-0.56	0.07	
15661.00	90.010	179.970	11500.65	4002.83	-4001.29	146.59	702951.78	457587.86	32°15'24.8487"N	103°48'37.8612"W	0.07	0.03	-0.06	
15756.00	90.080	179.970	11500.57	4097.82	-4096.29	146.64	702951.83	457492.87	32°15'23.9086"N	103°48'37.8660"W	0.07	0.07	0.00	
15850.00	90.050	180.030	11500.46	4191.82	-4190.29	146.64	702951.83	457398.88	32°15'22.9785"N	103°48'37.8713"W	0.07	-0.03	0.06	
15945.00	90.010	180.040	11500.41	4286.81	-4285.29	146.58	702951.77	457303.88	32°15'22.0385"N	103°48'37.8774"W	0.04	-0.04	0.01	
16040.00	89.890	179.760	11500.50	4381.80	-4380.29	146.75	702951.94	457208.89	32°15'21.0985"N	103°48'37.8809"W	0.32	-0.13	-0.29	
16134.00	89.800	180.040	11500.75	4475.80	-4474.29	146.91	702952.10	457114.90	32°15'20.1683"N	103°48'37.8843"W	0.31	-0.10	0.30	
16227.00	89.920	179.960	11500.98	4568.79	-4567.29	146.91	702952.10	457021.90	32°15'19.2481"N	103°48'37.8896"W	0.16	0.13	-0.09	
16322.00	89.860	179.970	11501.16	4663.78	-4662.29	146.97	702952.16	456926.91	32°15'18.3081"N	103°48'37.8943"W	0.06	-0.06	0.01	
16416.00	90.140	180.040	11501.16	4757.77	-4756.29	146.96	702952.15	456832.91	32°15'17.3779"N	103°48'37.8997"W	0.31	0.30	0.07	
16509.00	89.860	179.760	11501.16	4850.77	-4849.29	147.12	702952.32	456739.92	32°15'16.4577"N	103°48'37.9031"W	0.43	-0.30	-0.30	
16698.00	89.920	179.780	11501.52	5039.76	-5038.28	147.88	702953.07	456550.93	32°15'14.5875"N	103°48'37.9050"W	0.03	0.03	0.01	
16791.00	87.400	179.360	11503.70	5132.72	-5131.25	148.58	702953.77	456457.98	32°15'13.6676"N	103°48'37.9021"W	2.75	-2.71	-0.45	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
16884.00	89.830	179.990	11505.95	5225.69	-5224.21	149.11	702954.30	456365.02	32°15'12.7477"N	103°48'37.9012"W	2.70	2.61	0.68	
16978.00	91.000	179.950	11505.27	5319.68	-5318.21	149.16	702954.35	456271.03	32°15'11.8176"N	103°48'37.9060"W	1.25	1.24	-0.04	
17072.00	91.120	180.260	11503.53	5413.65	-5412.19	148.98	702954.18	456177.05	32°15'10.8877"N	103°48'37.9133"W	0.35	0.13	0.33	
17166.00	90.570	179.880	11502.14	5507.63	-5506.18	148.87	702954.06	456083.07	32°15'9.9577"N	103°48'37.9200"W	0.71	-0.59	-0.40	
17260.00	90.480	179.820	11501.28	5601.62	-5600.18	149.12	702954.31	455989.08	32°15'9.0276"N	103°48'37.9225"W	0.12	-0.10	-0.06	
17353.00	90.910	179.860	11500.15	5694.61	-5693.17	149.38	702954.57	455896.09	32°15'8.1074"N	103°48'37.9247"W	0.46	0.46	0.04	
17541.00	90.510	179.950	11497.82	5882.58	-5881.15	149.69	702954.88	455708.12	32°15'6.2473"N	103°48'37.9317"W	0.22	-0.21	0.05	
17634.00	93.650	184.420	11494.44	5975.37	-5973.99	146.15	702951.34	455615.29	32°15'5.3288"N	103°48'37.9782"W	5.87	3.38	4.81	
17728.00	91.060	181.270	11490.58	6069.09	-6067.77	141.49	702946.68	455521.51	32°15'4.4010"N	103°48'38.0378"W	4.34	-2.76	-3.35	
17822.00	90.380	180.050	11489.40	6163.05	-6161.76	140.41	702945.60	455427.53	32°15'3.4711"N	103°48'38.0557"W	1.49	-0.72	-1.30	
17917.00	89.060	179.780	11489.86	6258.04	-6256.76	140.55	702945.74	455332.54	32°15'2.5311"N	103°48'38.0594"W	1.42	-1.39	-0.28	
18011.00	89.920	179.890	11490.70	6352.03	-6350.75	140.82	702946.01	455238.55	32°15'1.6010"N	103°48'38.0616"W	0.92	0.91	0.12	
18105.00	89.430	179.030	11491.23	6446.03	-6444.74	141.71	702946.90	455144.56	32°15'0.6709"N	103°48'38.0566"W	1.05	-0.52	-0.91	
18201.00	90.200	180.120	11491.54	6542.02	-6540.74	142.42	702947.61	455048.57	32°14'59.7210"N	103°48'38.0538"W	1.39	0.80	1.14	
18286.00	90.310	182.010	11491.17	6626.98	-6625.72	140.84	702946.03	454963.60	32°14'58.8802"N	103°48'38.0770"W	2.23	0.13	2.22	
18381.00	89.750	180.100	11491.12	6721.92	-6720.70	139.09	702944.28	454868.63	32°14'57.9405"N	103°48'38.1028"W	2.10	-0.59	-2.01	
18475.00	89.840	178.900	11491.45	6815.92	-6814.69	139.91	702945.10	454774.64	32°14'57.0104"N	103°48'38.0985"W	1.28	0.10	-1.28	
18570.00	90.430	178.480	11491.23	6910.92	-6909.67	142.08	702947.27	454679.67	32°14'56.0705"N	103°48'38.0786"W	0.76	0.62	-0.44	
18664.00	90.150	178.330	11490.75	7004.90	-7003.63	144.70	702949.89	454585.71	32°14'55.1406"N	103°48'38.0535"W	0.34	-0.30	-0.16	
18759.00	90.120	178.620	11490.53	7099.89	-7098.59	147.23	702952.42	454490.75	32°14'54.2008"N	103°48'38.0294"W	0.31	-0.03	0.31	
18948.00	91.350	178.590	11488.11	7288.86	-7287.52	151.83	702957.02	454301.84	32°14'52.3312"N	103°48'37.9866"W	0.65	0.65	-0.02	
19043.00	91.850	178.530	11485.45	7383.82	-7382.45	154.21	702959.40	454206.91	32°14'51.3917"N	103°48'37.9642"W	0.53	0.53	-0.06	
19137.00	88.980	176.520	11484.77	7477.76	-7476.35	158.27	702963.46	454113.02	32°14'50.4624"N	103°48'37.9222"W	3.73	-3.05	-2.14	
19232.00	88.520	178.380	11486.84	7572.68	-7571.23	162.50	702967.69	454018.15	32°14'49.5234"N	103°48'37.8784"W	2.02	-0.48	1.96	
19327.00	89.660	178.300	11488.35	7667.66	-7666.17	165.25	702970.44	453923.21	32°14'48.5838"N	103°48'37.8518"W	1.20	1.20	-0.08	
19421.00	92.960	178.230	11486.20	7761.60	-7760.09	168.09	702973.28	453829.30	32°14'47.6543"N	103°48'37.8240"W	3.51	3.51	-0.07	
19516.00	88.710	178.510	11484.82	7856.56	-7855.02	170.79	702975.98	453734.37	32°14'46.7148"N	103°48'37.7979"W	4.48	-4.47	0.29	
19611.00	83.300	178.360	11491.44	7951.28	-7949.72	173.38	702978.57	453639.68	32°14'45.7777"N	103°48'37.7731"W	5.70	-5.69	-0.16	
19705.00	87.600	179.210	11498.89	8044.96	-8043.38	175.37	702980.55	453546.03	32°14'44.8508"N	103°48'37.7553"W	4.66	4.57	0.90	
19800.00	91.140	179.320	11499.94	8139.94	-8138.35	176.58	702981.77	453451.06	32°14'43.9110"N	103°48'37.7465"W	3.73	3.73	0.12	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
19895.00	91.380	180.470	11497.85	8234.91	-8233.33	176.76	702981.95	453356.09	32°14'42.9712"N	103°48'37.7499"W	1.24	0.25	1.21	
19989.00	91.010	180.730	11495.89	8328.86	-8327.30	175.77	702980.96	453262.12	32°14'42.0414"N	103°48'37.7667"W	0.48	-0.39	0.28	
20084.00	92.180	181.000	11493.24	8423.79	-8422.25	174.34	702979.53	453167.18	32°14'41.1019"N	103°48'37.7888"W	1.26	1.23	0.28	
20178.00	91.600	180.570	11490.14	8517.70	-8516.19	173.05	702978.24	453073.25	32°14'40.1725"N	103°48'37.8091"W	0.77	-0.62	-0.46	
20279.00	90.580	179.750	11488.22	8618.67	-8617.17	172.77	702977.96	452972.27	32°14'39.1733"N	103°48'37.8181"W	1.30	-1.01	-0.81	
20374.00	89.970	179.140	11487.76	8713.67	-8712.16	173.69	702978.88	452877.29	32°14'38.2333"N	103°48'37.8127"W	0.91	-0.64	-0.64	
20469.00	90.370	179.480	11487.48	8808.67	-8807.16	174.84	702980.03	452782.30	32°14'37.2933"N	103°48'37.8048"W	0.55	0.42	0.36	
20564.00	90.490	179.120	11486.77	8903.67	-8902.15	176.00	702981.19	452687.31	32°14'36.3533"N	103°48'37.7967"W	0.40	0.13	-0.38	
20658.00	90.490	179.820	11485.97	8997.66	-8996.14	176.87	702982.05	452593.33	32°14'35.4232"N	103°48'37.7919"W	0.74	0.00	0.74	
20752.00	90.920	179.240	11484.81	9091.65	-9090.13	177.64	702982.83	452499.35	32°14'34.4932"N	103°48'37.7882"W	0.77	0.46	-0.62	
20847.00	91.010	179.540	11483.21	9186.64	-9185.11	178.65	702983.84	452404.37	32°14'33.5533"N	103°48'37.7818"W	0.33	0.09	0.32	
20942.00	89.170	179.350	11483.06	9281.63	-9280.10	179.57	702984.76	452309.39	32°14'32.6133"N	103°48'37.7765"W	1.95	-1.94	-0.20	
21036.00	91.630	179.770	11482.40	9375.62	-9374.09	180.29	702985.48	452215.40	32°14'31.6832"N	103°48'37.7734"W	2.65	2.62	0.45	
21131.00	91.570	180.050	11479.75	9470.58	-9469.05	180.44	702985.63	452120.45	32°14'30.7436"N	103°48'37.7771"W	0.30	-0.06	0.29	
21320.00	90.890	179.490	11475.69	9659.53	-9658.00	181.20	702986.39	451931.51	32°14'28.8739"N	103°48'37.7790"W	0.47	-0.36	-0.30	
21414.00	89.780	179.170	11475.14	9753.52	-9751.99	182.30	702987.49	451837.52	32°14'27.9438"N	103°48'37.7715"W	1.23	-1.18	-0.34	
21509.00	90.370	179.330	11475.02	9848.52	-9846.98	183.54	702988.73	451742.54	32°14'27.0038"N	103°48'37.7624"W	0.64	0.62	0.17	
21604.00	91.290	180.480	11473.64	9943.51	-9941.97	183.70	702988.89	451647.55	32°14'26.0639"N	103°48'37.7659"W	1.55	0.97	1.21	
21699.00	91.410	180.670	11471.41	10038.45	-10036.94	182.75	702987.93	451552.59	32°14'25.1242"N	103°48'37.7824"W	0.24	0.13	0.20	
21888.00	89.310	180.010	11470.22	10227.41	-10225.92	181.62	702986.81	451363.62	32°14'23.2543"N	103°48'37.8062"W	1.16	-1.11	-0.35	
21983.00	89.460	179.840	11471.24	10322.39	-10320.92	181.75	702986.94	451268.63	32°14'22.3143"N	103°48'37.8101"W	0.24	0.16	-0.18	
22078.00	89.460	179.690	11472.13	10417.39	-10415.91	182.14	702987.33	451173.65	32°14'21.3743"N	103°48'37.8110"W	0.16	0.00	-0.16	
22267.00	89.740	179.770	11473.45	10606.38	-10604.90	183.03	702988.22	450984.66	32°14'19.5042"N	103°48'37.8113"W	0.15	0.15	0.04	
22362.00	90.540	179.260	11473.22	10701.37	-10699.90	183.83	702989.02	450889.67	32°14'18.5642"N	103°48'37.8073"W	1.00	0.84	-0.54	
22558.00	90.920	179.200	11470.72	10897.36	-10895.87	186.47	702991.65	450693.72	32°14'16.6249"N	103°48'37.7878"W	0.20	0.19	-0.03	
22742.00	90.640	179.510	11468.22	11081.34	-11079.84	188.54	702993.73	450509.76	32°14'14.8045"N	103°48'37.7741"W	0.23	-0.15	0.17	
22836.00	90.050	179.220	11467.65	11175.34	-11173.83	189.58	702994.77	450415.78	32°14'13.8743"N	103°48'37.7673"W	0.70	-0.63	-0.31	
22931.00	90.080	179.170	11467.55	11270.34	-11268.82	190.91	702996.10	450320.79	32°14'12.9344"N	103°48'37.7571"W	0.06	0.03	-0.05	
23026.00	90.180	179.370	11467.33	11365.34	-11363.81	192.12	702997.31	450225.81	32°14'11.9943"N	103°48'37.7484"W	0.24	0.11	0.21	
23216.00	90.330	179.150	11466.48	11555.33	-11553.79	194.58	702999.77	450035.84	32°14'10.1144"N	103°48'37.7306"W	0.14	0.08	-0.12	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
23310.00	89.990	179.010	11466.22	11649.33	-11647.78	196.09	703001.28	449941.85	32°14'9.1843"N	103°48'37.7184"W	0.39	-0.36	-0.15	
23500.00	90.360	179.170	11465.64	11839.33	-11837.76	199.11	703004.29	449751.89	32°14'7.3043"N	103°48'37.6940"W	0.21	0.19	0.08	
23689.00	89.900	179.330	11465.21	12028.33	-12026.74	201.58	703006.77	449562.92	32°14'5.4342"N	103°48'37.6759"W	0.26	-0.24	0.08	
23784.00	90.150	179.950	11465.17	12123.33	-12121.74	202.18	703007.36	449467.93	32°14'4.4942"N	103°48'37.6744"W	0.70	0.26	0.65	
23878.00	89.810	180.200	11465.20	12217.32	-12215.74	202.05	703007.24	449373.93	32°14'3.5641"N	103°48'37.6811"W	0.45	-0.36	0.27	
23973.00	89.750	180.280	11465.57	12312.30	-12310.73	201.65	703006.84	449278.94	32°14'2.6241"N	103°48'37.6911"W	0.11	-0.06	0.08	
24068.00	90.850	180.170	11465.07	12407.29	-12405.73	201.28	703006.47	449183.95	32°14'1.6841"N	103°48'37.7009"W	1.16	1.16	-0.12	
24163.00	88.950	180.300	11465.24	12502.27	-12500.72	200.89	703006.08	449088.96	32°14'0.7442"N	103°48'37.7108"W	2.00	-2.00	0.14	
24352.00	89.740	179.840	11467.40	12691.24	-12689.71	200.66	703005.85	448899.99	32°13'58.8741"N	103°48'37.7242"W	0.48	0.42	-0.24	
24448.00	88.980	179.780	11468.47	12787.23	-12785.70	200.98	703006.17	448804.00	32°13'57.9243"N	103°48'37.7259"W	0.79	-0.79	-0.06	
24542.00	90.580	180.040	11468.83	12881.22	-12879.70	201.13	703006.31	448710.01	32°13'56.9942"N	103°48'37.7295"W	1.72	1.70	0.28	
24732.00	90.520	180.080	11467.01	13071.19	-13069.69	200.93	703006.12	448520.03	32°13'55.1142"N	103°48'37.7426"W	0.04	-0.03	0.02	
24826.00	90.480	179.990	11466.19	13165.18	-13163.69	200.87	703006.06	448426.04	32°13'54.1841"N	103°48'37.7486"W	0.10	-0.04	-0.10	
24921.00	91.190	180.010	11464.80	13260.16	-13258.68	200.87	703006.06	448331.06	32°13'53.2442"N	103°48'37.7540"W	0.75	0.75	0.02	
25016.00	90.520	180.310	11463.38	13355.14	-13353.66	200.61	703005.79	448236.08	32°13'52.3043"N	103°48'37.7625"W	0.77	-0.71	0.32	
25111.00	90.330	180.350	11462.68	13450.12	-13448.66	200.06	703005.25	448141.09	32°13'51.3644"N	103°48'37.7742"W	0.20	-0.20	0.04	
25205.00	89.960	180.110	11462.44	13544.10	-13542.66	199.68	703004.87	448047.09	32°13'50.4343"N	103°48'37.7839"W	0.47	-0.39	-0.26	
25395.00	86.780	179.860	11467.85	13733.99	-13732.56	199.73	703004.92	447857.21	32°13'48.5552"N	103°48'37.7941"W	1.68	-1.67	-0.13	
25489.00	88.790	179.930	11471.48	13827.91	-13826.48	199.90	703005.09	447763.29	32°13'47.6258"N	103°48'37.7974"W	2.14	2.14	0.07	
25678.00	90.050	180.090	11473.39	14016.88	-14015.47	199.87	703005.06	447574.31	32°13'45.7558"N	103°48'37.8085"W	0.67	0.67	0.08	
25773.00	90.050	180.190	11473.31	14111.87	-14110.47	199.64	703004.82	447479.32	32°13'44.8158"N	103°48'37.8166"W	0.11	0.00	0.11	
25867.00	90.080	180.130	11473.20	14205.86	-14204.47	199.38	703004.56	447385.33	32°13'43.8857"N	103°48'37.8250"W	0.07	0.03	-0.06	
26056.00	90.020	180.090	11473.04	14394.83	-14393.47	199.01	703004.20	447196.34	32°13'42.0155"N	103°48'37.8399"W	0.04	-0.03	-0.02	
26151.00	89.530	180.150	11473.41	14489.82	-14488.47	198.81	703004.00	447101.35	32°13'41.0755"N	103°48'37.8476"W	0.52	-0.52	0.06	
26246.00	90.420	179.930	11473.45	14584.81	-14583.47	198.75	703003.93	447006.35	32°13'40.1355"N	103°48'37.8538"W	0.97	0.94	-0.23	
26435.00	90.150	180.190	11472.51	14773.79	-14772.46	198.55	703003.74	446817.37	32°13'38.2654"N	103°48'37.8668"W	0.20	-0.14	0.14	
26623.00	88.360	180.270	11474.96	14961.74	-14960.44	197.79	703002.98	446629.41	32°13'36.4054"N	103°48'37.8862"W	0.95	-0.95	0.04	
26717.00	89.870	180.240	11476.41	15055.72	-15054.42	197.38	703002.56	446535.43	32°13'35.4754"N	103°48'37.8964"W	1.61	1.61	-0.03	
26812.00	90.360	180.370	11476.22	15150.70	-15149.42	196.87	703002.06	446440.43	32°13'34.5355"N	103°48'37.9077"W	0.53	0.52	0.14	
26906.00	91.990	180.060	11474.29	15244.66	-15243.40	196.52	703001.71	446346.46	32°13'33.6056"N	103°48'37.9171"W	1.77	1.73	-0.33	



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH DATA (276 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
27001.00	91.320	180.940	11471.55	15339.60	-15338.35	195.69	703000.88	446251.51	32°13'32.6660"N	103°48'37.9321"W	1.16	-0.71	0.93	
27095.00	92.210	180.890	11468.65	15433.52	-15432.29	194.19	702999.38	446157.58	32°13'31.7365"N	103°48'37.9549"W	0.95	0.95	-0.05	
27190.00	89.310	181.280	11467.39	15528.45	-15527.26	192.39	702997.58	446062.62	32°13'30.7969"N	103°48'37.9812"W	3.08	-3.05	0.41	
27318.80†	90.918	182.952	11467.14	15657.08	-15655.96	187.64	702992.82	445933.92	32°13'29.5237"N	103°48'38.0439"W	1.80	1.25	1.30	LTP/100'FSL Crossing: 27318.80ft MD
27331.00	91.070	183.110	11466.92	15669.25	-15668.14	186.99	702992.18	445921.74	32°13'29.4032"N	103°48'38.0521"W	1.80	1.25	1.30	Final BKR MWD Survey: 27331.00ft MD
27351.00‡	91.070	183.110	11466.55	15689.21	-15688.11	185.91	702991.09	445901.78	32°13'29.2056"N	103°48'38.0658"W	0.00	0.00	0.00	Projection to TD: 20351.00ft MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Arkenstone 31 Federal Com 10H - PBHL	11449.79	-15735.89	201.21	703006.40	445854.00	32°13'28.7321"N	103°48'37.8903"W	point
Arkenstone 31 Federal Com 10H - LTP	11449.94	-15655.89	200.91	703006.10	445934.00	32°13'29.5238"N	103°48'37.8893"W	point
Arkenstone 31 Federal Com 10H - FTP	11480.00	0.60	134.91	702940.10	461589.50	32°16'4.4478"N	103°48'37.7702"W	point
Arkenstone 31 Federal Com 10H - PP	11480.09	50.60	134.71	702939.90	461639.50	32°16'4.9426"N	103°48'37.7697"W	point



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH COMPOSITION - Ref Wellbore: Arkenstone 31 Federal Com 10H AWB Ref Wellpath: Arkenstone 31 Federal Com 10H_awp 67.19'-27331'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	413.08	BH Generic gyro - northseeking (Standard)	Adjusted Gyrodata Gyro Surveys 67.19'-413.08' (Imported)	Arkenstone 31 Federal Com 10H AWB
413.08	4097.00	OWSG MWD+IFR1+SAG	PHX MWD Surveys 541'-4097' (Imported)	Arkenstone 31 Federal Com 10H AWB
4097.00	10619.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	PHX MWD Surveys 4171'-10619' (Imported)	Arkenstone 31 Federal Com 10H AWB
10619.00	27351.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	6-3/4" BKR Lucida MWD Surveys 10732'-27331'	Arkenstone 31 Federal Com 10H AWB



Actual Wellpath Report

Arkenstone 31 Federal Com 10H_ awp 67.19'-27331' Proj: 27351'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Oxy USA Inc.	Well	Arkenstone 31 Federal Com 10H
Field	Cotton Draw; Bone Spring - Eddy County, NM	API	30-015-46323-00
Facility	Arkenstone 31 Federal Com Pad	Wellbore	Arkenstone 31 Federal Com 10H AWB
Slot	Arkenstone 31 Federal Com 10H		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
67.19	0.620	54.020	67.19	Adjusted Gyrodata Gyro Surveys 67.19'-413.08' (Imported)
541.00	1.330	25.150	540.95	PHX MWD Surveys 541'-4097' (Imported)
4171.00	5.710	354.070	4167.12	PHX MWD Surveys 4171'-10619' (Imported)
10732.00	10.710	35.010	10691.98	6-3/4" BKR Lucida MWD Surveys 10732'-27331'
11529.25	57.550	186.549	11365.55	Lease Line Crossing: 11529.25ft MD
11644.60	64.443	182.952	11422.27	FTP/100'FNL Crossing: 11644.60ft MD
27318.80	90.918	182.952	11467.14	LTP/100'FSL Crossing: 27318.80ft MD
27331.00	91.070	183.110	11466.92	Final BKR MWD Survey: 27331.00ft MD
27351.00	91.070	183.110	11466.55	Projection to TD: 20351.00ft MD

COMMENTS

Wellpath general comments

Actual Line Calls

Lease Line Crossing @ 11529.25ft MD: 632'FEL

FTP/100'FNL Crossing @ 11644.60ft MD: 100'FNL & 641'FEL

LTP/100'FSL Crossing @ 27318.80ft MD: 100'FSL & 673'FEL

Final BKR MWD Survey @ 27331.00ft MD: 88'FSL & 674'FEL

Projection to TD @ 20351.00ft MD: 68'FSL & 675'FEL

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

Well Name: ARKENSTONE 31 FEDERAL COM	Well Location: T23S / R31E / SEC 31 / NENE / 32.267902 / -103.810928	County or Parish/State: EDDY / NM
Well Number: 10H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0546732A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546323	Well Status: Drilling Well	Operator: OXY USA INCORPORATED

Subsequent Report

Sundry ID: 2714364

Type of Submission: Subsequent Report Type of Action: Workover Operations

Date Sundry Submitted: 02/06/2023 Time Sundry Submitted: 08:52

Date Operation Actually Began: 10/12/2022

Actual Procedure: RUPU 10/12/22, RIH & clean out to PBTD @ 27309', pressure test casing to 6000# for 30 min, good test. RIH & perf @ 11699-27218' Total 1740 holes. Frac in 58 stages w/ 447803BBL Produced Water + 12184BBL Brackish Water (> 1,000 mg/I TDS and 10,000 mg/I TDS) w/ 31164647# sand, RD NexTier 10/27/22. Well ready to produce 11/10/22. 1/13/23 RIH with 2-3/8" L80 tbg & gas lift set @ 11366', RD 1/13/23. Formation Tops for this completion are as follows: Rustler 354'M 354'V Salado 659'M 659'V Castile 2015'M 2015'V Delaware 3978'M 3975'V Bell Canyon 4118'M 4115'V Cherry Canyon 4988'M 4980'V Brushy Canyon 6250'M 6241'V Bone Spring 7942'M 7933'V 1st Bone Spring 9023'M 9014'V 2nd Bone Spring 9693'M 9672'V 3rd Bone Spring 10987'M 10944'V Wolfcamp 11522'M 11361'V

Received by OCD: 3/21/2023 3:05:25 PM

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Well Name: ARKENSTONE 31 FEDERAL COM	Well Location: T23S / R31E / SEC 31 / NENE / 32.267902 / -103.810928	County or Parish/State: EDDY / NM
Well Number: 10H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0546732A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546323	Well Status: Drilling Well	Operator: OXY USA INCORPORATED

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

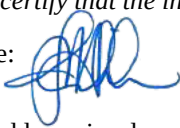
Operator Electronic Signature: JANA MENDIOLA	Signed on: FEB 06, 2023 08:51 PM
Name: OXY USA INCORPORATED	
Title: Regulatory Coordinator	
Street Address: PO BOX 50250	
City: Midland	State: TX
Phone: (432) 685-5936	
Email address: Janalyn_mendiola@oxy.com	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: JONATHON W SHEPARD	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 03/16/2023
Signature: Jonathon Shepard	

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. 30-015-46323		
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 COM		
8. Name of Operator: OXY USA INC.								6. Well Number: 10H		
10. Address of Operator: P.O. BOX 50250 MIDLAND, TX 79710								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:	A	31	23S	31E		100	NORTH	795	EAST	EDDY
BH:	P	7	24S	31E		68	SOUTH	675	EAST	EDDY
13. Date Spudded 07/12/2022	14. Date T.D. Reached 09/25/2022		15. Date Rig Released 10/08/2022		16. Date Completed (Ready to Produce) 11/10/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3344' GL		
18. Total Measured Depth of Well 27351'M 11467'V			19. Plug Back Measured Depth 27309'M 11467'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 16845-27218' 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		427'		17.5"		545sx-surf circ		
9.625" L80 HC		40		4157'		12.25"		1098sx-surf circ		
7.625" HCL80		26.4		10720'		8.75"		773sx-surf circ		
5.5" P110 ICY		20		27331'		6.75"		1285sx-TOC@8354'		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
						2-3/8"		11366'		
26. Perforation record (interval, size, and number) Perf @ 16845-27218' Total 870 holes, Hole Size=0.42						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						16845-27218'		447803BBL Produced Water + 12184BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 31164647# sand		
28. PRODUCTION										
Date First Production 11/13/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Gas lift				Well Status (<i>Prod. or Shut-in</i>) Prod.				
Date of Test 11/23/2022	Hours Tested 24 hrs.	Choke Size 61/128	Prod'n For Test Period	Oil - Bbl 1798	Gas - MCF 4591	Water - Bbl. 4081	Gas - Oil Ratio 2553			
Flow Tubing Press.	Casing Pressure 1670	Calculated 24- Hour Rate	Oil - Bbl. 1798	Gas - MCF 4591	Water - Bbl. 4081	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) 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>03/21/2023</u>		
E-mail Address: <u>janalyn_mendiola@oxy.com</u>										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Rustler 354'	T. Bell Canyon 4118'	T. Ojo Alamo	T. Penn A"
T. Salado 659'	T. Strawn	T. Kirtland	T. Penn. "B"
T. Castile 2015'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Delaware 3978'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Cherry Canyon 4988'	T. Devonian	T. Cliff House	T. Leadville
T. Brushy Canyon 6250'	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Spring 7942'	T. Todilto	
T. Abo	T. 1 st Bone Spring 9023'	T. Entrada	
T. Wolfcamp 11522'	T. 2 nd Bone Spring 9693'	T. Wingate	
T. Penn	T. 3 rd Bone Spring 10987'	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

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

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

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

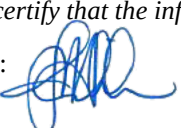
No. 4, from.....to.....

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

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								6. Well Number: 10H		
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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 S233135D; WOLFCAMP				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
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22. Producing Interval(s), of this completion - Top, Bottom, Name 11699-16819' 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		427'		17.5"		545sx-surf circ		
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5.5" P110 ICY		20		27331'		6.75"		1285sx-TOC@8354'		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						2-3/8"	11366'			
26. Perforation record (interval, size, and number) Perf @ 11699-16819' Total 870 holes, Hole Size=0.42						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
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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>03/21/2023</u>		
E-mail Address: <u>janalyn_mendiola@oxy.com</u>										

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

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

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

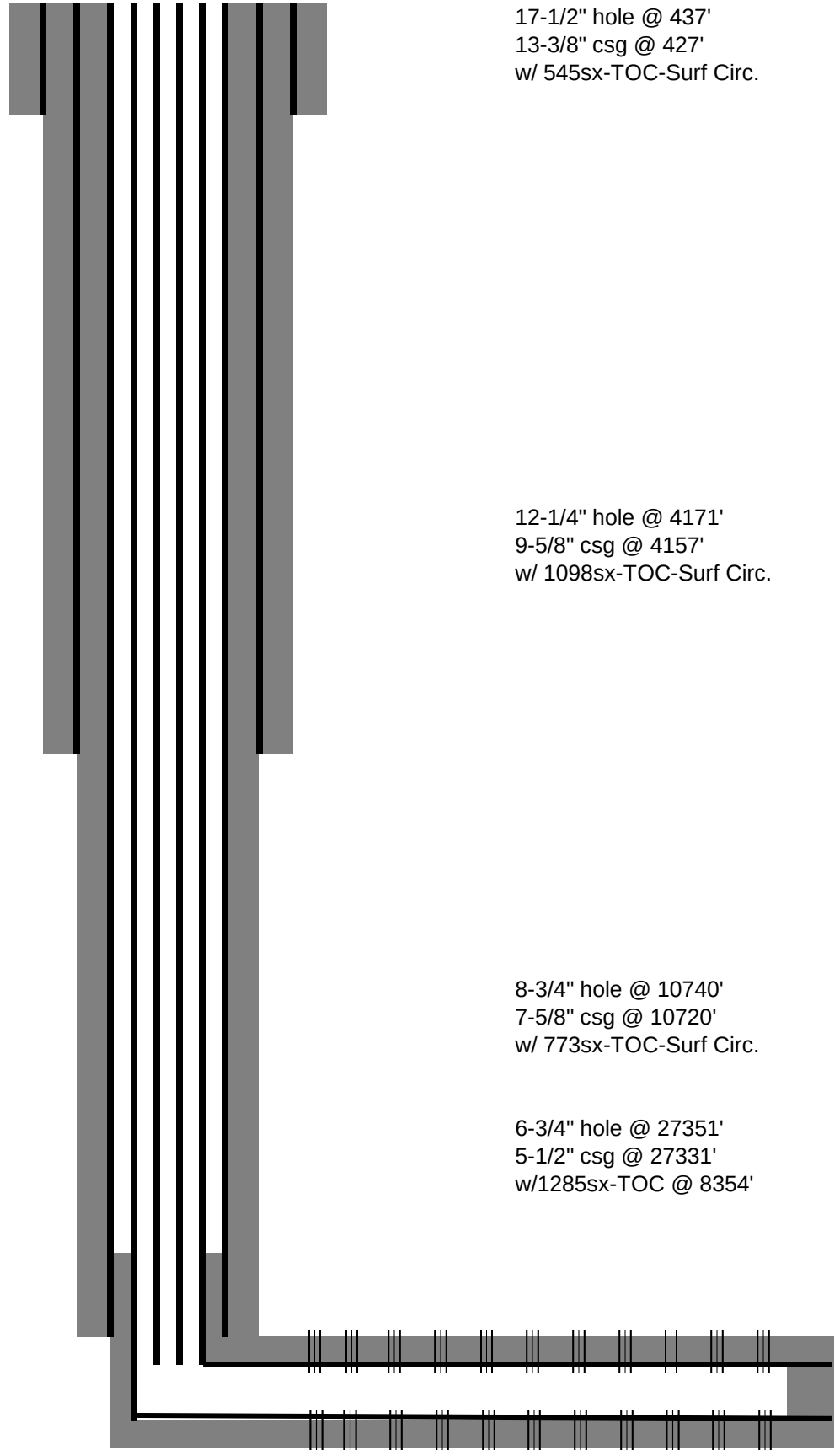
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Include data on rate of water inflow and elevation to which water rose in hole.

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From	To	Thickness In Feet	Lithology

OXY USA Inc.
ARKENSTONE 31 FEDERAL COM 10H
API No. 30-015-46323



17-1/2" hole @ 437'
13-3/8" csg @ 427'
w/ 545sx-TOC-Surf Circ.

12-1/4" hole @ 4171'
9-5/8" csg @ 4157'
w/ 1098sx-TOC-Surf Circ.

8-3/4" hole @ 10740'
7-5/8" csg @ 10720'
w/ 773sx-TOC-Surf Circ.

6-3/4" hole @ 27351'
5-1/2" csg @ 27331'
w/1285sx-TOC @ 8354'

2-3/8" tbg & gas lift @ 11366'

Perfs @ 11699-27218'

TD- 27351'M 11467'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 199467

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 199467
	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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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 199467

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 199467
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	5/31/2023
plmartinez	Submit the CBL Well Log to OCD Permitting as [UF-WL] EP Well Log Submission.	5/31/2023