

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 30-015-46677	⁵ Pool Name PURPLE SAGE WOLFCAMP <i>*NSL-8400</i>	⁶ Pool Code 98220
⁷ Property Code: 326150	⁸ Property Name: Arkenstone 31 Federal	⁹ Well Number: 2H

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 930	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location FTP: 171' FNL 967' FWL LTP: 159' FSL 936' FWL

UL or lot no. M	Section 6	Township 24S	Range 31E	Lot Idn	Feet from the 48	North/South line SOUTH	Feet from the 933	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 07/07/22	²² Ready Date 11/21/22	²³ TD 21992'M 11465'V	²⁴ PBSD 21949'M 11464'V	²⁵ Perforations 16763-21881'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8"		385'	460
12-1/4"		9-5/8"		4171'	1202
8-3/4"		7-5/8"		10530'	793
6-3/4"		5-1/2"		21972'	990

V. Well Test Data 2-3/8" TBG 11236'

³¹ Date New Oil 11/25/22	³² Gas Delivery Date 11/23/22	³³ Test Date 12/10/22	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1402
³⁷ Choke Size 88/128	³⁸ Oil 2150	³⁹ Water 4791	⁴⁰ Gas 4048		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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		³ Reason for Filing Code/ Effective Date - NW- 11/21/2022
⁴ API Number 30-015-46677	⁵ Pool Name WC-015 G-08 S233135; WOLFCAMP *NSL-8400	⁶ Pool Code 98236
⁷ Property Code: 326150	⁸ Property Name: Arkenstone 31 Federal	⁹ Well Number: 2H

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 930	East/West line WEST	County EDDY
--------------------	---------------	-----------------	--------------	---------	----------------------	---------------------------	----------------------	------------------------	----------------

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²¹ Spud Date 07/07/22	²² Ready Date 11/21/22	²³ TD 21992'M 11465'V	²⁴ PBTB 21949'M 11464'V	²⁵ Perforations 11613-16739'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8"		385'	460
12-1/4"		9-5/8"		4171'	1202
8-3/4"		7-5/8"		10530'	793
6-3/4"		5-1/2"		21972'	990

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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

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

State of New Mexico
 Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
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 Santa Fe, NM 87505

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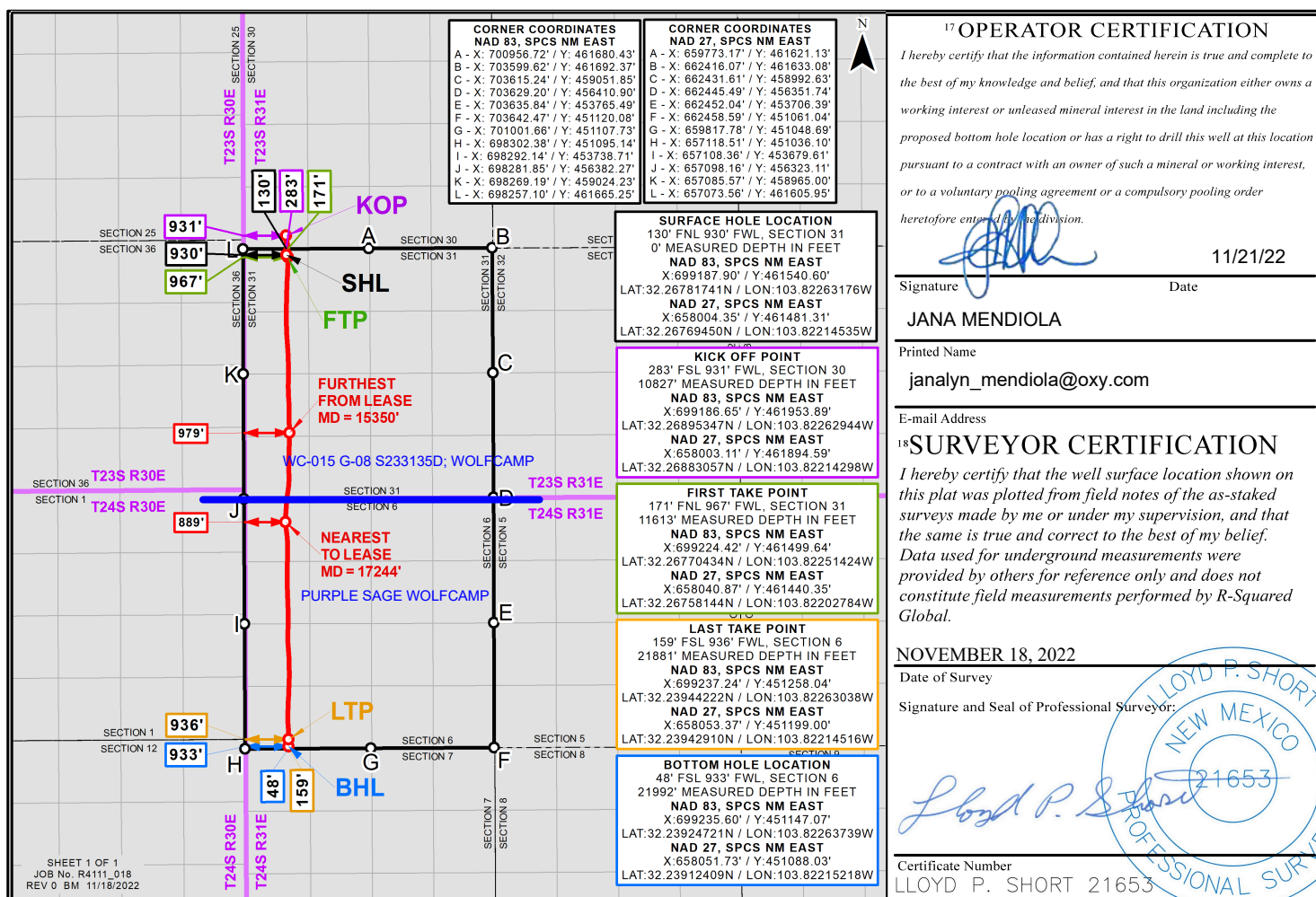
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46677	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 2H
		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	930	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 7	6	24S	31E		48	SOUTH	933	WEST	EDDY
¹² Dedicated Acres 649.29	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8400						

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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WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46677	² Pool Code 98236	³ Pool Name WC-015 G-08 S233135; WOLFCAMP
⁴ Property Code 326150	Property Name ARKENSTONE 31 FEDERAL	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁶ Well Number 2H
		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	930	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 7	6	24S	31E		48	SOUTH	933	WEST	EDDY
¹² Dedicated Acres 647.8	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8400						

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.

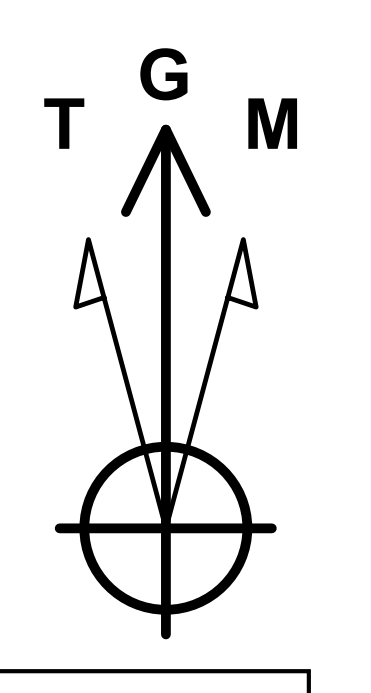
CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 700956.72' / Y: 461680.43' B - X: 703599.62' / Y: 461692.37' C - X: 703615.24' / Y: 459051.85' D - X: 703629.20' / Y: 456410.90' E - X: 703635.84' / Y: 453765.49' F - X: 703642.47' / Y: 451120.08' G - X: 701001.66' / Y: 451107.73' H - X: 698302.38' / Y: 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: 456351.74' 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' FNL 930' FWL, SECTION 31 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699187.90' / Y: 461540.60' LAT: 32.26781741N / LON: 103.82263176W NAD 27, SPCS NM EAST X: 658004.35' / Y: 461481.31' LAT: 32.26769450N / LON: 103.82214535W		KICK OFF POINT 283' FSL 931' FWL, SECTION 30 10827' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699186.65' / Y: 461953.89' LAT: 32.26895347N / LON: 103.82262944W NAD 27, SPCS NM EAST X: 658003.11' / Y: 461894.59' LAT: 32.26883057N / LON: 103.82214298W	FIRST TAKE POINT 171' FNL 967' FWL, SECTION 31 11613' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699224.42' / Y: 461499.64' LAT: 32.26770434N / LON: 103.82251424W NAD 27, SPCS NM EAST X: 658040.87' / Y: 461440.35' LAT: 32.26758144N / LON: 103.82202784W	LAST TAKE POINT 159' FSL 936' FWL, SECTION 6 21881' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699237.24' / Y: 451258.04' LAT: 32.23944222N / LON: 103.82263038W NAD 27, SPCS NM EAST X: 658053.37' / Y: 451199.00' LAT: 32.23942910N / LON: 103.82214516W	BOTTOM HOLE LOCATION 48' FSL 933' FWL, SECTION 6 21992' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699235.60' / Y: 451147.07' LAT: 32.23924721N / LON: 103.82263739W NAD 27, SPCS NM EAST X: 658051.73' / Y: 451088.03' LAT: 32.23912409N / LON: 103.82215218W					
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 by the division. Signature: <i>[Signature]</i> 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: <i>[Signature]</i> Certificate Number: LOYD P. SHORT 21653													
19 DISTANCES/AREAS 931' KOP 930' SHL 967' FTP 979' FURTHEST FROM LEASE MD = 15350' 889' NEAREST TO LEASE MD = 17244' 936' LTP 933' BHL													
20 DISTANCES/AREAS 130' FNL 930' FWL, SECTION 31 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699187.90' / Y: 461540.60' LAT: 32.26781741N / LON: 103.82263176W NAD 27, SPCS NM EAST X: 658004.35' / Y: 461481.31' LAT: 32.26769450N / LON: 103.82214535W													
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24 DISTANCES/AREAS 48' FSL 933' FWL, SECTION 6 21992' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 699235.60' / Y: 451147.07' LAT: 32.23924721N / LON: 103.82263739W NAD 27, SPCS NM EAST X: 658051.73' / Y: 451088.03' LAT: 32.23912409N / LON: 103.82215218W													

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

RKB @ 3372.40usft (H&P 466)
Ground Level: 3347.40



Project: Eddy County, NM (NAD83-NME)
Site: Arkenstone 31
Well: Arkenstone 31 Federal 2H
Wellbore: OH / 70335
Design: Plan 2 08-11-22
Rig: H&P 466



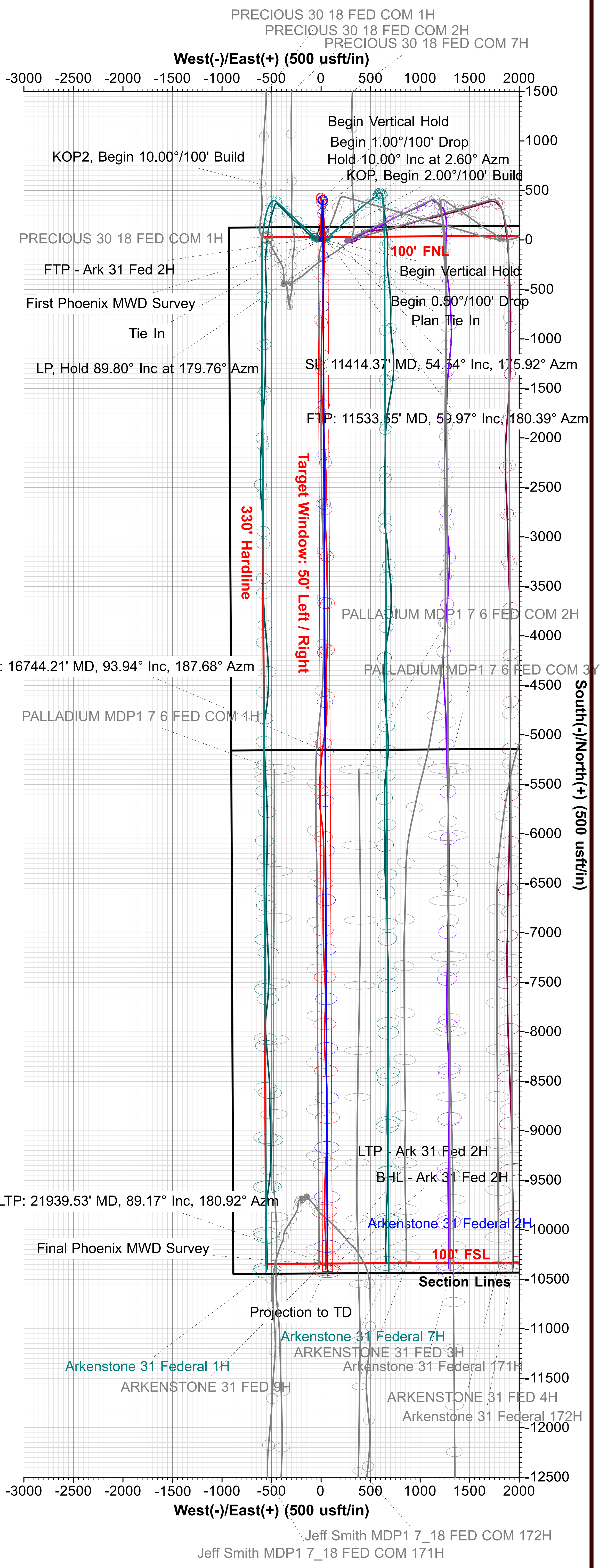
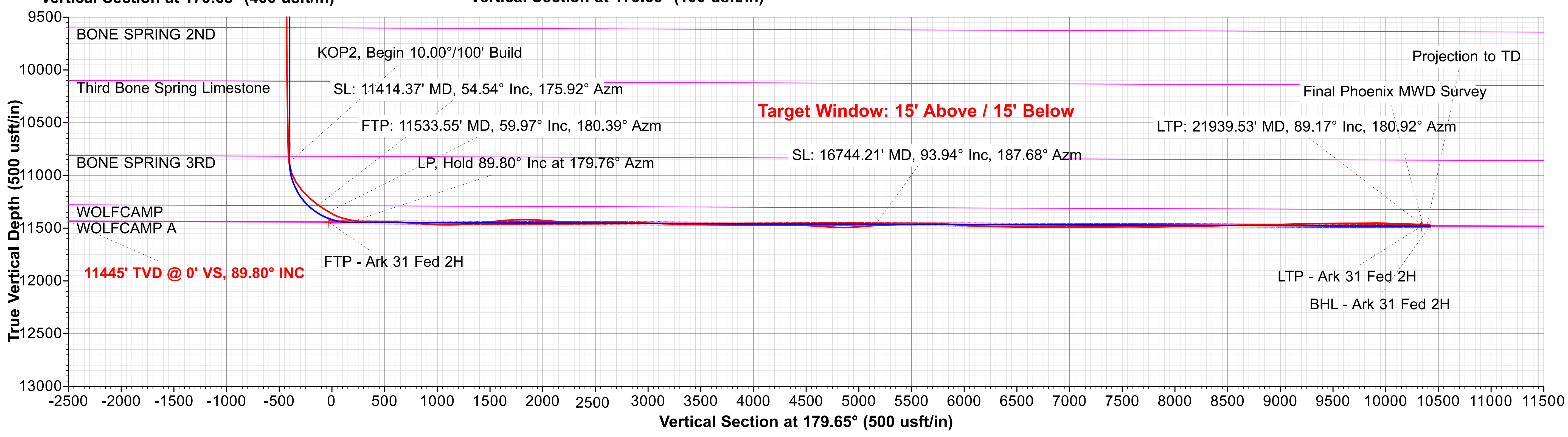
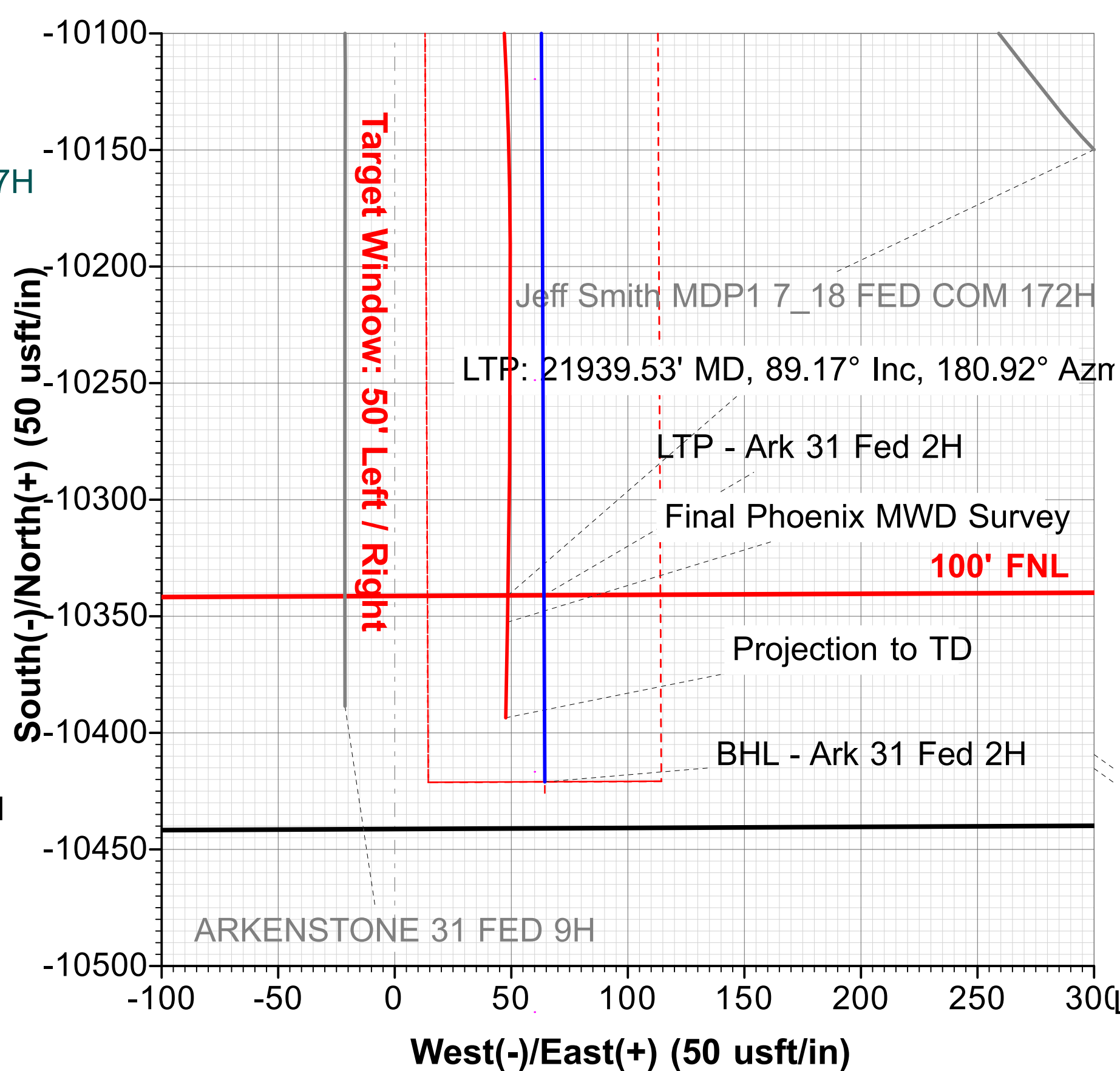
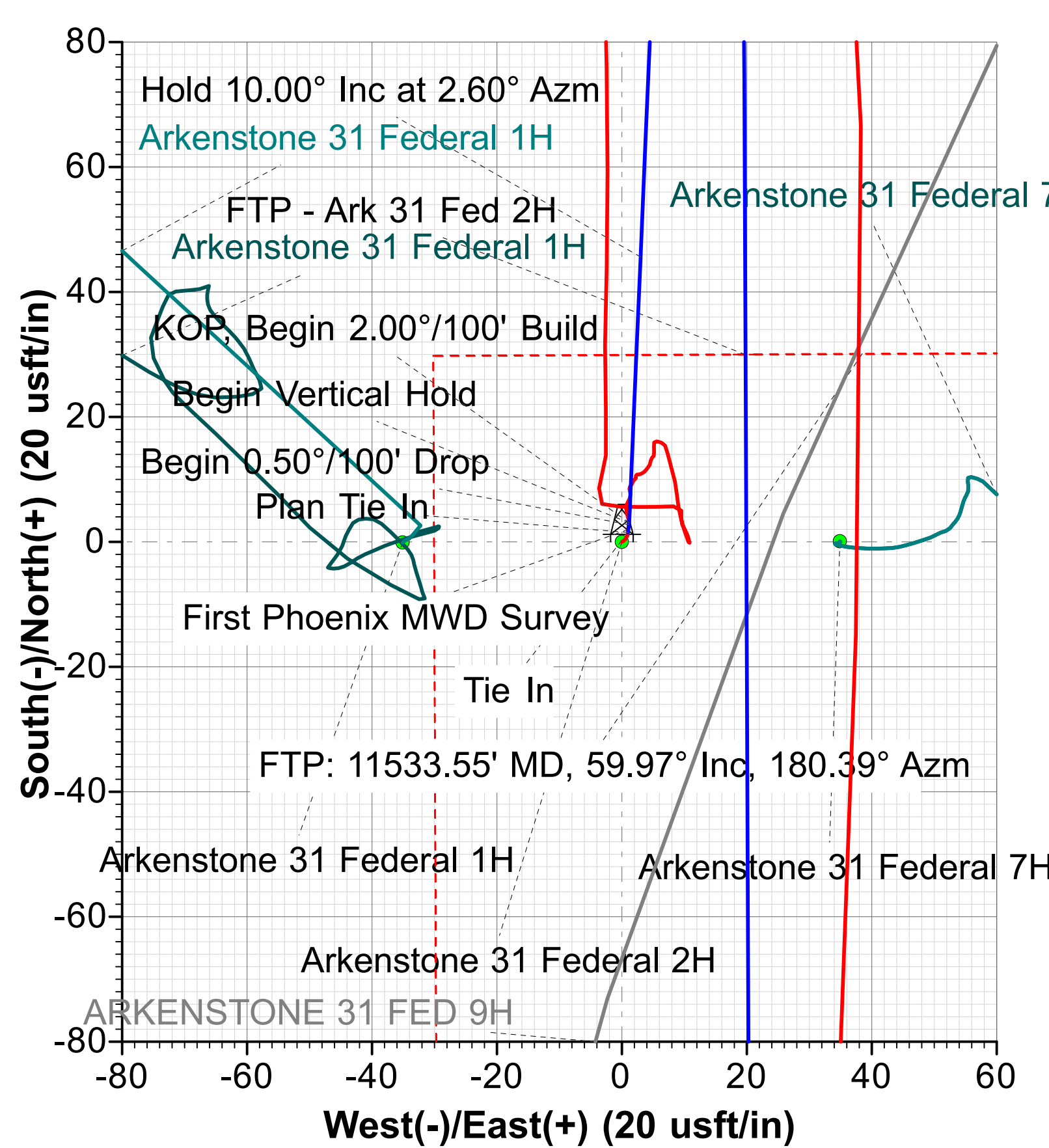
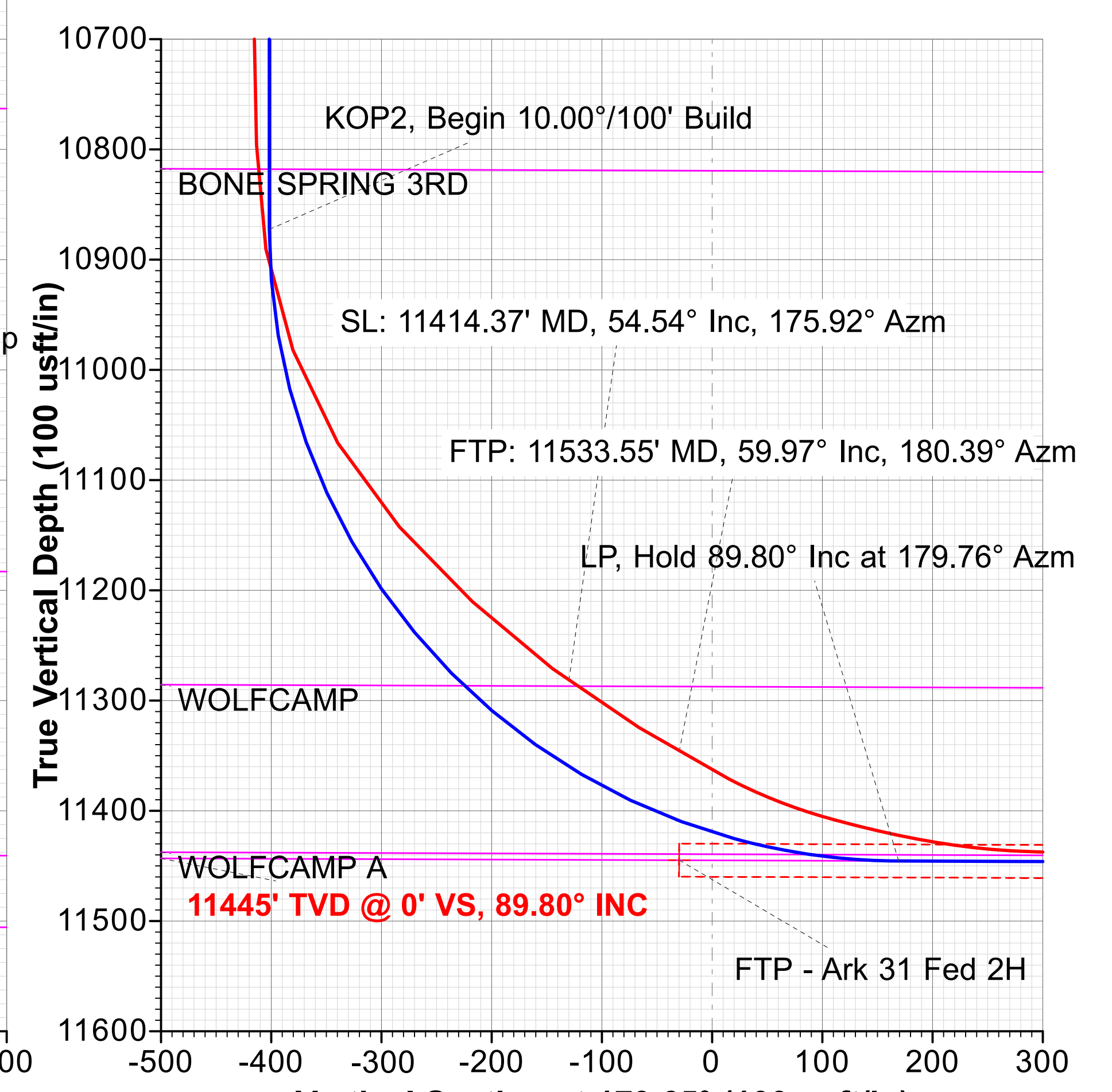
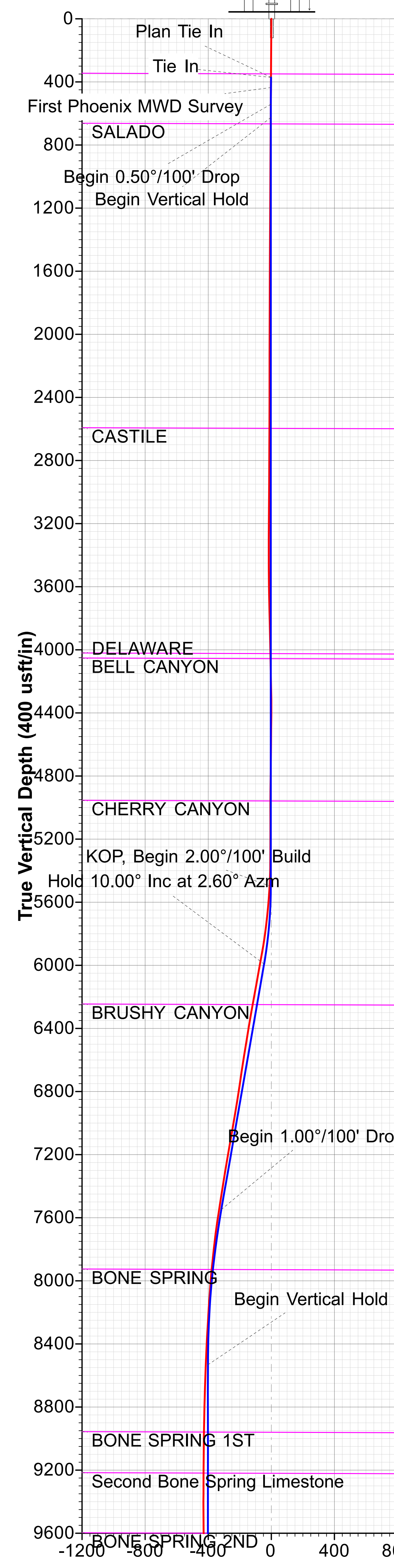
Azimuths to Grid North
True North: -0.27°
Magnetic North: 6.47°
Magnetic Field
Strength: 47618.4nT
Dip Angle: 59.91°
Date: 8/15/2022
Model: IFR

WELL DETAILS									
Ground Level: 3347.40									
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
	0.00	0.00	461540.60	699187.90	32° 16' 4.142668 N	103° 49' 21.474341 W			

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	371.96	0.42	7.32	371.95	1.51	0.99	0.00	0.000	-1.50
2	541.96	0.42	7.32	541.95	2.74	1.15	0.00	0.000	-2.74
3	625.96	0.00	0.00	625.95	3.05	1.19	0.50	180.000	-3.04
4	5500.01	0.00	0.00	5500.00	3.05	1.19	0.00	0.000	-3.04
5	5994.55	9.89	2.44	5992.08	45.59	3.01	2.00	2.445	-45.57
6	7574.41	9.89	2.44	7548.47	316.72	14.58	0.00	0.000	-316.62
7	8563.49	0.00	179.76	8532.64	401.80	18.21	1.00	180.000	-401.68
8	10903.49	0.00	179.76	10872.64	401.80	18.21	0.00	0.000	-401.68
9	11801.49	89.80	179.76	11445.59	-169.16	20.65	10.00	0.000	169.28
10	22053.49	89.80	179.76	11481.38	-10421.00	64.40	0.00	0.000	10421.20

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
349.40	349.40	RUSTLER
666.39	666.40	SALADO
2596.39	2596.40	CASTILE
4024.39	4024.40	DELAWARE
4056.39	4056.40	BELL CANYON
4958.39	4958.40	CHERRY CANYON
6249.08	6255.43	BRUSHY CANYON
7928.11	7957.83	BONE SPRING
8959.00	8989.85	BONE SPRING 1ST
9219.00	9249.85	Second Bone Spring Limestone
9600.00	9630.85	BONE SPRING 2ND
10107.00	10137.85	Third Bone Spring Limestone
10818.00	10848.85	BONE SPRING 3RD
11286.62	11366.12	WOLFCAMP
11439.71	11721.32	WOLFCAMP A

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 2H, Grid North
Latitude: 32° 16' 4.142668 N
Longitude: 103° 49' 21.474341 W
Grid East: 699187.90
Grid North: 461540.60
Scale Factor: 1.000
Geomagnetic Model: IFR
Sample Date: 15-Aug-22
Magnetic Declination: 6.747°
Dip Angle from Horizontal: 59.909°
Magnetic Field Strength: 47618.4000000nT
To convert a Magnetic Direction to a Grid Direction, Add 6.474°
To convert a Magnetic Direction to a True Direction, Add 6.747° 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 2H

OH / 70335

Design: Surveys (H&P 466)

Standard Survey Report

17 October, 2022





Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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 2H		
Well Position	+N/-S	0.00 usft	Northing: 461,540.60 usft
	+E/-W	0.00 usft	Easting: 699,187.90 usft
Position Uncertainty	1.00 usft		Wellhead Elevation: usft
			Latitude: 32° 16' 4.142668 N
			Longitude: 103° 49' 21.474341 W
			Ground Level: 3,347.40 usft

Wellbore	OH / 70335				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	8/15/2022	6.747	59.909	47,618.40000000

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	179.65	

Survey Program	Date	10/17/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	371.96	Gyrodata Gyro Surveys - Adj Surface (OH	GYD_G003_GC+DROP+I	Gyrodata Stationary Tool drop on BHA on open h
436.00	20,653.00	Phoenix mwd surveys - SQC R5 1 (OH / 7	SQC_C705a_MWD+IFR1	OWSG MWD + IFR1 + Sag + FDIR Correction
20,748.00	21,992.00	Phoenix MWD Surveys - SQC R5 2 (OH /	A005Mb_MWD+IFR1	OWSG MWD + IFR1

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	0.21	61.65	97.38	0.06	0.12	-0.06	0.29	0.29	0.00
124.79	0.32	51.13	124.79	0.13	0.22	-0.13	0.44	0.40	-38.38
209.31	0.42	43.47	209.31	0.51	0.62	-0.50	0.13	0.12	-9.06
301.56	0.36	12.30	301.56	1.04	0.91	-1.03	0.24	-0.07	-33.79
371.96	0.42	7.32	371.95	1.51	0.99	-1.50	0.10	0.09	-7.07
Tie In									
436.00	0.46	358.29	435.99	2.00	1.01	-1.99	0.12	0.06	-14.10

Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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									
527.00	0.50	13.90	526.99	2.75	1.10	-2.74	0.15	0.04	17.15
619.00	0.35	340.69	618.99	3.40	1.10	-3.40	0.31	-0.16	-36.10
717.00	0.47	348.98	716.98	4.08	0.93	-4.07	0.14	0.12	8.46
811.00	0.49	347.26	810.98	4.85	0.76	-4.85	0.03	0.02	-1.83
905.00	0.24	359.35	904.98	5.44	0.67	-5.44	0.28	-0.27	12.86
1,000.00	0.43	18.90	999.98	5.98	0.79	-5.97	0.23	0.20	20.58
1,094.00	0.27	35.15	1,093.98	6.49	1.03	-6.48	0.20	-0.17	17.29
1,188.00	0.45	22.21	1,187.97	7.01	1.29	-7.01	0.21	0.19	-13.77
1,283.00	0.23	345.61	1,282.97	7.54	1.39	-7.54	0.31	-0.23	-38.53
1,377.00	0.32	351.04	1,376.97	7.99	1.30	-7.98	0.10	0.10	5.78
1,472.00	0.32	351.16	1,471.97	8.51	1.22	-8.50	0.00	0.00	0.13
1,566.00	0.21	55.01	1,565.97	8.87	1.32	-8.86	0.31	-0.12	67.93
1,661.00	0.31	32.02	1,660.97	9.19	1.60	-9.18	0.15	0.11	-24.20
1,755.00	0.26	5.50	1,754.97	9.61	1.75	-9.60	0.15	-0.05	-28.21
1,850.00	0.28	67.87	1,849.97	9.92	1.99	-9.90	0.29	0.02	65.65
1,945.00	0.26	12.01	1,944.96	10.21	2.25	-10.20	0.27	-0.02	-58.80
2,039.00	0.19	349.17	2,038.96	10.58	2.26	-10.56	0.12	-0.07	-24.30
2,134.00	0.23	76.14	2,133.96	10.78	2.42	-10.76	0.31	0.04	91.55
2,229.00	0.14	103.42	2,228.96	10.80	2.72	-10.78	0.13	-0.09	28.72
2,324.00	0.25	59.74	2,323.96	10.87	3.01	-10.85	0.19	0.12	-45.98
2,418.00	0.23	69.81	2,417.96	11.04	3.36	-11.02	0.05	-0.02	10.71
2,513.00	0.21	34.40	2,512.96	11.25	3.64	-11.23	0.14	-0.02	-37.27
2,608.00	0.47	42.77	2,607.96	11.68	4.00	-11.66	0.28	0.27	8.81
2,703.00	0.50	27.49	2,702.96	12.33	4.46	-12.31	0.14	0.03	-16.08
2,797.00	0.38	357.79	2,796.95	13.01	4.64	-12.98	0.27	-0.13	-31.60
2,892.00	0.33	55.05	2,891.95	13.48	4.85	-13.45	0.36	-0.05	60.27
2,987.00	0.13	15.28	2,986.95	13.74	5.10	-13.71	0.26	-0.21	-41.86
3,082.00	0.61	3.43	3,081.95	14.35	5.16	-14.32	0.51	0.51	-12.47
3,177.00	0.50	355.43	3,176.94	15.27	5.16	-15.24	0.14	-0.12	-8.42
3,271.00	0.32	15.57	3,270.94	15.93	5.20	-15.90	0.24	-0.19	21.43
3,366.00	0.46	105.63	3,365.94	16.08	5.63	-16.05	0.59	0.15	94.80
3,461.00	0.41	106.68	3,460.94	15.88	6.33	-15.84	0.05	-0.05	1.11
3,556.00	0.54	142.25	3,555.93	15.43	6.93	-15.39	0.33	0.14	37.44
3,651.00	1.35	170.12	3,650.92	13.97	7.39	-13.93	0.96	0.85	29.34
3,745.00	1.40	161.51	3,744.89	11.79	7.95	-11.75	0.23	0.05	-9.16
3,840.00	1.32	170.01	3,839.87	9.62	8.51	-9.56	0.23	-0.08	8.95
3,935.00	1.20	173.07	3,934.84	7.55	8.81	-7.50	0.14	-0.13	3.22
4,030.00	1.11	171.44	4,029.83	5.65	9.07	-5.60	0.10	-0.09	-1.72
4,124.00	1.18	165.06	4,123.81	3.82	9.46	-3.76	0.15	0.07	-6.79
4,223.00	1.26	163.41	4,222.78	1.79	10.03	-1.73	0.09	0.08	-1.67
4,317.00	1.08	157.24	4,316.76	-0.02	10.67	0.08	0.23	-0.19	-6.56
4,412.00	0.86	347.23	4,411.76	-0.15	10.86	0.21	2.03	-0.23	-178.96



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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)
4,507.00	0.50	342.75	4,506.75	0.94	10.58	-0.88	0.38	-0.38	-4.72
4,602.00	0.73	330.49	4,601.75	1.87	10.16	-1.80	0.28	0.24	-12.91
4,697.00	0.53	335.97	4,696.74	2.79	9.68	-2.73	0.22	-0.21	5.77
4,791.00	0.68	318	4,790.74	3.75	9.53	-3.69	0.34	0.16	28.95
4,886.00	0.83	357.15	4,885.73	5.00	9.53	-4.94	0.18	0.16	-6.35
4,981.00	1.46	270.24	4,980.71	5.69	8.29	-5.64	1.73	0.66	-91.48
5,075.00	1.85	266.96	5,074.68	5.61	5.57	-5.58	0.43	0.41	-3.49
5,170.00	1.80	271.94	5,169.63	5.58	2.55	-5.57	0.17	-0.05	5.24
5,265.00	1.80	271.49	5,264.58	5.67	-0.43	-5.68	0.01	0.00	-0.47
5,359.00	1.60	286.21	5,358.54	6.08	-3.17	-6.10	0.51	-0.21	15.66
5,454.00	2.77	20.82	5,453.49	8.59	-3.63	-8.62	3.48	1.23	99.59
5,549.00	3.73	4.66	5,548.34	13.82	-2.56	-13.84	1.39	1.01	-17.01
5,644.00	5.49	357.00	5,643.03	21.44	-2.55	-21.45	1.96	1.85	-8.06
5,738.00	6.78	0.94	5,736.49	31.48	-2.69	-31.49	1.44	1.37	4.19
5,833.00	8.29	1.52	5,830.67	43.93	-2.42	-43.95	1.59	1.59	0.61
5,928.00	10.25	359.58	5,924.42	59.23	-2.30	-59.25	2.09	2.06	-2.04
6,023.00	10.18	359.51	6,017.92	76.08	-2.43	-76.09	0.07	-0.07	-0.07
6,117.00	10.16	358.57	6,110.44	92.67	-2.71	-92.69	0.18	-0.02	-1.00
6,212.00	10.42	358.48	6,203.91	109.64	-3.15	-109.66	0.27	0.27	-0.09
6,307.00	10.08	6.38	6,297.40	126.49	-2.45	-126.50	1.52	-0.36	8.32
6,402.00	9.63	5.80	6,391.00	142.66	-0.72	-142.66	0.49	-0.47	-0.61
6,496.00	9.14	3.76	6,483.74	157.93	0.56	-157.92	0.63	-0.52	-2.17
6,591.00	9.20	1.92	6,577.52	173.05	1.31	-173.04	0.32	0.06	-1.94
6,686.00	8.57	359.39	6,671.38	187.72	1.49	-187.70	0.78	-0.66	-2.66
6,781.00	8.20	359.10	6,765.37	201.57	1.31	-201.56	0.39	-0.39	-0.31
6,875.00	9.12	359.13	6,858.30	215.72	1.09	-215.71	0.98	0.98	0.03
6,970.00	9.68	2.07	6,952.02	231.23	1.26	-231.22	0.78	0.59	3.09
7,065.00	10.08	2.91	7,045.61	247.51	1.97	-247.50	0.45	0.42	0.88
7,159.00	9.80	2.21	7,138.20	263.72	2.70	-263.70	0.32	-0.30	-0.74
7,254.00	9.54	1.32	7,231.85	279.67	3.19	-279.65	0.32	-0.27	-0.94
7,349.00	9.35	0.10	7,325.56	295.26	3.39	-295.23	0.29	-0.20	-1.28
7,444.00	8.94	0.74	7,419.36	310.36	3.50	-310.33	0.44	-0.43	0.67
7,538.00	8.86	1.32	7,512.22	324.90	3.76	-324.87	0.13	-0.09	0.62
7,633.00	8.65	1.21	7,606.12	339.36	4.08	-339.32	0.22	-0.22	-0.12
7,727.00	7.41	5.17	7,699.19	352.46	4.77	-352.42	1.44	-1.32	4.21
7,822.00	6.49	4.32	7,793.50	363.91	5.73	-363.87	0.97	-0.97	-0.89
7,917.00	5.78	6.23	7,887.95	374.02	6.65	-373.98	0.78	-0.75	2.01
8,012.00	4.72	1.45	7,982.55	382.69	7.27	-382.63	1.21	-1.12	-5.03
8,107.00	4.16	352.12	8,077.27	390.01	6.90	-389.96	0.96	-0.59	-9.82
8,201.00	3.48	354.16	8,171.06	396.22	6.14	-396.18	0.74	-0.72	2.17
8,296.00	3.48	345.17	8,265.88	401.88	5.11	-401.84	0.57	0.00	-9.46
8,391.00	3.62	330.64	8,360.70	407.28	2.90	-407.25	0.96	0.15	-15.29
8,486.00	2.80	330.86	8,455.55	411.92	0.30	-411.91	0.86	-0.86	0.23
8,580.00	2.45	329.35	8,549.45	415.65	-1.84	-415.66	0.38	-0.37	-1.61



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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)	
8,675.00	2.21	342.57	8,644.38	419.15	-3.43	-419.16	0.62	-0.25	13.92	
8,770.00	1.61	350.30	8,739.32	422.21	-4.20	-422.23	0.69	-0.63	8.14	
8,865.00	1.28	23.68	8,834.29	424.50	-4.00	-424.52	0.93	-0.35	35.14	
8,959.00	1.22	52.18	8,928.27	426.07	-2.79	-426.08	0.66	-0.06	30.32	
9,054.00	0.94	45.28	9,023.26	427.24	-1.43	-427.24	0.32	-0.29	-7.26	
9,148.00	0.90	32.13	9,117.24	428.41	-0.49	-428.41	0.23	-0.04	-13.99	
9,243.00	0.44	18.48	9,212.24	429.39	0.02	-429.38	0.51	-0.48	-14.37	
9,337.00	0.75	282.38	9,306.23	429.86	-0.47	-429.86	0.97	0.33	-102.23	
9,432.00	1.91	273.51	9,401.21	430.09	-2.66	-430.10	1.24	1.22	-9.34	
9,527.00	0.88	248.99	9,496.18	429.93	-4.92	-429.95	1.23	-1.08	-25.81	
9,621.00	0.79	141.93	9,590.17	429.16	-5.19	-429.18	1.43	-0.10	-113.89	
9,716.00	0.84	106.52	9,685.16	428.45	-4.12	-428.46	0.52	0.05	-37.27	
9,811.00	0.89	100.11	9,780.15	428.12	-2.73	-428.13	0.11	0.05	-6.75	
9,906.00	0.86	99.29	9,875.14	427.87	-1.30	-427.87	0.03	-0.03	-0.86	
10,001.00	0.74	156.77	9,970.13	427.19	-0.35	-427.19	0.82	-0.13	60.51	
10,095.00	0.61	161.26	10,064.13	426.16	0.05	-426.15	0.15	-0.14	4.78	
10,190.00	0.68	173.68	10,159.12	425.12	0.27	-425.11	0.16	0.07	13.07	
10,284.00	1.04	186.51	10,253.11	423.72	0.24	-423.71	0.43	0.38	13.65	
10,379.00	1.27	176.97	10,348.09	421.81	0.20	-421.80	0.31	0.24	-10.04	
10,473.00	1.16	157.98	10,442.07	419.89	0.61	-419.88	0.44	-0.12	-20.20	
10,486.00	1.07	151.83	10,455.07	419.66	0.72	-419.65	1.15	-0.69	-47.31	
10,543.00	0.82	167.62	10,512.06	418.80	1.05	-418.78	0.63	-0.44	27.70	
10,638.00	1.22	198.44	10,607.05	417.17	0.88	-417.16	0.70	0.42	32.44	
10,733.00	1.45	212.56	10,702.02	415.20	-0.09	-415.19	0.42	0.24	14.86	
10,827.00	1.28	209.84	10,795.99	413.29	-1.25	-413.29	0.19	-0.18	-2.89	
10,922.00	9.46	165.92	10,890.51	404.78	0.13	-404.77	9.04	8.61	-46.23	
11,017.00	21.08	169.26	10,982.00	380.34	5.23	-380.30	12.26	12.23	3.52	
11,111.00	31.01	171.50	11,066.35	339.68	11.97	-339.60	10.61	10.56	2.38	
11,206.00	42.03	173.70	11,142.59	283.69	19.10	-283.56	11.68	11.60	2.32	
11,301.00	46.86	173.04	11,210.39	217.63	26.80	-217.46	5.11	5.08	-0.69	
11,396.00	53.77	175.18	11,271.02	144.96	34.22	-144.74	7.48	7.27	2.25	
11,414.37	54.54	175.92	11,281.78	130.11	35.38	-129.89	5.30	4.18	4.00	
SL: 11414.37' MD, 54.54° Inc, 175.92° Azm										
11,491.00	57.79	178.84	11,324.45	66.54	38.26	-66.31	5.30	4.24	3.82	
11,533.55	59.97	180.39	11,346.44	30.12	38.50	-29.88	6.01	5.14	3.65	
FTP: 11533.55' MD, 59.97° Inc, 180.39° Azm										
11,585.00	62.64	182.18	11,371.14	-14.99	37.48	15.22	6.01	5.18	3.47	
11,680.00	74.12	182.06	11,406.08	-103.10	34.22	103.31	12.08	12.08	-0.13	
11,775.00	79.93	179.70	11,427.40	-195.62	32.82	195.82	6.58	6.12	-2.48	
11,870.00	88.28	182.11	11,437.15	-290.01	31.31	290.20	9.14	8.79	2.54	
11,965.00	90.23	183.51	11,438.39	-384.88	26.66	385.04	2.53	2.05	1.47	
12,038.00	89.08	182.39	11,438.83	-457.78	22.90	457.92	2.20	-1.58	-1.53	
12,133.00	88.69	182.43	11,440.68	-552.68	18.91	552.79	0.41	-0.41	0.04	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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)
12,227.00	86.87	181.81	11,444.32	-646.54	15.43	646.63	2.05	-1.94	-0.66
12,322.00	85.97	181.61	11,450.25	-741.31	12.60	741.38	0.97	-0.95	-0.21
12,417.00	85.66	181.15	11,457.18	-836.03	10.32	836.08	0.58	-0.33	-0.48
12,511.00	86.42	181.64	11,463.68	-929.78	8.04	929.81	0.96	0.81	0.52
12,606.00	88.18	181.26	11,468.15	-1,024.64	5.64	1,024.66	1.90	1.85	-0.40
12,701.00	90.48	180.68	11,469.26	-1,119.61	4.03	1,119.62	2.50	2.42	-0.61
12,795.00	93.42	180.63	11,466.06	-1,213.54	2.95	1,213.54	3.13	3.13	-0.05
12,890.00	95.13	179.93	11,458.98	-1,308.27	2.49	1,308.26	1.94	1.80	-0.74
12,984.00	95.64	178.57	11,450.16	-1,401.85	3.72	1,401.84	1.54	0.54	-1.45
13,079.00	95.47	178.47	11,440.96	-1,496.37	6.16	1,496.38	0.21	-0.18	-0.11
13,173.00	95.47	178.36	11,432.00	-1,589.91	8.75	1,589.93	0.12	0.00	-0.12
13,268.00	93.73	177.67	11,424.38	-1,684.54	12.03	1,684.58	1.97	-1.83	-0.73
13,363.00	91.46	176.39	11,420.08	-1,779.31	16.94	1,779.38	2.74	-2.39	-1.35
13,458.00	88.44	175.61	11,420.17	-1,874.06	23.57	1,874.17	3.28	-3.18	-0.82
13,552.00	85.77	177.49	11,424.91	-1,967.76	29.22	1,967.90	3.47	-2.84	2.00
13,647.00	85.72	176.95	11,431.96	-2,062.39	33.82	2,062.56	0.57	-0.05	-0.57
13,742.00	86.31	176.93	11,438.56	-2,157.02	38.87	2,157.22	0.62	0.62	-0.02
13,836.00	87.68	176.54	11,443.49	-2,250.74	44.22	2,250.97	1.52	1.46	-0.41
13,931.00	88.55	177.96	11,446.62	-2,345.57	48.78	2,345.83	1.75	0.92	1.49
14,026.00	89.89	179.46	11,447.91	-2,440.53	50.91	2,440.80	2.12	1.41	1.58
14,121.00	91.21	180.80	11,447.00	-2,535.53	50.70	2,535.79	1.98	1.39	1.41
14,215.00	92.50	182.48	11,443.96	-2,629.43	48.01	2,629.68	2.25	1.37	1.79
14,309.00	88.13	181.19	11,443.44	-2,723.36	45.00	2,723.58	4.85	-4.65	-1.37
14,404.00	88.21	180.25	11,446.47	-2,818.30	43.81	2,818.52	0.99	0.08	-0.99
14,498.00	88.13	177.47	11,449.47	-2,912.23	45.68	2,912.45	2.96	-0.09	-2.96
14,593.00	87.82	176.84	11,452.83	-3,007.05	50.39	3,007.30	0.74	-0.33	-0.66
14,688.00	87.23	176.90	11,456.93	-3,101.82	55.57	3,102.10	0.62	-0.62	0.06
14,783.00	89.56	179.43	11,459.60	-3,196.72	58.61	3,197.02	3.62	2.45	2.66
14,877.00	88.94	179.12	11,460.83	-3,290.70	59.80	3,291.01	0.74	-0.66	-0.33
14,972.00	88.10	179.49	11,463.28	-3,385.66	60.95	3,385.97	0.97	-0.88	0.39
15,066.00	88.30	178.78	11,466.23	-3,479.60	62.37	3,479.92	0.78	0.21	-0.76
15,161.00	88.97	178.92	11,468.50	-3,574.56	64.28	3,574.89	0.72	0.71	0.15
15,256.00	90.23	179.75	11,469.16	-3,669.55	65.38	3,669.88	1.59	1.33	0.87
15,350.00	89.50	179.61	11,469.38	-3,763.54	65.90	3,763.88	0.79	-0.78	-0.15
15,445.00	89.47	180.09	11,470.23	-3,858.54	66.15	3,858.87	0.51	-0.03	0.51
15,539.00	90.34	180.65	11,470.39	-3,952.54	65.55	3,952.87	1.10	0.93	0.60
15,634.00	89.84	181.32	11,470.24	-4,047.52	63.91	4,047.84	0.88	-0.53	0.71
15,729.00	89.44	181.71	11,470.84	-4,142.49	61.40	4,142.79	0.59	-0.42	0.41
15,823.00	89.81	183.23	11,471.45	-4,236.39	57.35	4,236.67	1.66	0.39	1.62
15,918.00	89.92	182.48	11,471.68	-4,331.27	52.62	4,331.52	0.80	0.12	-0.79
16,013.00	88.21	179.33	11,473.23	-4,426.23	51.12	4,426.47	3.77	-1.80	-3.32
16,108.00	87.90	178.92	11,476.45	-4,521.17	52.57	4,521.41	0.54	-0.33	-0.43
16,201.00	85.52	177.39	11,481.79	-4,613.96	55.56	4,614.21	3.04	-2.56	-1.65
16,296.00	86.75	179.06	11,488.19	-4,708.69	58.49	4,708.96	2.18	1.29	1.76



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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)
16,391.00	87.46	182.27	11,492.99	-4,803.55	57.39	4,803.81	3.46	0.75	3.38
16,486.00	91.80	187.16	11,493.61	-4,898.17	49.58	4,898.39	6.88	4.57	5.15
16,581.00	95.08	187.95	11,487.91	-4,992.17	37.12	4,992.30	3.55	3.45	0.83
16,675.00	94.20	187.85	11,480.30	-5,084.97	24.24	5,085.02	0.94	-0.94	-0.11
16,744.21	93.94	187.68	11,475.39	-5,153.37	14.91	5,153.36	0.45	-0.38	-0.24
SL: 16744.21' MD, 93.94° Inc, 187.68° Azm									
16,770.00	93.84	187.62	11,473.64	-5,178.87	11.49	5,178.84	0.45	-0.38	-0.24
16,865.00	92.61	185.48	11,468.30	-5,273.10	0.67	5,273.00	2.60	-1.29	-2.25
16,959.00	91.18	183.33	11,465.19	-5,366.76	-6.55	5,366.62	2.75	-1.52	-2.29
17,054.00	90.45	181.71	11,463.84	-5,461.65	-10.72	5,461.48	1.87	-0.77	-1.71
17,149.00	91.29	182.35	11,462.39	-5,556.58	-14.09	5,556.39	1.11	0.88	0.67
17,244.00	91.01	178.67	11,460.49	-5,651.54	-14.93	5,651.34	3.88	-0.29	-3.87
17,339.00	90.26	174.53	11,459.43	-5,746.35	-9.30	5,746.18	4.43	-0.79	-4.36
17,433.00	86.08	171.63	11,462.44	-5,839.59	2.01	5,839.49	5.41	-4.45	-3.09
17,528.00	85.43	173.47	11,469.47	-5,933.52	14.30	5,933.50	2.05	-0.68	1.94
17,623.00	86.53	176.69	11,476.13	-6,027.92	22.42	6,027.95	3.57	1.16	3.39
17,718.00	87.76	178.79	11,480.86	-6,122.73	26.16	6,122.77	2.56	1.29	2.21
17,813.00	89.19	179.06	11,483.39	-6,217.67	27.94	6,217.73	1.53	1.51	0.28
17,907.00	88.44	179.93	11,485.33	-6,311.65	28.77	6,311.70	1.22	-0.80	0.93
18,002.00	88.63	181.32	11,487.76	-6,406.61	27.74	6,406.66	1.48	0.20	1.46
18,096.00	89.28	182.34	11,489.48	-6,500.54	24.74	6,500.57	1.29	0.69	1.09
18,191.00	89.47	182.04	11,490.51	-6,595.47	21.11	6,595.47	0.37	0.20	-0.32
18,286.00	89.11	179.36	11,491.69	-6,690.44	19.94	6,690.44	2.85	-0.38	-2.82
18,380.00	89.47	179.62	11,492.86	-6,784.43	20.78	6,784.43	0.47	0.38	0.28
18,475.00	90.14	179.60	11,493.18	-6,879.43	21.43	6,879.43	0.71	0.71	-0.02
18,570.00	90.62	179.34	11,492.55	-6,974.42	22.31	6,974.43	0.57	0.51	-0.27
18,664.00	90.54	178.90	11,491.60	-7,068.41	23.75	7,068.42	0.48	-0.09	-0.47
18,759.00	90.00	177.89	11,491.15	-7,163.37	26.41	7,163.39	1.21	-0.57	-1.06
18,854.00	90.73	177.96	11,490.54	-7,258.30	29.85	7,258.35	0.77	0.77	0.07
18,949.00	90.87	177.28	11,489.22	-7,353.21	33.80	7,353.28	0.73	0.15	-0.72
19,043.00	90.40	177.03	11,488.18	-7,447.09	38.46	7,447.18	0.57	-0.50	-0.27
19,138.00	90.59	177.89	11,487.36	-7,541.99	42.67	7,542.11	0.93	0.20	0.91
19,233.00	88.74	179.14	11,487.91	-7,636.95	45.13	7,637.08	2.35	-1.95	1.32
19,327.00	89.75	181.56	11,489.15	-7,730.93	44.56	7,731.06	2.79	1.07	2.57
19,422.00	90.68	182.69	11,488.79	-7,825.86	41.04	7,825.97	1.54	0.98	1.19
19,517.00	91.21	181.71	11,487.23	-7,920.78	37.39	7,920.86	1.17	0.56	-1.03
19,612.00	91.43	180.70	11,485.04	-8,015.73	35.39	8,015.80	1.09	0.23	-1.06
19,706.00	91.54	179.11	11,482.60	-8,109.70	35.55	8,109.76	1.69	0.12	-1.69
19,801.00	90.79	177.34	11,480.67	-8,204.63	38.49	8,204.71	2.02	-0.79	-1.86
19,896.00	91.21	176.66	11,479.01	-8,299.48	43.46	8,299.59	0.84	0.44	-0.72
19,991.00	91.04	176.05	11,477.15	-8,394.27	49.50	8,394.42	0.67	-0.18	-0.64
20,085.00	91.18	176.96	11,475.33	-8,488.08	55.23	8,488.26	0.98	0.15	0.97
20,180.00	91.43	177.98	11,473.16	-8,582.96	59.42	8,583.16	1.11	0.26	1.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Arkenstone 31 Federal 2H
Project:	Eddy County, NM (NAD83-NME)	TVD Reference:	RKB @ 3372.40usft (H&P 466)
Site:	Arkenstone 31	MD Reference:	RKB @ 3372.40usft (H&P 466)
Well:	Arkenstone 31 Federal 2H	North Reference:	Grid
Wellbore:	OH / 70335	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)
20,275.00	90.59	178.64	11,471.49	-8,677.90	62.22	8,678.12	1.12	-0.88	0.69
20,369.00	90.98	179.07	11,470.20	-8,771.87	64.10	8,772.10	0.62	0.41	0.46
20,464.00	91.12	179.96	11,468.46	-8,866.85	64.90	8,867.09	0.95	0.15	0.94
20,558.00	91.71	180.97	11,466.14	-8,960.82	64.14	8,961.05	1.24	0.63	1.07
20,653.00	91.40	182.50	11,463.56	-9,055.74	61.27	9,055.94	1.64	-0.33	1.61
20,748.00	91.12	181.65	11,461.47	-9,150.65	57.83	9,150.84	0.94	-0.29	-0.89
20,842.00	91.51	183.67	11,459.31	-9,244.52	53.47	9,244.68	2.19	0.41	2.15
20,937.00	90.79	183.05	11,457.41	-9,339.34	47.90	9,339.46	1.00	-0.76	-0.65
21,032.00	90.26	182.44	11,456.54	-9,434.22	43.35	9,434.31	0.85	-0.56	-0.64
21,126.00	91.37	181.91	11,455.20	-9,528.15	39.78	9,528.21	1.31	1.18	-0.56
21,220.00	90.09	180.50	11,454.00	-9,622.11	37.81	9,622.16	2.03	-1.36	-1.50
21,315.00	89.19	180.68	11,454.60	-9,717.10	36.83	9,717.15	0.97	-0.95	0.19
21,410.00	92.16	180.33	11,453.48	-9,812.08	35.99	9,812.12	3.15	3.13	-0.37
21,505.00	89.38	178.04	11,452.20	-9,907.05	37.34	9,907.09	3.79	-2.93	-2.41
21,599.00	88.07	176.72	11,454.29	-10,000.92	41.64	10,000.99	1.98	-1.39	-1.40
21,694.00	86.92	176.99	11,458.45	-10,095.69	46.85	10,095.79	1.24	-1.21	0.28
21,789.00	89.31	179.71	11,461.57	-10,190.58	49.58	10,190.69	3.81	2.52	2.86
21,884.00	88.24	180.59	11,463.60	-10,285.56	49.33	10,285.67	1.46	-1.13	0.93
21,939.53	89.17	180.92	11,464.86	-10,341.07	48.60	10,341.17	1.78	1.67	0.60
LTP: 21939.53' MD, 89.17° Inc, 180.92° Azm									
21,951.00	89.36	180.99	11,465.01	-10,352.54	48.41	10,352.64	1.78	1.67	0.60
Final Phoenix MWD Survey									
21,992.00	89.36	180.99	11,465.46	-10,393.53	47.70	10,393.62	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)	
371.96	371.95	1.51	0.99	Tie In
436.00	435.99	2.00	1.01	First Phoenix MWD Survey
11,414.37	11,281.78	130.11	35.38	SL: 11414.37' MD, 54.54° Inc, 175.92° Azm
11,533.55	11,346.44	30.12	38.50	FTP: 11533.55' MD, 59.97° Inc, 180.39° Azm
16,744.21	11,475.39	-5,153.37	14.91	SL: 16744.21' MD, 93.94° Inc, 187.68° Azm
21,939.53	11,464.86	-10,341.07	48.60	LTP: 21939.53' MD, 89.17° Inc, 180.92° Azm
21,951.00	11,465.01	-10,352.54	48.41	Final Phoenix MWD Survey
21,992.00	11,465.46	-10,393.53	47.70	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

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.)		WELL API NO. 30-015-46677
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease- FED STATE ☐ FEE ☐
2. Name of Operator- OXY USA INC.		6. State Oil & Gas Lease No.
3. Address of Operator- P.O. BOX 50250 MIDLAND, TX 79710		7. Lease Name or Unit Agreement Name ARKENSTONE 31 FEDERAL
4. Well Location Unit Letter ___ L1 ___: ___ 130 ___ feet from the ___ NORTH ___ line and ___ 930 ___ feet from the ___ WEST ___ line Section 31 Township 23S Range 31E NMPM County- EDDY		8. Well Number- 2H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3347' GL		9. OGRID Number- 16696
		10. Pool name or Wildcat PURPLE SAGE WOLFCAMP / WC-015 G-08 S233135; WOLFCAMP

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 @ 21949', pressure test casing to 6000# for 30 min, good test. RIH & perf @ 11613-21881' Total 1230 holes. Frac in 41 stages w/ 345848BBL Produced Water + 7859BBL Brackish Water (> 1,000 mg/I TDS and < 10,000 mg/I TDS) w/ 25681760# sand, RD NexTier 11/16/22. Well ready to produce 11/21/22. 02/08/23 RIH with 2-3/8" L80 tbg & gas lift set @ 11236', RD 02/09/23.

Formation Tops for this completion are as follows:

Rustler	343'M	343'V
Salado	663'M	663'V
Castile	2043'M	2043'V
Delaware	3987'M	3987'V
Bell Canyon	4096'M	4096'V
Cherry Canyon	4973'M	4973'V
Brushy Canyon	6231'M	6222'V
Bone Spring	7912'M	7883'V
1st Bone Spring	8944'M	8914'V
2nd Bone Spring	9619'M	9588'V
3rd Bone Spring	10935'M	10903'V
Wolfcamp	11428'M	11290'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										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								6. Well Number: 2H										
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	930	WEST	EDDY								
BH:	M	6	24S	31E		48	SOUTH	933	WEST	EDDY								
13. Date Spudded 07/7/2022	14. Date T.D. Reached 09/28/2022		15. Date Rig Released 10/02/2022		16. Date Completed (Ready to Produce) 11/21/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3347' GL										
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13.375" J55		54.5		385'		17.5"		460sx-surf circ										
9.625" HCL80		40		4171'		12.25"		1202sx-surf circ										
7.625" HCL80		29.7		10530'		8.75"		793sx-surf circ										
5.5" P110 ICY		20		21972'		6.75"		990sx-TOC@6711'										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET									
						2-3/8"	11236'											
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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																		
Signature:			Printed Name: <u>Jana Mendiola</u>			Title: <u>Sr. Regulatory Analyst</u>		Date: <u>03/15/2023</u>										
E-mail Address: <u>janalyn_mendiola@oxy.com</u>																		

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Southeastern New Mexico		Northwestern New Mexico	
T. Rustler 343'	T. Bell Canyon 4096'	T. Ojo Alamo	T. Penn A"
T. Salado 663'	T. Strawn	T. Kirtland	T. Penn. "B"
T. Castile 2043'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Delaware 3987'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Cherry Canyon 4973'	T. Devonian	T. Cliff House	T. Leadville
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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. 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

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										
								6. Well Number: 2H										
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 WC-015 G-08 S233135; WOLFCAMP												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
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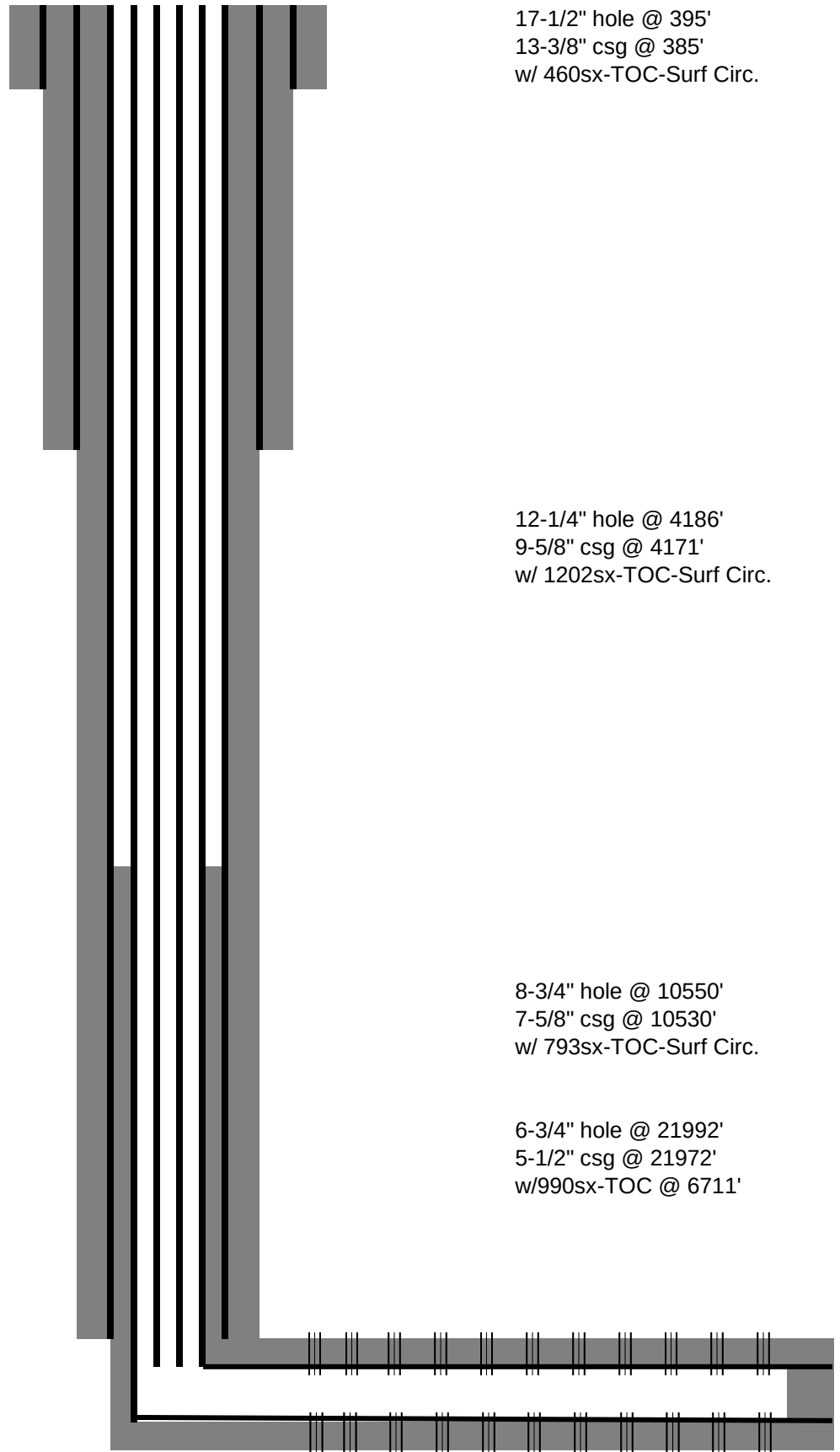
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OXY USA Inc.
ARKENSTONE 31 FEDERAL 2H
API No. 30-015-46677



Perfs @ 11613-21881'

TD- 21992'M 11465'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 197430

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197430
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 197430

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 197430
	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