

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
Other: _____

2. Name of Operator

3. Address

3a. Phone No. (Include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface

At top prod. interval reported below

At total depth

14. Date Spudded

15. Date T.D. Reached

16. Date Completed

☐ D & A ☐ Ready to Prod.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Well Name and Well No.

9. API Well No.

10. Field and Pool or Exploratory

11. Sec., T., R., M., on Block and
Survey or Area

12. County or Parish

13. State

17. Elevations (DF, RKB, RT, GL)*

18. Total Depth: MD
TVD19. Plug Back T.D.: MD
TVD20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/31/22			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production ➡	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➡	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production ➡	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➡	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure).

Corrected X1 completion to S1 (page 3). Fixed day forward AFMSS error for DOFP.

APPROVED

By Allison Morency at 8:05 am, Jul 03, 2025

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.)

☐ Geologic Report

☐ DST Report

☐ Directional Survey

☐ Sundry Notice for plugging and cement verification

☐ Core Analysis

☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print)

Title

Signature

Date

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Information

Location information: 00X1-S1

SHL: SWSW / 530 FSL / 1145 FWL / TWSP: 22S / RNG: 32E / SEC: 17 / LAT: 32.3857933 / LONG: -103.7016322

KOP: NENW / 223 FNL / 2234 FWL / TWSP: 22S / RNG: 32E / SEC: 20 / LAT: 32.3837342 / LONG: -103.6987905

PPP: SESW / 154 FSL / 2234 FWL / TWSP: 22S / RNG: 32E / SEC: 17 / LAT: 32.384773 / LONG: -103.6981031

PPP: SESW / 3 FSL / 2199 FWL / TWSP: 22S / RNG: 32E / SEC: 8 / LAT: 32.398874 / LONG: -103.698232

PPP: SENW / 2635 FNL / 2199 FWL / TWSP: 22S / RNG: 32E / SEC: 8 / LAT: 32.406133 / LONG: -103.698242

EXIT: NENW / 183 FNL / 2195 FWL / TWSP: 22S / RNG: 32E / SEC: 8 / LAT: 32.4128714 / LONG: -103.698265

BHL: NENW / 37 FNL / 2193 FWL / TWSP: 22S / RNG: 32E / SEC: 8 / LAT: 32.4132726 / LONG: -103.6982748

Additional Cement Segments for Casings: 00X1-S1

Hole Size: 12.25, Size/Grade: 9.625 / J-55, Wt. (#ft): 40, Top (MD): 0, Bottom (MD): 6545

Cementing/Segment - Stage Cementer Depth: null, No of Skis: 1320.0, Type of Cement: Class C, Slurry Vol BBL: 715.4, Cement Lead Top: 0.0, Amount Pulled: null ; Cement Tail Type: Cl C, Cement Tail Qty (sks): 179.0, Cement Tail Yield (cu.ft/sks): 1.35, Cement Tail Top (MD): 0.0

Hole Size: 8.75, Size/Grade: 5.5 / P-110, Wt. (#ft): 20, Top (MD): 0, Bottom (MD): 21318

Cementing/Segment - Stage Cementer Depth: null, No of Skis: 961.0, Type of Cement: Cl C, Slurry Vol BBL: 919.9, Cement Lead Top: 700.0, Amount Pulled: null ; Cement Tail Type: Cl C, Cement Tail Qty (sks): 2420.0, Cement Tail Yield (cu.ft/sks): 1.34, Cement Tail Top (MD): 700.0

Summary of Porous Zones Information:

Formation: BRUSHY CANYON, Descriptions, Contents, etc: , Bottom: 6879

Formation: BONE SPRING, Descriptions, Contents, etc: , Bottom: 8742

Formation: BONE SPRING 1ST, Descriptions, Contents, etc: , Bottom: 9805

Formation: BONE SPRING 2ND, Descriptions, Contents, etc: , Bottom: 10534

Attachments: 00X1-S1

Log Attachments:

1) DR_PI_FEDERAL_UNIT_17_8_DA_23H_C102_20230307110910.pdf

- 2) Dr_Pi_Fed_Unit_17_8_DA_23H___Wellbore_Diagram_20230307111455.pdf
- 3) Dr_Pi_23H_RCBL_20230307110819.tif
- 4) Dr_Pi_Fed_Unit_17_8_DA_23H___Final_Survey_Report_20230307110851.pdf

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: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

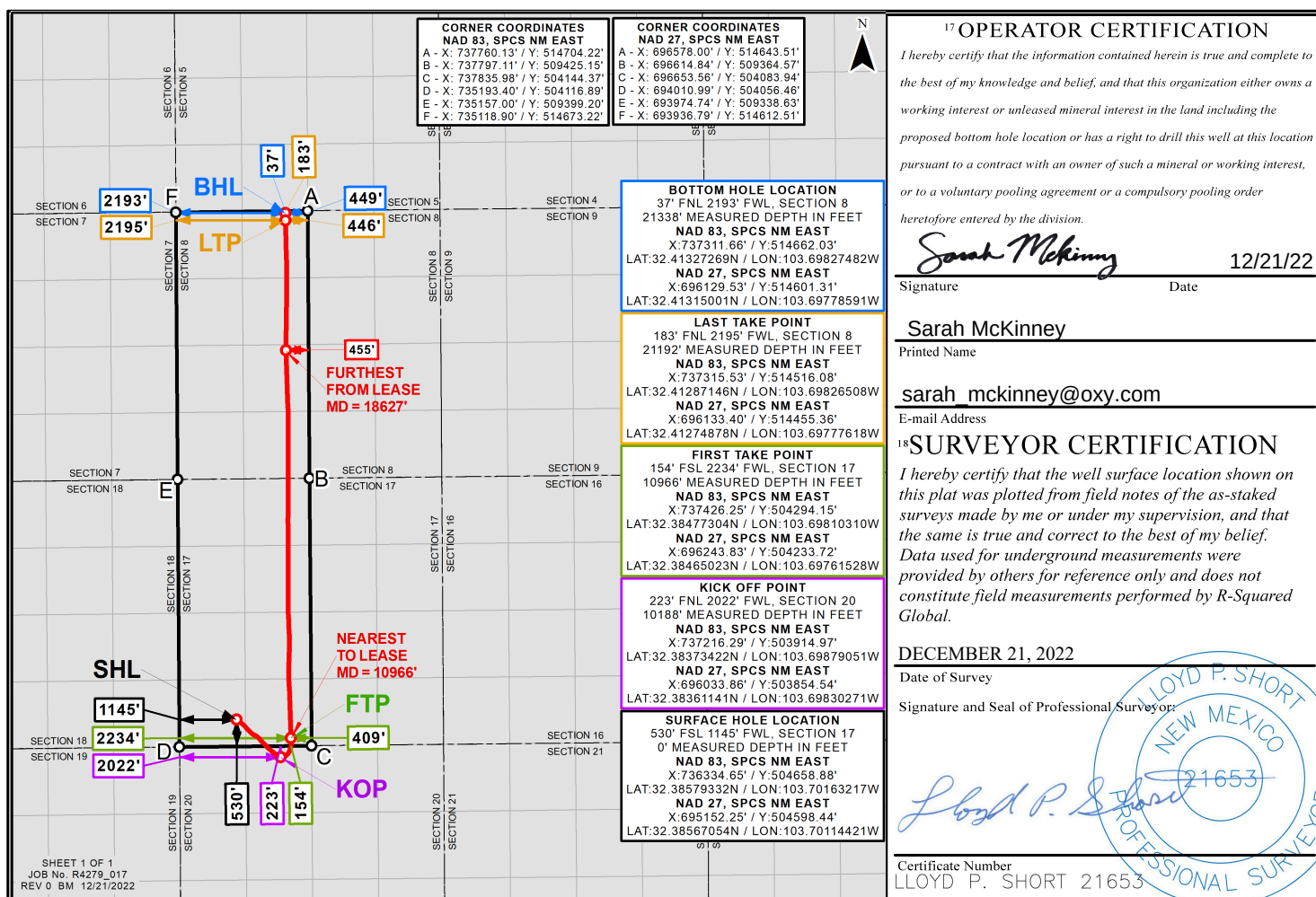
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-48947	² Pool Code 97366	³ Pool Name BILBREY BASIN; BONE SPRING, SOUTH
⁴ Property Code 332769	Property Name DR PI FEDERAL UNIT 17_8 DA	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁶ Well Number 23H
		⁹ Elevation 3690'

¹⁰ Surface Location

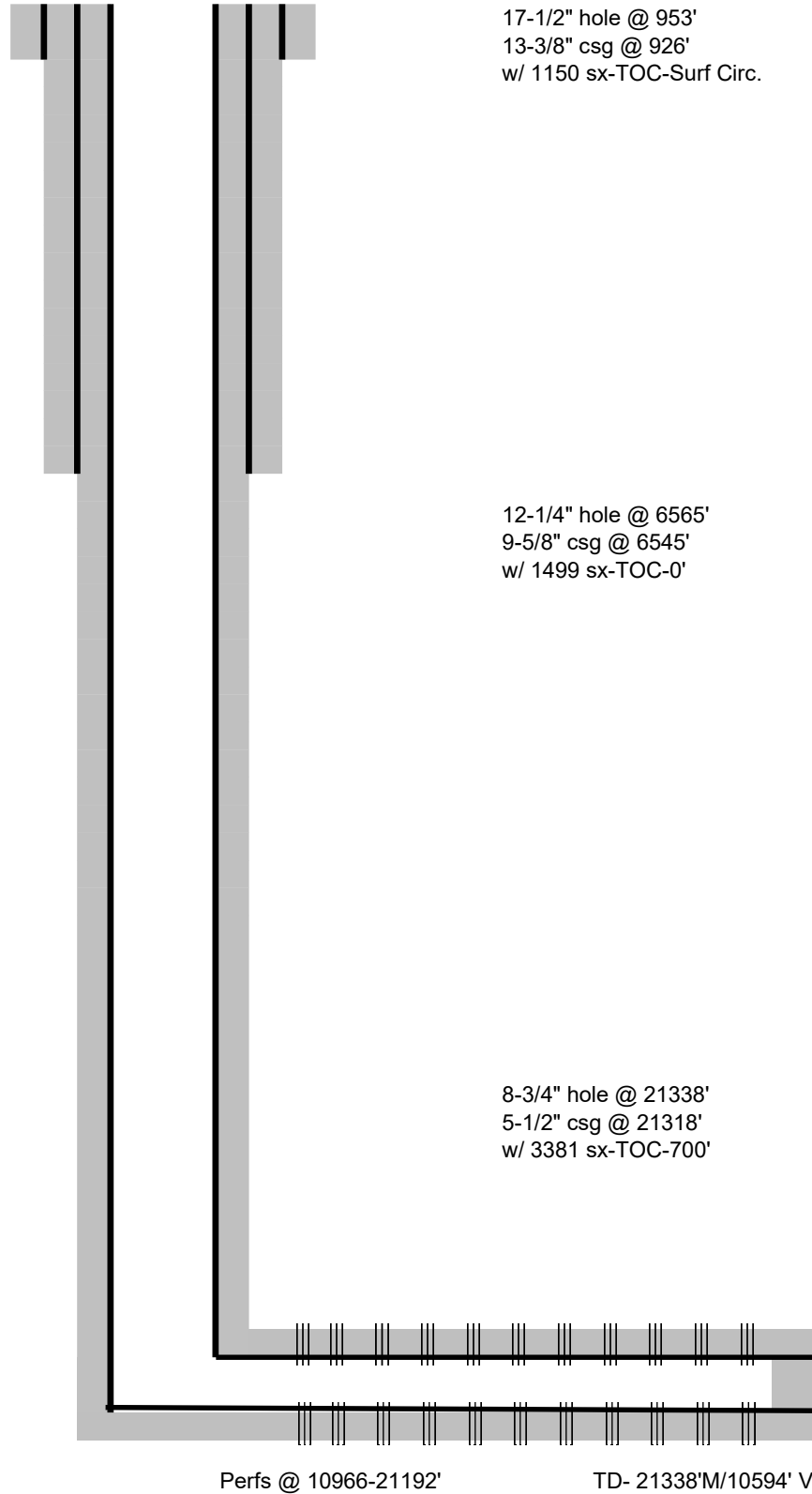
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	22S	32E		530	SOUTH	1145	WEST	LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	8	22S	32E		37	NORTH	2193	WEST	LEA
¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99995379 Convergence Angle: 00°20'34.080000"

OXY USA Inc.
Dr Pi Federal Unit 17 8 DA #23H
API No. 30-025-48947





OXY USA INC.

Lea County, NM (NAD83-NME)

Dr Pi Fed Unit 17_8 DA

Dr Pi Fed Unit 17_8 DA 23H

OH / 70783

Design: Surveys (H&P 466)

Standard Survey Report

22 November, 2022



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 466)	Database:	USA Compass

Project	Lea 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	Dr Pi Fed Unit 17_8 DA		
Site Position:		Northing:	504,610.59 usft
From:	Map	Easting:	738,908.99 usft
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 23' 8.226697 N
		Longitude:	103° 41' 35.857943 W
		Grid Convergence:	0.343 °

Well	Dr Pi Fed Unit 17_8 DA 23H		
Well Position	+N/-S	0.00 usft	Northing: 504,658.88 usft
	+E/-W	0.00 usft	Easting: 736,334.65 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 23' 8.855965 N
		Longitude:	103° 42' 5.875816 W
		Ground Level:	3,689.70 usft

Wellbore	OH / 70783		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	10/27/2022	6.667
			Dip Angle (°)
			60.132
			Field Strength (nT)
			47,797.00000000

Design	Surveys (H&P 466)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			5.61

Survey Program	Date	11/22/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	896.49	Gyrodata Gyro Surveys (OH / 70783)	GYD_G003_GC+DROP+	Gyrodata Stationary Tool drop on BHA on open h
1,007.00	21,338.00	Phoenix MWD Surveys (OH / 70783)	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
94.93	0.19	304.92	94.93	0.07	-0.10	0.06	0.27	0.27	0.00
179.52	0.18	105.01	179.52	0.11	-0.08	0.10	0.43	-0.01	189.25
267.99	0.12	98.18	267.99	0.06	0.14	0.08	0.07	-0.07	-7.72
362.25	0.51	113.68	362.25	-0.12	0.63	-0.06	0.42	0.41	16.44
456.46	0.47	106.52	456.45	-0.40	1.38	-0.26	0.08	-0.04	-7.60
550.76	0.35	118.81	550.75	-0.65	2.00	-0.45	0.16	-0.13	13.03
644.95	0.31	158.44	644.94	-1.02	2.35	-0.79	0.24	-0.04	42.07
739.24	0.19	186.88	739.23	-1.41	2.42	-1.17	0.18	-0.13	30.16



Phoenix Survey Report



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Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)
833.54	0.03	157.97	833.53	-1.59	2.41	-1.35	0.17	-0.17	-30.66
896.49	0.09	174.78	896.48	-1.66	2.43	-1.41	0.10	0.10	26.70
Tie In									
1,007.00	0.48	20.12	1,006.99	-1.31	2.59	-1.05	0.51	0.35	-139.95
First Phoenix MWD Survey									
1,102.00	0.59	26.95	1,101.98	-0.50	2.95	-0.21	0.13	0.12	7.19
1,197.00	0.61	16.56	1,196.98	0.42	3.32	0.74	0.12	0.02	-10.94
1,291.00	0.69	9.93	1,290.97	1.46	3.56	1.80	0.12	0.09	-7.05
1,386.00	0.68	14.30	1,385.97	2.57	3.80	2.93	0.06	-0.01	4.60
1,480.00	0.54	27.65	1,479.96	3.50	4.14	3.89	0.21	-0.15	14.20
1,575.00	0.53	30.04	1,574.96	4.28	4.57	4.70	0.03	-0.01	2.52
1,670.00	0.35	11.04	1,669.95	4.94	4.84	5.39	0.24	-0.19	-20.00
1,765.00	0.31	40.30	1,764.95	5.42	5.06	5.89	0.18	-0.04	30.80
1,859.00	0.20	72.86	1,858.95	5.67	5.38	6.17	0.19	-0.12	34.64
1,954.00	0.28	81.18	1,953.95	5.75	5.77	6.29	0.09	0.08	8.76
2,049.00	0.30	112.58	2,048.95	5.69	6.23	6.27	0.17	0.02	33.05
2,144.00	0.20	78.87	2,143.95	5.63	6.62	6.25	0.18	-0.11	-35.48
2,238.00	0.36	108.21	2,237.95	5.57	7.07	6.23	0.22	0.17	31.21
2,333.00	0.36	111.20	2,332.95	5.37	7.63	6.09	0.02	0.00	3.15
2,428.00	0.52	93.98	2,427.94	5.23	8.34	6.02	0.22	0.17	-18.13
2,523.00	0.37	87.43	2,522.94	5.21	9.07	6.07	0.17	-0.16	-6.89
2,618.00	0.46	88.12	2,617.94	5.24	9.76	6.17	0.09	0.09	0.73
2,712.00	0.50	85.49	2,711.93	5.28	10.55	6.29	0.05	0.04	-2.80
2,902.00	0.48	74.67	2,901.93	5.56	12.14	6.72	0.05	-0.01	-5.69
2,997.00	0.44	91.49	2,996.92	5.65	12.89	6.89	0.15	-0.04	17.71
3,092.00	0.68	86.11	3,091.92	5.68	13.82	7.01	0.26	0.25	-5.66
3,186.00	0.72	82.67	3,185.91	5.80	14.96	7.23	0.06	0.04	-3.66
3,281.00	0.53	72.18	3,280.91	6.01	15.97	7.54	0.23	-0.20	-11.04
3,376.00	0.30	205.56	3,375.91	5.92	16.28	7.48	0.81	-0.24	140.40
3,471.00	0.39	172.17	3,470.90	5.37	16.22	6.93	0.23	0.09	-35.15
3,565.00	0.28	114.04	3,564.90	4.96	16.47	6.55	0.36	-0.12	-61.84
3,660.00	0.91	104.31	3,659.90	4.68	17.41	6.36	0.67	0.66	-10.24
3,755.00	1.76	98.80	3,754.87	4.27	19.58	6.16	0.90	0.89	-5.80
3,850.00	1.91	105.67	3,849.82	3.62	22.55	5.81	0.28	0.16	7.23
3,944.00	1.25	116.87	3,943.79	2.73	24.97	5.16	0.77	-0.70	11.91
4,039.00	0.46	132.14	4,038.77	2.01	26.18	4.56	0.86	-0.83	16.07
4,134.00	0.70	204.17	4,133.77	1.22	26.23	3.78	0.75	0.25	75.82
4,228.00	1.16	203.43	4,227.76	-0.17	25.61	2.33	0.49	0.49	-0.79
4,323.00	0.99	181.07	4,322.74	-1.88	25.21	0.60	0.47	-0.18	-23.54
4,418.00	0.36	178.42	4,417.73	-2.99	25.21	-0.52	0.66	-0.66	-2.79
4,512.00	0.78	223.35	4,511.73	-3.76	24.78	-1.32	0.62	0.45	47.80
4,607.00	1.60	245.29	4,606.71	-4.78	23.13	-2.50	0.97	0.86	23.09
4,702.00	1.58	245.87	4,701.67	-5.87	20.73	-3.82	0.03	-0.02	0.61



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)
4,797.00	1.46	245.51	4,796.64	-6.91	18.43	-5.07	0.13	-0.13	-0.38
4,891.00	0.91	245.57	4,890.62	-7.71	16.66	-6.05	0.59	-0.59	0.06
4,986.00	0.46	147.87	4,985.61	-8.35	16.18	-6.73	1.13	-0.47	-102.84
5,081.00	1.59	120.83	5,080.60	-9.35	17.51	-7.59	1.26	1.19	-28.46
5,176.00	2.31	121.45	5,175.54	-11.02	20.28	-8.99	0.76	0.76	0.65
5,270.00	3.66	128.36	5,269.41	-13.87	24.25	-11.43	1.48	1.44	7.35
5,365.00	4.87	131.05	5,364.15	-18.40	29.66	-15.41	1.29	1.27	2.83
5,460.00	5.57	129.47	5,458.75	-23.98	36.27	-20.32	0.75	0.74	-1.66
5,554.00	7.47	128.80	5,552.14	-30.71	44.55	-26.21	2.02	2.02	-0.71
5,649.00	8.15	128.52	5,646.26	-38.77	54.63	-33.25	0.72	0.72	-0.29
5,744.00	8.87	128.51	5,740.21	-47.53	65.63	-40.88	0.76	0.76	-0.01
5,838.00	10.32	126.05	5,832.90	-56.99	78.11	-49.09	1.60	1.54	-2.62
5,933.00	11.42	126.96	5,926.19	-67.66	92.51	-58.29	1.17	1.16	0.96
6,028.00	12.10	128.07	6,019.20	-79.45	107.86	-68.53	0.75	0.72	1.17
6,123.00	12.47	128.43	6,112.02	-91.97	123.73	-79.43	0.40	0.39	0.38
6,217.00	13.79	130.59	6,203.56	-105.56	140.19	-91.36	1.50	1.40	2.30
6,312.00	14.35	132.77	6,295.71	-120.93	157.43	-104.96	0.81	0.59	2.29
6,407.00	15.21	135.72	6,387.57	-137.84	174.77	-120.10	1.20	0.91	3.11
6,501.00	14.68	136.15	6,478.39	-155.26	191.63	-135.79	0.58	-0.56	0.46
6,665.00	15.65	136.16	6,636.68	-186.20	221.35	-163.68	0.59	0.59	0.01
6,759.00	15.65	135.64	6,727.19	-204.41	239.00	-180.07	0.15	0.00	-0.55
6,854.00	16.02	137.44	6,818.59	-223.23	256.82	-197.06	0.65	0.39	1.89
6,949.00	15.76	136.17	6,909.96	-242.19	274.63	-214.19	0.46	-0.27	-1.34
7,044.00	15.86	133.36	7,001.36	-260.41	293.00	-230.53	0.81	0.11	-2.96
7,139.00	16.10	129.93	7,092.69	-277.78	312.54	-245.90	1.03	0.25	-3.61
7,233.00	16.02	122.26	7,183.04	-293.07	333.50	-259.07	2.26	-0.09	-8.16
7,328.00	15.61	115.35	7,274.45	-305.54	356.14	-269.27	2.03	-0.43	-7.27
7,423.00	15.94	117.10	7,365.87	-316.96	379.31	-278.37	0.61	0.35	1.84
7,517.00	15.31	121.41	7,456.40	-329.30	401.39	-288.50	1.40	-0.67	4.59
7,612.00	15.75	128.92	7,547.94	-343.94	422.13	-301.04	2.17	0.46	7.91
7,707.00	15.47	135.28	7,639.44	-361.05	441.07	-316.21	1.82	-0.29	6.69
7,801.00	15.78	139.04	7,729.97	-379.61	458.27	-333.00	1.13	0.33	4.00
7,896.00	16.08	138.06	7,821.32	-399.15	475.54	-350.76	0.42	0.32	-1.03
7,991.00	15.49	137.08	7,912.74	-418.22	492.97	-368.04	0.68	-0.62	-1.03
8,086.00	15.98	135.47	8,004.18	-436.84	510.78	-384.82	0.69	0.52	-1.69
8,181.00	15.34	135.68	8,095.65	-455.15	528.73	-401.29	0.68	-0.67	0.22
8,275.00	15.72	136.23	8,186.22	-473.24	546.22	-417.59	0.43	0.40	0.59
8,370.00	15.84	135.72	8,277.64	-491.82	564.18	-434.32	0.19	0.13	-0.54
8,465.00	15.34	135.34	8,369.15	-510.04	582.06	-450.71	0.54	-0.53	-0.40
8,560.00	15.86	136.36	8,460.65	-528.37	599.85	-467.21	0.62	0.55	1.07
8,654.00	15.82	134.77	8,551.08	-546.69	617.81	-483.69	0.46	-0.04	-1.69
8,749.00	15.36	133.21	8,642.58	-564.42	636.18	-499.54	0.66	-0.48	-1.64
8,844.00	15.46	132.26	8,734.17	-581.55	654.72	-514.78	0.29	0.11	-1.00
8,938.00	15.77	131.36	8,824.70	-598.42	673.58	-529.72	0.42	0.33	-0.96



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)
9,033.00	15.32	127.48	8,916.23	-614.59	693.23	-543.89	1.19	-0.47	-4.08
9,128.00	15.92	127.85	9,007.72	-630.22	713.48	-557.47	0.64	0.63	0.39
9,222.00	15.40	127.90	9,098.23	-645.79	733.50	-571.01	0.55	-0.55	0.05
9,317.00	15.19	130.71	9,189.86	-661.66	752.89	-584.91	0.81	-0.22	2.96
9,412.00	15.58	132.20	9,281.46	-678.35	771.78	-599.67	0.58	0.41	1.57
9,507.00	12.91	124.66	9,373.54	-692.96	789.96	-612.43	3.42	-2.81	-7.94
9,601.00	8.08	114.18	9,465.95	-701.64	804.64	-619.64	5.50	-5.14	-11.15
9,714.00	5.33	115.97	9,578.16	-707.19	816.60	-623.99	2.44	-2.43	1.58
9,809.00	7.76	121.06	9,672.54	-712.43	826.06	-628.29	2.63	2.56	5.36
9,904.00	9.23	122.29	9,766.49	-719.81	838.00	-634.46	1.56	1.55	1.29
9,998.00	10.48	122.63	9,859.10	-728.45	851.57	-641.73	1.33	1.33	0.36
10,093.00	9.36	120.36	9,952.68	-737.01	865.52	-648.89	1.25	-1.18	-2.39
10,188.00	12.05	107.54	10,046.03	-743.91	881.64	-654.18	3.77	2.83	-13.49
10,233.00	15.80	96.43	10,089.71	-746.01	892.21	-655.24	10.20	8.33	-24.69
10,282.00	20.07	85.37	10,136.33	-746.08	907.24	-653.84	11.11	8.71	-22.57
10,377.00	26.12	64.46	10,223.82	-735.72	942.44	-640.09	10.64	6.37	-22.01
10,440.00	29.10	60.27	10,279.65	-722.14	968.27	-624.05	5.64	4.73	-6.65
10,472.00	29.02	61.13	10,307.62	-714.54	981.82	-615.15	1.33	-0.25	2.69
10,566.00	36.64	43.99	10,386.72	-683.23	1,021.41	-580.13	12.72	8.11	-18.23
10,662.00	50.22	24.61	10,456.58	-628.59	1,056.99	-522.27	19.69	14.15	-20.19
10,755.00	54.36	14.06	10,513.56	-559.29	1,081.11	-450.95	10.01	4.45	-11.34
10,803.88	61.21	7.72	10,539.62	-518.72	1,088.83	-409.82	17.78	14.01	-12.96
SL: 10803.88' MD, 61.21° Inc, 7.72° Azm									
10,850.00	67.91	2.48	10,559.43	-477.28	1,092.47	-368.22	17.78	14.53	-11.37
10,911.48	77.54	359.28	10,577.67	-418.65	1,093.33	-309.79	16.43	15.67	-5.20
FTP: 10911.48' MD, 77.54° Inc, 359.28° Azm									
10,945.00	82.81	357.65	10,583.39	-385.65	1,092.45	-277.03	16.43	15.72	-4.87
11,040.00	89.35	357.69	10,589.88	-291.00	1,088.59	-183.21	6.88	6.88	0.04
11,074.00	89.93	357.72	10,590.09	-257.03	1,087.23	-149.54	1.71	1.71	0.09
11,141.00	90.96	357.71	10,589.57	-190.09	1,084.56	-83.17	1.54	1.54	-0.01
11,235.00	91.30	358.09	10,587.72	-96.17	1,081.12	9.96	0.54	0.36	0.40
11,330.00	91.41	358.00	10,585.47	-1.25	1,077.88	104.11	0.15	0.12	-0.09
11,426.00	91.10	357.81	10,583.37	94.66	1,074.37	199.22	0.38	-0.32	-0.20
11,522.00	90.29	358.26	10,582.20	190.60	1,071.08	294.37	0.97	-0.84	0.47
11,618.00	89.68	358.31	10,582.23	286.56	1,068.20	389.59	0.64	-0.64	0.05
11,713.00	89.39	358.57	10,583.00	381.52	1,065.62	483.84	0.41	-0.31	0.27
11,807.00	89.25	357.63	10,584.11	475.46	1,062.50	577.03	1.01	-0.15	-1.00
11,902.00	89.35	357.24	10,585.27	570.35	1,058.25	671.05	0.42	0.11	-0.41
11,997.00	89.40	356.86	10,586.31	665.22	1,053.36	764.99	0.40	0.05	-0.40
12,091.00	88.99	357.04	10,587.63	759.08	1,048.36	857.91	0.48	-0.44	0.19
12,186.00	89.03	358.19	10,589.27	853.98	1,044.41	951.97	1.21	0.04	1.21
12,280.00	89.70	359.94	10,590.32	947.96	1,042.87	1,045.35	1.99	0.71	1.86
12,375.00	89.65	0.69	10,590.85	1,042.96	1,043.40	1,139.94	0.79	-0.05	0.79



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)
12,470.00	89.62	2.66	10,591.46	1,137.91	1,046.17	1,234.71	2.07	-0.03	2.07
12,565.00	89.91	2.98	10,591.85	1,232.79	1,050.85	1,329.60	0.45	0.31	0.34
12,659.00	90.40	1.91	10,591.59	1,326.71	1,054.86	1,423.45	1.25	0.52	-1.14
12,754.00	90.15	0.36	10,591.14	1,421.68	1,056.74	1,518.16	1.65	-0.26	-1.63
12,849.00	90.09	358.63	10,590.94	1,516.68	1,055.90	1,612.61	1.82	-0.06	-1.82
12,944.00	89.93	358.15	10,590.92	1,611.64	1,053.23	1,706.86	0.53	-0.17	-0.51
13,038.00	89.97	358.60	10,591.01	1,705.60	1,050.57	1,800.11	0.48	0.04	0.48
13,133.00	90.16	357.97	10,590.90	1,800.56	1,047.72	1,894.34	0.69	0.20	-0.66
13,228.00	89.83	357.91	10,590.91	1,895.49	1,044.31	1,988.49	0.35	-0.35	-0.06
13,323.00	89.84	357.87	10,591.18	1,990.43	1,040.81	2,082.63	0.04	0.01	-0.04
13,417.00	89.61	357.79	10,591.63	2,084.36	1,037.25	2,175.76	0.26	-0.24	-0.09
13,512.00	89.45	359.00	10,592.41	2,179.32	1,034.59	2,270.00	1.28	-0.17	1.27
13,607.00	89.78	359.71	10,593.05	2,274.31	1,033.52	2,364.44	0.82	0.35	0.75
13,702.00	89.85	0.06	10,593.35	2,369.31	1,033.33	2,458.96	0.38	0.07	0.37
13,797.00	89.71	0.00	10,593.72	2,464.31	1,033.38	2,553.51	0.16	-0.15	-0.06
13,891.00	89.84	0.25	10,594.09	2,558.31	1,033.59	2,647.08	0.30	0.14	0.27
13,986.00	90.36	0.29	10,593.92	2,653.31	1,034.03	2,741.67	0.55	0.55	0.04
14,081.00	90.34	0.28	10,593.34	2,748.30	1,034.51	2,836.25	0.02	-0.02	-0.01
14,175.00	90.28	0.29	10,592.83	2,842.30	1,034.97	2,929.85	0.06	-0.06	0.01
14,270.00	90.54	359.86	10,592.15	2,937.30	1,035.10	3,024.40	0.53	0.27	-0.45
14,364.00	90.16	0.40	10,591.58	3,031.30	1,035.31	3,117.97	0.70	-0.40	0.57
14,459.00	90.25	359.78	10,591.24	3,126.29	1,035.46	3,212.53	0.66	0.09	-0.65
14,554.00	90.09	359.30	10,590.96	3,221.29	1,034.70	3,307.00	0.53	-0.17	-0.51
14,649.00	89.86	359.59	10,591.00	3,316.29	1,033.78	3,401.45	0.39	-0.24	0.31
14,743.00	89.82	0.08	10,591.26	3,410.28	1,033.51	3,494.97	0.52	-0.04	0.52
14,838.00	89.67	0.39	10,591.68	3,505.28	1,033.90	3,589.55	0.36	-0.16	0.33
14,933.00	89.74	359.89	10,592.17	3,600.28	1,034.13	3,684.12	0.53	0.07	-0.53
15,028.00	89.90	358.83	10,592.47	3,695.27	1,033.07	3,778.55	1.13	0.17	-1.12
15,122.00	89.33	359.11	10,593.10	3,789.26	1,031.38	3,871.92	0.68	-0.61	0.30
15,217.00	89.34	0.20	10,594.21	3,884.25	1,030.81	3,966.40	1.15	0.01	1.15
15,312.00	89.27	0.23	10,595.36	3,979.24	1,031.16	4,060.97	0.08	-0.07	0.03
15,406.00	89.80	0.23	10,596.12	4,073.23	1,031.54	4,154.55	0.56	0.56	0.00
15,501.00	89.20	0.28	10,596.95	4,168.23	1,031.96	4,249.13	0.63	-0.63	0.05
15,595.00	89.30	0.54	10,598.18	4,262.22	1,032.64	4,342.74	0.30	0.11	0.28
15,690.00	88.79	0.42	10,599.76	4,357.20	1,033.43	4,437.35	0.55	-0.54	-0.13
15,785.00	89.28	0.46	10,601.36	4,452.18	1,034.16	4,531.95	0.52	0.52	0.04
15,879.00	88.99	0.06	10,602.78	4,546.17	1,034.59	4,625.52	0.53	-0.31	-0.43
15,974.00	88.37	359.61	10,604.97	4,641.15	1,034.31	4,720.02	0.81	-0.65	-0.47
16,069.00	88.60	359.56	10,607.48	4,736.11	1,033.63	4,814.46	0.25	0.24	-0.05
16,094.75	88.77	359.84	10,608.08	4,761.85	1,033.49	4,840.07	1.26	0.65	1.09
SL: 16094.75' MD, 88.77° Inc, 359.84° Azm									
16,163.00	89.21	0.58	10,609.28	4,830.09	1,033.74	4,908.00	1.26	0.65	1.09
16,258.00	90.67	0.54	10,609.38	4,925.08	1,034.67	5,002.63	1.54	1.54	-0.04
16,353.00	92.52	0.32	10,606.74	5,020.04	1,035.38	5,097.20	1.96	1.95	-0.23



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)
16,447.00	91.65	359.04	10,603.32	5,113.97	1,034.86	5,190.63	1.65	-0.93	-1.36
16,542.00	90.46	358.69	10,601.57	5,208.94	1,032.98	5,284.96	1.31	-1.25	-0.37
16,637.00	87.86	359.44	10,602.96	5,303.91	1,031.43	5,379.32	2.85	-2.74	0.79
16,732.00	92.29	1.31	10,602.83	5,398.88	1,032.05	5,473.90	5.06	4.66	1.97
16,826.00	92.32	1.26	10,599.05	5,492.78	1,034.15	5,567.55	0.06	0.03	-0.05
16,921.00	91.05	359.74	10,596.26	5,587.73	1,034.98	5,662.13	2.08	-1.34	-1.60
17,016.00	89.13	0.52	10,596.11	5,682.72	1,035.20	5,756.69	2.18	-2.02	0.82
17,111.00	89.27	0.55	10,597.44	5,777.71	1,036.08	5,851.31	0.15	0.15	0.03
17,205.00	89.40	359.66	10,598.53	5,871.70	1,036.26	5,944.87	0.96	0.14	-0.95
17,300.00	89.91	359.25	10,599.10	5,966.69	1,035.35	6,039.32	0.69	0.54	-0.43
17,395.00	89.10	357.67	10,599.92	6,061.65	1,032.80	6,133.57	1.87	-0.85	-1.66
17,490.00	88.54	356.85	10,601.88	6,156.52	1,028.26	6,227.55	1.05	-0.59	-0.86
17,585.00	90.12	357.36	10,602.99	6,251.39	1,023.46	6,321.49	1.75	1.66	0.54
17,679.00	87.14	358.35	10,605.24	6,345.29	1,019.94	6,414.59	3.34	-3.17	1.05
17,774.00	88.87	358.50	10,608.54	6,440.19	1,017.34	6,508.79	1.83	1.82	0.16
17,869.00	90.32	358.82	10,609.21	6,535.16	1,015.11	6,603.08	1.56	1.53	0.34
17,964.00	89.68	358.38	10,609.21	6,630.13	1,012.79	6,697.37	0.82	-0.67	-0.46
18,059.00	89.61	357.70	10,609.80	6,725.07	1,009.54	6,791.54	0.72	-0.07	-0.72
18,153.00	90.33	358.00	10,609.85	6,819.01	1,006.02	6,884.68	0.83	0.77	0.32
18,248.00	90.27	358.08	10,609.36	6,913.95	1,002.77	6,978.85	0.11	-0.06	0.08
18,343.00	90.53	357.99	10,608.69	7,008.89	999.51	7,073.02	0.29	0.27	-0.09
18,438.00	90.70	357.53	10,607.67	7,103.81	995.80	7,167.13	0.52	0.18	-0.48
18,532.00	90.19	357.84	10,606.94	7,197.73	992.00	7,260.23	0.63	-0.54	0.33
18,627.00	89.68	359.34	10,607.05	7,292.70	989.66	7,354.51	1.67	-0.54	1.58
18,722.00	90.59	0.56	10,606.83	7,387.70	989.58	7,449.05	1.60	0.96	1.28
18,817.00	90.28	0.82	10,606.10	7,482.69	990.72	7,543.69	0.43	-0.33	0.27
18,911.00	90.10	0.47	10,605.79	7,576.68	991.78	7,637.34	0.42	-0.19	-0.37
19,006.00	90.41	0.80	10,605.37	7,671.67	992.84	7,731.98	0.48	0.33	0.35
19,101.00	89.55	0.51	10,605.40	7,766.67	993.92	7,826.62	0.96	-0.91	-0.31
19,195.00	89.72	0.78	10,606.00	7,860.66	994.98	7,920.27	0.34	0.18	0.29
19,290.00	89.78	1.06	10,606.42	7,955.64	996.51	8,014.95	0.30	0.06	0.29
19,385.00	90.07	1.29	10,606.54	8,050.62	998.45	8,109.67	0.39	0.31	0.24
19,479.00	90.35	0.67	10,606.20	8,144.61	1,000.06	8,203.36	0.72	0.30	-0.66
19,574.00	90.62	0.69	10,605.39	8,239.60	1,001.19	8,298.00	0.28	0.28	0.02
19,669.00	90.31	0.50	10,604.62	8,334.59	1,002.17	8,392.64	0.38	-0.33	-0.20
19,764.00	90.32	0.59	10,604.10	8,429.59	1,003.08	8,487.26	0.10	0.01	0.09
19,859.00	90.36	0.56	10,603.54	8,524.58	1,004.03	8,581.90	0.05	0.04	-0.03
19,953.00	90.38	0.53	10,602.93	8,618.57	1,004.93	8,675.53	0.04	0.02	-0.03
20,048.00	90.44	0.48	10,602.25	8,713.57	1,005.76	8,770.15	0.08	0.06	-0.05
20,143.00	90.81	359.96	10,601.21	8,808.56	1,006.13	8,864.72	0.67	0.39	-0.55
20,237.00	90.33	358.98	10,600.28	8,902.55	1,005.26	8,958.18	1.16	-0.51	-1.04
20,332.00	90.68	357.98	10,599.44	8,997.51	1,002.74	9,052.44	1.12	0.37	-1.05
20,427.00	90.12	357.98	10,598.78	9,092.45	999.39	9,146.59	0.59	-0.59	0.00



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 23H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3714.70usft (H&P 466)
Site:	Dr Pi Fed Unit 17_8 DA	MD Reference:	RKB @ 3714.70usft (H&P 466)
Well:	Dr Pi Fed Unit 17_8 DA 23H	North Reference:	Grid
Wellbore:	OH / 70783	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)	
20,522.00	90.33	358.13	10,598.40	9,187.39	996.17	9,240.77	0.27	0.22	0.16	
20,616.00	90.50	358.38	10,597.72	9,281.35	993.30	9,333.99	0.32	0.18	0.27	
20,711.00	90.25	358.94	10,597.10	9,376.32	991.08	9,428.29	0.65	-0.26	0.59	
20,806.00	90.39	358.62	10,596.57	9,471.30	989.06	9,522.62	0.37	0.15	-0.34	
20,901.00	90.32	359.02	10,595.98	9,566.27	987.10	9,616.95	0.43	-0.07	0.42	
20,995.00	90.41	358.86	10,595.38	9,660.26	985.36	9,710.31	0.20	0.10	-0.17	
21,090.00	90.36	358.75	10,594.74	9,755.23	983.38	9,804.64	0.13	-0.05	-0.12	
21,185.00	90.06	358.46	10,594.40	9,850.20	981.07	9,898.93	0.44	-0.32	-0.31	
21,223.00	90.45	358.48	10,594.23	9,888.19	980.06	9,936.64	1.03	1.03	0.05	
Final Phoenix MWD Survey										
21,276.90	90.45	358.48	10,593.80	9,942.07	978.63	9,990.12	0.00	0.00	0.00	
LTP: 21276.90' MD, 90.45° Inc, 358.48° Azm										
21,338.00	90.45	358.48	10,593.32	10,003.15	977.01	10,050.74	0.00	0.00	0.00	
Projection to TD										

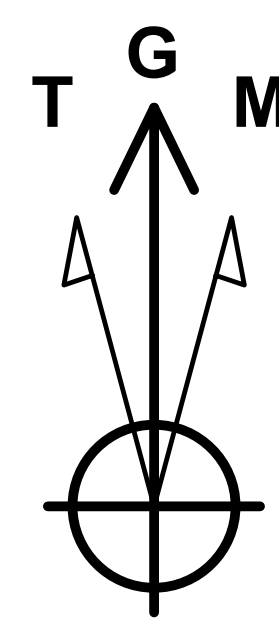
Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
896.49	896.48	-1.66	2.43	Tie In	
1,007.00	1,006.99	-1.31	2.59	First Phoenix MWD Survey	
10,803.88	10,539.62	-518.72	1,088.83	SL: 10803.88' MD, 61.21° Inc, 7.72° Azm	
10,911.48	10,577.67	-418.65	1,093.33	FTP: 10911.48' MD, 77.54° Inc, 359.28° Azm	
16,094.75	10,608.08	4,761.85	1,033.49	SL: 16094.75' MD, 88.77° Inc, 359.84° Azm	
21,223.00	10,594.23	9,888.19	980.06	Final Phoenix MWD Survey	
21,276.90	10,593.80	9,942.07	978.63	LTP: 21276.90' MD, 90.45° Inc, 358.48° Azm	
21,338.00	10,593.32	10,003.15	977.01	Projection to TD	



Project: Lea County, NM (NAD83-NME)
Site: Dr Pi Fed Unit 17_8 DA
Well: Dr Pi Fed Unit 17_8 DA 23H
Wellbore: OH / 70783
Design: Plan 1 10-17-22
Rig: H&P 466



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.33°

Magnetic Field
Strength: 47797.0nT
Dip Angle: 60.13°
Date: 10/27/2022
Model: IFR

WELL DETAILS											
					Ground Level:		3689.70				
	+N-S		+E-W		Northing		Easting		Latitude		Longitude
	0.00		0.00		504658.88		736334.65		32° 23' 8.855965 N		103° 42' 5.875816 W
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target	Annotation
1	896.49	0.09	174.78	896.48	-1.66	2.43	0.00	0.000	-1.41		Plan Tie In
2	1066.49	0.09	174.78	1066.48	-1.92	2.45	0.00	0.000	-1.67		Begin 0.50°/100' Drop
3	1084.49	0.00	0.00	1084.48	-1.94	2.45	0.50	180.000	-1.69		Begin Vertical Hold
4	4855.01	0.00	0.00	4855.00	-1.94	2.45	0.00	0.000	-1.69		KOP, Begin 10.00°/100' Build
5	6447.44	15.92	131.29	6427.01	-147.03	167.66	1.00	131.290	-129.94		Hold 15.92° Inc at 131.29° Azm
6	10092.97	15.92	131.29	9932.64	-807.04	919.19	0.00	0.000	-713.34		KOP2, Begin 10.00°/100' Build & Turn
7	11099.10	90.10	359.60	10595.24	-241.75	1056.63	10.00	-130.563	-137.32		LP, Hold 90.10° Inc at 359.60° Azm
8	21363.26	90.10	359.60	10577.42	10022.14	984.25	0.00	0.000	10070.35	BHL - DPFU DA 23H	TD at 21363.26

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
889.70	889.71	RUSTLER	
1191.70	1191.71	SALADO	
2798.70	2798.71	CASTILE	
4774.70	4774.71	DELAWARE	
4848.70	4848.71	BELL CANYON	
5691.77	5694.78	CHERRY CANYON	
6890.06	6928.97	BRUSHY CANYON	
8621.56	8729.57	BONE SPRING	
9717.88	9869.64	BONE SPRING 1ST	
9964.95	10126.41	Second Bone Spring Limestone	
10375.74	10572.74	BONE SPRING 2ND	
10595.24	11098.90	10595' TVD @ 0° VS 90.1° INC	

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

Local Origin: Well Dr Pi Fed Unit 17_8 DA 23H, Grid North

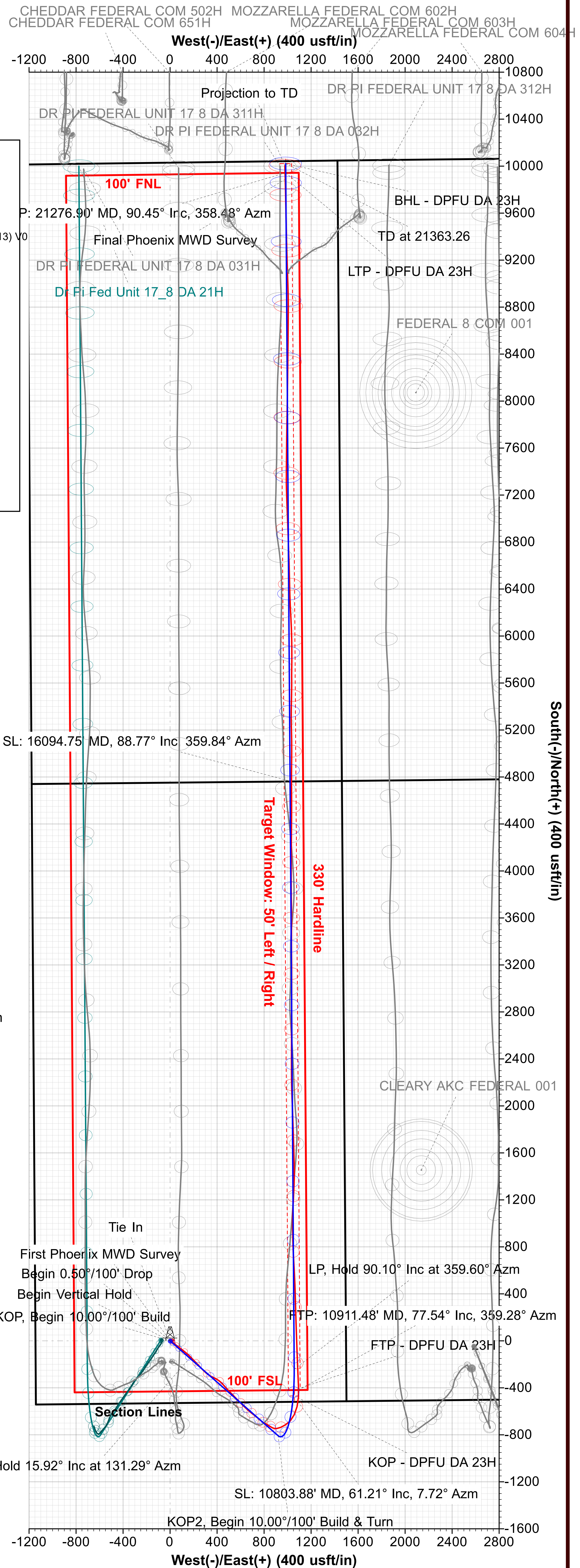
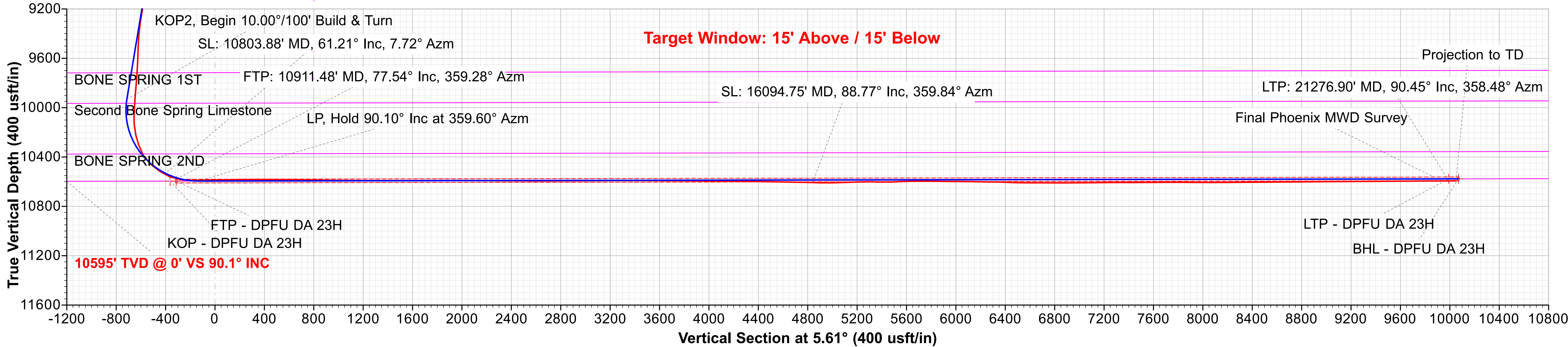
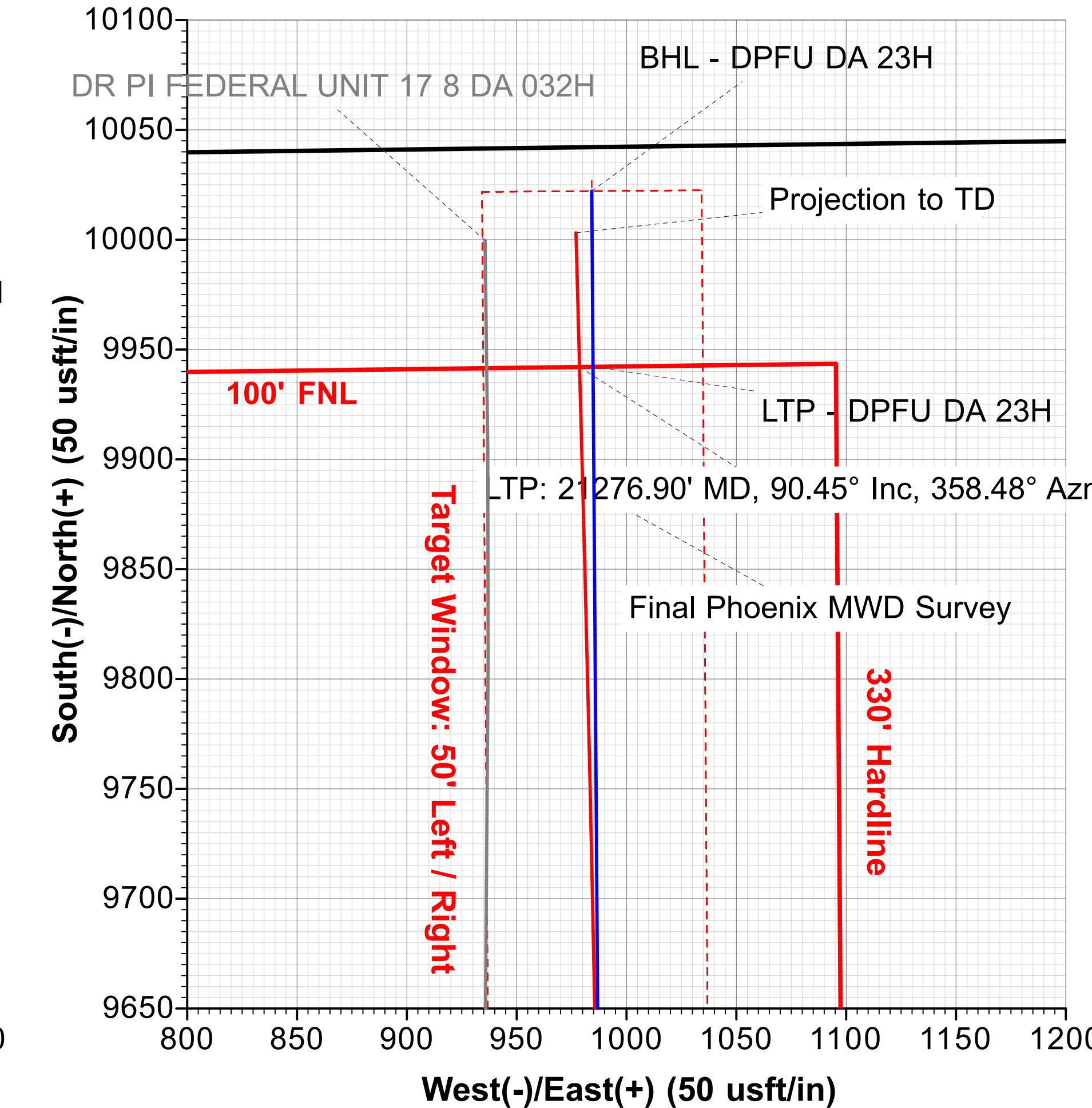
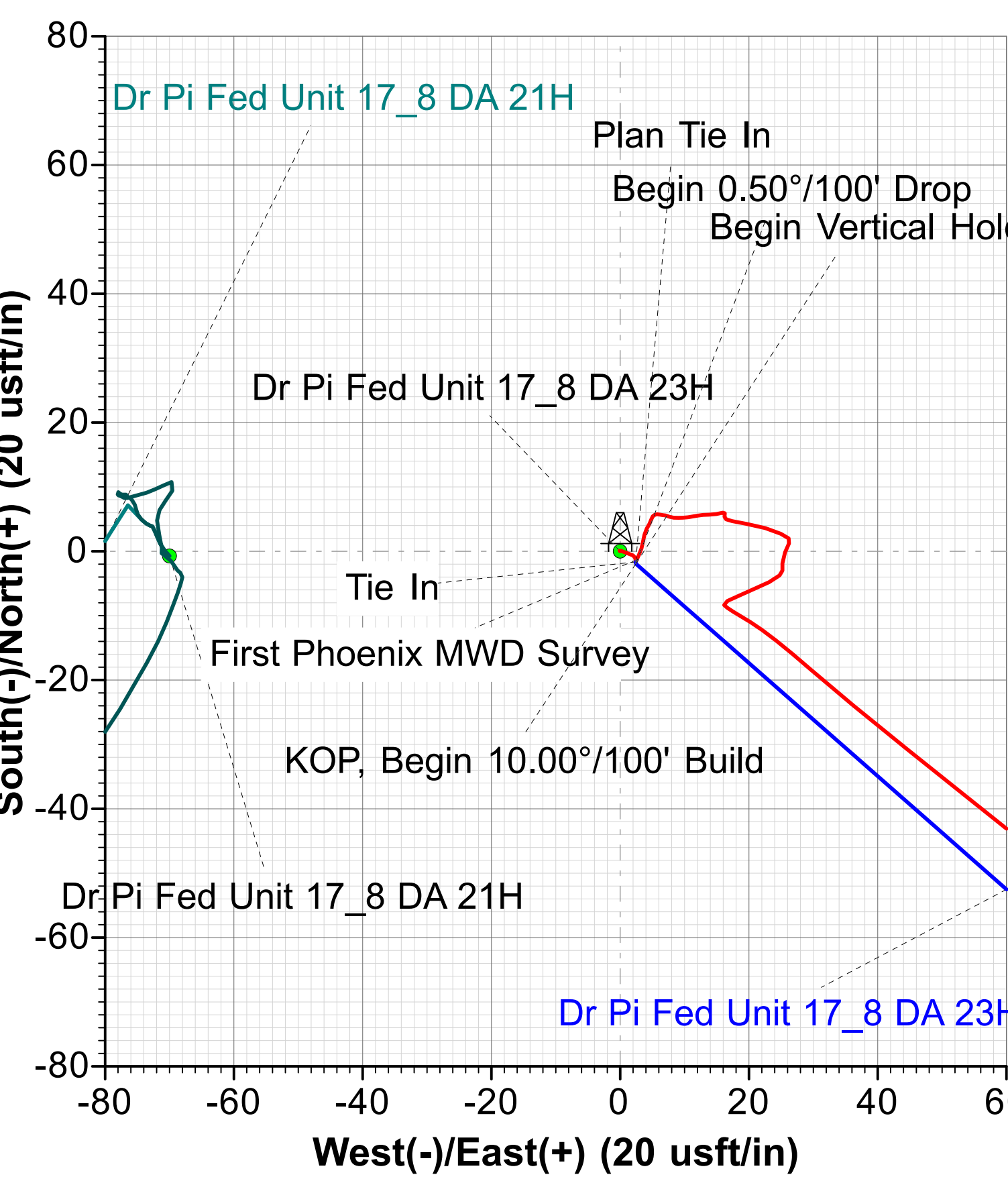
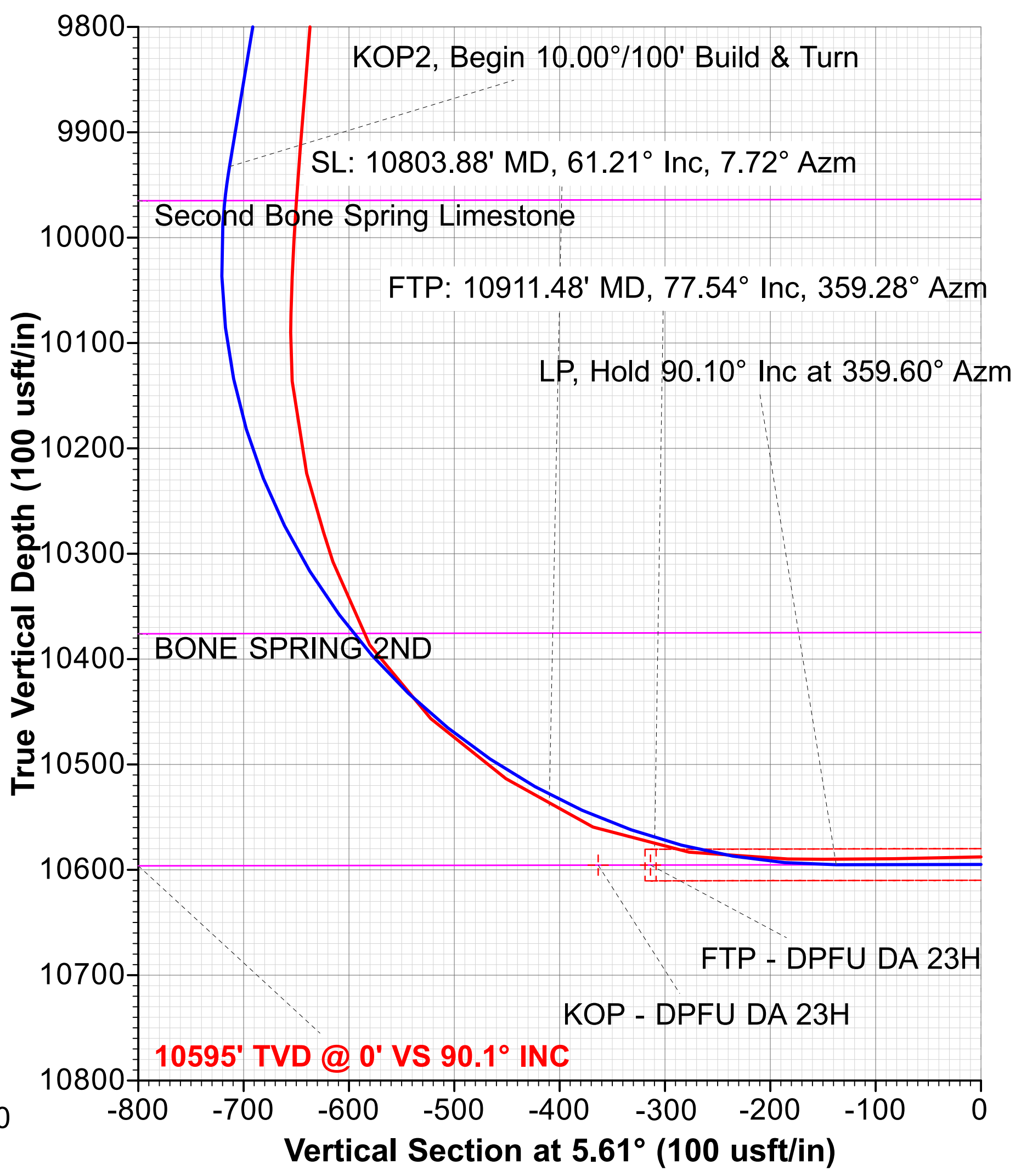
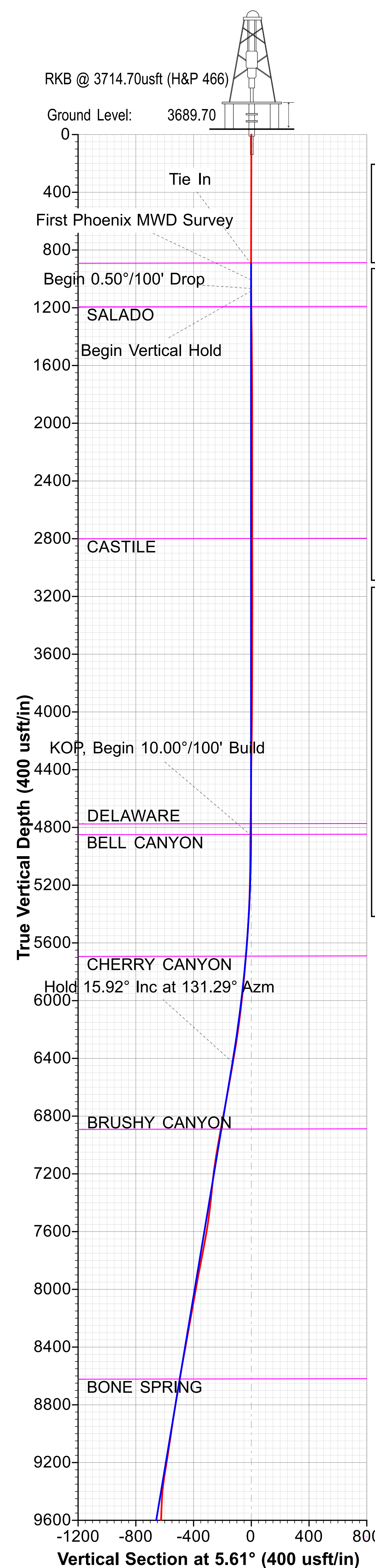
Latitude: 32° 23' 8.855965 N
Longitude: 103° 42' 5.875816 W

Grid East: 736334.65
Grid North: 504658.88
Scale Factor: 1.000

Geomagnetic Model: IFR
Sample Date: 27-Oct-22
Magnetic Declination: 6.667°
Dip Angle from Horizontal: 60.132°
Magnetic Field Strength: 47797.0000000nT

To convert a Magnetic Direction to a Grid Direction, Add 6.329°
To convert a Magnetic Direction to a True Direction, Add 6.667° East
To convert a True Direction to a Grid Direction, Subtract 0.338°

- LEGEND**
- DR PI FEDERAL UNIT 17 8 DA 312H, OH, Surveys V0
 - DR PI FEDERAL UNIT 17 8 DA 034H, OH, Surveys V0
 - DR PI FEDERAL UNIT 17 8 DA 032H, OH, Surveys V0
 - MOZZARELLA FEDERAL COM 604H, OH / 67825, Surveys (H&P 313) V0
 - CLEARY AKC FEDERAL 001, OH, Surveys - INC ONLY V0
 - Dr Pi Fed Unit 17_8 DA 21H, OH / 70782, Plan 1 10-17-22 V0
 - Dr Pi Fed Unit 17_8 DA 21H, OH / 70782, Surveys (H&P 466) V0
 - CHEDDAR FEDERAL COM 651H, OH, Surveys (H&P 313) V0
 - CHEDDAR FEDERAL COM 501H, OH, Surveys (H&P 313) V0
 - CHEDDAR FEDERAL COM 502H, OH, Surveys (H&P 313) V0
 - Dr Pi Fed Unit 17_8 DA 25H, OH / 70666, Plan 2 10-05-22 V0
 - Dr Pi Fed Unit 17_8 DA 25H, OH / 70666, Surveys (H&P 605) V0
 - DR PI FEDERAL UNIT 17 8 DA 311H, OH, Surveys V0
 - Dr Pi Fed Unit 17_8 DA 23H, OH / 70783, Surveys (H&P 466) V0
 - DR PI FEDERAL UNIT 17 8 DA 031H, OH, Surveys V0
 - CHEDDAR FEDERAL COM 401H, OH, Surveys (H&P 313) V0
 - FEDERAL 8 COM 001, OH, Surveys - INC ONLY V0
 - MOZZARELLA FEDERAL COM 603H, OH, Surveys (H&P 313) V0
 - MOZZARELLA FEDERAL COM 602H, OH, Surveys (H&P 313) V0
 - CHEDDAR 3BS FEDERAL COM 001H, OH, Surveys V0
 - Plan 1 10-17-22





U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

07/08/2025

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Section 1 - General

Well Completion Report Id: 87556**Submission Date:** 03-07-2023**BLM Office:** Carlsbad Field Office**User:** SARAH MCKINNEY**Title:** Regulatory Analyst Sr**Federal/Indian:** FEDERAL**Lease Number:** NMNM128362**Lease Acres:****Agreement in place?:** NO**Federal or Indian Agreement:****Agreement Number:****Agreement Name:****Additional Information****Keep this Well Completion Report confidential?:** YES**APD Operator:** OXY USA
INCORPORATED

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** WOLFCAMP**Field Name:** WC 25 G 9 S 223219D**Well Type:** OIL WELL**Spud Date:** 10-10-2022**Date Total Measured Depth Reached:** 11-16-2022**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
RUSTLER	ANHYDRITE, DOLOMITE, SHALE		3690	916	916	USEABLE WATER	
SALADO	ANHYDRITE, DOLOMITE, HALITE, SHALE		2496	1239	1239	OTHER	SALT
CASTILE	ANHYDRITE		890	3217	3217	OTHER	salt
LAMAR	LIMESTONE, SANDSTONE, SILTSTONE		-1087	4777	4805	NATURAL GAS, OIL, OTHER	BRINE
BELL CANYON	SANDSTONE, SILTSTONE		-1160	4850	4881	NATURAL GAS, OIL, OTHER, USEABLE WATER	BRINE
CHERRY CANYON	SANDSTONE, SILTSTONE		-2003	5643	5645	NATURAL GAS, OIL, OTHER	BRINE
BRUSHY CANYON	LIMESTONE, SANDSTONE, SILTSTONE		-3201	6842	6879	NATURAL GAS, OIL, OTHER	BRINE
BONE SPRING	LIMESTONE, SANDSTONE, SILTSTONE		-4932	8636	8742	NATURAL GAS, OIL	
BONE SPRING 1ST	LIMESTONE, SANDSTONE, SILTSTONE		-6029	9669	9805	NATURAL GAS, OIL	
BONE SPRING 2ND	LIMESTONE, SANDSTONE, SILTSTONE		-6686	10360	10534	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
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Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	X1	1	NMNM128362	NMNM128362	NEW		GLO	12-23-2022	12-30-2022	BONE SPRING 2ND	10966	21192	Y	.42	1229	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	X1	1	Y	FRAC	358738	26677948	Frac with 26,677,948 # 100 mesh and 358738 bbls clean fluid.

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	X1	1	44.6		GAS LIFT		SOLD	

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	X1	1	01/05/2023	24	1680	915	4147	544		796		801

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.3857933	-103.7016322	3690	N/A	N/A	FEDERAL	NMNM128362				530	FSL	1145	FWL	22S	32E	17	SWSW
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.3837342	-103.6987905	-6356	10188	10046	FEDERAL	NMNM078968A				223	FNL	2234	FWL	22S	32E	20	NENW
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.406133	-103.698242	-6960	19013	10650	FEDERAL	NMNM69373				2635	FNL	2199	FWL	22S	32E	8	SENW

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.398874	-103.698232	-6960	13672	10650	FEDERAL	NMNM90586				3	FSL	2199	FWL	22S	32E	8	SESW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.384773	-103.6981031	-6893	10966	10583	FEDERAL	NMNM128362				154	FSL	2234	FWL	22S	32E	17	SESW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.4128714	-103.698265	-6904	21192	10594	FEDERAL	NMNM69373				183	FNL	2195	FWL	22S	32E	8	NENW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.4132726	-103.6982748	-6904	21338	10594	FEDERAL	NMNM69373	10594	21296		37	FNL	2193	FWL	22S	32E	8	NENW

Casing, Liner and Tubing

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	926	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	6545	9.625	40	J-55		BUTT	DQX	
00	PRODUCTION	8.75	0	21318	5.5	20	P-110		OTHER	DQX/SFTOR Q/DQWTOR Q	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		CI C	1150	1.35	0					276.5
00	INTERMEDIATE		Class C	1320	2.86	0	CI C	179	1.35	0	715.4
00	PRODUCTION		CI C	961	2	700	CI C	2420	1.34	700	919.9

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.375		10648		4	L-80		N/A	

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name DR AWKWARD 17-8 FEDERAL COM	Well Pad Number 21H, 22H, 23H, 31H, 32H, 33H, 311H	APD ID 10400050282

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: OXY USA INCORPORATED

Signed By: SARAH MCKINNEY

Title: Regulatory Analyst Sr

Signed on: 03/07/2023

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON

State: TX

Zip: 77046

Phone: (713)215-7295

Email address: SARAH_MCKINNEY@OXY.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Operator Name OXY USA INCORPORATED	Well Name DR PI FEDERAL UNIT 17_8	Well Number 23H	US Well Number 3002548947
SHL SWSW Sec 17 22S 32E	County LEA	State NM	Lease Number(s) NMNM128362
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Attachments

Dr_Pi_23H_RCBL_20230307110819.tif

Dr_Pi_Fed_Unit_17_8_DA_23H___Final_Survey_Report_20230307110851.pdf

DR_PI_FEDERAL_UNIT_17_8_DA_23H_C102_20230307110910.pdf

Dr_Pi_Fed_Unit_17_8_DA_23H___Wellbore_Diagram_20230307111455.pdf

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 482776

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 482776
	Action Type: [C-105] Well (Re)Completion (C-105)

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.
☒	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.
☐	I hereby certify that no additives containing PFAS chemicals were added to the fluid used in the completion or recompletion of this well.

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 482776

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 482776
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	10/31/2025