

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710		² OGRID Number: 16696
		³ Reason for Filing Code/ Effective Date - NW- 11/21/2022
⁴ API Number 30-015-46321	⁵ Pool Name PURPLE SAGE WOLFCAMP <i>*NSL-8402</i>	⁶ Pool Code 98220
⁷ Property Code: 326149	⁸ Property Name: Arkenstone 31 Federal Com	⁹ Well Number: 7H

II. ¹⁰ Surface Location

Ul or lot no. D	Section 31	Township 23S	Range 31E	Lot Idn	Feet from the 130	North/South Line NORTH	Feet from the 965	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location FTP: 154' FNL 1602' FWL LTP: 185' FSL 1539' FWL

UL or lot no. N	Section 6	Township 24S	Range 31E	Lot Idn	Feet from the 55	North/South line SOUTH	Feet from the 1542	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code : P		¹⁴ Gas Connection Date: 11/23/22		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 07/08/22	²² Ready Date 11/21/22	²³ TD 22076'M 11398'V	²⁴ PBSD 22031'M 11397'V	²⁵ Perforations 16843-21946'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8"		406'	460
12-1/4"		9-5/8"		4175'	1140
8-3/4"		7-5/8"		10808'	952
6-3/4"		5-1/2"		22056'	990

V. Well Test Data 2-3/8" TBG 11255'

³¹ Date New Oil 11/24/22	³² Gas Delivery Date 11/23/22	³³ Test Date 12/10/22	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1332
³⁷ Choke Size 128/128	³⁸ Oil 2009	³⁹ Water 4637	⁴⁰ Gas 3754		⁴¹ Test Method F

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

Signature: 

Printed name:
JANA MENDIOLA

Title:
SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

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

OIL CONSERVATION DIVISION

Approved by:
PATRICIA MARTINEZ

Title: *PETROLEUM SPECIALIST*

Approval Date: *5/31/2023*

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

Signature: 

Printed name:
JANA MENDIOLA

Title:
SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

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

OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title: *PETROLEUM SPECIALIST*

Approval Date: *5/31/2023*

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☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46321	² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code 326150	Property Name ARKENSTONE 31 FEDERAL	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	
		⁶ Well Number 7H
		⁹ Elevation 3347'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 1	31	23S	31E		130	NORTH	965	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	24S	31E		55	SOUTH	1542	WEST	EDDY
¹² Dedicated Acres 648.29	¹³ Joint or Infill	¹⁴ Consolidation Code NSL-8402		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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 700956.72' / Y: 461880.43' B - X: 703599.62' / Y: 461692.37' C - X: 703615.24' / Y: 459051.85' D - X: 703629.20' / Y: 456410.90' E - X: 703635.84' / Y: 453765.49' F - X: 703642.47' / Y: 451120.08' G - X: 701001.86' / Y: 451107.73' H - X: 698302.38' / Y: 451095.14' I - X: 698292.14' / Y: 453738.71' J - X: 698281.85' / Y: 456382.27' K - X: 698269.19' / Y: 459024.23' L - X: 698257.10' / Y: 461665.25' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 659773.17' / Y: 461621.13' B - X: 662416.07' / Y: 461633.08' C - X: 662431.61' / Y: 458992.63' D - X: 662445.49' / Y: 458351.74' E - X: 662452.04' / Y: 453706.39' F - X: 662458.59' / Y: 451061.04' G - X: 659817.78' / Y: 451048.69' H - X: 657118.51' / Y: 451036.10' I - X: 657108.36' / Y: 453679.61' J - X: 657098.16' / Y: 456323.11' K - X: 657085.57' / Y: 458965.00' L - X: 657073.56' / Y: 461605.95' SURFACE HOLE LOCATION 130' FSL 1547' FWL, SECTION 31 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699222.80' / Y: 461540.70' LAT: 32.26781723N / LON: 103.82251885W NAD 27, SPCS NM EAST X: 658039.25' / Y: 461481.41' LAT: 32.26769432N / LON: 103.82203244W KICK OFF POINT 332' FSL 1547' FWL, SECTION 30 10838' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699803.00' / Y: 462006.21' LAT: 32.26908920N / LON: 103.82063457W NAD 27, SPCS NM EAST X: 658619.46' / Y: 461946.91' LAT: 32.26896630N / LON: 103.82014816W FIRST TAKE POINT 154' FSL 1602' FWL, SECTION 31 11668' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699859.45' / Y: 461520.56' LAT: 32.26775351N / LON: 103.82045946W NAD 27, SPCS NM EAST X: 658675.90' / Y: 461461.27' LAT: 32.26763060N / LON: 103.81997311W LAST TAKE POINT 185' FSL 1539' FWL, SECTION 6 21946' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699840.10' / Y: 451286.86' LAT: 32.23962354N / LON: 103.82068015W NAD 27, SPCS NM EAST X: 658665.23' / Y: 451227.82' LAT: 32.23950042N / LON: 103.82019497W BOTTOM HOLE LOCATION 55' FSL 1542' FWL, SECTION 6 22076' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699844.61' / Y: 451156.95' LAT: 32.23926639N / LON: 103.82066756W NAD 27, SPCS NM EAST X: 658660.74' / Y: 451097.91' LAT: 32.23914326N / LON: 103.82018240W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered with the division. Signature: Date: 11/21/22 Printed Name: JANA MENDIOLA E-mail Address: janalyn_mendiola@oxy.com ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. NOVEMBER 18, 2022 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number: LOYD P. SHORT 21653
--	--

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

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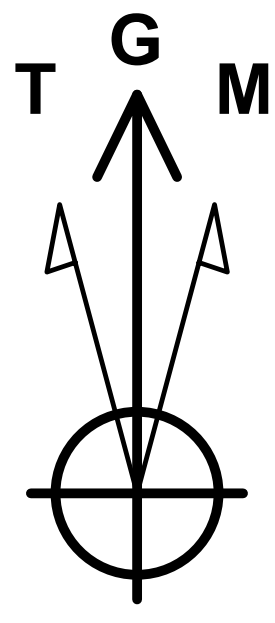
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RKB @ 3371.50usft (H&P 466)
Ground Level: 3346.50



Project: Eddy County, NM (NAD83-NME)
Site: Arkenstone 31
Well: Arkenstone 31 Federal 7H
Wellbore: OH / 70336
Design: Plan 4 09-29-22
Rig: H&P 466



Azimuths to Grid North
True North: -0.27°
Magnetic North: 6.47°

Magnetic Field
Strength: 47619.4nT
Dip Angle: 59.91°
Date: 8/21/2022
Model: IFR

WELL DETAILS											
					Ground Level:		3346.50				
		+N/-S		+E/-W		Northing		Easting		Latitude	
		0.00		0.00		461540.70		699222.80		32° 16' 4.142014 N	
										103° 49' 21.067860 W	
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	10759.00	1.56	56.41	10684.34	464.15	578.72	0.00	0.000	-427.24		Plan Tie In
2	10868.45	1.56	56.41	10793.75	465.80	581.20	0.00	0.000	-428.73		KOP, Begin 9.50°/100' Build & Turn
3	11350.70	45.00	177.19	11228.71	289.64	595.82	9.50	122.090	-252.01		Begin 9.50°/100' Build & Turn
4	11822.88	89.80	179.75	11405.60	-135.11	605.52	9.50	3.640	172.53		LP, Hold 89.80° Inc at 179.75° Azm
5	22106.23	89.80	179.75	11441.44	-10418.30	649.50	0.00	0.000	10438.53	BHL v2 - Ark 31 Fed 7H	TD at 22106.23

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
353.50	353.50	RUSTLER	
670.50	670.50	SALADO	
2600.49	2600.63	CASTILE	
4033.49	4033.75	DELAWARE	
4066.50	4066.76	BELL CANYON	
4963.52	4963.82	CHERRY CANYON	
6253.98	6278.80	BRUSHY CANYON	
7935.18	8004.15	BONE SPRING	
8965.99	9039.61	BONE SPRING 1ST	
9225.96	9299.86	Second Bone Spring Limestone	
9606.95	9681.04	BONE SPRING 2ND	
10111.98	10186.46	Third Bone Spring Limestone	
10819.00	10893.71	BONE SPRING 3RD	
11289.87	11444.90	WOLFCAMP	
11405.60	11821.92	11,405' TVD @ 0° VS, 89.8° INC	

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

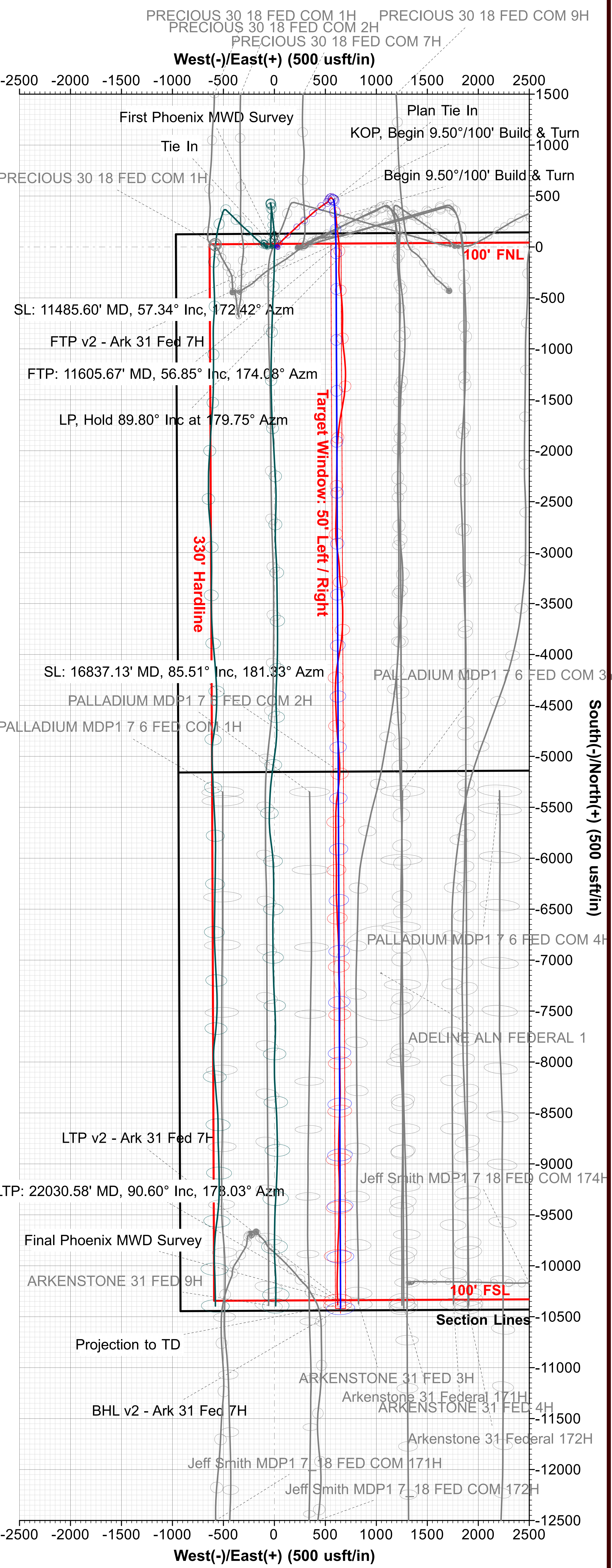
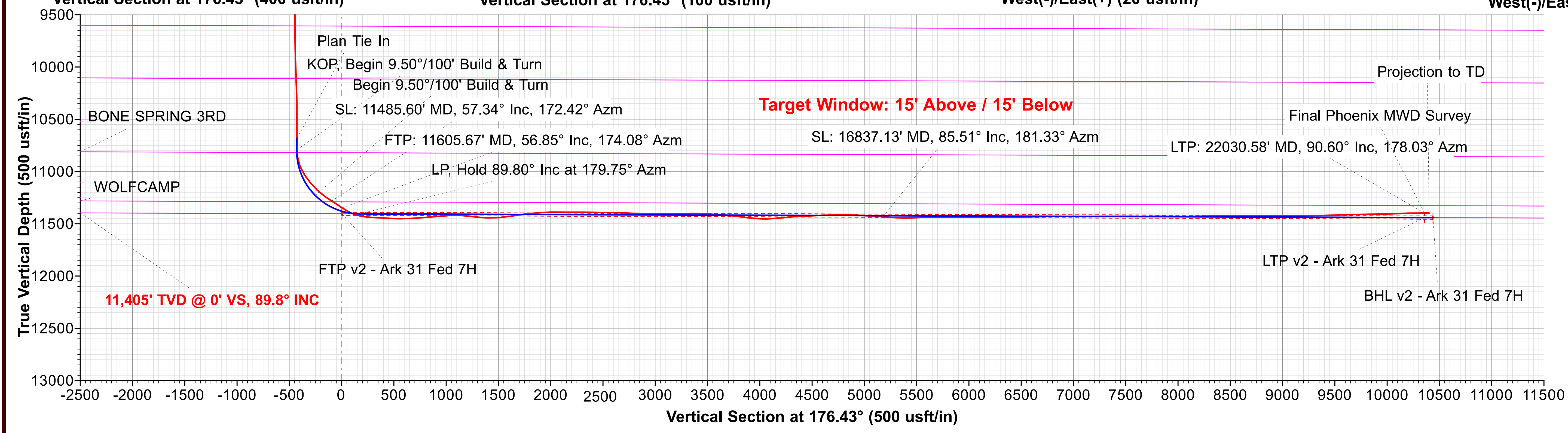
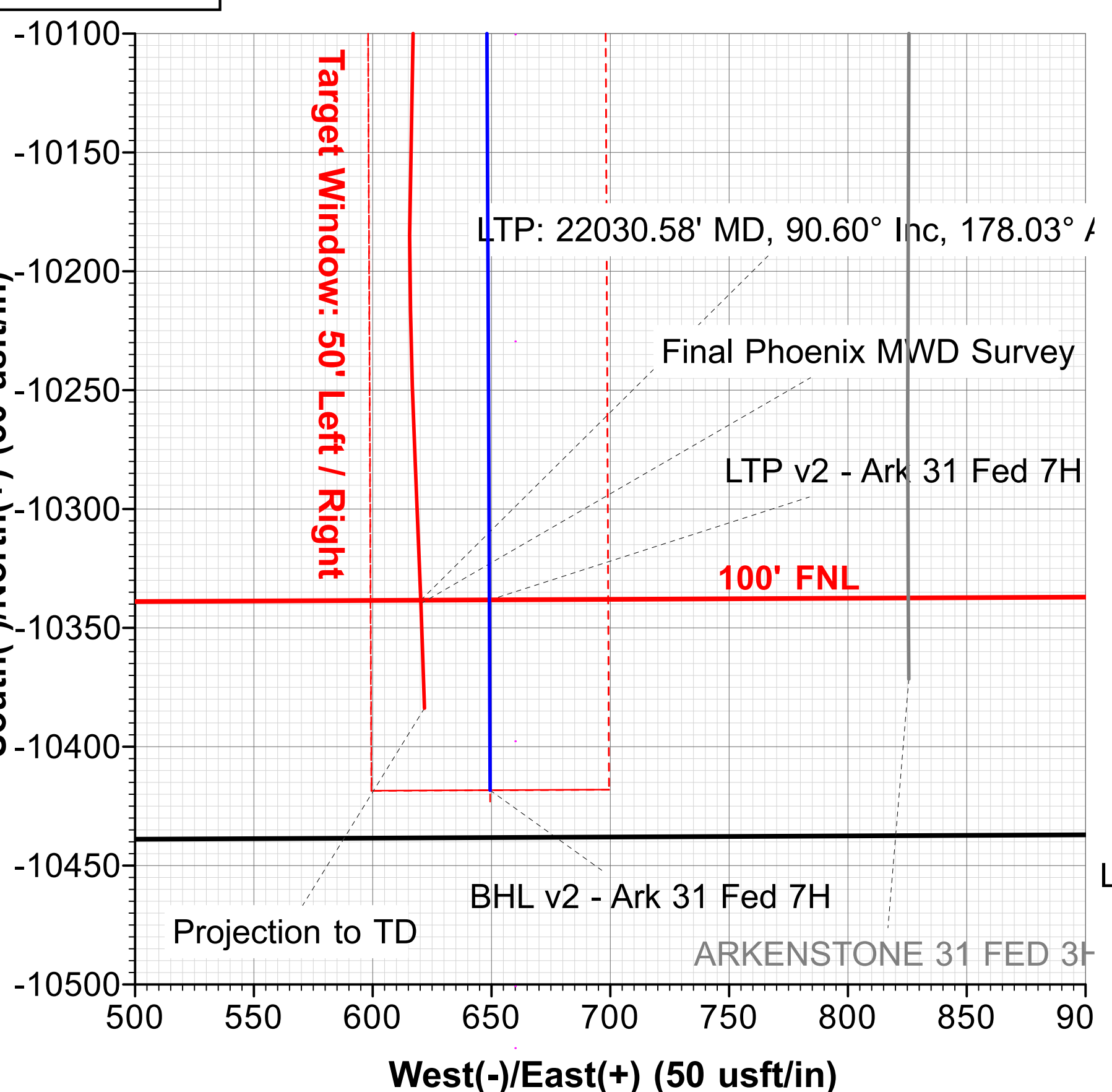
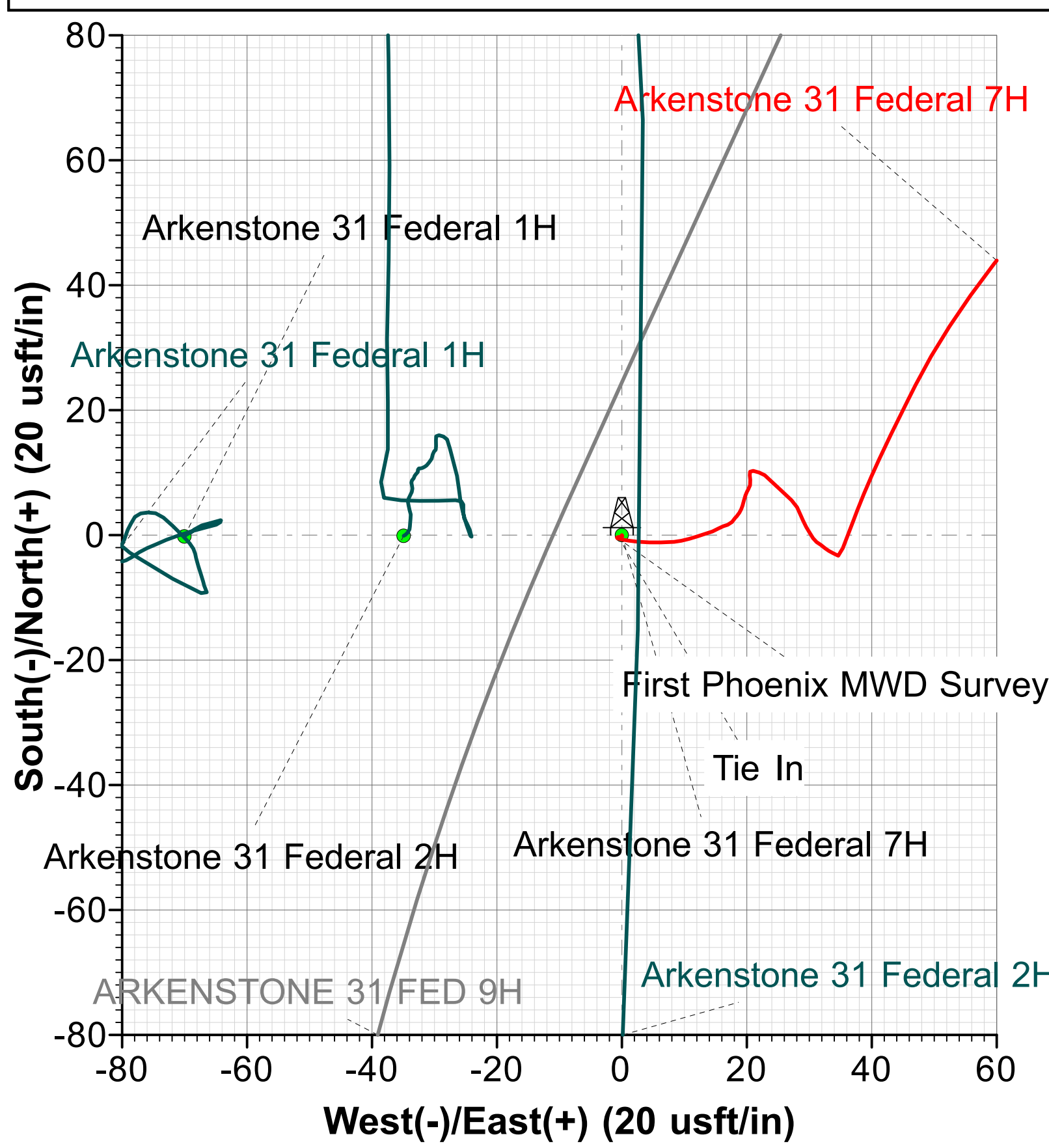
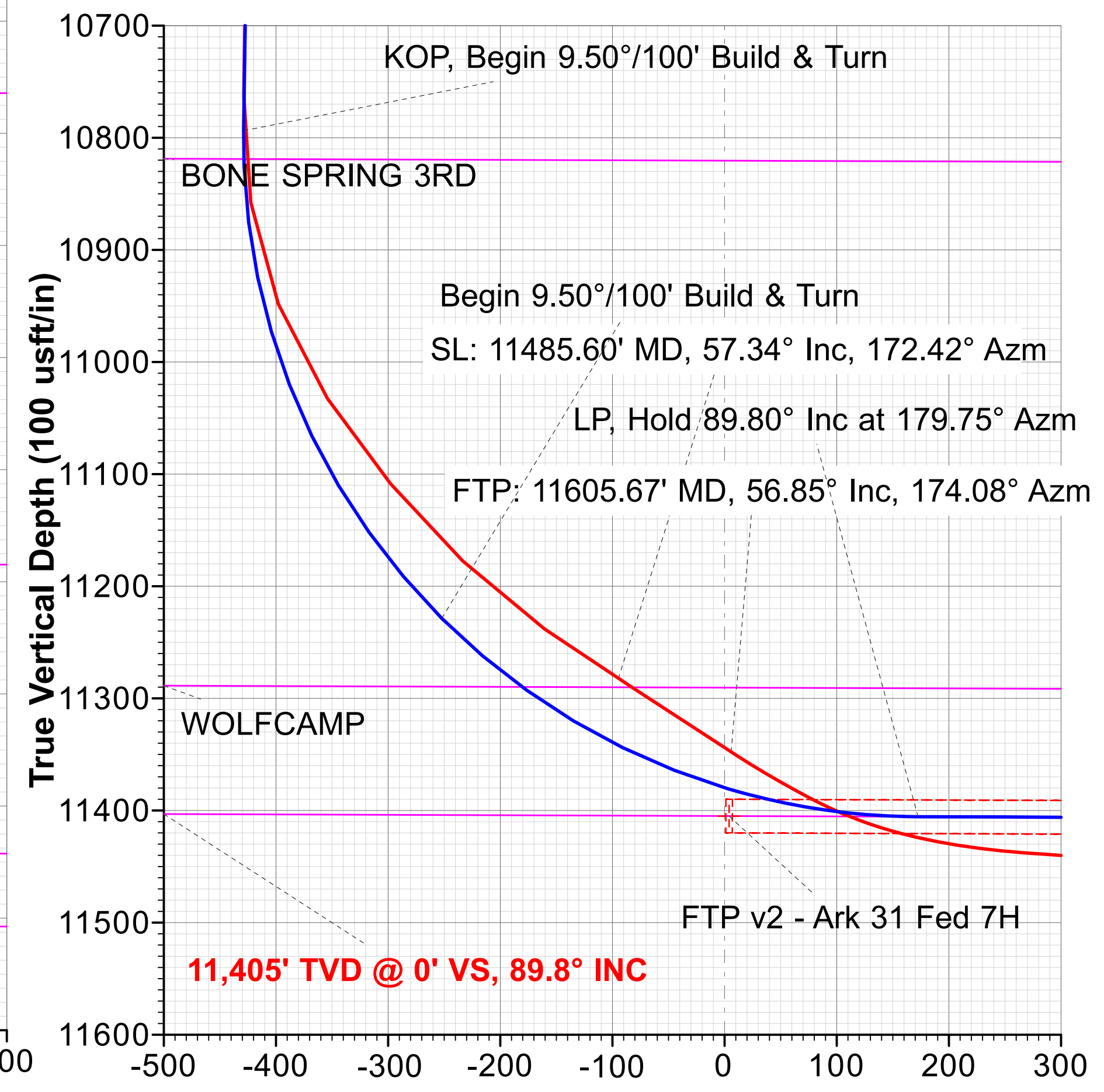
Local Origin: Well Arkenstone 31 Federal 7H, Grid North

Latitude: 32° 16' 4.142014 N
Longitude: 103° 49' 21.067860 W

Grid East: 699222.80
Grid North: 461540.70
Scale Factor: 1.000

Geomagnetic Model: IFR
Sample Date: 21-Aug-22
Magnetic Declination: 6.746°
Dip Angle from Horizontal: 59.908°
Magnetic Field Strength: 47619.4000000nT

To convert a Magnetic Direction to a Grid Direction, Add 6.473°
To convert a Magnetic Direction to a True Direction, Add 6.746° East
To convert a True Direction to a Grid Direction, Subtract 0.273°





OXY USA INC.

Eddy County, NM (NAD83-NME)

Arkenstone 31

Arkenstone 31 Federal 7H

OH / 70336

Design: Surveys (H&P 466)

Standard Survey Report

22 October, 2022





Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

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

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

Well	Arkenstone 31 Federal 7H		
Well Position	+N/-S	0.00 usft	Northing: 461,540.70 usft
	+E/-W	0.00 usft	Easting: 699,222.80 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 4.142014 N
		Longitude:	103° 49' 21.067860 W
		Ground Level:	3,346.50 usft

Wellbore	OH / 70336				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	8/21/2022	6.746	59.908	47,619.40000000

Design	Surveys (H&P 466)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	176.43	

Survey Program	Date	10/22/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	392.96	Gyrodata Gyro Surveys - Adj Surface (OH	GYD_G003_GC+DROP+	Gyrodata Stationary Tool drop on BHA on open h
528.00	22,076.00	Phoenix MWD Surveys - SQC R8 (OH / 70	SQC_C705a_MWD+IFR1	OWSG MWD + IFR1 + Sag + FDIR Correction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00
97.38	0.23	145.63	97.38	-0.12	0.08	0.12	0.32	0.32	0.00
124.79	0.08	232.34	124.79	-0.18	0.10	0.18	0.87	-0.55	316.34
209.31	0.08	253.25	209.31	-0.23	-0.01	0.23	0.03	0.00	24.74
301.56	0.18	257.15	301.56	-0.28	-0.21	0.27	0.11	0.11	4.23
392.96	0.26	277.28	392.96	-0.29	-0.55	0.25	0.12	0.09	22.02
Tie In									
528.00	0.11	152.90	528.00	-0.36	-0.80	0.31	0.25	-0.11	-92.11



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
First Phoenix MWD Survey									
619.00	0.09	130.11	619.00	-0.49	-0.70	0.44	0.05	-0.02	-25.04
717.00	0.57	104.20	717.00	-0.66	-0.17	0.64	0.50	0.49	-26.44
811.00	0.91	98.34	810.99	-0.88	1.02	0.94	0.37	0.36	-6.23
906.00	0.94	94.90	905.98	-1.06	2.54	1.21	0.07	0.03	-3.62
1,000.00	0.96	92.02	999.96	-1.15	4.10	1.40	0.06	0.02	-3.06
1,095.00	0.94	89.36	1,094.95	-1.17	5.67	1.52	0.05	-0.02	-2.80
1,189.00	0.82	88.13	1,188.94	-1.14	7.11	1.58	0.13	-0.13	-1.31
1,283.00	0.72	85.34	1,282.93	-1.07	8.38	1.59	0.11	-0.11	-2.97
1,378.00	0.71	77.78	1,377.92	-0.89	9.55	1.49	0.10	-0.01	-7.96
1,472.00	0.86	74.71	1,471.91	-0.59	10.80	1.26	0.17	0.16	-3.27
1,567.00	0.80	71.91	1,566.90	-0.19	12.11	0.94	0.08	-0.06	-2.95
1,661.00	0.77	72.45	1,660.90	0.20	13.34	0.63	0.03	-0.03	0.57
1,756.00	0.71	71.10	1,755.89	0.59	14.51	0.32	0.07	-0.06	-1.42
1,850.00	0.64	54.90	1,849.88	1.08	15.49	-0.11	0.22	-0.07	-17.23
1,945.00	0.38	81.12	1,944.88	1.43	16.23	-0.42	0.36	-0.27	27.60
2,040.00	0.54	68.53	2,039.87	1.64	16.96	-0.58	0.20	0.17	-13.25
2,135.00	0.49	41.41	2,134.87	2.11	17.64	-1.01	0.26	-0.05	-28.55
2,229.00	0.46	33.05	2,228.87	2.73	18.12	-1.60	0.08	-0.03	-8.89
2,324.00	0.33	55.03	2,323.87	3.21	18.55	-2.05	0.21	-0.14	23.14
2,419.00	0.54	17.46	2,418.86	3.79	18.91	-2.61	0.36	0.22	-39.55
2,513.00	0.42	39.08	2,512.86	4.48	19.26	-3.27	0.23	-0.13	23.00
2,608.00	0.53	359.08	2,607.86	5.19	19.47	-3.97	0.36	0.12	-42.11
2,703.00	0.45	28.95	2,702.85	5.95	19.64	-4.72	0.28	-0.08	31.44
2,798.00	0.48	11.44	2,797.85	6.67	19.90	-5.42	0.15	0.03	-18.43
2,893.00	0.42	44.13	2,892.85	7.31	20.22	-6.04	0.27	-0.06	34.41
2,988.00	0.53	9.37	2,987.84	7.99	20.54	-6.70	0.32	0.12	-36.59
3,082.00	0.55	356.17	3,081.84	8.87	20.58	-7.58	0.13	0.02	-14.04
3,177.00	0.31	348.45	3,176.84	9.58	20.50	-8.29	0.26	-0.25	-8.13
3,272.00	0.39	15.33	3,271.84	10.14	20.53	-8.85	0.19	0.08	28.29
3,367.00	0.55	111.92	3,366.83	10.29	21.04	-8.96	0.75	0.17	101.67
3,462.00	0.65	100.02	3,461.83	10.02	21.99	-8.63	0.17	0.11	-12.53
3,556.00	0.61	131.73	3,555.82	9.60	22.89	-8.15	0.37	-0.04	33.73
3,651.00	1.05	134.49	3,650.81	8.65	23.89	-7.15	0.46	0.46	2.91
3,746.00	1.58	131.05	3,745.79	7.18	25.50	-5.58	0.56	0.56	-3.62
3,841.00	1.21	136.45	3,840.76	5.59	27.18	-3.89	0.41	-0.39	5.68
3,935.00	0.55	155.94	3,934.75	4.46	28.04	-2.71	0.76	-0.70	20.73
4,030.00	0.85	154.97	4,029.74	3.41	28.53	-1.62	0.32	0.32	-1.02
4,121.00	0.64	156.59	4,120.73	2.33	29.02	-0.52	0.23	-0.23	1.78
4,224.00	0.62	151.97	4,223.73	1.31	29.51	0.53	0.05	-0.02	-4.49
4,319.00	0.67	145.32	4,318.72	0.40	30.06	1.47	0.09	0.05	-7.00
4,414.00	0.59	150.77	4,413.71	-0.49	30.62	2.39	0.11	-0.08	5.74
4,509.00	0.47	120.40	4,508.71	-1.11	31.19	3.05	0.32	-0.13	-31.97



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,604.00	0.55	126.26	4,603.71	-1.58	31.90	3.56	0.10	0.08	6.17
4,698.00	0.48	131.12	4,697.70	-2.10	32.56	4.12	0.09	-0.07	5.17
4,793.00	0.40	119.95	4,792.70	-2.53	33.14	4.59	0.12	-0.08	-11.76
4,888.00	0.41	116.68	4,887.70	-2.85	33.74	4.94	0.03	0.01	-3.44
4,982.00	0.32	116.18	4,981.70	-3.11	34.27	5.24	0.10	-0.10	-0.53
5,077.00	0.18	109.59	5,076.70	-3.28	34.65	5.43	0.15	-0.15	-6.94
5,172.00	1.69	24.88	5,171.68	-2.06	35.38	4.26	1.77	1.59	-89.17
5,266.00	4.31	19.59	5,265.54	2.53	37.15	-0.21	2.80	2.79	-5.63
5,361.00	7.47	24.58	5,360.03	11.51	40.92	-8.94	3.37	3.33	5.25
5,456.00	9.39	27.03	5,454.00	24.03	47.01	-21.06	2.06	2.02	2.58
5,550.00	11.28	35.35	5,546.48	38.36	55.81	-34.81	2.56	2.01	8.85
5,645.00	12.84	43.03	5,639.38	53.65	68.39	-49.29	2.35	1.64	8.08
5,740.00	12.76	44.91	5,732.02	68.80	83.00	-63.50	0.45	-0.08	1.98
5,835.00	13.78	47.15	5,824.49	83.93	98.70	-77.62	1.20	1.07	2.36
5,930.00	13.77	46.52	5,916.75	99.40	115.20	-92.04	0.16	-0.01	-0.66
6,024.00	13.52	46.31	6,008.10	114.69	131.27	-106.30	0.27	-0.27	-0.22
6,119.00	15.09	48.36	6,100.15	130.58	148.54	-121.08	1.74	1.65	2.16
6,214.00	16.07	47.59	6,191.66	147.66	167.49	-136.95	1.05	1.03	-0.81
6,309.00	15.71	47.94	6,283.03	165.14	186.75	-153.21	0.39	-0.38	0.37
6,403.00	14.20	46.11	6,373.84	181.66	204.50	-168.59	1.68	-1.61	-1.95
6,498.00	12.81	45.41	6,466.22	197.14	220.40	-183.04	1.47	-1.46	-0.74
6,593.00	12.75	45.54	6,558.86	211.87	235.38	-196.82	0.07	-0.06	0.14
6,688.00	11.35	49.30	6,651.77	225.31	249.95	-209.32	1.69	-1.47	3.96
6,782.00	10.80	51.75	6,744.02	236.80	263.88	-219.92	0.77	-0.59	2.61
6,877.00	11.41	54.35	6,837.24	247.78	278.51	-229.97	0.83	0.64	2.74
6,972.00	13.32	49.53	6,930.03	260.36	294.47	-241.54	2.28	2.01	-5.07
7,066.00	13.59	48.91	7,021.45	274.65	311.03	-254.77	0.33	0.29	-0.66
7,161.00	13.09	50.22	7,113.89	288.87	327.71	-267.92	0.61	-0.53	1.38
7,256.00	13.39	48.09	7,206.37	303.10	344.17	-281.10	0.60	0.32	-2.24
7,351.00	13.62	46.90	7,298.74	318.09	360.52	-295.04	0.38	0.24	-1.25
7,445.00	13.81	48.59	7,390.06	333.07	377.02	-308.97	0.47	0.20	1.80
7,540.00	14.33	52.27	7,482.21	347.77	394.82	-322.53	1.09	0.55	3.87
7,635.00	13.77	52.06	7,574.37	361.91	413.03	-335.51	0.59	-0.59	-0.22
7,729.00	13.05	52.09	7,665.80	375.31	430.23	-347.82	0.77	-0.77	0.03
7,824.00	12.04	53.33	7,758.54	387.82	446.64	-359.28	1.10	-1.06	1.31
7,919.00	11.44	53.68	7,851.55	399.32	462.18	-369.79	0.64	-0.63	0.37
8,013.00	10.28	55.22	7,943.86	409.63	476.58	-379.18	1.27	-1.23	1.64
8,108.00	8.63	55.84	8,037.57	418.46	489.44	-387.20	1.74	-1.74	0.65
8,203.00	7.28	56.50	8,131.65	425.79	500.36	-393.83	1.42	-1.42	0.69
8,298.00	6.83	58.30	8,225.93	432.08	510.18	-399.50	0.53	-0.47	1.89
8,393.00	5.11	51.49	8,320.42	437.68	518.30	-404.58	1.95	-1.81	-7.17
8,487.00	4.63	45.17	8,414.08	442.96	524.27	-409.48	0.77	-0.51	-6.72
8,582.00	3.70	38.15	8,508.83	448.08	528.88	-414.30	1.11	-0.98	-7.39
8,677.00	2.95	24.99	8,603.67	452.70	531.81	-418.74	1.12	-0.79	-13.85



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,771.00	2.31	18.74	8,697.57	456.69	533.44	-422.61	0.75	-0.68	-6.65	
8,866.00	1.88	7.20	8,792.50	460.05	534.25	-425.92	0.63	-0.45	-12.15	
8,961.00	2.44	23.61	8,887.44	463.45	535.25	-429.25	0.87	0.59	17.27	
9,055.00	3.10	43.64	8,981.33	467.12	537.81	-432.75	1.24	0.70	21.31	
9,150.00	2.70	40.45	9,076.21	470.68	541.03	-436.11	0.45	-0.42	-3.36	
9,244.00	2.33	40.67	9,170.12	473.82	543.71	-439.07	0.39	-0.39	0.23	
9,339.00	2.07	40.65	9,265.05	476.58	546.09	-441.68	0.27	-0.27	-0.02	
9,433.00	1.90	45.67	9,358.99	478.96	548.31	-443.92	0.26	-0.18	5.34	
9,528.00	1.50	58.90	9,453.95	480.70	550.50	-445.52	0.59	-0.42	13.93	
9,623.00	1.94	90.92	9,548.91	481.32	553.17	-445.97	1.09	0.46	33.71	
9,718.00	2.14	101.40	9,643.85	480.94	556.52	-445.38	0.44	0.21	11.03	
9,813.00	2.12	108.34	9,738.78	480.04	559.93	-444.27	0.27	-0.02	7.31	
9,907.00	2.32	116.56	9,832.71	478.64	563.28	-442.67	0.40	0.21	8.74	
10,002.00	2.25	121.23	9,927.64	476.82	566.59	-440.64	0.21	-0.07	4.92	
10,097.00	2.34	146.98	10,022.56	474.22	569.24	-437.88	1.08	0.09	27.11	
10,191.00	2.11	146.33	10,116.49	471.17	571.25	-434.72	0.25	-0.24	-0.69	
10,286.00	2.31	149.04	10,211.42	468.08	573.20	-431.50	0.24	0.21	2.85	
10,380.00	2.22	139.25	10,305.35	465.07	575.37	-428.37	0.42	-0.10	-10.41	
10,475.00	0.25	0.76	10,400.33	463.88	576.57	-427.11	2.54	-2.07	-145.78	
10,569.00	0.22	146.24	10,494.32	463.94	576.67	-427.16	0.48	-0.03	154.77	
10,664.00	0.55	97.84	10,589.32	463.73	577.23	-426.91	0.46	0.35	-50.95	
10,759.00	1.56	56.41	10,684.31	464.38	578.76	-427.47	1.27	1.06	-43.61	
10,838.00	1.11	45.84	10,763.28	465.51	580.20	-428.50	0.65	-0.57	-13.38	
10,933.00	8.38	162.85	10,857.96	459.52	582.91	-422.36	9.41	7.65	123.17	
11,027.00	22.34	170.81	10,948.39	435.22	587.81	-397.80	14.99	14.85	8.47	
11,122.00	32.72	173.31	11,032.52	391.77	593.70	-354.07	10.99	10.93	2.63	
11,217.00	40.37	174.47	11,108.78	335.57	599.66	-297.60	8.09	8.05	1.22	
11,311.00	45.74	174.41	11,177.44	271.72	605.88	-233.49	5.71	5.71	-0.06	
11,406.00	54.85	173.52	11,238.07	199.12	613.59	-160.55	9.62	9.59	-0.94	
11,485.60	57.34	172.42	11,282.47	133.56	621.69	-94.62	3.33	3.13	-1.39	
SL: 11485.60' MD, 57.34° Inc, 172.42° Azm										
11,501.00	57.82	172.21	11,290.73	120.67	623.43	-81.65	3.33	3.13	-1.34	
11,596.00	56.21	173.25	11,342.45	41.63	633.52	-2.13	1.93	-1.69	1.09	
11,605.67	56.85	174.08	11,347.78	33.62	634.41	5.92	9.81	6.67	8.62	
FTP: 11605.67' MD, 56.85° Inc, 174.08° Azm										
11,691.00	62.76	180.95	11,390.71	-39.98	637.47	79.56	9.81	6.92	8.05	
11,786.00	77.12	182.17	11,423.21	-128.94	635.00	168.20	15.16	15.12	1.28	
11,880.00	85.63	180.38	11,437.30	-221.77	632.95	260.72	9.25	9.05	-1.90	
11,975.00	87.51	174.41	11,442.99	-316.45	637.26	355.49	6.58	1.98	-6.28	
11,996.00	87.15	173.57	11,443.97	-337.31	639.46	376.45	4.35	-1.71	-4.00	
12,086.00	86.50	172.19	11,448.95	-426.48	650.60	466.13	1.69	-0.72	-1.53	
12,181.00	90.12	175.58	11,451.75	-520.87	660.71	560.97	5.22	3.81	3.57	
12,276.00	92.29	177.13	11,449.76	-615.65	666.74	655.94	2.81	2.28	1.63	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,370.00	95.09	180.05	11,443.71	-709.40	669.06	749.66	4.30	2.98	3.11
12,465.00	94.47	181.50	11,435.79	-804.06	667.77	844.05	1.66	-0.65	1.53
12,559.00	94.61	176.48	11,428.34	-897.72	669.43	937.64	5.33	0.15	-5.34
12,653.00	93.49	173.49	11,421.70	-991.12	677.62	1,031.36	3.39	-1.19	-3.18
12,748.00	87.82	173.94	11,420.62	-1,085.50	688.02	1,126.21	5.99	-5.97	0.47
12,843.00	82.87	176.57	11,428.33	-1,179.82	695.85	1,220.84	5.90	-5.21	2.77
12,937.00	85.13	180.81	11,438.16	-1,273.26	697.98	1,314.22	5.09	2.40	4.51
13,032.00	88.44	183.63	11,443.48	-1,368.01	694.31	1,408.56	4.57	3.48	2.97
13,126.00	93.44	187.72	11,441.94	-1,461.49	685.02	1,501.28	6.87	5.32	4.35
13,260.00	99.81	191.67	11,426.48	-1,592.61	662.65	1,630.75	5.58	4.75	2.95
13,355.00	97.96	189.35	11,411.81	-1,684.88	645.54	1,721.78	3.10	-1.95	-2.44
13,450.00	94.96	186.50	11,401.12	-1,778.36	632.53	1,814.27	4.34	-3.16	-3.00
13,544.00	93.68	185.34	11,394.04	-1,871.59	622.86	1,906.72	1.84	-1.36	-1.23
13,639.00	91.86	183.12	11,389.45	-1,966.21	615.87	2,000.72	3.02	-1.92	-2.34
13,734.00	88.62	179.66	11,389.05	-2,061.15	613.56	2,095.33	4.99	-3.41	-3.64
13,828.00	90.57	181.03	11,389.71	-2,155.14	613.00	2,189.11	2.54	2.07	1.46
13,923.00	89.34	181.01	11,389.79	-2,250.12	611.31	2,283.80	1.29	-1.29	-0.02
14,018.00	89.52	180.65	11,390.73	-2,345.11	609.93	2,378.52	0.42	0.19	-0.38
14,113.00	88.74	180.02	11,392.18	-2,440.10	609.37	2,473.28	1.06	-0.82	-0.66
14,207.00	89.76	181.30	11,393.41	-2,534.08	608.29	2,567.02	1.74	1.09	1.36
14,301.00	87.97	182.01	11,395.27	-2,628.02	605.58	2,660.60	2.05	-1.90	0.76
14,396.00	87.28	181.45	11,399.21	-2,722.89	602.71	2,755.12	0.94	-0.73	-0.59
14,490.00	88.96	178.51	11,402.29	-2,816.83	602.75	2,848.87	3.60	1.79	-3.13
14,585.00	89.89	173.69	11,403.24	-2,911.57	609.21	2,943.84	5.17	0.98	-5.07
14,680.00	88.90	170.85	11,404.25	-3,005.69	621.98	3,038.57	3.17	-1.04	-2.99
14,775.00	89.37	174.93	11,405.68	-3,099.93	633.74	3,133.36	4.32	0.49	4.29
14,869.00	92.16	178.31	11,404.43	-3,193.74	639.28	3,227.32	4.66	2.97	3.60
14,964.00	90.68	173.33	11,402.07	-3,288.42	646.20	3,322.26	5.47	-1.56	-5.24
15,059.00	88.60	173.16	11,402.67	-3,382.76	657.37	3,417.10	2.20	-2.19	-0.18
15,153.00	85.83	175.97	11,407.24	-3,476.20	666.27	3,510.92	4.19	-2.95	2.99
15,248.00	87.15	179.23	11,413.05	-3,570.93	670.23	3,605.71	3.70	1.39	3.43
15,342.00	84.84	180.59	11,419.62	-3,664.69	670.38	3,699.30	2.85	-2.46	1.45
15,437.00	81.72	183.04	11,430.74	-3,758.97	667.40	3,793.21	4.16	-3.28	2.58
15,532.00	83.70	187.01	11,442.79	-3,852.82	659.14	3,886.36	4.64	2.08	4.18
15,626.00	86.26	189.63	11,451.02	-3,945.45	645.59	3,977.98	3.89	2.72	2.79
15,721.00	91.56	191.45	11,452.83	-4,038.80	628.22	4,070.06	5.90	5.58	1.92
15,816.00	94.39	187.51	11,447.89	-4,132.34	612.60	4,162.45	5.10	2.98	-4.15
15,910.00	96.03	183.88	11,439.36	-4,225.47	603.31	4,254.82	4.22	1.74	-3.86
16,005.00	94.30	181.21	11,430.80	-4,319.98	599.11	4,348.89	3.34	-1.82	-2.81
16,100.00	92.08	178.11	11,425.52	-4,414.82	599.67	4,443.57	4.01	-2.34	-3.26
16,195.00	91.78	177.91	11,422.32	-4,509.70	602.97	4,538.48	0.38	-0.32	-0.21
16,289.00	92.08	177.19	11,419.15	-4,603.56	606.99	4,632.41	0.83	0.32	-0.77
16,384.00	91.79	176.73	11,415.94	-4,698.38	612.02	4,727.35	0.57	-0.31	-0.48
16,479.00	88.51	175.40	11,415.69	-4,793.14	618.54	4,822.34	3.73	-3.45	-1.40



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,574.00	88.08	175.18	11,418.52	-4,887.77	626.34	4,917.27	0.51	-0.45	-0.23
16,669.00	86.65	174.74	11,422.89	-4,982.30	634.67	5,012.14	1.57	-1.51	-0.46
16,763.00	87.14	177.96	11,427.98	-5,075.96	640.65	5,105.99	3.46	0.52	3.43
16,837.13	85.51	181.33	11,432.74	-5,149.93	641.11	5,179.84	5.04	-2.20	4.54
SL: 16837.13' MD, 85.51° Inc, 181.33° Azm									
16,858.00	85.05	182.28	11,434.45	-5,170.71	640.45	5,200.55	5.04	-2.19	4.56
16,953.00	86.40	186.66	11,441.54	-5,265.14	633.07	5,294.32	4.81	1.42	4.61
17,048.00	89.58	187.72	11,444.87	-5,359.32	621.19	5,387.58	3.53	3.35	1.12
17,142.00	93.23	186.86	11,442.57	-5,452.51	609.26	5,479.86	3.99	3.88	-0.91
17,237.00	91.20	180.83	11,438.89	-5,547.18	602.91	5,573.94	6.69	-2.14	-6.35
17,332.00	90.05	179.72	11,437.85	-5,642.17	602.45	5,668.72	1.68	-1.21	-1.17
17,427.00	90.14	179.98	11,437.70	-5,737.17	602.70	5,763.55	0.29	0.09	0.27
17,522.00	90.75	180.49	11,436.96	-5,832.16	602.31	5,858.34	0.84	0.64	0.54
17,617.00	90.18	177.80	11,436.19	-5,927.14	603.73	5,953.22	2.89	-0.60	-2.83
17,711.00	89.51	178.43	11,436.44	-6,021.09	606.82	6,047.18	0.98	-0.71	0.67
17,806.00	89.37	179.41	11,437.37	-6,116.07	608.61	6,142.09	1.04	-0.15	1.03
17,901.00	89.96	180.91	11,437.93	-6,211.06	608.34	6,236.88	1.70	0.62	1.58
17,995.00	89.93	180.08	11,438.02	-6,305.06	607.53	6,330.64	0.88	-0.03	-0.88
18,090.00	91.05	177.46	11,437.20	-6,400.02	609.57	6,425.55	3.00	1.18	-2.76
18,184.00	91.50	177.22	11,435.11	-6,493.90	613.93	6,519.51	0.54	0.48	-0.26
18,279.00	90.89	178.52	11,433.13	-6,588.81	617.46	6,614.46	1.51	-0.64	1.37
18,374.00	91.40	176.35	11,431.23	-6,683.69	621.71	6,709.42	2.35	0.54	-2.28
18,469.00	90.99	176.91	11,429.25	-6,778.50	627.29	6,804.40	0.73	-0.43	0.59
18,563.00	89.45	178.84	11,428.89	-6,872.43	630.78	6,898.36	2.63	-1.64	2.05
18,658.00	89.26	179.76	11,429.96	-6,967.42	631.94	6,993.24	0.99	-0.20	0.97
18,752.00	90.39	180.24	11,430.25	-7,061.41	631.94	7,087.05	1.31	1.20	0.51
18,847.00	90.40	178.04	11,429.59	-7,156.40	633.37	7,181.94	2.32	0.01	-2.32
18,942.00	90.66	177.33	11,428.71	-7,251.31	637.20	7,276.91	0.80	0.27	-0.75
19,037.00	89.04	178.32	11,428.96	-7,346.24	640.81	7,371.88	2.00	-1.71	1.04
19,131.00	91.42	181.33	11,428.58	-7,440.22	641.10	7,465.69	4.08	2.53	3.20
19,226.00	88.32	178.89	11,428.80	-7,535.20	640.91	7,560.48	4.15	-3.26	-2.57
19,321.00	90.21	181.81	11,430.02	-7,630.18	640.33	7,655.24	3.66	1.99	3.07
19,415.00	90.66	180.42	11,429.30	-7,724.16	638.50	7,748.92	1.55	0.48	-1.48
19,510.00	89.85	178.71	11,428.88	-7,819.15	639.23	7,843.77	1.99	-0.85	-1.80
19,605.00	89.07	179.19	11,429.78	-7,914.13	640.97	7,938.67	0.96	-0.82	0.51
19,700.00	89.64	180.14	11,430.85	-8,009.12	641.52	8,033.51	1.17	0.60	1.00
19,794.00	91.27	178.79	11,430.10	-8,103.10	642.40	8,127.37	2.25	1.73	-1.44
19,889.00	91.46	179.24	11,427.84	-8,198.06	644.03	8,222.25	0.51	0.20	0.47
19,984.00	90.84	179.10	11,425.93	-8,293.03	645.41	8,317.12	0.67	-0.65	-0.15
20,079.00	89.03	181.44	11,426.04	-8,388.02	644.96	8,411.90	3.11	-1.91	2.46
20,173.00	90.60	182.50	11,426.34	-8,481.96	641.73	8,505.46	2.02	1.67	1.13
20,268.00	90.87	183.03	11,425.12	-8,576.84	637.15	8,599.87	0.63	0.28	0.56
20,362.00	89.44	180.52	11,424.87	-8,670.79	634.23	8,693.45	3.07	-1.52	-2.67



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 7H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3371.50usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3371.50usft (H&P 466)
Well:	Arkenstone 31 Federal 7H	North Reference:	Grid
Wellbore:	OH / 70336	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,457.00	90.79	181.71	11,424.68	-8,765.77	632.39	8,788.13	1.89	1.42	1.25
20,552.00	90.53	180.33	11,423.58	-8,860.74	630.70	8,882.82	1.48	-0.27	-1.45
20,646.00	90.50	179.98	11,422.74	-8,954.74	630.44	8,976.61	0.37	-0.03	-0.37
20,741.00	89.48	177.55	11,422.76	-9,049.71	632.49	9,071.53	2.77	-1.07	-2.56
20,836.00	90.57	178.51	11,422.71	-9,144.65	635.75	9,166.49	1.53	1.15	1.01
20,930.00	89.62	179.32	11,422.56	-9,238.63	637.53	9,260.40	1.33	-1.01	0.86
21,025.00	91.03	181.13	11,422.02	-9,333.62	637.16	9,355.18	2.42	1.48	1.91
21,119.00	92.56	181.84	11,419.07	-9,427.54	634.73	9,448.77	1.79	1.63	0.76
21,214.00	91.68	180.07	11,415.56	-9,522.46	633.14	9,543.40	2.08	-0.93	-1.86
21,308.00	91.59	180.96	11,412.88	-9,616.41	632.30	9,637.12	0.95	-0.10	0.95
21,403.00	90.76	183.98	11,410.93	-9,711.29	628.21	9,731.56	3.30	-0.87	3.18
21,498.00	91.06	181.99	11,409.42	-9,806.15	623.26	9,825.93	2.12	0.32	-2.09
21,593.00	90.39	179.91	11,408.22	-9,901.12	621.69	9,920.62	2.30	-0.71	-2.19
21,688.00	91.70	181.69	11,406.49	-9,996.09	620.36	10,015.32	2.33	1.38	1.87
21,783.00	92.95	182.19	11,402.63	-10,090.96	617.15	10,109.80	1.42	1.32	0.53
21,877.00	91.04	179.71	11,399.36	-10,184.87	615.59	10,203.44	3.33	-2.03	-2.64
21,972.00	90.26	177.45	11,398.28	-10,279.83	617.94	10,298.36	2.52	-0.82	-2.38
22,030.58	90.60	178.03	11,397.84	-10,338.36	620.26	10,356.93	1.14	0.58	0.98
LTP: 22030.58' MD, 90.60° Inc, 178.03° Azm									
22,032.00	90.61	178.04	11,397.83	-10,339.78	620.31	10,358.34	1.14	0.58	0.98
Final Phoenix MWD Survey									
22,076.00	90.61	178.04	11,397.36	-10,383.76	621.81	10,402.33	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
392.96	392.96	-0.29	-0.55	Tie In
528.00	528.00	-0.36	-0.80	First Phoenix MWD Survey
11,485.60	11,282.47	133.56	621.69	SL: 11485.60' MD, 57.34° Inc, 172.42° Azm
11,605.67	11,347.78	33.62	634.41	FTP: 11605.67' MD, 56.85° Inc, 174.08° Azm
16,837.13	11,432.74	-5,149.93	641.11	SL: 16837.13' MD, 85.51° Inc, 181.33° Azm
22,030.58	11,397.84	-10,338.36	620.26	LTP: 22030.58' MD, 90.60° Inc, 178.03° Azm
22,032.00	11,397.83	-10,339.78	620.31	Final Phoenix MWD Survey
22,076.00	11,397.36	-10,383.76	621.81	Projection to TD

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-015-46321
5. Indicate Type of Lease- FED STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL COM
8. Well Number- 7H
9. OGRID Number- 16696
10. Pool name or Wildcat PURPLE SAGE WOLFCAMP / WC-015 G-08 S233135; WOLFCAMP
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3347' GL

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator- OXY USA INC.	
3. Address of Operator- P.O. BOX 50250 MIDLAND, TX 79710	
4. Well Location Unit Letter ___ L1 ___: ___ 130 ___ feet from the ___ NORTH ___ line and ___ 965 ___ feet from the ___ WEST ___ line Section 31 Township 23S Range 31E NMPM County- EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3347' GL	

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

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

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

RUPU 10/26/22, RIH & clean out to PBTD @ 22031', pressure test casing to 6000# for 30 min, good test. RIH & perf @ 11668-21946' Total 1230 holes. Frac in 41 stages w/ 353896BBL Produced Water + 8347BBL Brackish Water (> 1,000 mg/I TDS and < 10,000 mg/I TDS) w/ 25697930# sand, RD NexTier 11/16/22. Well ready to produce 11/21/22. 02/09/23 RIH with 2-3/8" L80 tbg & gas lift set @ 11255', RD 02/10/23.

Formation Tops for this completion are as follows:

Rustler	342'M	342'V
Salado	680'M	680'V
Castile	1980'M	1980'V
Delaware	3999'M	3999'V
Bell Canyon	4134'M	4134'V
Cherry Canyon	4976'M	4976'V
Brushy Canyon	6269'M	6245'V
Bone Spring	7957'M	7889'V
1st Bone Spring	8999'M	8924'V
2nd Bone Spring	9671'M	9596'V
3rd Bone Spring	10981'M	10904'V
Wolfcamp	11532'M	11307'V

Spud Date:

Rig Release Date:

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

SIGNATURE



TITLE

SR. REGULATORY ANALYST

DATE

03-14-23

Type or print name

JANA MENDIOLA

E-mail address:

janalyn_mendiola@oxy.com

PHONE: 432-685-5936

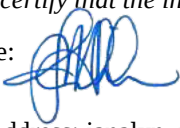
For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017													
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL COM										
								6. Well Number: 7H										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
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 PURPLE SAGE WOLFCAMP												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	D	31	23S	31E		130	NORTH	965	WEST	EDDY								
BH:	N	6	24S	31E		55	SOUTH	1542	WEST	EDDY								
13. Date Spudded 07/8/2022	14. Date T.D. Reached 10/15/2022		15. Date Rig Released 10/19/2022			16. Date Completed (Ready to Produce) 11/21/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3347' GL										
18. Total Measured Depth of Well 22076'M 11398'V			19. Plug Back Measured Depth 22031'M 11397'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 16843-21946' 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		406'		17.5"		460sx-surf circ										
9.625" HCL80		40		4175'		12.25"		1140sx-surf circ										
7.625" HCL80		29.7		10808'		8.75"		952sx-surf circ										
5.5" P110 ICY		20		22056'		6.75"		990sx-TOC@8496'										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET											
					2-3/8"	11255'												
26. Perforation record (interval, size, and number) Perf @ 16843-21946' Total 615 holes, Hole Size=0.42					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DEPTH INTERVAL</td> <td style="width:50%;">AMOUNT AND KIND MATERIAL USED</td> </tr> <tr> <td>16843-21946'</td> <td>353896BBL Produced Water + 8347BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 25697930# sand</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	16843-21946'	353896BBL Produced Water + 8347BBL Brackish Water (> 1,000 mg/l TDS and < 10,000 mg/l TDS) w/ 25697930# sand				
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28. PRODUCTION																		
Date First Production 11/24/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas lift				Well Status (Prod. or Shut-in) Prod.												
Date of Test 12/10/2022	Hours Tested 24 hrs.	Choke Size 128/128	Prod'n For Test Period	Oil - Bbl 2009	Gas - MCF 3754	Water - Bbl. 4637	Gas - Oil Ratio 1869											
Flow Tubing Press.	Casing Pressure 1332	Calculated 24- Hour Rate	Oil - Bbl. 2009	Gas - MCF 3754	Water - Bbl. 4637	Oil Gravity - API - (Corr.)												
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD								30. Test Witnessed By										
31. List Attachments WBD																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:										
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude _____ Longitude _____ NAD83																		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																		
Printed																		
Signature: 		Name: <u>Jana Mendiola</u>			Title: <u>Sr. Regulatory Analyst</u>			Date: <u>03/15/2023</u>										
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 342'	T. Bell Canyon 4134'	T. Ojo Alamo	T. Penn A"
T. Salado 680'	T. Strawn	T. Kirtland	T. Penn. "B"
T. Castile 1980'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Delaware 3999'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Cherry Canyon 4976'	T. Devonian	T. Cliff House	T. Leadville
T. Brushy Canyon 6269'	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
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T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Spring 7957'	T. Todilto	
T. Abo	T. 1 st Bone Spring 8999'	T. Entrada	
T. Wolfcamp 11532'	T. 2 nd Bone Spring 9671'	T. Wingate	
T. Penn	T. 3 rd Bone Spring 10981'	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

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

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

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

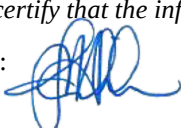
No. 4, from.....to.....

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.....
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From	To	Thickness In Feet	Lithology

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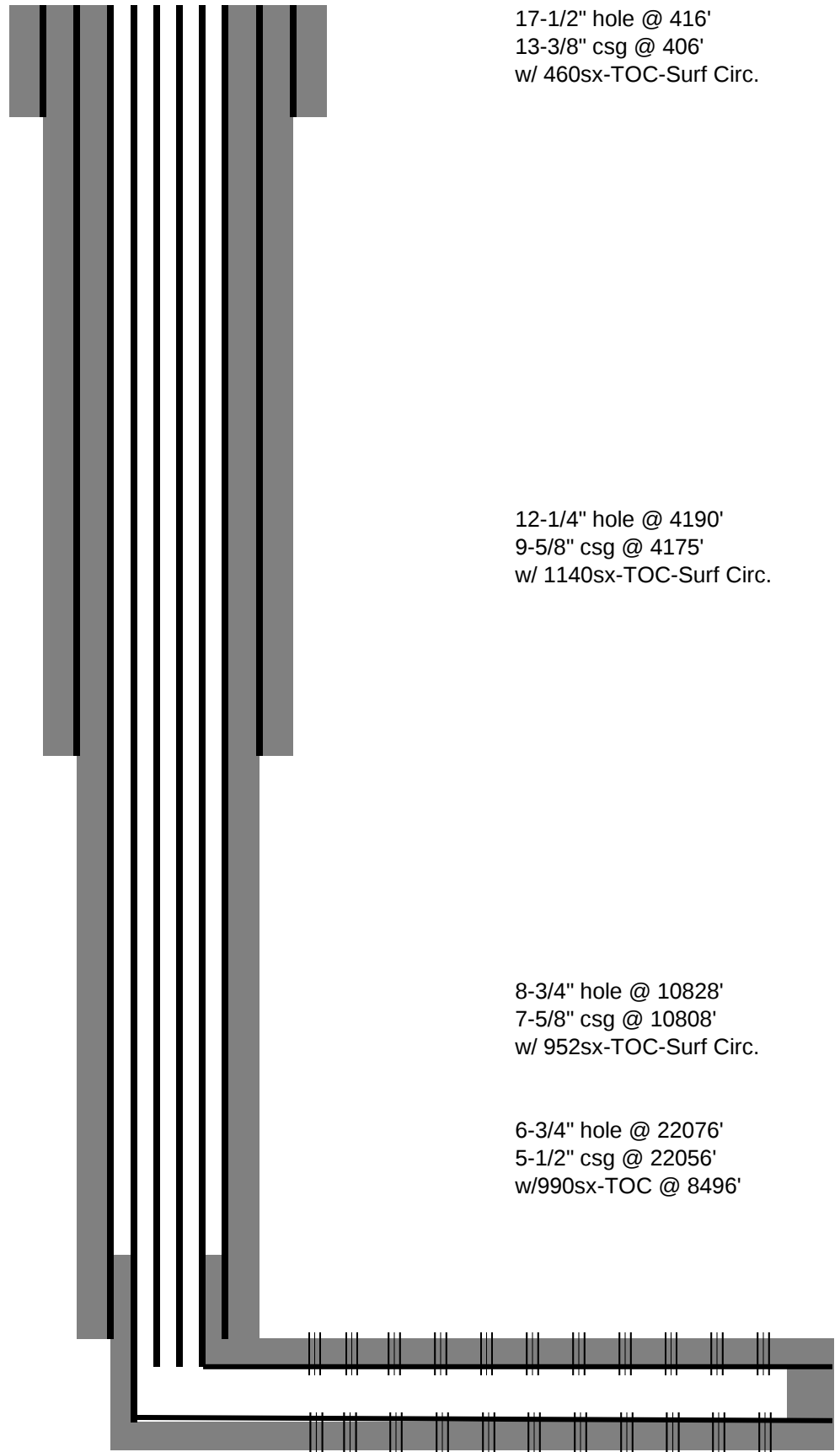
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From	To	Thickness In Feet	Lithology

OXY USA Inc.
ARKENSTONE 31 FEDERAL COM 7H
API No. 30-015-46321



2-3/8" tbg & gas lift @ 11255'

Perfs @ 11668-21946'

TD- 22076'M 11398'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 197605

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197605
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 197605

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197605
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

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