

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Section 1 - Operator and Well Information

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: OXY USA INC	OGRID: 16696
Property Name and Well Number: LOST TANK 30-19 FEDERAL COM 22H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-47543
Pool Name: Bilbrey Basin; Bone Spring, South	Pool Code: 97366

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	19	22S	32E		353 FNL	2049 FWL	32.383303°	-103.716312°	LEA

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Gas lift	07/18/24	10785'-21017'MD	10527'-10609'TVD

Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☒ Yes ☐ No, Order No. Pending w/ BLM
Surface Casing Action ID: 374350	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374350	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: NA	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 374350	Surface Commingling: ☒ Yes ☐ No, Order No. PLC-844
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: NA	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's 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.	
Name Jana Mendiola	<i>Jana Mendiola</i>
Title Regulatory Advisor	Date 10/22/24

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
		☒ As Drilled	

WELL LOCATION INFORMATION

API Number 30-025-47543	Pool Code 97366	Pool Name Bilbrey Basin; Bone Spring, South
Property Code 322423	Property Name LOST TANK 30-19 FED COM	Well Number 22H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3619.7'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL C	Section 19	Township 22S	Range 32E	Lot	Ft. from N/S 353 NORTH	Ft. from E/W 2049 WEST	Latitude (NAD 83) 32.383303°	Longitude (NAD 83) -103.716312°	County LEA
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Bottom Hole Location

UL N	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 58 SOUTH	Ft. from E/W 1,636 WEST	Latitude (NAD 83) 32.355392°	Longitude (NAD 83) -103.717632°	County LEA
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Dedicated Acres 678.92	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL N	Section 18	Township 22S	Range 32E	Lot	Ft. from N/S 248 SOUTH	Ft. from E/W 1,770 WEST	Latitude (NAD 83) 32.384952°	Longitude (NAD 83) -103.717215°	County LEA
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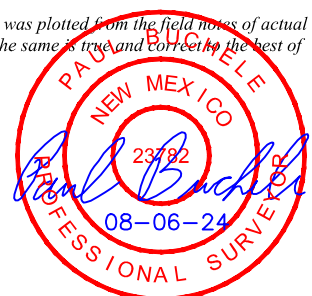
First Take Point (FTP)

UL C	Section 19	Township 22S	Range 32E	Lot	Ft. from N/S 154 NORTH	Ft. from E/W 1,696 WEST	Latitude (NAD 83) 32.383845°	Longitude (NAD 83) -103.717454°	County LEA
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Last Take Point (LTP)

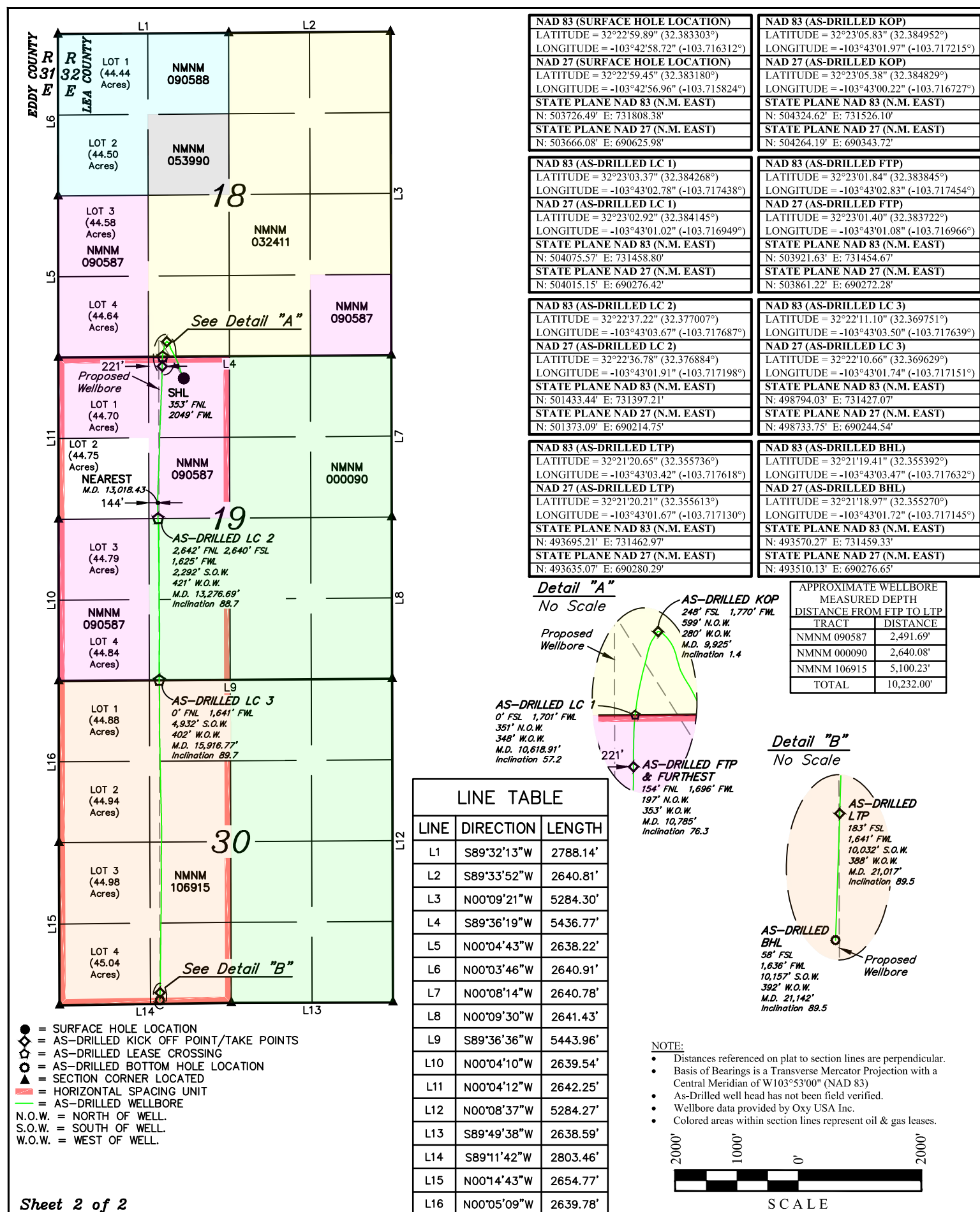
UL N	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 183 SOUTH	Ft. from E/W 1,641 WEST	Latitude (NAD 83) 32.355736°	Longitude (NAD 83) -103.717618°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Jana Mendiola</i> 10/22/24 Signature Date Jana Mendiola Printed Name janalyn_mendiola@oxy.com Email Address	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor 23782 July 18, 2023 Certificate Number Date of Survey
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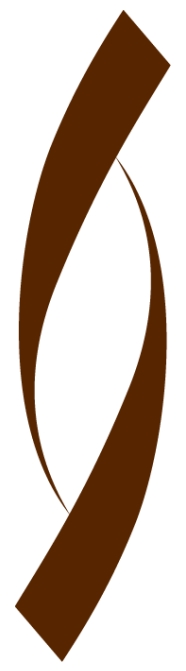
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name LOST TANK 30-19 FED COM	Well Number 22H	Drawn By C.S.C. 08-06-24	Revised By
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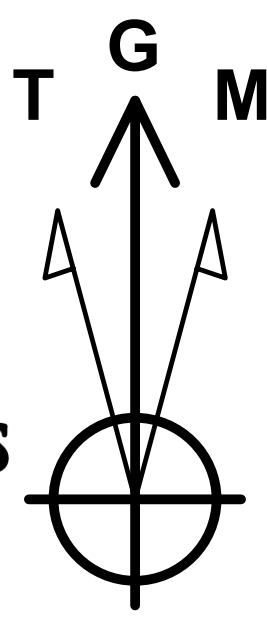




Project: Lea County, NM (NAD83-NME)
Site: Lost Tank 30-19
Well: Lost Tank 30-19 Federal Com 22H
Wellbore: OH / 74693
Design: Plan 2 05-08-24
Rig: Citadel 2

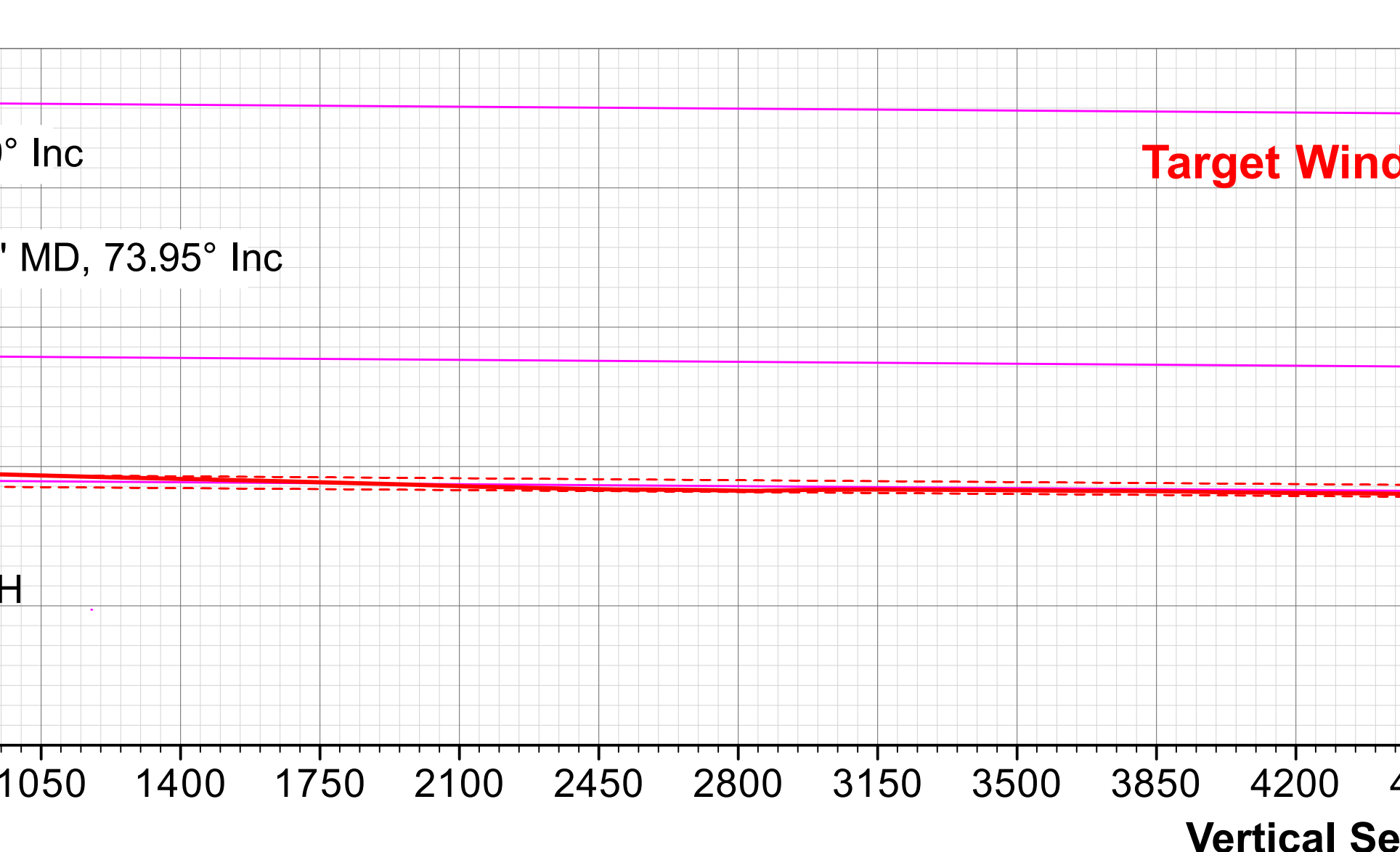
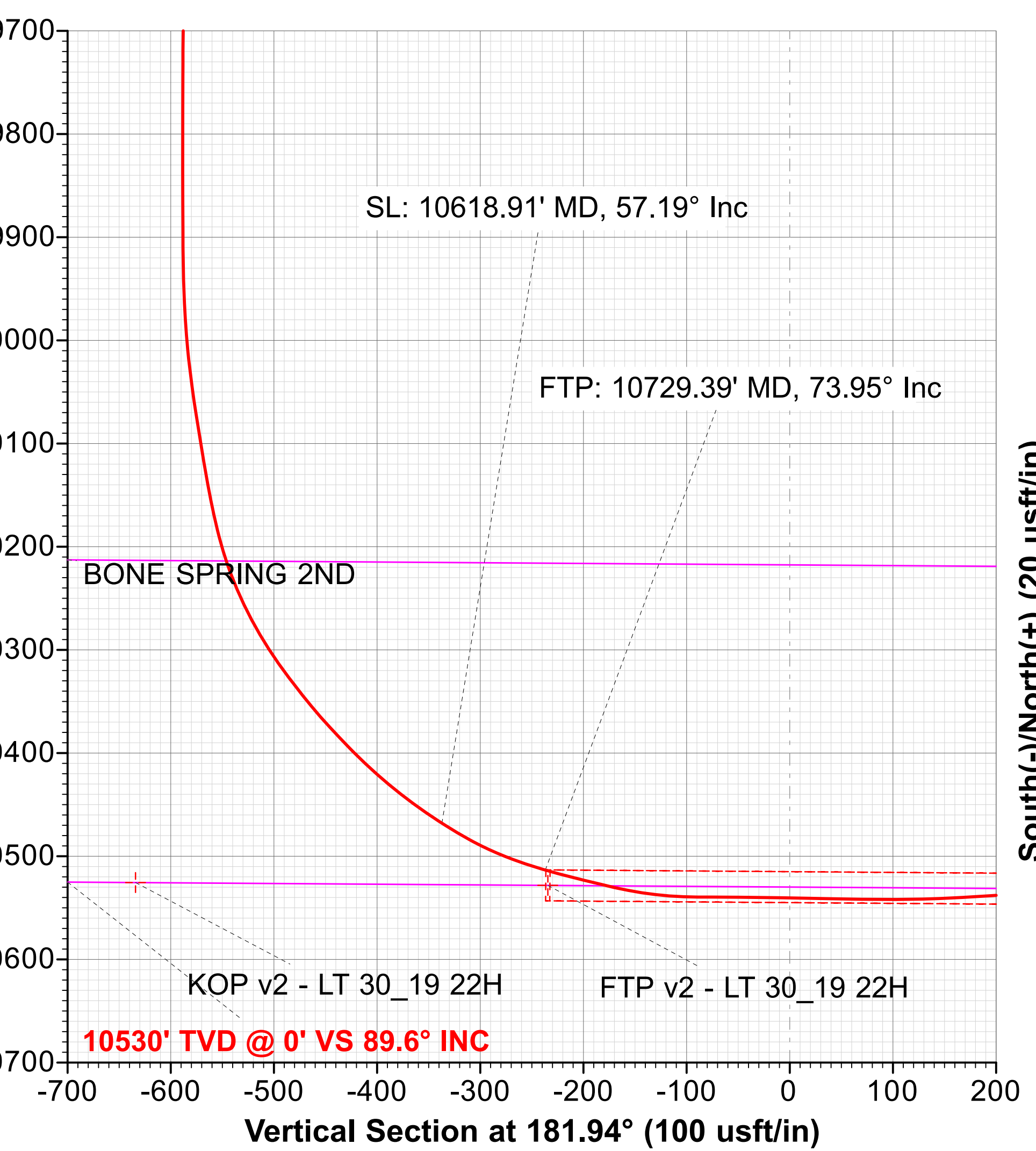
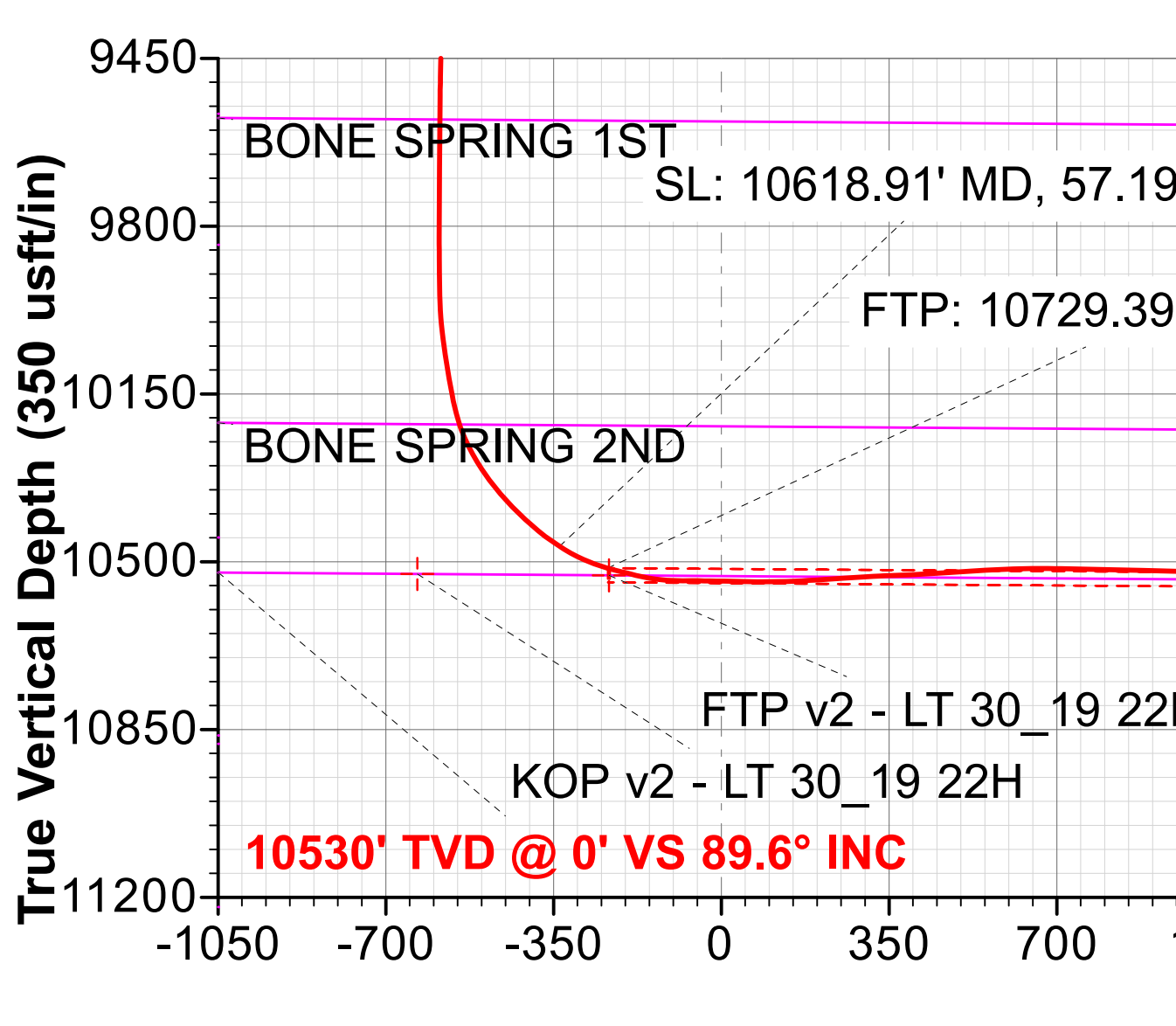
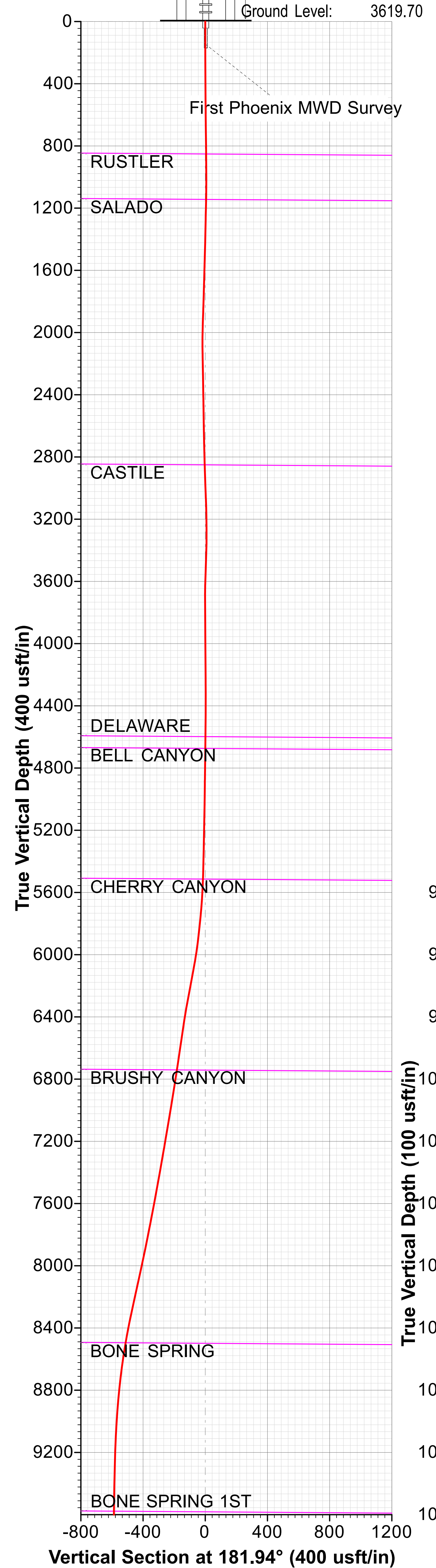
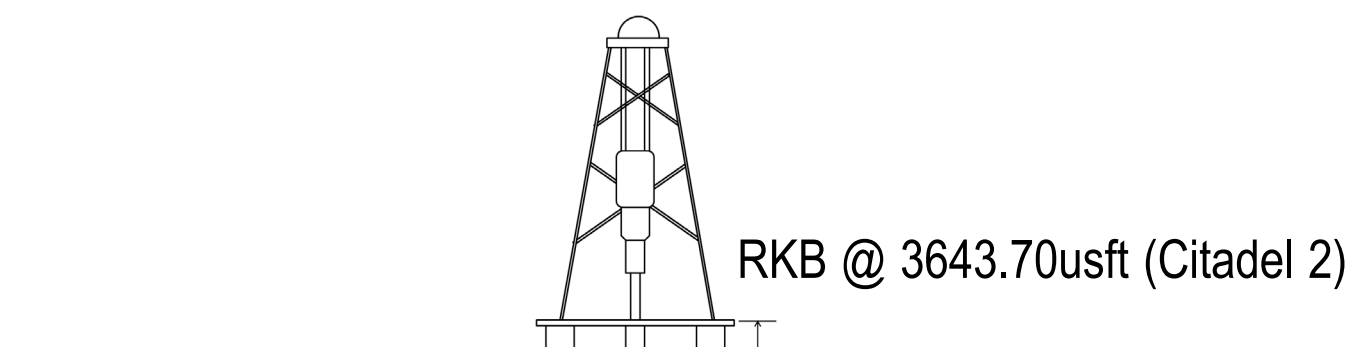


PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.33°
Magnetic North: 6.21°

Magnetic Field
Strength: 47567.4nT
Dip Angle: 59.99°
Date: 5/17/2024
Model: IFR

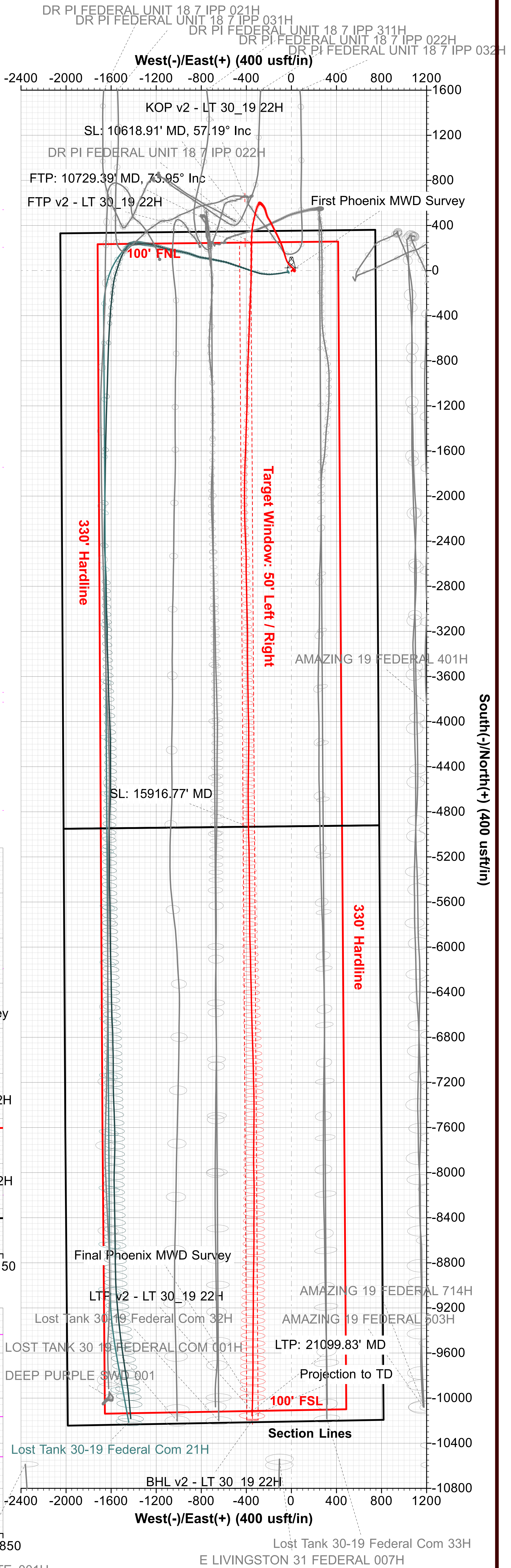
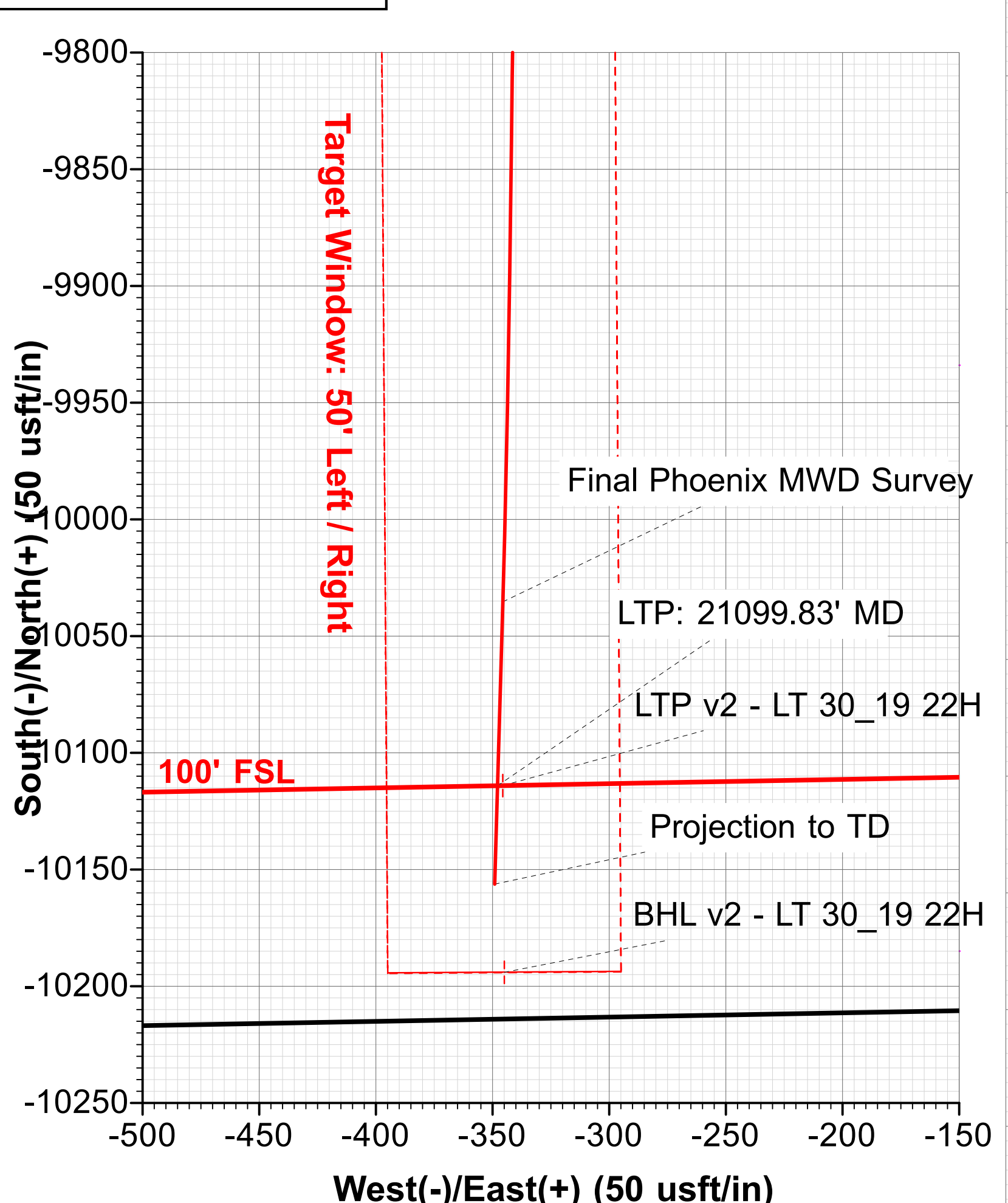
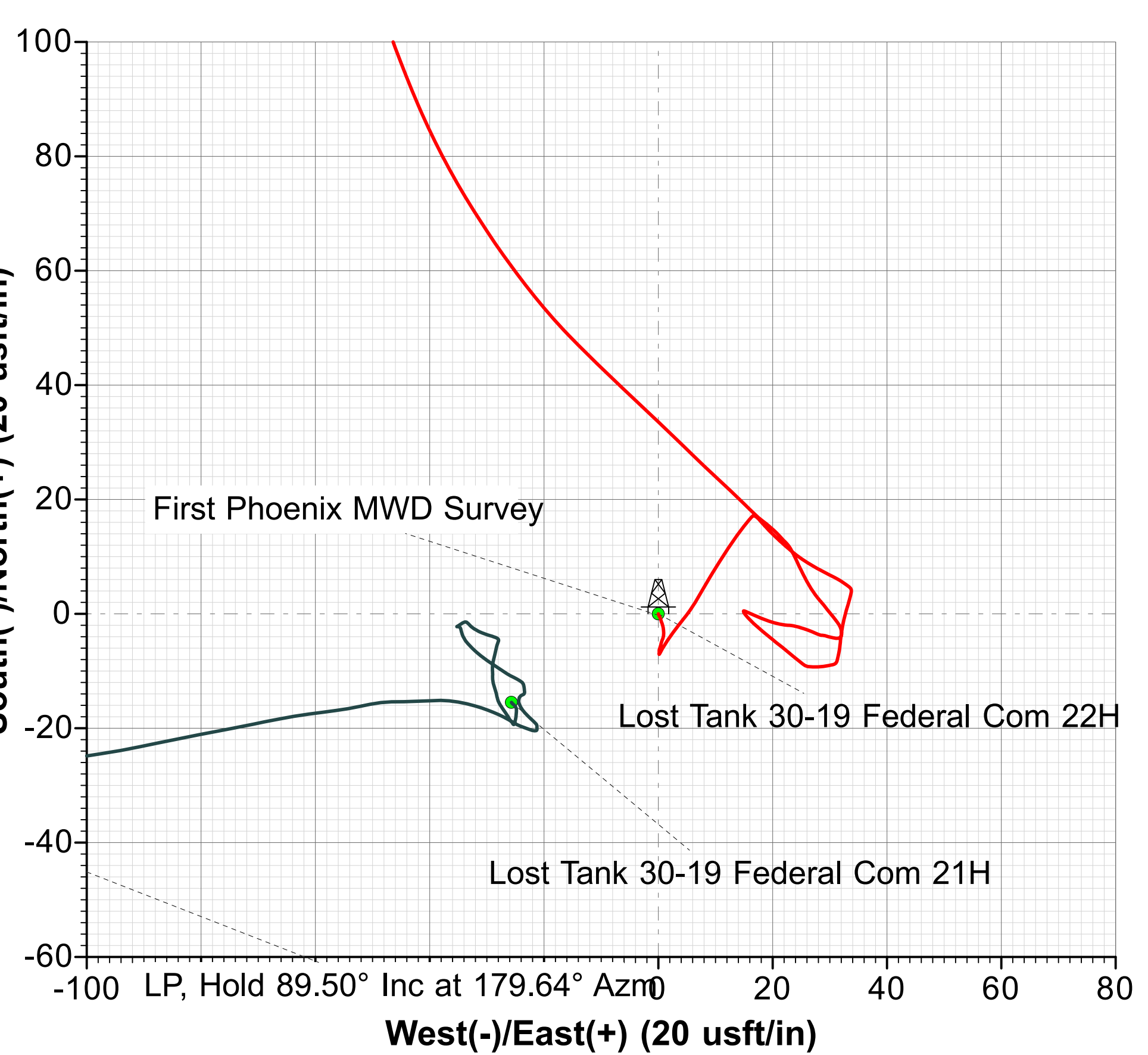


WELL DETAILS						
Ground Level: 3619.70						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	503726.49	731808.38	32° 22' 59.891176 N	103° 42' 58.722796 W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
145.00	0.24	156.85	145.00	-0.26	0.11	0.26	0.28	First Phoenix MWD Survey	
10618.91	57.19	186.25	10468.04	349.08	-349.58	-337.06	1062.07	SL: 10618.91' MD, 57.19° Inc	
10729.39	73.95	180.77	10513.52	249.02	-353.87	-236.91	1162.26	FTP: 10729.39' MD, 73.95° Inc	
15916.77	89.68	179.00	10572.46	-4932.46	-381.31	4942.53	6345.39	SL: 15916.77' MD	
21021.00	89.46	181.67	10608.72	-10035.28	-345.52	10041.22	11449.05	Final Phoenix MWD Survey	
21099.83	89.46	181.67	10609.46	-10114.07	-347.82	10120.05	11527.88	LTP: 21099.83' MD	
21142.00	89.46	181.67	10609.86	-10156.22	-349.05	10162.22	11570.05	Projection to TD	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
851.70	851.70	RUSTLER
1143.70	1143.70	SALADO
2850.70	2850.70	CASTILE
4597.70	4597.70	DELAWARE
4673.70	4673.70	BELL CANYON
5513.70	5513.70	CHERRY CANYON
6740.52	6756.36	BRUSHY CANYON
8495.47	8541.20	BONE SPRING
9577.87	9629.49	BONE SPRING 1ST
10214.34	10278.98	BONE SPRING 2ND

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well Lost Tank 30-19 Federal Com 22H, Grid North
Latitude: 32° 22' 59.891176 N
Longitude: 103° 42' 58.722796 W
Grid East: 731808.38
Grid North: 503726.49
Scale Factor: 1.000
Geomagnetic Model: IFR
Sample Date: 17-May-24
Magnetic Declination: 6.538°
Dip Angle from Horizontal: 59.994°
Magnetic Field Strength: 47567.40000000nT
To convert a Magnetic Direction to a Grid Direction, Add 6.207°
To convert a Magnetic Direction to a True Direction, Add 6.538° East
To convert a True Direction to a Grid Direction, Subtract 0.331°



South(-)/North(+) (400 usft/in)

Section Lines

BULTACO STATE 001H

Lost Tank 30-19 Federal Com 33H
E LIVINGSTON 31 FEDERAL 007H
Date: 15:17, June 20 2024



OXY USA INC.

**Lea County, NM (NAD83-NME)
Lost Tank 30-19
Lost Tank 30-19 Federal Com 22H
3002547543
OH / 74693**

Design: Surveys (Citadel 2)

Standard Survey Report

20 June, 2024





Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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	Lost Tank 30-19				
Site Position:		Northing:	503,711.02 usft	Latitude:	32° 22' 59.739564 N
From:	Map	Easting:	731,782.68 usft	Longitude:	103° 42' 59.023536 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Lost Tank 30-19 Federal Com 22H					
Well Position	+N/-S	0.00 usft	Northing:	503,726.49 usft	Latitude:	32° 22' 59.891176 N
	+E/-W	0.00 usft	Easting:	731,808.38 usft	Longitude:	103° 42' 58.722796 W
Position Uncertainty	2.00 usft		Wellhead Elevation:	usft	Ground Level:	3,619.70 usft
Grid Convergence:	0.331 °					

Wellbore	OH / 74693				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	5/17/2024	6.538	59.994	47,567.40000000

Design	Surveys (Citadel 2)				
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	181.94	

Survey Program	Date	6/20/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
24.00	974.83	Phoenix MWD Surveys - Surf - SQC (OH /	SQC_C705Mb_MWD+IFF MWD+IFR1+Sag+FDIR		
989.00	9,972.67	Phoenix MWD Surveys - Int - SQC (OH / 7	SQC_C705Mb_MWD+IFF MWD+IFR1+Sag+FDIR		
9,987.00	21,142.00	Phoenix MWD Surveys - Prod - SQC (OH	SQC_C705Mb_MWD+IFF MWD+IFR1+Sag+FDIR		

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	
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
43.50	0.07	159.19	43.50	-0.01	0.00	0.01	0.36	0.36	0.00	
58.00	0.09	158.86	58.00	-0.03	0.01	0.03	0.14	0.14	-2.28	
72.50	0.12	158.52	72.50	-0.05	0.02	0.05	0.21	0.21	-2.34	
87.00	0.14	158.19	87.00	-0.09	0.03	0.08	0.14	0.14	-2.28	
101.50	0.17	157.85	101.50	-0.12	0.05	0.12	0.21	0.21	-2.34	
116.00	0.19	157.52	116.00	-0.16	0.07	0.16	0.14	0.14	-2.28	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
130.50	0.21	157.19	130.50	-0.21	0.08	0.21	0.14	0.14	-2.28
145.00	0.24	156.85	145.00	-0.26	0.11	0.26	0.21	0.21	-2.34
First Phoenix MWD Survey									
158.71	0.24	155.89	158.71	-0.32	0.13	0.31	0.03	0.00	-7.00
172.43	0.23	154.86	172.43	-0.37	0.15	0.36	0.08	-0.07	-7.51
186.14	0.23	153.75	186.14	-0.42	0.18	0.41	0.03	0.00	-8.10
199.86	0.23	152.57	199.86	-0.47	0.20	0.46	0.03	0.00	-8.60
213.57	0.23	151.31	213.57	-0.51	0.23	0.51	0.04	0.00	-9.19
227.29	0.23	149.98	227.29	-0.56	0.26	0.55	0.04	0.00	-9.69
241.00	0.23	148.57	241.00	-0.61	0.28	0.60	0.04	0.00	-10.28
254.71	0.24	152.21	254.71	-0.66	0.31	0.65	0.13	0.07	26.55
268.43	0.25	155.44	268.43	-0.71	0.34	0.70	0.12	0.07	23.54
282.14	0.27	158.30	282.14	-0.77	0.36	0.76	0.17	0.15	20.86
295.86	0.28	160.84	295.86	-0.83	0.38	0.82	0.11	0.07	18.51
309.57	0.29	163.08	309.57	-0.89	0.41	0.88	0.11	0.07	16.34
323.29	0.31	165.06	323.29	-0.96	0.42	0.95	0.16	0.15	14.43
337.00	0.32	166.82	337.00	-1.04	0.44	1.02	0.10	0.07	12.84
350.71	0.34	165.30	350.71	-1.11	0.46	1.10	0.16	0.15	-11.09
364.43	0.36	163.89	364.43	-1.19	0.48	1.18	0.16	0.15	-10.28
378.14	0.38	162.58	378.14	-1.28	0.51	1.26	0.16	0.15	-9.56
391.86	0.40	161.35	391.86	-1.37	0.54	1.35	0.16	0.15	-8.97
405.57	0.41	160.20	405.57	-1.46	0.57	1.44	0.09	0.07	-8.39
419.29	0.43	159.11	419.29	-1.55	0.61	1.53	0.16	0.15	-7.94
433.00	0.45	158.08	433.00	-1.65	0.64	1.63	0.16	0.15	-7.51
446.71	0.46	160.12	446.71	-1.75	0.68	1.73	0.14	0.07	14.88
460.43	0.47	162.03	460.42	-1.86	0.72	1.83	0.13	0.07	13.92
474.14	0.48	163.83	474.13	-1.97	0.75	1.94	0.13	0.07	13.13
487.86	0.49	165.51	487.85	-2.08	0.78	2.05	0.13	0.07	12.24
501.57	0.51	167.09	501.56	-2.20	0.81	2.17	0.18	0.15	11.52
515.29	0.52	168.57	515.28	-2.32	0.84	2.29	0.12	0.07	10.79
529.00	0.53	169.95	528.99	-2.44	0.86	2.41	0.12	0.07	10.07
542.57	0.54	171.53	542.56	-2.56	0.88	2.53	0.13	0.07	11.64
556.14	0.56	173.01	556.13	-2.69	0.90	2.66	0.18	0.15	10.91
569.71	0.57	174.39	569.70	-2.83	0.91	2.79	0.12	0.07	10.17
583.29	0.59	175.68	583.28	-2.96	0.93	2.93	0.18	0.15	9.50
596.86	0.60	176.89	596.85	-3.10	0.93	3.07	0.12	0.07	8.92
610.43	0.61	178.02	610.42	-3.25	0.94	3.21	0.11	0.07	8.33
624.00	0.63	179.08	623.99	-3.39	0.94	3.36	0.17	0.15	7.81
637.57	0.63	182.47	637.56	-3.54	0.94	3.51	0.27	0.00	24.98
651.14	0.63	185.83	651.13	-3.69	0.93	3.66	0.27	0.00	24.76
664.71	0.63	189.15	664.69	-3.84	0.91	3.81	0.27	0.00	24.47
678.29	0.64	192.40	678.27	-3.99	0.88	3.96	0.28	0.07	23.93
691.86	0.64	195.57	691.84	-4.13	0.85	4.10	0.26	0.00	23.36



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
705.43	0.65	198.64	705.41	-4.28	0.80	4.25	0.27	0.07	22.62
719.00	0.66	201.59	718.98	-4.43	0.75	4.40	0.26	0.07	21.74
732.57	0.68	200.27	732.55	-4.57	0.69	4.55	0.19	0.15	-9.73
746.14	0.69	198.98	746.12	-4.73	0.64	4.70	0.14	0.07	-9.51
759.71	0.70	197.72	759.69	-4.88	0.59	4.86	0.13	0.07	-9.29
773.29	0.72	196.48	773.27	-5.04	0.54	5.02	0.19	0.15	-9.13
786.86	0.73	195.28	786.84	-5.21	0.49	5.19	0.13	0.07	-8.84
800.43	0.74	194.10	800.41	-5.38	0.45	5.36	0.13	0.07	-8.70
814.00	0.76	192.95	813.97	-5.55	0.40	5.53	0.18	0.15	-8.47
829.00	0.78	196.24	828.97	-5.75	0.35	5.73	0.32	0.13	21.93
844.00	0.80	199.33	843.97	-5.94	0.29	5.93	0.31	0.13	20.60
859.00	0.82	202.24	858.97	-6.14	0.21	6.13	0.30	0.13	19.40
874.00	0.54	190.12	873.97	-6.31	0.16	6.30	2.09	-1.87	-80.80
889.00	0.34	167.20	888.97	-6.42	0.16	6.41	1.75	-1.33	-152.80
904.00	0.34	175.70	903.97	-6.51	0.17	6.50	0.34	0.00	56.67
918.17	0.33	177.90	918.14	-6.59	0.18	6.58	0.11	-0.07	15.53
932.33	0.33	180.11	932.30	-6.67	0.18	6.66	0.09	0.00	15.61
946.50	0.32	182.34	946.47	-6.75	0.18	6.74	0.11	-0.07	15.74
960.67	0.32	184.58	960.64	-6.83	0.17	6.82	0.09	0.00	15.81
974.83	0.32	186.82	974.80	-6.91	0.16	6.90	0.09	0.00	15.82
989.00	0.31	189.05	988.97	-6.99	0.15	6.98	0.11	-0.07	15.74
1,002.71	0.17	178.00	1,002.68	-7.05	0.15	7.04	1.07	-1.02	-80.60
1,016.43	0.07	111.34	1,016.40	-7.07	0.16	7.06	1.14	-0.73	-485.86
1,030.14	0.17	44.50	1,030.11	-7.06	0.18	7.05	1.14	0.73	-487.53
1,043.86	0.31	33.41	1,043.83	-7.01	0.21	7.00	1.07	1.02	-80.83
1,057.57	0.47	29.48	1,057.54	-6.93	0.26	6.92	1.18	1.17	-28.67
1,071.29	0.62	27.50	1,071.26	-6.82	0.32	6.80	1.10	1.09	-14.43
1,085.00	0.82	26.21	1,084.96	-6.66	0.40	6.65	1.46	1.46	-9.41
1,098.71	0.92	27.81	1,098.67	-6.48	0.50	6.46	0.75	0.73	11.67
1,112.43	1.02	29.11	1,112.39	-6.27	0.61	6.25	0.75	0.73	9.48
1,126.14	1.12	30.18	1,126.10	-6.05	0.73	6.02	0.74	0.73	7.80
1,139.86	1.23	31.09	1,139.82	-5.81	0.88	5.78	0.81	0.80	6.63
1,153.57	1.33	31.86	1,153.52	-5.55	1.04	5.51	0.74	0.73	5.62
1,167.29	1.43	32.52	1,167.24	-5.27	1.21	5.23	0.74	0.73	4.81
1,181.00	1.54	33.11	1,180.94	-4.97	1.41	4.92	0.81	0.80	4.30
1,194.43	1.53	33.54	1,194.37	-4.67	1.60	4.61	0.11	-0.07	3.20
1,207.86	1.53	34.06	1,207.79	-4.37	1.80	4.31	0.10	0.00	3.87
1,221.29	1.52	34.61	1,221.22	-4.08	2.00	4.01	0.13	-0.07	4.10
1,234.71	1.52	35.19	1,234.63	-3.79	2.21	3.71	0.11	0.00	4.32
1,248.14	1.51	35.77	1,248.06	-3.50	2.41	3.41	0.14	-0.07	4.32
1,261.57	1.51	36.33	1,261.48	-3.21	2.62	3.12	0.11	0.00	4.17
1,275.00	1.51	36.84	1,274.91	-2.93	2.83	2.83	0.10	0.00	3.80
1,288.57	1.50	37.25	1,288.48	-2.64	3.05	2.54	0.11	-0.07	3.02
1,302.14	1.50	37.60	1,302.04	-2.36	3.26	2.25	0.07	0.00	2.58



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
1,315.71	1.50	37.88	1,315.61	-2.08	3.48	1.96	0.05	0.00	2.06
1,329.29	1.50	38.10	1,329.18	-1.80	3.70	1.67	0.04	0.00	1.62
1,342.86	1.51	38.23	1,342.75	-1.52	3.92	1.38	0.08	0.07	0.96
1,356.43	1.51	38.26	1,356.31	-1.24	4.14	1.10	0.01	0.00	0.22
1,370.00	1.52	38.13	1,369.88	-0.96	4.36	0.81	0.08	0.07	-0.96
1,383.43	1.53	37.81	1,383.30	-0.67	4.58	0.52	0.10	0.07	-2.38
1,396.86	1.54	37.35	1,396.73	-0.39	4.80	0.23	0.12	0.07	-3.43
1,410.29	1.56	36.80	1,410.15	-0.10	5.02	-0.07	0.19	0.15	-4.10
1,423.71	1.57	36.21	1,423.57	0.20	5.24	-0.37	0.14	0.07	-4.40
1,437.14	1.60	35.57	1,436.99	0.50	5.46	-0.68	0.26	0.22	-4.77
1,450.57	1.62	34.91	1,450.42	0.81	5.68	-1.00	0.20	0.15	-4.91
1,464.00	1.65	34.23	1,463.84	1.12	5.89	-1.32	0.27	0.22	-5.06
1,477.57	1.68	33.38	1,477.41	1.45	6.11	-1.65	0.29	0.22	-6.26
1,491.14	1.71	32.53	1,490.97	1.79	6.33	-2.00	0.29	0.22	-6.26
1,504.71	1.75	31.72	1,504.53	2.13	6.55	-2.35	0.35	0.29	-5.97
1,518.29	1.78	30.97	1,518.11	2.49	6.77	-2.72	0.28	0.22	-5.52
1,531.86	1.82	30.32	1,531.67	2.86	6.98	-3.09	0.33	0.29	-4.79
1,545.43	1.84	29.80	1,545.23	3.23	7.20	-3.47	0.19	0.15	-3.83
1,559.00	1.86	29.47	1,558.80	3.61	7.42	-3.86	0.17	0.15	-2.43
1,572.57	1.86	29.41	1,572.36	4.00	7.63	-4.25	0.01	0.00	-0.44
1,586.14	1.85	29.55	1,585.92	4.38	7.85	-4.64	0.08	-0.07	1.03
1,599.71	1.83	29.81	1,599.49	4.76	8.06	-5.03	0.16	-0.15	1.92
1,613.29	1.82	30.15	1,613.06	5.13	8.28	-5.41	0.11	-0.07	2.50
1,626.86	1.80	30.52	1,626.62	5.50	8.50	-5.79	0.17	-0.15	2.73
1,640.43	1.80	30.88	1,640.19	5.87	8.72	-6.16	0.08	0.00	2.65
1,654.00	1.80	31.17	1,653.75	6.23	8.93	-6.53	0.07	0.00	2.14
1,667.57	1.81	31.34	1,667.31	6.60	9.16	-6.90	0.08	0.07	1.25
1,681.14	1.84	31.45	1,680.88	6.97	9.38	-7.28	0.22	0.22	0.81
1,694.71	1.87	31.53	1,694.44	7.34	9.61	-7.66	0.22	0.22	0.59
1,708.29	1.90	31.60	1,708.01	7.72	9.85	-8.05	0.22	0.22	0.52
1,721.86	1.94	31.68	1,721.57	8.11	10.08	-8.45	0.30	0.29	0.59
1,735.43	1.97	31.79	1,735.14	8.50	10.33	-8.85	0.22	0.22	0.81
1,749.00	2.01	31.95	1,748.70	8.90	10.58	-9.26	0.30	0.29	1.18
1,762.43	2.03	32.18	1,762.12	9.30	10.83	-9.67	0.16	0.15	1.71
1,775.86	2.06	32.47	1,775.54	9.71	11.08	-10.08	0.24	0.22	2.16
1,789.29	2.08	32.78	1,788.96	10.12	11.34	-10.50	0.17	0.15	2.31
1,802.71	2.10	33.11	1,802.37	10.53	11.61	-10.92	0.17	0.15	2.46
1,816.14	2.11	33.45	1,815.79	10.94	11.88	-11.34	0.12	0.07	2.53
1,829.57	2.13	33.79	1,829.21	11.35	12.16	-11.76	0.18	0.15	2.53
1,843.00	2.15	34.12	1,842.63	11.77	12.44	-12.18	0.17	0.15	2.46
1,856.57	2.16	34.45	1,856.20	12.19	12.72	-12.62	0.12	0.07	2.43
1,870.14	2.17	34.77	1,869.76	12.61	13.02	-13.05	0.12	0.07	2.36
1,883.71	2.18	35.09	1,883.32	13.04	13.31	-13.48	0.12	0.07	2.36



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
1,897.29	2.19	35.44	1,896.89	13.46	13.61	-13.91	0.12	0.07	2.58
1,910.86	2.20	35.82	1,910.45	13.88	13.91	-14.34	0.13	0.07	2.80
1,924.43	2.20	36.26	1,924.01	14.30	14.22	-14.78	0.12	0.00	3.24
1,938.00	2.19	36.80	1,937.57	14.72	14.53	-15.20	0.17	-0.07	3.98
1,952.54	2.17	37.54	1,952.10	15.16	14.86	-15.65	0.24	-0.14	5.09
1,967.08	2.15	38.39	1,966.63	15.59	15.20	-16.10	0.26	-0.14	5.85
1,981.62	2.12	39.28	1,981.16	16.02	15.54	-16.53	0.31	-0.21	6.12
1,996.15	2.09	40.17	1,995.68	16.43	15.88	-16.95	0.31	-0.21	6.13
2,010.69	2.07	40.98	2,010.21	16.83	16.22	-17.37	0.24	-0.14	5.57
2,025.23	1.32	54.44	2,024.74	17.12	16.53	-17.67	5.81	-5.16	92.57
2,039.77	0.77	110.76	2,039.28	17.18	16.76	-17.74	7.56	-3.78	387.35
2,054.31	0.83	122.28	2,053.82	17.09	16.94	-17.66	1.18	0.41	79.23
2,068.85	0.89	126.75	2,068.35	16.97	17.12	-17.54	0.62	0.41	30.74
2,083.38	0.95	130.61	2,082.88	16.82	17.30	-17.40	0.59	0.41	26.57
2,097.92	1.02	133.94	2,097.42	16.66	17.49	-17.24	0.62	0.48	22.90
2,112.46	1.09	136.84	2,111.96	16.47	17.67	-17.05	0.61	0.48	19.94
2,127.00	1.17	139.35	2,126.49	16.25	17.86	-16.85	0.65	0.55	17.26
2,140.57	1.20	139.02	2,140.06	16.04	18.05	-16.64	0.23	0.22	-2.43
2,154.14	1.23	138.60	2,153.63	15.82	18.24	-16.43	0.23	0.22	-3.10
2,167.71	1.27	138.15	2,167.20	15.60	18.43	-16.22	0.30	0.29	-3.32
2,181.29	1.30	137.68	2,180.77	15.38	18.64	-16.00	0.23	0.22	-3.46
2,194.86	1.34	137.19	2,194.34	15.15	18.85	-15.77	0.31	0.29	-3.61
2,208.43	1.37	136.71	2,207.90	14.91	19.07	-15.55	0.24	0.22	-3.54
2,222.00	1.39	136.24	2,221.47	14.67	19.29	-15.32	0.17	0.15	-3.46
2,235.43	1.40	135.72	2,234.90	14.44	19.52	-15.09	0.12	0.07	-3.87
2,248.86	1.41	135.21	2,248.32	14.20	19.75	-14.86	0.12	0.07	-3.80
2,262.29	1.41	134.69	2,261.75	13.97	19.99	-14.64	0.10	0.00	-3.87
2,275.71	1.42	134.18	2,275.16	13.74	20.22	-14.41	0.12	0.07	-3.80
2,289.14	1.42	133.68	2,288.59	13.51	20.46	-14.19	0.09	0.00	-3.72
2,302.57	1.42	133.21	2,302.02	13.28	20.70	-13.97	0.09	0.00	-3.50
2,316.00	1.43	132.79	2,315.44	13.05	20.95	-13.75	0.11	0.07	-3.13
2,329.57	1.45	132.42	2,329.01	12.82	21.20	-13.53	0.16	0.15	-2.73
2,343.14	1.47	132.09	2,342.57	12.59	21.46	-13.31	0.16	0.15	-2.43
2,356.71	1.49	131.78	2,356.14	12.35	21.72	-13.08	0.16	0.15	-2.28
2,370.29	1.52	131.47	2,369.71	12.12	21.98	-12.85	0.23	0.22	-2.28
2,383.86	1.54	131.14	2,383.28	11.88	22.25	-12.62	0.16	0.15	-2.43
2,397.43	1.57	130.77	2,396.84	11.64	22.53	-12.39	0.23	0.22	-2.73
2,411.00	1.60	130.34	2,410.41	11.39	22.82	-12.16	0.24	0.22	-3.17
2,424.57	1.63	129.79	2,423.97	11.15	23.11	-11.92	0.25	0.22	-4.05
2,438.14	1.66	129.18	2,437.54	10.90	23.41	-11.68	0.26	0.22	-4.50
2,451.71	1.68	128.52	2,451.10	10.65	23.72	-11.45	0.20	0.15	-4.86
2,465.29	1.71	127.83	2,464.68	10.40	24.04	-11.21	0.27	0.22	-5.08
2,478.86	1.74	127.10	2,478.24	10.15	24.36	-10.97	0.27	0.22	-5.38



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
2,492.43	1.77	126.32	2,491.80	9.91	24.69	-10.73	0.28	0.22	-5.75
2,506.00	1.80	125.49	2,505.37	9.66	25.04	-10.50	0.29	0.22	-6.12
2,519.43	1.83	124.47	2,518.79	9.41	25.38	-10.27	0.33	0.22	-7.59
2,532.86	1.86	123.40	2,532.21	9.17	25.74	-10.04	0.34	0.22	-7.97
2,546.29	1.89	122.34	2,545.64	8.93	26.11	-9.81	0.34	0.22	-7.89
2,559.71	1.92	121.31	2,559.05	8.70	26.49	-9.59	0.34	0.22	-7.68
2,573.14	1.96	120.34	2,572.47	8.47	26.88	-9.37	0.39	0.30	-7.22
2,586.57	1.99	119.46	2,585.89	8.23	27.28	-9.15	0.32	0.22	-6.55
2,600.00	2.03	118.72	2,599.32	8.01	27.69	-8.94	0.36	0.30	-5.51
2,613.57	2.07	118.04	2,612.88	7.78	28.12	-8.72	0.34	0.29	-5.01
2,627.14	2.11	117.50	2,626.44	7.54	28.56	-8.51	0.33	0.29	-3.98
2,640.71	2.15	117.13	2,640.00	7.31	29.01	-8.29	0.31	0.29	-2.73
2,654.29	2.19	116.93	2,653.57	7.08	29.46	-8.07	0.30	0.29	-1.47
2,667.86	2.22	116.95	2,667.13	6.84	29.93	-7.85	0.22	0.22	0.15
2,681.43	2.25	117.28	2,680.69	6.60	30.40	-7.63	0.24	0.22	2.43
2,695.00	2.27	118.04	2,694.25	6.35	30.88	-7.39	0.27	0.15	5.60
2,708.57	2.28	119.49	2,707.81	6.09	31.35	-7.15	0.43	0.07	10.69
2,722.14	2.28	121.33	2,721.37	5.82	31.81	-6.89	0.54	0.00	13.56
2,735.71	2.28	123.37	2,734.93	5.53	32.27	-6.62	0.60	0.00	15.03
2,749.29	2.29	125.46	2,748.49	5.23	32.72	-6.33	0.62	0.07	15.39
2,762.86	2.30	127.43	2,762.05	4.90	33.15	-6.02	0.59	0.07	14.52
2,776.43	2.15	133.93	2,775.61	4.56	33.55	-5.69	2.16	-1.11	47.90
2,790.00	1.69	168.67	2,789.18	4.19	33.77	-5.33	9.05	-3.39	256.01
2,803.43	1.74	192.00	2,802.60	3.79	33.77	-4.93	5.18	0.37	173.72
2,816.86	1.80	193.33	2,816.02	3.39	33.68	-4.53	0.54	0.45	9.90
2,830.29	1.87	194.46	2,829.45	2.97	33.58	-4.11	0.59	0.52	8.41
2,843.71	1.94	195.38	2,842.86	2.54	33.46	-3.67	0.57	0.52	6.86
2,857.14	2.00	196.07	2,856.28	2.10	33.34	-3.22	0.48	0.45	5.14
2,870.57	2.06	196.51	2,869.70	1.64	33.20	-2.76	0.46	0.45	3.28
2,884.00	2.10	196.61	2,883.12	1.17	33.06	-2.29	0.30	0.30	0.74
2,897.43	2.11	196.27	2,896.55	0.70	32.92	-1.81	0.12	0.07	-2.53
2,910.86	2.11	195.59	2,909.97	0.22	32.79	-1.33	0.19	0.00	-5.06
2,924.29	2.09	194.68	2,923.39	-0.25	32.66	-0.85	0.29	-0.15	-6.78
2,937.71	2.08	193.62	2,936.80	-0.72	32.54	-0.38	0.30	-0.07	-7.90
2,951.14	2.06	192.47	2,950.22	-1.20	32.43	0.10	0.34	-0.15	-8.56
2,964.57	2.05	191.30	2,963.64	-1.67	32.33	0.57	0.32	-0.07	-8.71
2,978.00	2.04	190.19	2,977.06	-2.14	32.24	1.05	0.30	-0.07	-8.27
2,991.57	2.04	189.22	2,990.62	-2.61	32.16	1.53	0.25	0.00	-7.15
3,005.14	2.04	188.36	3,004.19	-3.09	32.09	2.00	0.23	0.00	-6.34
3,018.71	2.06	187.63	3,017.75	-3.57	32.02	2.49	0.24	0.15	-5.38
3,032.29	2.07	187.04	3,031.32	-4.06	31.96	2.97	0.17	0.07	-4.34
3,045.86	2.08	186.66	3,044.88	-4.55	31.90	3.46	0.13	0.07	-2.80
3,059.43	2.08	186.56	3,058.44	-5.03	31.84	3.96	0.03	0.00	-0.74
3,073.00	2.07	186.86	3,072.00	-5.52	31.79	4.44	0.11	-0.07	2.21



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
3,086.57	2.05	187.82	3,085.56	-6.01	31.72	4.93	0.29	-0.15	7.07
3,100.14	2.02	189.20	3,099.12	-6.48	31.65	5.41	0.42	-0.22	10.17
3,113.71	1.99	190.87	3,112.69	-6.95	31.57	5.88	0.48	-0.22	12.31
3,127.29	1.96	192.70	3,126.26	-7.41	31.47	6.34	0.51	-0.22	13.48
3,140.86	1.95	194.58	3,139.82	-7.86	31.36	6.79	0.48	-0.07	13.85
3,154.43	1.94	196.33	3,153.38	-8.30	31.24	7.24	0.44	-0.07	12.90
3,168.00	1.36	223.49	3,166.95	-8.64	31.07	7.58	7.06	-4.27	200.15
3,181.57	1.26	253.33	3,180.51	-8.80	30.81	7.75	5.02	-0.74	219.90
3,195.14	1.32	255.31	3,194.08	-8.88	30.52	7.84	0.55	0.44	14.59
3,208.71	1.39	257.13	3,207.65	-8.96	30.21	7.93	0.61	0.52	13.41
3,222.29	1.47	258.81	3,221.22	-9.03	29.88	8.01	0.67	0.59	12.37
3,235.86	1.55	260.39	3,234.79	-9.09	29.52	8.09	0.66	0.59	11.64
3,249.43	1.63	261.93	3,248.35	-9.15	29.15	8.16	0.67	0.59	11.35
3,263.00	1.70	263.52	3,261.92	-9.20	28.76	8.22	0.62	0.52	11.72
3,276.43	1.76	265.50	3,275.34	-9.24	28.36	8.27	0.63	0.45	14.74
3,289.86	1.81	267.48	3,288.76	-9.26	27.94	8.31	0.59	0.37	14.74
3,303.29	1.86	269.39	3,302.19	-9.28	27.51	8.34	0.59	0.37	14.22
3,316.71	1.91	271.14	3,315.60	-9.27	27.07	8.35	0.57	0.37	13.04
3,330.14	1.97	272.64	3,329.02	-9.26	26.61	8.35	0.59	0.45	11.17
3,343.57	2.02	277.13	3,342.44	-9.22	26.15	8.33	1.22	0.37	33.43
3,357.00	2.23	299.88	3,355.86	-9.06	25.69	8.19	6.43	1.56	169.40
3,370.57	2.32	309.11	3,369.42	-8.75	25.25	7.90	2.78	0.66	68.02
3,384.14	2.43	309.30	3,382.98	-8.40	24.81	7.56	0.81	0.81	1.40
3,397.71	2.55	309.34	3,396.54	-8.03	24.35	7.20	0.88	0.88	0.29
3,411.29	2.68	309.31	3,410.10	-7.63	23.87	6.82	0.96	0.96	-0.22
3,424.86	2.80	309.24	3,423.66	-7.22	23.37	6.43	0.88	0.88	-0.52
3,438.43	2.91	309.17	3,437.21	-6.80	22.85	6.02	0.81	0.81	-0.52
3,452.00	3.01	309.11	3,450.76	-6.35	22.30	5.60	0.74	0.74	-0.44
3,465.57	3.07	308.99	3,464.32	-5.90	21.75	5.16	0.44	0.44	-0.88
3,479.14	3.12	308.93	3,477.87	-5.44	21.18	4.72	0.37	0.37	-0.44
3,492.71	3.16	308.92	3,491.42	-4.97	20.60	4.27	0.29	0.29	-0.07
3,506.29	3.18	308.97	3,504.97	-4.50	20.01	3.82	0.15	0.15	0.37
3,519.86	3.18	309.13	3,518.52	-4.03	19.43	3.37	0.07	0.00	1.18
3,533.43	3.16	309.43	3,532.07	-3.55	18.85	2.91	0.19	-0.15	2.21
3,547.00	3.12	309.96	3,545.62	-3.08	18.28	2.46	0.36	-0.29	3.91
3,560.57	3.04	310.83	3,559.17	-2.60	17.72	2.00	0.68	-0.59	6.41
3,574.14	2.94	311.96	3,572.72	-2.14	17.19	1.55	0.86	-0.74	8.33
3,587.71	2.82	313.30	3,586.28	-1.67	16.69	1.11	1.01	-0.88	9.87
3,601.29	2.69	314.81	3,599.84	-1.22	16.22	0.67	1.10	-0.96	11.12
3,614.86	2.55	316.45	3,613.40	-0.78	15.78	0.24	1.17	-1.03	12.09
3,628.43	1.70	318.88	3,626.96	-0.41	15.44	-0.12	6.30	-6.26	17.91
3,642.00	1.13	323.30	3,640.52	-0.15	15.23	-0.37	4.27	-4.20	32.57
3,655.43	0.94	326.52	3,653.95	0.05	15.09	-0.56	1.48	-1.41	23.98



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
3,668.86	0.73	331.23	3,667.38	0.22	14.99	-0.72	1.64	-1.56	35.07
3,682.29	0.52	339.37	3,680.81	0.35	14.93	-0.85	1.69	-1.56	60.61
3,695.71	0.33	356.90	3,694.23	0.45	14.90	-0.95	1.70	-1.42	130.63
3,709.14	0.22	39.03	3,707.66	0.50	14.92	-1.01	1.66	-0.82	313.70
3,722.57	0.28	85.05	3,721.09	0.53	14.97	-1.03	1.51	0.45	342.67
3,736.00	0.42	104.71	3,734.52	0.52	15.05	-1.03	1.36	1.04	146.39
3,749.57	0.64	109.40	3,748.09	0.48	15.17	-0.99	1.65	1.62	34.56
3,763.14	0.86	111.66	3,761.66	0.42	15.33	-0.93	1.64	1.62	16.65
3,776.71	1.08	112.98	3,775.22	0.33	15.55	-0.85	1.63	1.62	9.73
3,790.29	1.31	113.84	3,788.80	0.22	15.81	-0.75	1.70	1.69	6.33
3,803.86	1.53	114.45	3,802.37	0.08	16.11	-0.62	1.63	1.62	4.50
3,817.43	1.76	114.89	3,815.93	-0.08	16.47	-0.47	1.70	1.69	3.24
3,831.00	1.98	115.23	3,829.49	-0.27	16.87	-0.30	1.62	1.62	2.51
3,844.43	2.02	114.18	3,842.92	-0.47	17.29	-0.12	0.40	0.30	-7.82
3,857.86	2.08	112.92	3,856.34	-0.66	17.73	0.06	0.56	0.45	-9.38
3,871.29	2.15	111.58	3,869.76	-0.85	18.19	0.23	0.64	0.52	-9.98
3,884.71	2.21	110.20	3,883.17	-1.03	18.67	0.40	0.59	0.45	-10.28
3,898.14	2.26	108.81	3,896.59	-1.20	19.16	0.56	0.55	0.37	-10.35
3,911.57	2.27	107.33	3,910.01	-1.37	19.67	0.70	0.44	0.07	-11.02
3,925.00	2.24	105.66	3,923.43	-1.52	20.17	0.84	0.54	-0.22	-12.43
3,938.57	2.10	104.26	3,936.99	-1.65	20.67	0.95	1.10	-1.03	-10.32
3,952.14	1.91	102.77	3,950.55	-1.76	21.13	1.05	1.45	-1.40	-10.98
3,965.71	1.68	101.03	3,964.11	-1.85	21.55	1.12	1.74	-1.69	-12.82
3,979.29	1.45	98.90	3,977.69	-1.92	21.91	1.17	1.75	-1.69	-15.68
3,992.86	1.16	97.20	3,991.25	-1.96	22.22	1.21	2.16	-2.14	-12.53
4,006.43	0.95	93.52	4,004.82	-1.98	22.47	1.22	1.63	-1.55	-27.12
4,020.00	0.77	88.90	4,018.39	-1.99	22.67	1.22	1.42	-1.33	-34.05
4,033.57	0.88	93.20	4,031.96	-1.99	22.87	1.22	0.93	0.81	31.69
4,047.14	1.00	96.49	4,045.53	-2.01	23.09	1.23	0.97	0.88	24.24
4,060.71	1.12	99.08	4,059.10	-2.05	23.34	1.26	0.95	0.88	19.09
4,074.29	1.24	101.16	4,072.67	-2.10	23.61	1.30	0.94	0.88	15.32
4,087.86	1.37	102.86	4,086.24	-2.16	23.91	1.35	1.00	0.96	12.53
4,101.43	1.49	104.27	4,099.80	-2.24	24.24	1.42	0.92	0.88	10.39
4,115.00	1.62	105.46	4,113.37	-2.33	24.60	1.50	0.99	0.96	8.77
4,128.43	1.67	106.54	4,126.79	-2.44	24.97	1.59	0.44	0.37	8.04
4,141.86	1.74	107.75	4,140.22	-2.56	25.35	1.70	0.59	0.52	9.01
4,155.29	1.82	108.95	4,153.64	-2.69	25.75	1.82	0.66	0.60	8.94
4,168.71	1.91	110.07	4,167.05	-2.84	26.16	1.95	0.72	0.67	8.35
4,182.14	2.00	111.05	4,180.48	-3.00	26.59	2.10	0.71	0.67	7.30
4,195.57	2.09	111.87	4,193.90	-3.17	27.03	2.26	0.70	0.67	6.11
4,209.00	2.18	112.48	4,207.32	-3.36	27.50	2.43	0.69	0.67	4.54
4,222.57	2.17	113.12	4,220.88	-3.56	27.97	2.61	0.19	-0.07	4.72
4,236.14	1.20	111.17	4,234.44	-3.71	28.34	2.75	7.16	-7.15	-14.37



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
4,249.71	0.68	82.51	4,248.01	-3.75	28.55	2.79	5.05	-3.83	-211.20
4,263.29	0.80	91.81	4,261.59	-3.75	28.73	2.77	1.25	0.88	68.48
4,276.86	0.93	98.56	4,275.16	-3.77	28.93	2.78	1.22	0.96	49.74
4,290.43	1.08	103.55	4,288.73	-3.81	29.16	2.82	1.28	1.11	36.77
4,304.00	1.23	107.34	4,302.29	-3.89	29.43	2.89	1.24	1.11	27.93
4,317.57	1.22	106.18	4,315.86	-3.97	29.71	2.96	0.20	-0.07	-8.55
4,331.14	1.22	104.74	4,329.43	-4.05	29.98	3.03	0.23	0.00	-10.61
4,344.71	1.21	103.13	4,342.99	-4.12	30.26	3.09	0.26	-0.07	-11.86
4,358.29	1.20	101.48	4,356.57	-4.18	30.54	3.14	0.27	-0.07	-12.15
4,371.86	1.20	99.88	4,370.14	-4.23	30.82	3.18	0.25	0.00	-11.79
4,385.43	1.20	98.47	4,383.71	-4.27	31.10	3.22	0.22	0.00	-10.39
4,399.00	0.91	84.57	4,397.27	-4.28	31.35	3.22	2.84	-2.14	-102.43
4,412.43	0.74	74.31	4,410.70	-4.25	31.54	3.18	1.67	-1.27	-76.40
4,425.86	0.63	62.60	4,424.13	-4.19	31.69	3.12	1.32	-0.82	-87.19
4,439.29	0.57	53.96	4,437.56	-4.12	31.81	3.04	0.81	-0.45	-64.33
4,452.71	0.53	43.72	4,450.98	-4.04	31.90	2.96	0.79	-0.30	-76.30
4,466.14	0.51	32.23	4,464.41	-3.94	31.98	2.86	0.79	-0.15	-85.55
4,479.57	0.51	20.27	4,477.84	-3.83	32.03	2.75	0.79	0.00	-89.05
4,493.00	0.53	8.85	4,491.27	-3.72	32.06	2.63	0.78	0.15	-85.03
4,506.57	0.54	4.60	4,504.84	-3.59	32.08	2.50	0.30	0.07	-31.32
4,520.14	0.56	0.59	4,518.41	-3.46	32.08	2.37	0.32	0.15	-29.55
4,533.71	0.58	356.86	4,531.98	-3.33	32.08	2.24	0.31	0.15	-27.49
4,547.29	0.60	353.39	4,545.56	-3.19	32.07	2.10	0.30	0.15	-25.55
4,560.86	0.63	350.20	4,559.12	-3.04	32.05	1.96	0.34	0.22	-23.51
4,574.43	0.65	347.26	4,572.69	-2.89	32.02	1.81	0.28	0.15	-21.67
4,588.00	0.68	344.57	4,586.26	-2.74	31.98	1.66	0.32	0.22	-19.82
4,601.57	0.70	341.06	4,599.83	-2.59	31.93	1.50	0.34	0.15	-25.87
4,615.14	0.73	337.84	4,613.40	-2.43	31.87	1.35	0.37	0.22	-23.73
4,628.71	0.76	334.88	4,626.97	-2.27	31.80	1.19	0.36	0.22	-21.81
4,642.29	0.80	332.18	4,640.55	-2.10	31.72	1.03	0.40	0.29	-19.88
4,655.86	0.83	329.72	4,654.12	-1.93	31.62	0.86	0.34	0.22	-18.13
4,669.43	0.87	327.47	4,667.69	-1.76	31.52	0.69	0.38	0.29	-16.58
4,683.00	0.91	325.42	4,681.25	-1.58	31.40	0.52	0.38	0.29	-15.11
4,696.43	0.90	324.57	4,694.68	-1.41	31.28	0.35	0.12	-0.07	-6.33
4,709.86	0.90	323.73	4,708.11	-1.24	31.16	0.18	0.10	0.00	-6.25
4,723.29	0.90	322.91	4,721.54	-1.07	31.03	0.02	0.10	0.00	-6.11
4,736.71	0.90	322.10	4,734.96	-0.90	30.90	-0.14	0.09	0.00	-6.04
4,750.14	0.90	321.29	4,748.39	-0.74	30.77	-0.30	0.09	0.00	-6.03
4,763.57	0.90	320.50	4,761.81	-0.57	30.64	-0.46	0.09	0.00	-5.88
4,777.00	0.90	319.72	4,775.24	-0.41	30.50	-0.62	0.09	0.00	-5.81
4,790.57	0.92	320.19	4,788.81	-0.25	30.37	-0.78	0.16	0.15	3.46
4,804.14	0.93	320.64	4,802.38	-0.08	30.23	-0.94	0.09	0.07	3.32
4,817.71	0.95	321.10	4,815.95	0.09	30.09	-1.11	0.16	0.15	3.39
4,831.29	0.97	321.55	4,829.52	0.27	29.94	-1.28	0.16	0.15	3.31



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
4,844.86	0.99	321.99	4,843.09	0.45	29.80	-1.46	0.16	0.15	3.24
4,858.43	1.01	322.43	4,856.66	0.64	29.65	-1.64	0.16	0.15	3.24
4,872.00	1.02	322.87	4,870.23	0.83	29.51	-1.83	0.09	0.07	3.24
4,885.43	1.03	322.27	4,883.66	1.02	29.36	-2.02	0.11	0.07	-4.47
4,898.86	1.03	321.68	4,897.08	1.21	29.21	-2.20	0.08	0.00	-4.39
4,912.29	1.03	321.11	4,910.51	1.40	29.06	-2.38	0.08	0.00	-4.24
4,925.71	1.03	320.55	4,923.93	1.59	28.91	-2.57	0.08	0.00	-4.17
4,939.14	1.04	320.00	4,937.36	1.78	28.76	-2.75	0.10	0.07	-4.10
4,952.57	1.04	319.47	4,950.79	1.96	28.60	-2.93	0.07	0.00	-3.95
4,966.00	1.04	318.95	4,964.21	2.15	28.44	-3.11	0.07	0.00	-3.87
4,979.57	1.06	319.60	4,977.78	2.34	28.28	-3.29	0.17	0.15	4.79
4,993.14	1.09	320.33	4,991.35	2.53	28.11	-3.48	0.24	0.22	5.38
5,006.71	1.11	321.11	5,004.92	2.73	27.95	-3.68	0.18	0.15	5.75
5,020.29	1.14	321.90	5,018.49	2.94	27.78	-3.88	0.25	0.22	5.82
5,033.86	1.17	322.70	5,032.06	3.16	27.61	-4.09	0.25	0.22	5.90
5,047.43	1.19	323.50	5,045.63	3.38	27.45	-4.31	0.19	0.15	5.90
5,061.00	1.21	324.33	5,059.19	3.61	27.28	-4.53	0.20	0.15	6.12
5,074.57	1.22	325.32	5,072.76	3.85	27.11	-4.76	0.17	0.07	7.30
5,088.14	1.23	326.30	5,086.33	4.09	26.95	-4.99	0.17	0.07	7.22
5,101.71	1.24	327.28	5,099.90	4.33	26.79	-5.23	0.17	0.07	7.22
5,115.29	1.24	328.22	5,113.47	4.58	26.63	-5.48	0.15	0.00	6.92
5,128.86	1.25	329.12	5,127.04	4.83	26.48	-5.72	0.16	0.07	6.63
5,142.43	1.26	329.95	5,140.61	5.09	26.33	-5.97	0.15	0.07	6.12
5,156.00	1.26	330.68	5,154.17	5.35	26.18	-6.23	0.12	0.00	5.38
5,169.57	1.27	331.24	5,167.74	5.61	26.04	-6.48	0.12	0.07	4.13
5,183.14	1.29	331.69	5,181.31	5.87	25.89	-6.75	0.16	0.15	3.32
5,196.71	1.30	332.07	5,194.87	6.14	25.75	-7.01	0.10	0.07	2.80
5,210.29	1.31	332.41	5,208.45	6.42	25.60	-7.28	0.09	0.07	2.50
5,223.86	1.33	332.71	5,222.02	6.70	25.46	-7.55	0.16	0.15	2.21
5,237.43	1.34	333.01	5,235.58	6.98	25.32	-7.83	0.09	0.07	2.21
5,251.00	1.36	333.34	5,249.15	7.26	25.17	-8.11	0.16	0.15	2.43
5,264.57	1.38	333.74	5,262.71	7.55	25.03	-8.39	0.16	0.15	2.95
5,278.14	1.39	334.16	5,276.28	7.85	24.88	-8.68	0.11	0.07	3.10
5,291.71	1.41	334.55	5,289.85	8.15	24.74	-8.98	0.16	0.15	2.87
5,305.29	1.43	334.88	5,303.42	8.45	24.59	-9.28	0.16	0.15	2.43
5,318.86	1.44	335.13	5,316.99	8.76	24.45	-9.58	0.09	0.07	1.84
5,332.43	1.47	335.25	5,330.55	9.07	24.31	-9.89	0.22	0.22	0.88
5,346.00	1.49	335.20	5,344.12	9.39	24.16	-10.20	0.15	0.15	-0.37
5,359.43	1.51	334.92	5,357.54	9.71	24.01	-10.51	0.16	0.15	-2.08
5,372.86	1.54	334.43	5,370.97	10.03	23.86	-10.83	0.24	0.22	-3.65
5,386.29	1.56	333.70	5,384.39	10.36	23.70	-11.15	0.21	0.15	-5.44
5,399.71	1.58	332.67	5,397.81	10.69	23.53	-11.48	0.26	0.15	-7.68
5,413.14	1.60	331.25	5,411.23	11.01	23.36	-11.80	0.33	0.15	-10.57



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
5,426.57	1.61	329.25	5,424.66	11.34	23.17	-12.12	0.42	0.07	-14.89
5,440.00	1.62	326.37	5,438.08	11.66	22.97	-12.43	0.61	0.07	-21.44
5,453.57	1.59	322.00	5,451.65	11.97	22.75	-12.73	0.93	-0.22	-32.20
5,467.14	1.57	316.98	5,465.21	12.25	22.51	-13.01	1.03	-0.15	-36.99
5,480.71	1.89	315.00	5,478.78	12.55	22.22	-13.29	2.40	2.36	-14.59
5,494.29	2.63	316.77	5,492.35	12.93	21.85	-13.66	5.47	5.45	13.03
5,507.86	3.32	318.13	5,505.90	13.45	21.37	-14.17	5.11	5.08	10.02
5,521.43	3.36	315.11	5,519.44	14.03	20.83	-14.72	1.33	0.29	-22.25
5,535.00	3.43	312.86	5,532.99	14.59	20.25	-15.26	1.11	0.52	-16.58
5,548.57	3.53	310.86	5,546.54	15.13	19.64	-15.79	1.16	0.74	-14.74
5,562.14	3.66	309.19	5,560.08	15.68	18.99	-16.31	1.23	0.96	-12.31
5,575.71	3.81	307.82	5,573.62	16.23	18.30	-16.84	1.29	1.11	-10.10
5,589.29	4.40	309.07	5,587.17	16.84	17.53	-17.42	4.39	4.34	9.20
5,602.86	5.03	314.74	5,600.69	17.58	16.71	-18.14	5.77	4.64	41.78
5,616.43	5.26	314.72	5,614.21	18.44	15.84	-18.97	1.69	1.69	-0.15
5,630.00	5.50	314.21	5,627.72	19.33	14.94	-19.83	1.80	1.77	-3.76
5,643.57	5.78	313.80	5,641.22	20.26	13.98	-20.72	2.08	2.06	-3.02
5,657.14	6.07	313.51	5,654.72	21.22	12.96	-21.65	2.15	2.14	-2.14
5,670.71	6.37	313.30	5,668.21	22.23	11.89	-22.62	2.22	2.21	-1.55
5,684.29	6.67	313.13	5,681.70	23.29	10.77	-23.64	2.21	2.21	-1.25
5,697.86	6.97	313.00	5,695.17	24.39	9.59	-24.70	2.21	2.21	-0.96
5,711.43	7.24	312.87	5,708.64	25.53	8.36	-25.80	1.99	1.99	-0.96
5,725.00	7.62	314.04	5,722.10	26.74	7.09	-26.97	3.01	2.80	8.62
5,738.43	7.88	314.24	5,735.40	28.00	5.79	-28.18	1.95	1.94	1.49
5,751.86	8.07	314.06	5,748.70	29.30	4.45	-29.43	1.43	1.41	-1.34
5,765.29	8.26	313.87	5,762.00	30.62	3.08	-30.71	1.43	1.41	-1.41
5,778.71	8.44	313.70	5,775.27	31.97	1.67	-32.01	1.35	1.34	-1.27
5,792.14	8.62	313.55	5,788.56	33.35	0.23	-33.34	1.35	1.34	-1.12
5,805.57	8.78	313.44	5,801.83	34.75	-1.24	-34.68	1.20	1.19	-0.82
5,819.00	8.95	313.38	5,815.10	36.17	-2.75	-36.05	1.27	1.27	-0.45
5,832.57	9.10	313.39	5,828.50	37.63	-4.29	-37.46	1.11	1.11	0.07
5,846.14	9.25	313.47	5,841.90	39.12	-5.86	-38.90	1.11	1.11	0.59
5,859.71	9.40	313.63	5,855.29	40.63	-7.46	-40.36	1.12	1.11	1.18
5,873.29	9.55	313.89	5,868.68	42.18	-9.07	-41.85	1.15	1.10	1.91
5,886.86	9.71	314.27	5,882.06	43.76	-10.70	-43.37	1.27	1.18	2.80
5,900.43	9.78	314.44	5,895.44	45.36	-12.34	-44.92	0.56	0.52	1.25
5,914.00	9.83	314.99	5,908.81	46.99	-13.99	-46.49	0.78	0.37	4.05
5,927.57	10.06	316.16	5,922.18	48.66	-15.63	-48.11	2.26	1.69	8.62
5,941.14	10.31	317.49	5,935.53	50.41	-17.27	-49.80	2.53	1.84	9.80
5,954.71	10.58	318.88	5,948.88	52.25	-18.91	-51.58	2.72	1.99	10.24
5,968.29	10.85	320.27	5,962.22	54.17	-20.55	-53.44	2.75	1.99	10.24
5,981.86	11.03	321.36	5,975.54	56.17	-22.17	-55.38	2.02	1.33	8.03
5,995.43	11.27	322.66	5,988.86	58.23	-23.79	-57.40	2.56	1.77	9.58



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
6,009.00	11.49	323.85	6,002.16	60.38	-25.39	-59.49	2.37	1.62	8.77
6,022.43	11.60	324.41	6,015.32	62.56	-26.96	-61.61	1.17	0.82	4.17
6,035.86	11.69	325.48	6,028.47	64.78	-28.52	-63.77	1.74	0.67	7.97
6,049.29	11.83	326.44	6,041.62	67.04	-30.05	-65.99	1.79	1.04	7.15
6,062.71	11.93	327.55	6,054.75	69.36	-31.56	-68.25	1.86	0.75	8.27
6,076.14	11.87	328.49	6,067.89	71.71	-33.02	-70.55	1.51	-0.45	7.00
6,089.57	11.88	329.52	6,081.04	74.08	-34.45	-72.87	1.58	0.07	7.67
6,103.00	11.88	330.61	6,094.18	76.47	-35.83	-75.22	1.67	0.00	8.12
6,116.57	11.85	331.81	6,107.46	78.92	-37.17	-77.62	1.83	-0.22	8.84
6,130.14	11.81	333.07	6,120.74	81.39	-38.46	-80.04	1.93	-0.29	9.29
6,143.71	11.76	334.34	6,134.03	83.87	-39.68	-82.48	1.95	-0.37	9.36
6,157.29	11.72	335.62	6,147.32	86.37	-40.85	-84.94	1.94	-0.29	9.43
6,170.86	11.67	336.85	6,160.61	88.89	-41.96	-87.42	1.87	-0.37	9.06
6,184.43	11.64	337.43	6,173.90	91.42	-43.03	-89.91	0.89	-0.22	4.27
6,198.00	11.62	338.07	6,187.19	93.95	-44.06	-92.41	0.96	-0.15	4.72
6,211.43	11.59	338.93	6,200.35	96.46	-45.05	-94.88	1.31	-0.22	6.40
6,224.86	11.57	339.68	6,213.50	98.98	-46.01	-97.37	1.13	-0.15	5.58
6,238.29	11.55	340.34	6,226.66	101.51	-46.93	-99.87	1.00	-0.15	4.91
6,251.71	11.52	340.95	6,239.81	104.05	-47.81	-102.37	0.94	-0.22	4.55
6,265.14	11.48	341.49	6,252.97	106.58	-48.68	-104.87	0.86	-0.30	4.02
6,278.57	11.42	341.97	6,266.13	109.11	-49.51	-107.38	0.84	-0.45	3.57
6,292.00	11.33	342.38	6,279.30	111.63	-50.32	-109.87	0.90	-0.67	3.05
6,305.57	11.19	342.71	6,292.61	114.16	-51.12	-112.37	1.14	-1.03	2.43
6,319.14	11.02	342.98	6,305.92	116.66	-51.89	-114.84	1.31	-1.25	1.99
6,332.71	10.83	343.20	6,319.25	119.12	-52.64	-117.27	1.43	-1.40	1.62
6,346.29	10.63	343.38	6,332.59	121.54	-53.36	-119.67	1.49	-1.47	1.33
6,359.86	10.43	343.54	6,345.93	123.92	-54.07	-122.02	1.49	-1.47	1.18
6,373.43	10.24	343.67	6,359.28	126.25	-54.76	-124.33	1.41	-1.40	0.96
6,387.00	10.05	343.70	6,372.64	128.55	-55.43	-126.60	1.40	-1.40	0.22
6,400.57	9.75	342.77	6,386.01	130.78	-56.10	-128.81	2.51	-2.21	-6.85
6,414.14	9.55	343.18	6,399.39	132.96	-56.77	-130.96	1.56	-1.47	3.02
6,427.71	9.41	343.20	6,412.77	135.10	-57.41	-133.08	1.03	-1.03	0.15
6,441.29	9.27	343.19	6,426.17	137.21	-58.05	-135.16	1.03	-1.03	-0.07
6,454.86	9.15	343.17	6,439.56	139.29	-58.68	-137.22	0.88	-0.88	-0.15
6,468.43	9.04	343.14	6,452.96	141.34	-59.30	-139.25	0.81	-0.81	-0.22
6,482.00	8.96	343.13	6,466.37	143.37	-59.92	-141.26	0.59	-0.59	-0.07
6,495.43	8.91	343.18	6,479.63	145.37	-60.52	-143.24	0.38	-0.37	0.37
6,508.86	8.90	343.24	6,492.90	147.36	-61.12	-145.21	0.10	-0.07	0.45
6,522.29	8.90	343.32	6,506.17	149.35	-61.72	-147.17	0.09	0.00	0.60
6,535.71	8.91	343.39	6,519.43	151.34	-62.32	-149.14	0.11	0.07	0.52
6,549.14	8.92	343.46	6,532.70	153.33	-62.91	-151.12	0.11	0.07	0.52
6,562.57	8.94	343.51	6,545.96	155.33	-63.50	-153.09	0.16	0.15	0.37
6,576.00	8.94	343.54	6,559.23	157.33	-64.09	-155.07	0.03	0.00	0.22
6,589.57	8.94	343.54	6,572.64	159.35	-64.69	-157.08	0.00	0.00	0.00



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
6,603.14	8.93	343.52	6,586.04	161.37	-65.29	-159.08	0.08	-0.07	-0.15
6,616.71	8.92	343.48	6,599.45	163.39	-65.89	-161.07	0.09	-0.07	-0.29
6,630.29	8.91	343.44	6,612.86	165.41	-66.49	-163.07	0.09	-0.07	-0.29
6,643.86	8.90	343.39	6,626.27	167.42	-67.09	-165.06	0.09	-0.07	-0.37
6,657.43	8.89	343.35	6,639.68	169.43	-67.69	-167.05	0.09	-0.07	-0.29
6,671.00	8.88	343.32	6,653.08	171.44	-68.29	-169.04	0.08	-0.07	-0.22
6,684.57	8.88	343.33	6,666.49	173.45	-68.89	-171.02	0.01	0.00	0.07
6,698.14	8.89	343.35	6,679.90	175.46	-69.49	-173.01	0.08	0.07	0.15
6,711.71	8.90	343.38	6,693.30	177.47	-70.09	-175.00	0.08	0.07	0.22
6,725.29	8.92	343.40	6,706.72	179.48	-70.69	-176.99	0.15	0.15	0.15
6,738.86	8.95	343.40	6,720.13	181.50	-71.29	-178.99	0.22	0.22	0.00
6,752.43	8.98	343.37	6,733.53	183.53	-71.90	-180.99	0.22	0.22	-0.22
6,766.00	9.03	343.30	6,746.93	185.56	-72.51	-183.01	0.38	0.37	-0.52
6,779.43	9.10	343.16	6,760.20	187.59	-73.12	-185.01	0.55	0.52	-1.04
6,792.86	9.18	342.97	6,773.45	189.63	-73.74	-187.03	0.64	0.60	-1.41
6,806.29	9.27	342.75	6,786.71	191.69	-74.37	-189.06	0.72	0.67	-1.64
6,819.71	9.36	342.51	6,799.95	193.76	-75.02	-191.11	0.73	0.67	-1.79
6,833.14	9.45	342.26	6,813.20	195.85	-75.69	-193.18	0.74	0.67	-1.86
6,846.57	9.54	341.98	6,826.45	197.96	-76.37	-195.27	0.75	0.67	-2.08
6,860.00	9.62	342.39	6,839.69	200.09	-77.05	-197.37	0.78	0.60	3.05
6,873.57	9.69	342.04	6,853.07	202.26	-77.74	-199.51	0.67	0.52	-2.58
6,887.14	9.75	341.67	6,866.45	204.43	-78.46	-201.66	0.64	0.44	-2.73
6,900.71	9.81	341.29	6,879.82	206.62	-79.19	-203.82	0.65	0.44	-2.80
6,914.29	9.86	340.91	6,893.20	208.81	-79.94	-205.99	0.60	0.37	-2.80
6,927.86	9.92	340.53	6,906.57	211.01	-80.71	-208.16	0.65	0.44	-2.80
6,941.43	9.96	340.18	6,919.93	213.22	-81.50	-210.34	0.53	0.29	-2.58
6,955.00	10.00	339.86	6,933.30	215.43	-82.30	-212.52	0.50	0.29	-2.36
6,968.57	10.03	339.59	6,946.66	217.64	-83.12	-214.71	0.41	0.22	-1.99
6,982.14	10.05	339.36	6,960.02	219.86	-83.95	-216.89	0.33	0.15	-1.69
6,995.71	10.07	339.14	6,973.38	222.08	-84.79	-219.08	0.32	0.15	-1.62
7,009.29	10.09	338.94	6,986.76	224.30	-85.64	-221.27	0.30	0.15	-1.47
7,022.86	10.12	338.75	7,000.11	226.52	-86.50	-223.46	0.33	0.22	-1.40
7,036.43	10.15	338.57	7,013.47	228.74	-87.37	-225.65	0.32	0.22	-1.33
7,050.00	10.20	338.39	7,026.83	230.97	-88.25	-227.85	0.44	0.37	-1.33
7,063.43	10.27	338.22	7,040.05	233.19	-89.13	-230.04	0.57	0.52	-1.27
7,076.86	10.35	338.05	7,053.26	235.42	-90.02	-232.24	0.64	0.60	-1.27
7,090.29	10.44	337.87	7,066.47	237.66	-90.93	-234.45	0.71	0.67	-1.34
7,103.71	10.52	337.70	7,079.66	239.92	-91.86	-236.68	0.64	0.60	-1.27
7,117.14	10.60	337.53	7,092.87	242.20	-92.79	-238.92	0.64	0.60	-1.27
7,130.57	10.67	337.35	7,106.07	244.49	-93.75	-241.18	0.58	0.52	-1.34
7,144.00	10.72	337.17	7,119.26	246.79	-94.71	-243.44	0.45	0.37	-1.34
7,157.57	10.74	336.96	7,132.60	249.11	-95.69	-245.74	0.32	0.15	-1.55
7,171.14	10.74	336.75	7,145.93	251.44	-96.69	-248.03	0.29	0.00	-1.55



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
7,184.71	10.72	336.53	7,159.26	253.76	-97.69	-250.31	0.34	-0.15	-1.62
7,198.29	10.71	336.32	7,172.60	256.07	-98.70	-252.59	0.30	-0.07	-1.55
7,211.86	10.69	336.12	7,185.94	258.38	-99.71	-254.86	0.31	-0.15	-1.47
7,225.43	10.68	335.94	7,199.27	260.68	-100.74	-257.12	0.26	-0.07	-1.33
7,239.00	10.69	335.79	7,212.61	262.97	-101.77	-259.38	0.22	0.07	-1.11
7,252.57	10.73	335.70	7,225.94	265.27	-102.80	-261.64	0.32	0.29	-0.66
7,266.14	10.79	335.63	7,239.27	267.58	-103.85	-263.92	0.45	0.44	-0.52
7,279.71	10.85	335.58	7,252.60	269.90	-104.90	-266.20	0.45	0.44	-0.37
7,293.29	10.93	335.54	7,265.94	272.24	-105.96	-268.50	0.59	0.59	-0.29
7,306.86	11.00	335.48	7,279.26	274.59	-107.03	-270.81	0.52	0.52	-0.44
7,320.43	11.07	335.41	7,292.58	276.95	-108.11	-273.13	0.53	0.52	-0.52
7,334.00	11.12	335.30	7,305.89	279.32	-109.20	-275.47	0.40	0.37	-0.81
7,347.57	11.16	335.14	7,319.21	281.70	-110.30	-277.81	0.37	0.29	-1.18
7,361.14	11.19	334.93	7,332.52	284.09	-111.41	-280.16	0.37	0.22	-1.55
7,374.71	11.22	334.71	7,345.83	286.47	-112.53	-282.50	0.38	0.22	-1.62
7,388.29	11.24	334.49	7,359.15	288.86	-113.66	-284.85	0.35	0.15	-1.62
7,401.86	11.26	334.27	7,372.46	291.25	-114.81	-287.20	0.35	0.15	-1.62
7,415.43	11.29	334.08	7,385.77	293.64	-115.96	-289.55	0.35	0.22	-1.40
7,429.00	11.33	333.94	7,399.08	296.03	-117.13	-291.90	0.36	0.29	-1.03
7,442.57	11.38	333.87	7,412.38	298.43	-118.30	-294.26	0.38	0.37	-0.52
7,456.14	11.44	333.85	7,425.68	300.84	-119.49	-296.63	0.44	0.44	-0.15
7,469.71	11.51	333.84	7,438.98	303.26	-120.68	-299.01	0.52	0.52	-0.07
7,483.29	11.58	333.85	7,452.29	305.70	-121.88	-301.41	0.52	0.52	0.07
7,496.86	11.64	333.86	7,465.58	308.15	-123.08	-303.81	0.44	0.44	0.07
7,510.43	11.71	333.85	7,478.87	310.62	-124.29	-306.24	0.52	0.52	-0.07
7,524.00	11.77	333.81	7,492.15	313.10	-125.51	-308.67	0.45	0.44	-0.29
7,537.57	11.81	333.71	7,505.44	315.58	-126.73	-311.12	0.33	0.29	-0.74
7,551.14	11.85	333.58	7,518.72	318.08	-127.97	-313.57	0.35	0.29	-0.96
7,564.71	11.89	333.42	7,532.00	320.57	-129.21	-316.02	0.38	0.29	-1.18
7,578.29	11.92	333.26	7,545.29	323.08	-130.47	-318.48	0.33	0.22	-1.18
7,591.86	11.96	333.09	7,558.56	325.58	-131.74	-320.94	0.39	0.29	-1.25
7,605.43	11.99	332.92	7,571.84	328.09	-133.01	-323.41	0.34	0.22	-1.25
7,619.00	12.04	332.76	7,585.11	330.60	-134.30	-325.87	0.44	0.37	-1.18
7,632.43	12.10	332.61	7,598.24	333.10	-135.59	-328.32	0.50	0.45	-1.12
7,645.86	12.05	332.72	7,611.38	335.60	-136.88	-330.77	0.41	-0.37	0.82
7,659.29	11.99	332.32	7,624.51	338.08	-138.17	-333.21	0.76	-0.45	-2.98
7,672.71	12.07	332.21	7,637.64	340.55	-139.48	-335.64	0.62	0.60	-0.82
7,686.14	12.14	332.13	7,650.77	343.04	-140.79	-338.09	0.54	0.52	-0.60
7,699.57	12.23	332.10	7,663.90	345.55	-142.12	-340.55	0.67	0.67	-0.22
7,713.00	12.31	332.13	7,677.02	348.07	-143.45	-343.02	0.60	0.60	0.22
7,726.57	12.40	332.25	7,690.28	350.64	-144.81	-345.54	0.69	0.66	0.88
7,740.14	12.50	332.43	7,703.53	353.23	-146.16	-348.09	0.79	0.74	1.33
7,753.71	12.59	332.65	7,716.77	355.85	-147.52	-350.65	0.75	0.66	1.62



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
7,767.29	12.68	332.88	7,730.02	358.49	-148.88	-353.25	0.76	0.66	1.69
7,780.86	12.76	333.11	7,743.26	361.15	-150.24	-355.86	0.70	0.59	1.69
7,794.43	12.84	333.33	7,756.49	363.83	-151.59	-358.50	0.69	0.59	1.62
7,808.00	12.80	333.35	7,769.73	366.52	-152.94	-361.14	0.30	-0.29	0.15
7,821.57	12.86	333.15	7,782.96	369.22	-154.30	-363.79	0.55	0.44	-1.47
7,835.14	12.89	333.30	7,796.19	371.91	-155.66	-366.44	0.33	0.22	1.11
7,848.71	12.91	333.43	7,809.41	374.62	-157.02	-369.10	0.26	0.15	0.96
7,862.29	12.92	333.55	7,822.65	377.34	-158.38	-371.77	0.21	0.07	0.88
7,875.86	12.94	333.65	7,835.88	380.06	-159.73	-374.44	0.22	0.15	0.74
7,889.43	12.96	333.74	7,849.10	382.78	-161.07	-377.12	0.21	0.15	0.66
7,903.00	12.99	333.80	7,862.32	385.52	-162.42	-379.81	0.24	0.22	0.44
7,916.43	13.03	334.21	7,875.41	388.24	-163.75	-382.48	0.75	0.30	3.05
7,929.86	13.07	333.86	7,888.49	390.96	-165.07	-385.16	0.66	0.30	-2.61
7,943.29	13.14	333.84	7,901.57	393.69	-166.41	-387.84	0.52	0.52	-0.15
7,956.71	13.22	333.81	7,914.64	396.44	-167.76	-390.54	0.60	0.60	-0.22
7,970.14	13.30	333.77	7,927.71	399.20	-169.13	-393.26	0.60	0.60	-0.30
7,983.57	13.38	333.70	7,940.78	401.98	-170.50	-395.99	0.61	0.60	-0.52
7,997.00	13.46	333.61	7,953.84	404.78	-171.88	-398.73	0.62	0.60	-0.67
8,010.57	13.55	333.49	7,967.04	407.61	-173.29	-401.52	0.69	0.66	-0.88
8,024.14	13.63	333.33	7,980.23	410.47	-174.72	-404.32	0.65	0.59	-1.18
8,037.71	13.70	333.14	7,993.41	413.33	-176.16	-407.13	0.61	0.52	-1.40
8,051.29	13.78	332.92	8,006.60	416.20	-177.62	-409.96	0.70	0.59	-1.62
8,064.86	13.86	332.63	8,019.78	419.08	-179.11	-412.79	0.78	0.59	-2.14
8,078.43	13.93	332.28	8,032.95	421.97	-180.61	-415.63	0.81	0.52	-2.58
8,092.00	14.00	331.81	8,046.12	424.87	-182.15	-418.46	0.98	0.52	-3.46
8,105.43	14.06	331.15	8,059.15	427.73	-183.70	-421.27	1.27	0.45	-4.91
8,118.86	14.00	330.31	8,072.18	430.57	-185.30	-424.06	1.58	-0.45	-6.25
8,132.29	14.12	329.83	8,085.21	433.40	-186.92	-426.83	1.25	0.89	-3.57
8,145.71	14.35	329.89	8,098.22	436.25	-188.58	-429.62	1.72	1.71	0.45
8,159.14	14.45	329.17	8,111.23	439.13	-190.27	-432.44	1.53	0.74	-5.36
8,172.57	14.51	328.54	8,124.23	442.00	-192.01	-435.26	1.26	0.45	-4.69
8,186.00	14.71	328.66	8,137.22	444.89	-193.78	-438.09	1.51	1.49	0.89
8,199.57	14.75	328.09	8,150.35	447.83	-195.59	-440.96	1.11	0.29	-4.20
8,213.14	14.82	328.01	8,163.47	450.77	-197.42	-443.84	0.54	0.52	-0.59
8,226.71	14.89	328.06	8,176.59	453.72	-199.26	-446.72	0.52	0.52	0.37
8,240.29	14.94	328.21	8,189.71	456.69	-201.11	-449.63	0.47	0.37	1.10
8,253.86	14.96	328.47	8,202.82	459.67	-202.94	-452.54	0.52	0.15	1.92
8,267.43	14.94	328.86	8,215.93	462.66	-204.76	-455.47	0.76	-0.15	2.87
8,281.00	15.07	330.28	8,229.04	465.69	-206.54	-458.44	2.87	0.96	10.46
8,294.43	14.71	331.72	8,242.02	468.71	-208.22	-461.40	3.84	-2.68	10.72
8,307.86	14.47	332.74	8,255.01	471.70	-209.79	-464.34	2.62	-1.79	7.59
8,321.29	14.19	333.92	8,268.03	474.67	-211.28	-467.25	3.01	-2.08	8.79
8,334.71	13.91	335.18	8,281.04	477.61	-212.68	-470.15	3.09	-2.09	9.39
8,348.14	13.62	336.45	8,294.09	480.53	-213.99	-473.01	3.12	-2.16	9.46



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
8,361.57	13.26	337.32	8,307.15	483.40	-215.22	-475.84	3.07	-2.68	6.48
8,375.00	13.04	338.31	8,320.23	486.23	-216.37	-478.63	2.34	-1.64	7.37
8,388.57	12.35	341.53	8,333.47	489.02	-217.40	-481.39	7.28	-5.08	23.73
8,402.14	11.71	344.25	8,346.74	491.73	-218.23	-484.07	6.30	-4.72	20.04
8,415.71	11.62	344.16	8,360.03	494.37	-218.98	-486.68	0.68	-0.66	-0.66
8,429.29	11.55	343.90	8,373.33	496.99	-219.73	-489.27	0.64	-0.52	-1.91
8,442.86	11.50	343.56	8,386.63	499.59	-220.49	-491.85	0.62	-0.37	-2.51
8,456.43	11.46	343.22	8,399.93	502.18	-221.26	-494.41	0.58	-0.29	-2.51
8,470.00	11.42	342.97	8,413.23	504.75	-222.04	-496.96	0.47	-0.29	-1.84
8,483.57	11.38	342.94	8,426.53	507.32	-222.83	-499.49	0.30	-0.29	-0.22
8,497.14	11.33	343.02	8,439.83	509.87	-223.61	-502.02	0.39	-0.37	0.59
8,510.71	11.29	343.13	8,453.14	512.42	-224.39	-504.54	0.33	-0.29	0.81
8,524.29	10.93	343.87	8,466.47	514.93	-225.13	-507.02	2.85	-2.65	5.45
8,537.86	10.16	345.28	8,479.81	517.32	-225.79	-509.39	5.98	-5.67	10.39
8,551.43	9.83	345.63	8,493.17	519.60	-226.38	-511.65	2.47	-2.43	2.58
8,565.00	9.75	345.56	8,506.54	521.84	-226.96	-513.86	0.60	-0.59	-0.52
8,578.43	9.65	345.28	8,519.78	524.03	-227.53	-516.03	0.82	-0.74	-2.08
8,591.86	9.53	344.87	8,533.02	526.19	-228.10	-518.17	1.03	-0.89	-3.05
8,605.29	9.41	344.35	8,546.27	528.32	-228.69	-520.28	1.10	-0.89	-3.87
8,618.71	9.29	343.76	8,559.51	530.41	-229.29	-522.36	1.14	-0.89	-4.40
8,632.14	9.16	343.11	8,572.77	532.48	-229.90	-524.40	1.24	-0.97	-4.84
8,645.57	9.04	342.41	8,586.03	534.51	-230.53	-526.41	1.22	-0.89	-5.21
8,659.00	8.92	341.67	8,599.29	536.50	-231.18	-528.38	1.24	-0.89	-5.51
8,672.57	8.80	340.98	8,612.70	538.48	-231.85	-530.33	1.18	-0.88	-5.08
8,686.14	8.69	340.26	8,626.11	540.43	-232.53	-532.26	1.14	-0.81	-5.31
8,699.71	8.58	339.52	8,639.53	542.34	-233.23	-534.14	1.15	-0.81	-5.45
8,713.29	8.46	338.74	8,652.96	544.22	-233.95	-536.00	1.23	-0.88	-5.74
8,726.86	8.35	337.93	8,666.39	546.06	-234.68	-537.82	1.19	-0.81	-5.97
8,740.43	8.22	337.06	8,679.81	547.87	-235.43	-539.60	1.33	-0.96	-6.41
8,754.00	8.09	336.11	8,693.25	549.64	-236.19	-541.34	1.38	-0.96	-7.00
8,767.57	7.92	335.15	8,706.68	551.36	-236.97	-543.03	1.59	-1.25	-7.07
8,781.14	7.74	334.11	8,720.13	553.03	-237.77	-544.67	1.69	-1.33	-7.66
8,794.71	7.55	333.02	8,733.58	554.65	-238.57	-546.26	1.76	-1.40	-8.03
8,808.29	7.36	331.89	8,747.04	556.21	-239.38	-547.79	1.77	-1.40	-8.32
8,821.86	7.18	330.74	8,760.50	557.71	-240.21	-549.27	1.71	-1.33	-8.47
8,835.43	7.01	329.61	8,773.97	559.17	-241.04	-550.70	1.62	-1.25	-8.33
8,849.00	6.85	328.55	8,787.44	560.57	-241.88	-552.07	1.51	-1.18	-7.81
8,862.57	6.71	327.77	8,800.92	561.93	-242.73	-553.40	1.23	-1.03	-5.75
8,876.14	6.58	327.10	8,814.39	563.26	-243.57	-554.70	1.12	-0.96	-4.94
8,889.71	6.46	326.49	8,827.88	564.55	-244.42	-555.96	1.02	-0.88	-4.50
8,903.29	6.35	325.94	8,841.37	565.81	-245.26	-557.19	0.93	-0.81	-4.05
8,916.86	6.24	325.41	8,854.86	567.03	-246.10	-558.39	0.92	-0.81	-3.91
8,930.43	6.13	324.89	8,868.35	568.23	-246.93	-559.56	0.91	-0.81	-3.83



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
8,944.00	6.02	324.38	8,881.84	569.41	-247.76	-560.70	0.90	-0.81	-3.76
8,957.43	5.90	323.85	8,895.20	570.54	-248.58	-561.80	0.98	-0.89	-3.95
8,970.86	5.77	323.31	8,908.56	571.63	-249.39	-562.87	1.05	-0.97	-4.02
8,984.29	5.64	322.77	8,921.93	572.70	-250.19	-563.91	1.05	-0.97	-4.02
8,997.71	5.52	322.22	8,935.28	573.74	-250.99	-564.92	0.98	-0.89	-4.10
9,011.14	5.40	321.68	8,948.65	574.74	-251.78	-565.90	0.97	-0.89	-4.02
9,024.57	5.28	321.15	8,962.02	575.72	-252.56	-566.85	0.97	-0.89	-3.95
9,038.00	5.18	320.64	8,975.40	576.67	-253.33	-567.77	0.82	-0.74	-3.80
9,051.57	5.09	320.19	8,988.91	577.61	-254.10	-568.68	0.73	-0.66	-3.32
9,065.14	5.02	319.78	9,002.43	578.52	-254.87	-569.57	0.58	-0.52	-3.02
9,078.71	4.95	319.41	9,015.95	579.42	-255.64	-570.44	0.57	-0.52	-2.73
9,092.29	4.84	318.16	9,029.48	580.29	-256.40	-571.29	1.13	-0.81	-9.20
9,105.86	4.72	317.37	9,043.00	581.13	-257.16	-572.10	1.01	-0.88	-5.82
9,119.43	4.65	317.19	9,056.53	581.94	-257.91	-572.89	0.53	-0.52	-1.33
9,133.00	4.58	317.11	9,070.05	582.74	-258.65	-573.66	0.52	-0.52	-0.59
9,146.43	4.49	317.19	9,083.44	583.52	-259.38	-574.42	0.67	-0.67	0.60
9,159.86	4.29	314.82	9,096.83	584.26	-260.09	-575.13	2.01	-1.49	-17.65
9,173.29	3.90	314.22	9,110.23	584.93	-260.77	-575.78	2.92	-2.90	-4.47
9,186.71	3.21	311.53	9,123.62	585.50	-261.38	-576.33	5.29	-5.14	-20.04
9,200.14	3.11	312.00	9,137.03	585.99	-261.93	-576.80	0.77	-0.74	3.50
9,213.57	3.00	312.57	9,150.44	586.48	-262.46	-577.27	0.85	-0.82	4.24
9,227.00	2.91	313.13	9,163.85	586.95	-262.97	-577.72	0.70	-0.67	4.17
9,240.57	2.83	313.42	9,177.41	587.41	-263.46	-578.17	0.60	-0.59	2.14
9,254.14	2.75	313.63	9,190.96	587.87	-263.94	-578.61	0.59	-0.59	1.55
9,267.71	2.68	313.78	9,204.52	588.31	-264.41	-579.03	0.52	-0.52	1.11
9,281.29	2.62	313.91	9,218.08	588.75	-264.86	-579.45	0.44	-0.44	0.96
9,294.86	2.55	314.01	9,231.64	589.17	-265.30	-579.86	0.52	-0.52	0.74
9,308.43	2.49	314.12	9,245.19	589.59	-265.73	-580.26	0.44	-0.44	0.81
9,322.00	2.43	314.23	9,258.75	589.99	-266.15	-580.65	0.44	-0.44	0.81
9,335.57	2.37	314.32	9,272.31	590.39	-266.56	-581.04	0.44	-0.44	0.66
9,349.14	2.31	314.40	9,285.87	590.78	-266.95	-581.41	0.44	-0.44	0.59
9,362.71	2.25	314.43	9,299.43	591.15	-267.34	-581.78	0.44	-0.44	0.22
9,376.29	2.19	314.37	9,313.00	591.52	-267.71	-582.13	0.44	-0.44	-0.44
9,389.86	2.14	314.17	9,326.56	591.88	-268.08	-582.48	0.37	-0.37	-1.47
9,403.43	2.10	313.74	9,340.12	592.23	-268.44	-582.81	0.32	-0.29	-3.17
9,417.00	2.07	312.93	9,353.68	592.57	-268.80	-583.14	0.31	-0.22	-5.97
9,430.57	2.07	311.56	9,367.24	592.90	-269.16	-583.46	0.36	0.00	-10.10
9,444.14	2.08	309.89	9,380.80	593.22	-269.54	-583.76	0.45	0.07	-12.31
9,457.71	2.09	308.10	9,394.36	593.53	-269.92	-584.06	0.49	0.07	-13.19
9,471.29	2.12	306.34	9,407.93	593.83	-270.32	-584.35	0.52	0.22	-12.96
9,484.86	2.14	304.72	9,421.49	594.12	-270.73	-584.63	0.47	0.15	-11.94
9,498.43	2.17	303.38	9,435.05	594.41	-271.15	-584.90	0.43	0.22	-9.87
9,512.00	2.19	302.46	9,448.61	594.69	-271.58	-585.16	0.30	0.15	-6.78



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
9,525.43	2.19	302.24	9,462.03	594.96	-272.02	-585.42	0.06	0.00	-1.64
9,538.86	2.18	302.38	9,475.45	595.24	-272.45	-585.68	0.08	-0.07	1.04
9,552.29	2.14	302.20	9,488.88	595.51	-272.88	-585.94	0.30	-0.30	-1.34
9,565.71	1.87	294.84	9,502.29	595.73	-273.29	-586.15	2.78	-2.01	-54.84
9,579.14	1.74	294.18	9,515.71	595.91	-273.67	-586.31	0.98	-0.97	-4.91
9,592.57	1.71	294.64	9,529.13	596.07	-274.04	-586.47	0.25	-0.22	3.43
9,606.00	1.69	294.92	9,542.56	596.24	-274.40	-586.62	0.16	-0.15	2.08
9,619.57	1.67	294.54	9,556.12	596.41	-274.76	-586.78	0.17	-0.15	-2.80
9,633.14	1.65	293.79	9,569.69	596.57	-275.12	-586.93	0.22	-0.15	-5.53
9,646.71	1.63	292.79	9,583.25	596.72	-275.48	-587.07	0.26	-0.15	-7.37
9,660.29	1.61	291.61	9,596.83	596.87	-275.83	-587.20	0.29	-0.15	-8.69
9,673.86	1.59	290.33	9,610.39	597.00	-276.19	-587.32	0.30	-0.15	-9.43
9,687.43	1.58	288.99	9,623.96	597.13	-276.54	-587.44	0.28	-0.07	-9.87
9,701.00	1.56	287.67	9,637.52	597.25	-276.89	-587.54	0.30	-0.15	-9.73
9,714.57	1.54	286.56	9,651.09	597.35	-277.25	-587.64	0.27	-0.15	-8.18
9,728.14	1.52	285.51	9,664.65	597.45	-277.59	-587.73	0.25	-0.15	-7.74
9,741.71	1.49	284.52	9,678.22	597.55	-277.94	-587.81	0.29	-0.22	-7.30
9,755.29	1.47	283.60	9,691.79	597.63	-278.28	-587.88	0.23	-0.15	-6.77
9,768.86	1.45	282.78	9,705.36	597.71	-278.61	-587.95	0.21	-0.15	-6.04
9,782.43	1.43	282.15	9,718.92	597.79	-278.95	-588.01	0.19	-0.15	-4.64
9,796.00	1.41	281.82	9,732.49	597.85	-279.28	-588.07	0.16	-0.15	-2.43
9,808.40	1.40	282.08	9,744.88	597.92	-279.57	-588.12	0.10	-0.08	2.10
9,820.80	1.38	282.44	9,757.28	597.98	-279.87	-588.18	0.18	-0.16	2.90
9,833.20	1.37	282.57	9,769.68	598.05	-280.16	-588.23	0.08	-0.08	1.05
9,845.60	1.35	282.09	9,782.07	598.11	-280.45	-588.28	0.19	-0.16	-3.87
9,858.00	1.34	280.53	9,794.47	598.17	-280.73	-588.33	0.31	-0.08	-12.58
9,872.33	1.32	276.59	9,808.80	598.22	-281.06	-588.37	0.65	-0.14	-27.49
9,886.67	1.32	271.14	9,823.13	598.24	-281.39	-588.38	0.88	0.00	-38.01
9,901.00	1.33	264.80	9,837.46	598.23	-281.72	-588.36	1.02	0.07	-44.24
9,915.33	1.36	258.07	9,851.79	598.18	-282.05	-588.30	1.12	0.21	-46.96
9,929.67	1.38	255.04	9,866.12	598.10	-282.39	-588.21	0.52	0.14	-21.13
9,944.00	1.39	264.10	9,880.45	598.03	-282.72	-588.13	1.53	0.07	63.22
9,958.33	1.47	257.36	9,894.77	597.98	-283.08	-588.06	1.30	0.56	-47.03
9,972.67	1.56	251.09	9,909.11	597.87	-283.44	-587.95	1.31	0.63	-43.72
9,987.00	1.43	252.27	9,923.43	597.75	-283.80	-587.82	0.93	-0.91	8.23
10,000.57	1.88	231.89	9,937.00	597.57	-284.13	-587.62	5.41	3.32	-150.18
10,014.14	2.68	222.23	9,950.56	597.19	-284.52	-587.23	6.52	5.90	-71.19
10,027.71	3.35	214.17	9,964.11	596.63	-284.96	-586.65	5.83	4.94	-59.40
10,041.29	3.87	208.15	9,977.66	595.90	-285.40	-585.91	4.73	3.83	-44.33
10,054.86	4.67	205.81	9,991.19	595.00	-285.85	-584.99	6.03	5.90	-17.24
10,068.43	5.76	206.65	10,004.71	593.89	-286.40	-583.87	8.05	8.03	6.19
10,082.00	6.76	206.65	10,018.20	592.57	-287.06	-582.52	7.37	7.37	0.00
10,095.57	7.69	208.69	10,031.66	591.06	-287.86	-580.99	7.11	6.85	15.03
10,109.14	8.60	210.77	10,045.09	589.39	-288.81	-579.29	7.05	6.71	15.33



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
10,122.71	9.48	211.19	10,058.49	587.56	-289.91	-577.42	6.50	6.48	3.10
10,136.29	10.27	209.59	10,071.87	585.55	-291.09	-575.37	6.16	5.82	-11.78
10,149.86	10.54	211.43	10,085.22	583.44	-292.33	-573.22	3.16	1.99	13.56
10,163.43	10.86	212.78	10,098.55	581.31	-293.67	-571.05	3.00	2.36	9.95
10,177.00	11.28	213.49	10,111.87	579.13	-295.09	-568.82	3.25	3.10	5.23
10,190.57	11.71	213.82	10,125.17	576.88	-296.59	-566.52	3.21	3.17	2.43
10,204.14	11.99	213.31	10,138.45	574.55	-298.13	-564.14	2.20	2.06	-3.76
10,217.71	12.54	211.36	10,151.71	572.12	-299.67	-561.66	5.07	4.05	-14.37
10,231.29	13.17	209.93	10,164.95	569.52	-301.21	-559.01	5.20	4.64	-10.53
10,244.86	14.23	204.73	10,178.13	566.66	-302.68	-556.10	11.97	7.81	-38.32
10,258.43	16.14	202.85	10,191.23	563.41	-304.11	-552.80	14.53	14.08	-13.85
10,272.00	17.68	201.54	10,204.21	559.75	-305.60	-549.10	11.69	11.35	-9.65
10,285.43	19.69	199.29	10,216.93	555.72	-307.10	-545.02	15.90	14.97	-16.75
10,298.86	21.74	197.00	10,229.49	551.21	-308.57	-540.46	16.41	15.26	-17.05
10,312.29	23.81	195.46	10,241.88	546.22	-310.02	-535.42	16.04	15.41	-11.47
10,325.71	25.64	194.01	10,254.06	540.79	-311.45	-529.95	14.36	13.64	-10.80
10,339.14	27.68	194.43	10,266.07	534.95	-312.93	-524.06	15.25	15.19	3.13
10,352.57	29.77	193.40	10,277.84	528.68	-314.48	-517.74	15.99	15.56	-7.67
10,366.00	31.74	193.11	10,289.38	522.00	-316.05	-511.01	14.71	14.67	-2.16
10,379.57	33.63	193.42	10,300.80	514.86	-317.74	-503.83	13.98	13.93	2.28
10,393.14	35.44	193.67	10,311.98	507.39	-319.54	-496.29	13.38	13.34	1.84
10,406.71	37.12	193.98	10,322.92	499.59	-321.46	-488.43	12.45	12.38	2.28
10,420.29	38.66	194.80	10,333.64	491.51	-323.53	-480.29	11.93	11.34	6.04
10,433.86	38.82	194.34	10,344.22	483.29	-325.67	-472.00	2.43	1.18	-3.39
10,447.43	40.10	193.16	10,354.70	474.92	-327.71	-463.56	10.93	9.43	-8.70
10,461.00	41.72	192.60	10,364.95	466.25	-329.69	-454.84	12.24	11.94	-4.13
10,474.43	43.21	192.46	10,374.86	457.40	-331.66	-445.93	11.12	11.09	-1.04
10,487.86	43.86	191.82	10,384.60	448.36	-333.61	-436.82	5.85	4.84	-4.77
10,501.29	44.75	192.24	10,394.21	439.18	-335.56	-427.59	6.98	6.63	3.13
10,514.71	46.12	191.76	10,403.63	429.83	-337.55	-418.17	10.52	10.21	-3.58
10,528.14	47.39	190.56	10,412.83	420.23	-339.44	-408.52	11.48	9.46	-8.94
10,541.57	48.76	189.66	10,421.80	410.40	-341.19	-398.63	11.35	10.20	-6.70
10,555.00	50.35	189.16	10,430.51	400.31	-342.87	-388.49	12.17	11.84	-3.72
10,568.57	51.58	187.42	10,439.06	389.88	-344.38	-378.02	13.47	9.06	-12.82
10,582.14	53.63	187.19	10,447.30	379.19	-345.75	-367.28	15.17	15.11	-1.69
10,595.71	55.51	187.78	10,455.17	368.23	-347.20	-356.28	14.30	13.85	4.35
10,609.29	56.40	187.05	10,462.77	357.07	-348.65	-345.08	7.92	6.55	-5.38
10,618.91	57.19	186.25	10,468.04	349.08	-349.58	-337.06	10.77	8.24	-8.28
SL: 10618.91' MD, 57.19° Inc									
10,622.86	57.52	185.93	10,470.17	345.77	-349.93	-333.74	10.77	8.28	-8.18
10,636.43	59.30	184.80	10,477.28	334.26	-351.01	-322.20	14.91	13.12	-8.33
10,650.00	61.47	183.72	10,483.98	322.50	-351.89	-310.41	17.42	15.99	-7.96
10,663.57	63.85	182.83	10,490.21	310.46	-352.57	-298.36	18.48	17.54	-6.56



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
10,677.14	66.22	181.82	10,495.94	298.17	-353.07	-286.06	18.72	17.46	-7.44
10,690.71	68.59	180.76	10,501.15	285.65	-353.35	-273.54	18.90	17.46	-7.81
10,704.29	70.69	180.68	10,505.88	272.92	-353.51	-260.81	15.47	15.46	-0.59
10,717.86	72.34	180.98	10,510.18	260.05	-353.70	-247.94	12.34	12.16	2.21
10,729.39	73.95	180.77	10,513.52	249.02	-353.87	-236.91	14.11	14.00	-1.85
FTP: 10729.39' MD, 73.95° Inc									
10,731.43	74.24	180.73	10,514.08	247.06	-353.89	-234.95	14.11	14.00	-1.83
10,745.00	75.65	180.11	10,517.61	233.95	-353.99	-221.85	11.29	10.39	-4.57
10,758.43	75.90	179.69	10,520.91	220.93	-353.97	-208.84	3.56	1.86	-3.13
10,771.86	76.16	179.27	10,524.15	207.90	-353.85	-195.82	3.60	1.94	-3.13
10,785.29	76.27	179.52	10,527.35	194.86	-353.71	-182.79	1.98	0.82	1.86
10,798.71	77.30	179.85	10,530.42	181.80	-353.64	-169.73	8.04	7.68	2.46
10,812.14	79.13	180.40	10,533.16	168.65	-353.67	-156.59	14.20	13.63	4.10
10,825.57	81.24	180.60	10,535.45	155.42	-353.78	-143.37	15.78	15.71	1.49
10,839.00	83.40	181.14	10,537.24	142.11	-353.99	-130.06	16.57	16.08	4.02
10,852.57	85.43	181.06	10,538.56	128.61	-354.24	-116.56	14.97	14.96	-0.59
10,866.14	87.78	181.14	10,539.37	115.06	-354.50	-103.01	17.33	17.32	0.59
10,879.71	89.88	181.82	10,539.65	101.50	-354.86	-89.45	16.27	15.48	5.01
10,893.29	89.89	181.65	10,539.67	87.93	-355.27	-75.87	1.25	0.07	-1.25
10,906.86	89.71	181.37	10,539.72	74.36	-355.62	-62.30	2.45	-1.33	-2.06
10,920.43	89.52	181.10	10,539.81	60.80	-355.92	-48.73	2.43	-1.40	-1.99
10,934.00	89.33	180.88	10,539.95	47.23	-356.15	-35.16	2.14	-1.40	-1.62
10,947.38	89.18	180.74	10,540.12	33.85	-356.34	-21.78	1.53	-1.12	-1.05
10,960.75	89.04	180.65	10,540.33	20.49	-356.50	-8.42	1.24	-1.05	-0.67
10,974.13	88.94	180.61	10,540.56	7.11	-356.65	4.96	0.80	-0.75	-0.30
10,987.50	88.86	180.60	10,540.82	-6.26	-356.79	18.32	0.60	-0.60	-0.07
11,000.88	88.83	180.62	10,541.09	-19.64	-356.93	31.69	0.27	-0.22	0.15
11,014.25	88.86	180.66	10,541.36	-33.00	-357.08	45.06	0.37	0.22	0.30
11,027.63	88.97	180.74	10,541.61	-46.38	-357.25	58.43	1.02	0.82	0.60
11,041.00	89.20	180.86	10,541.83	-59.75	-357.43	71.80	1.94	1.72	0.90
11,054.71	89.63	181.04	10,541.97	-73.45	-357.66	85.50	3.40	3.14	1.31
11,068.43	90.17	181.25	10,541.99	-87.17	-357.93	99.22	4.22	3.94	1.53
11,082.14	90.78	181.49	10,541.88	-100.88	-358.26	112.93	4.78	4.45	1.75
11,095.86	91.41	181.73	10,541.62	-114.59	-358.65	126.65	4.91	4.59	1.75
11,109.57	92.03	181.96	10,541.20	-128.28	-359.09	140.35	4.82	4.52	1.68
11,123.29	92.60	182.18	10,540.65	-141.98	-359.58	154.06	4.45	4.15	1.60
11,137.00	93.08	182.37	10,539.97	-155.67	-360.13	167.75	3.76	3.50	1.39
11,150.71	93.38	182.49	10,539.20	-169.34	-360.71	181.44	2.36	2.19	0.88
11,164.43	93.58	182.58	10,538.37	-183.02	-361.31	195.14	1.60	1.46	0.66
11,178.14	93.70	182.64	10,537.49	-196.69	-361.94	208.82	0.98	0.88	0.44
11,191.86	93.77	182.70	10,536.60	-210.37	-362.57	222.51	0.67	0.51	0.44
11,205.57	93.80	182.76	10,535.70	-224.03	-363.23	236.19	0.49	0.22	0.44
11,219.29	93.80	182.83	10,534.79	-237.71	-363.89	249.87	0.51	0.00	0.51
11,233.00	93.76	182.92	10,533.88	-251.37	-364.58	263.55	0.72	-0.29	0.66



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
11,246.43	93.68	183.05	10,533.01	-264.75	-365.28	276.95	1.13	-0.60	0.97
11,259.86	93.44	182.75	10,532.18	-278.14	-365.95	290.35	2.86	-1.79	-2.23
11,273.29	93.19	182.48	10,531.40	-291.53	-366.57	303.76	2.74	-1.86	-2.01
11,286.71	92.95	182.21	10,530.68	-304.92	-367.11	317.16	2.69	-1.79	-2.01
11,300.14	92.78	182.09	10,530.01	-318.33	-367.62	330.57	1.55	-1.27	-0.89
11,313.57	92.65	181.92	10,529.37	-331.73	-368.09	343.99	1.59	-0.97	-1.27
11,327.00	92.60	181.75	10,528.76	-345.14	-368.52	357.40	1.32	-0.37	-1.27
11,340.57	92.64	181.59	10,528.14	-358.69	-368.91	370.96	1.21	0.29	-1.18
11,354.14	92.65	181.54	10,527.51	-372.24	-369.28	384.52	0.38	0.07	-0.37
11,367.71	92.71	181.60	10,526.88	-385.79	-369.65	398.07	0.62	0.44	0.44
11,381.29	92.79	181.65	10,526.23	-399.35	-370.04	411.63	0.69	0.59	0.37
11,394.86	92.88	181.69	10,525.56	-412.90	-370.43	425.19	0.73	0.66	0.29
11,408.43	93.03	181.84	10,524.86	-426.44	-370.85	438.74	1.56	1.11	1.11
11,422.00	93.21	181.99	10,524.12	-439.99	-371.30	452.29	1.73	1.33	1.11
11,435.57	93.38	182.09	10,523.34	-453.53	-371.79	465.84	1.45	1.25	0.74
11,449.14	93.52	182.17	10,522.52	-467.06	-372.29	479.38	1.19	1.03	0.59
11,462.71	93.65	182.22	10,521.67	-480.59	-372.81	492.93	1.03	0.96	0.37
11,476.29	93.75	182.26	10,520.80	-494.14	-373.34	506.48	0.79	0.74	0.29
11,489.86	93.81	182.28	10,519.90	-507.67	-373.87	520.02	0.47	0.44	0.15
11,503.43	93.81	182.29	10,519.00	-521.20	-374.41	533.56	0.07	0.00	0.07
11,517.00	93.73	182.29	10,518.11	-534.73	-374.95	547.10	0.59	-0.59	0.00
11,530.43	93.52	182.27	10,517.26	-548.12	-375.49	560.50	1.57	-1.56	-0.15
11,543.86	93.23	182.24	10,516.47	-561.51	-376.02	573.91	2.17	-2.16	-0.22
11,557.29	92.66	182.04	10,515.78	-574.92	-376.52	587.32	4.50	-4.24	-1.49
11,570.71	92.23	181.96	10,515.21	-588.32	-376.98	600.73	3.26	-3.20	-0.60
11,584.14	91.81	181.94	10,514.73	-601.73	-377.44	614.15	3.13	-3.13	-0.15
11,597.57	91.20	181.92	10,514.38	-615.15	-377.89	627.57	4.54	-4.54	-0.15
11,611.00	90.62	181.94	10,514.17	-628.57	-378.35	641.00	4.32	-4.32	0.15
11,624.57	90.13	181.99	10,514.08	-642.13	-378.81	654.57	3.63	-3.61	0.37
11,638.14	89.70	182.06	10,514.10	-655.69	-379.29	668.14	3.21	-3.17	0.52
11,651.71	89.32	182.14	10,514.21	-669.25	-379.79	681.71	2.86	-2.80	0.59
11,665.29	88.96	182.23	10,514.42	-682.82	-380.31	695.29	2.73	-2.65	0.66
11,678.86	88.77	182.31	10,514.69	-696.38	-380.84	708.86	1.52	-1.40	0.59
11,692.43	88.88	182.38	10,514.96	-709.93	-381.40	722.42	0.96	0.81	0.52
11,706.00	88.99	182.42	10,515.22	-723.49	-381.97	735.99	0.86	0.81	0.29
11,719.57	89.05	182.43	10,515.45	-737.04	-382.54	749.56	0.45	0.44	0.07
11,733.14	88.98	182.41	10,515.68	-750.60	-383.11	763.13	0.54	-0.52	-0.15
11,746.71	88.89	182.37	10,515.93	-764.16	-383.68	776.69	0.73	-0.66	-0.29
11,760.29	88.81	182.32	10,516.21	-777.72	-384.23	790.27	0.69	-0.59	-0.37
11,773.86	88.75	182.27	10,516.50	-791.28	-384.78	803.84	0.58	-0.44	-0.37
11,787.43	88.69	182.22	10,516.80	-804.83	-385.31	817.40	0.58	-0.44	-0.37
11,801.00	88.63	182.17	10,517.12	-818.39	-385.83	830.97	0.58	-0.44	-0.37
11,814.57	88.61	182.16	10,517.44	-831.95	-386.34	844.54	0.16	-0.15	-0.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
11,828.14	88.60	182.15	10,517.77	-845.50	-386.85	858.10	0.10	-0.07	-0.07
11,841.71	88.54	182.07	10,518.11	-859.06	-387.35	871.67	0.74	-0.44	-0.59
11,855.29	88.49	182.00	10,518.46	-872.63	-387.83	885.24	0.63	-0.37	-0.52
11,868.86	88.44	181.91	10,518.83	-886.18	-388.30	898.81	0.76	-0.37	-0.66
11,882.43	88.54	181.81	10,519.19	-899.74	-388.74	912.37	1.04	0.74	-0.74
11,896.00	88.60	181.70	10,519.52	-913.30	-389.15	925.94	0.92	0.44	-0.81
11,909.57	88.56	181.57	10,519.86	-926.86	-389.54	939.50	1.00	-0.29	-0.96
11,923.14	88.52	181.41	10,520.21	-940.42	-389.89	953.07	1.21	-0.29	-1.18
11,936.71	88.48	181.24	10,520.56	-953.98	-390.20	966.63	1.29	-0.29	-1.25
11,950.29	88.45	181.07	10,520.92	-967.56	-390.48	980.21	1.27	-0.22	-1.25
11,963.86	88.43	180.90	10,521.29	-981.12	-390.71	993.77	1.26	-0.15	-1.25
11,977.43	88.43	180.78	10,521.67	-994.68	-390.91	1,007.33	0.88	0.00	-0.88
11,991.00	88.45	180.75	10,522.04	-1,008.25	-391.09	1,020.90	0.27	0.15	-0.22
12,005.54	88.46	180.71	10,522.43	-1,022.78	-391.28	1,035.43	0.28	0.07	-0.28
12,020.08	88.46	180.66	10,522.82	-1,037.31	-391.45	1,049.96	0.34	0.00	-0.34
12,034.62	88.47	180.60	10,523.21	-1,051.85	-391.61	1,064.49	0.42	0.07	-0.41
12,049.15	88.49	180.55	10,523.59	-1,066.37	-391.76	1,079.01	0.37	0.14	-0.34
12,063.69	88.50	180.52	10,523.97	-1,080.91	-391.89	1,093.54	0.22	0.07	-0.21
12,078.23	88.52	180.50	10,524.35	-1,095.44	-392.02	1,108.07	0.19	0.14	-0.14
12,092.77	88.55	180.48	10,524.72	-1,109.98	-392.15	1,122.60	0.25	0.21	-0.14
12,107.31	88.53	180.64	10,525.10	-1,124.51	-392.29	1,137.13	1.11	-0.14	1.10
12,121.85	88.54	180.74	10,525.47	-1,139.05	-392.46	1,151.66	0.69	0.07	0.69
12,136.38	88.57	180.81	10,525.83	-1,153.57	-392.66	1,166.19	0.52	0.21	0.48
12,150.92	88.59	180.89	10,526.19	-1,168.10	-392.87	1,180.72	0.57	0.14	0.55
12,165.46	88.60	181.00	10,526.55	-1,182.64	-393.11	1,195.25	0.76	0.07	0.76
12,180.00	88.59	181.17	10,526.91	-1,197.17	-393.39	1,209.79	1.17	-0.07	1.17
12,193.57	88.57	181.42	10,527.24	-1,210.73	-393.70	1,223.35	1.85	-0.15	1.84
12,207.14	88.54	181.72	10,527.59	-1,224.29	-394.07	1,236.92	2.22	-0.22	2.21
12,220.71	88.56	182.03	10,527.93	-1,237.85	-394.51	1,250.48	2.29	0.15	2.28
12,234.29	88.57	182.32	10,528.27	-1,251.42	-395.03	1,264.06	2.14	0.07	2.14
12,247.86	88.59	182.58	10,528.60	-1,264.97	-395.61	1,277.62	1.92	0.15	1.92
12,261.43	88.60	182.83	10,528.94	-1,278.52	-396.25	1,291.19	1.84	0.07	1.84
12,275.00	88.62	182.99	10,529.27	-1,292.07	-396.94	1,304.75	1.19	0.15	1.18
12,288.57	88.66	182.91	10,529.59	-1,305.62	-397.63	1,318.32	0.66	0.29	-0.59
12,302.14	88.67	182.71	10,529.91	-1,319.17	-398.30	1,331.88	1.48	0.07	-1.47
12,315.71	88.70	182.43	10,530.22	-1,332.72	-398.91	1,345.45	2.07	0.22	-2.06
12,329.29	88.73	182.12	10,530.52	-1,346.29	-399.45	1,359.02	2.29	0.22	-2.28
12,342.86	88.79	181.81	10,530.81	-1,359.85	-399.91	1,372.59	2.33	0.44	-2.28
12,356.43	88.87	181.51	10,531.09	-1,373.41	-400.30	1,386.16	2.29	0.59	-2.21
12,370.00	88.92	181.29	10,531.35	-1,386.97	-400.64	1,399.72	1.66	0.37	-1.62
12,383.43	88.96	181.16	10,531.60	-1,400.39	-400.92	1,413.15	1.01	0.30	-0.97
12,396.86	88.97	181.10	10,531.84	-1,413.82	-401.19	1,426.58	0.45	0.07	-0.45
12,410.29	88.85	181.20	10,532.10	-1,427.24	-401.46	1,440.00	1.16	-0.89	0.74



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
12,423.71	88.73	181.34	10,532.38	-1,440.66	-401.75	1,453.42	1.37	-0.89	1.04
12,437.14	88.61	181.50	10,532.70	-1,454.08	-402.09	1,466.85	1.49	-0.89	1.19
12,450.57	88.60	181.67	10,533.02	-1,467.50	-402.46	1,480.27	1.27	-0.07	1.27
12,464.00	88.60	181.81	10,533.35	-1,480.92	-402.87	1,493.70	1.04	0.00	1.04
12,477.57	88.55	181.90	10,533.69	-1,494.48	-403.31	1,507.26	0.76	-0.37	0.66
12,491.14	88.48	181.97	10,534.04	-1,508.04	-403.76	1,520.83	0.73	-0.52	0.52
12,504.71	88.53	181.91	10,534.39	-1,521.60	-404.22	1,534.39	0.58	0.37	-0.44
12,518.29	88.58	181.82	10,534.74	-1,535.16	-404.66	1,547.97	0.76	0.37	-0.66
12,531.86	88.63	181.76	10,535.07	-1,548.72	-405.09	1,561.54	0.58	0.37	-0.44
12,545.43	88.65	181.81	10,535.39	-1,562.28	-405.51	1,575.10	0.40	0.15	0.37
12,559.00	88.66	181.84	10,535.71	-1,575.84	-405.94	1,588.67	0.23	0.07	0.22
12,572.57	88.65	181.91	10,536.03	-1,589.40	-406.39	1,602.23	0.52	-0.07	0.52
12,586.14	88.64	182.00	10,536.35	-1,602.96	-406.85	1,615.80	0.67	-0.07	0.66
12,599.71	88.62	182.09	10,536.67	-1,616.52	-407.33	1,629.37	0.68	-0.15	0.66
12,613.29	88.60	182.18	10,537.00	-1,630.08	-407.84	1,642.94	0.68	-0.15	0.66
12,626.86	88.58	182.26	10,537.33	-1,643.64	-408.36	1,656.51	0.61	-0.15	0.59
12,640.43	88.57	182.40	10,537.67	-1,657.19	-408.92	1,670.07	1.03	-0.07	1.03
12,654.00	88.57	182.50	10,538.01	-1,670.75	-409.50	1,683.64	0.74	0.00	0.74
12,667.43	88.58	182.52	10,538.34	-1,684.16	-410.08	1,697.06	0.17	0.07	0.15
12,680.86	88.58	182.49	10,538.68	-1,697.57	-410.67	1,710.49	0.22	0.00	-0.22
12,694.29	88.60	182.43	10,539.01	-1,710.99	-411.25	1,723.91	0.47	0.15	-0.45
12,707.71	88.62	182.34	10,539.33	-1,724.39	-411.81	1,737.33	0.69	0.15	-0.67
12,721.14	88.64	182.23	10,539.65	-1,737.81	-412.34	1,750.76	0.83	0.15	-0.82
12,734.57	88.62	182.08	10,539.98	-1,751.22	-412.85	1,764.18	1.13	-0.15	-1.12
12,748.00	88.55	181.90	10,540.31	-1,764.64	-413.31	1,777.61	1.44	-0.52	-1.34
12,761.57	88.51	181.73	10,540.65	-1,778.20	-413.74	1,791.17	1.29	-0.29	-1.25
12,775.14	88.46	181.56	10,541.01	-1,791.76	-414.13	1,804.74	1.31	-0.37	-1.25
12,788.71	88.47	181.28	10,541.38	-1,805.32	-414.47	1,818.30	2.06	0.07	-2.06
12,802.29	88.49	180.98	10,541.74	-1,818.89	-414.74	1,831.88	2.21	0.15	-2.21
12,815.86	88.50	180.73	10,542.09	-1,832.46	-414.94	1,845.44	1.84	0.07	-1.84
12,829.43	88.52	180.52	10,542.45	-1,846.02	-415.09	1,859.00	1.55	0.15	-1.55
12,843.00	88.53	180.36	10,542.80	-1,859.59	-415.19	1,872.56	1.18	0.07	-1.18
12,856.43	88.52	180.31	10,543.14	-1,873.01	-415.27	1,885.98	0.38	-0.07	-0.37
12,869.86	88.50	180.26	10,543.49	-1,886.44	-415.33	1,899.40	0.40	-0.15	-0.37
12,883.29	88.48	180.26	10,543.84	-1,899.86	-415.40	1,912.82	0.15	-0.15	0.00
12,896.71	88.46	180.26	10,544.20	-1,913.28	-415.46	1,926.23	0.15	-0.15	0.00
12,910.14	88.45	180.27	10,544.57	-1,926.70	-415.52	1,939.65	0.11	-0.07	0.07
12,923.57	88.41	180.47	10,544.93	-1,940.13	-415.61	1,953.07	1.52	-0.30	1.49
12,937.00	88.39	180.61	10,545.31	-1,953.55	-415.73	1,966.49	1.05	-0.15	1.04
12,950.57	88.28	180.59	10,545.70	-1,967.11	-415.87	1,980.05	0.82	-0.81	-0.15
12,964.14	88.17	180.50	10,546.12	-1,980.68	-416.00	1,993.61	1.05	-0.81	-0.66
12,977.71	88.13	180.30	10,546.56	-1,994.24	-416.10	2,007.17	1.50	-0.29	-1.47
12,991.29	88.12	180.06	10,547.01	-2,007.81	-416.14	2,020.74	1.77	-0.07	-1.77
13,004.86	88.11	179.83	10,547.45	-2,021.38	-416.13	2,034.29	1.70	-0.07	-1.69



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
13,018.43	88.07	179.59	10,547.90	-2,034.94	-416.06	2,047.84	1.79	-0.29	-1.77
13,032.00	88.03	179.38	10,548.37	-2,048.50	-415.94	2,061.39	1.57	-0.29	-1.55
13,045.57	88.04	179.28	10,548.83	-2,062.06	-415.78	2,074.94	0.74	0.07	-0.74
13,059.14	88.07	179.26	10,549.29	-2,075.62	-415.61	2,088.49	0.27	0.22	-0.15
13,072.71	88.24	179.20	10,549.73	-2,089.18	-415.42	2,102.04	1.33	1.25	-0.44
13,086.29	88.45	179.14	10,550.12	-2,102.76	-415.23	2,115.59	1.61	1.55	-0.44
13,099.86	88.58	179.18	10,550.47	-2,116.32	-415.03	2,129.14	1.00	0.96	0.29
13,113.43	88.63	179.34	10,550.80	-2,129.89	-414.85	2,142.70	1.23	0.37	1.18
13,127.00	88.69	179.37	10,551.12	-2,143.45	-414.70	2,156.25	0.49	0.44	0.22
13,140.43	88.73	179.29	10,551.42	-2,156.88	-414.54	2,169.66	0.67	0.30	-0.60
13,153.86	88.76	179.20	10,551.72	-2,170.30	-414.37	2,183.07	0.71	0.22	-0.67
13,167.29	88.78	179.11	10,552.00	-2,183.73	-414.17	2,196.48	0.69	0.15	-0.67
13,180.71	88.79	178.99	10,552.29	-2,197.14	-413.95	2,209.88	0.90	0.07	-0.89
13,194.14	88.80	178.82	10,552.57	-2,210.57	-413.69	2,223.29	1.27	0.07	-1.27
13,207.57	88.77	178.68	10,552.86	-2,223.99	-413.40	2,236.70	1.07	-0.22	-1.04
13,221.00	88.69	178.52	10,553.15	-2,237.41	-413.07	2,250.10	1.33	-0.60	-1.19
13,234.57	88.67	178.26	10,553.47	-2,250.97	-412.69	2,263.64	1.92	-0.15	-1.92
13,248.14	88.67	177.96	10,553.78	-2,264.53	-412.24	2,277.18	2.21	0.00	-2.21
13,261.71	88.69	177.87	10,554.09	-2,278.09	-411.75	2,290.71	0.68	0.15	-0.66
13,275.29	88.72	177.81	10,554.40	-2,291.66	-411.23	2,304.25	0.49	0.22	-0.44
13,288.86	88.70	177.66	10,554.71	-2,305.21	-410.70	2,317.78	1.11	-0.15	-1.11
13,302.43	88.68	177.52	10,555.02	-2,318.77	-410.13	2,331.31	1.04	-0.15	-1.03
13,316.00	88.69	177.38	10,555.33	-2,332.32	-409.52	2,344.84	1.03	0.07	-1.03
13,329.43	88.73	177.25	10,555.63	-2,345.73	-408.89	2,358.22	1.01	0.30	-0.97
13,342.86	88.79	177.17	10,555.92	-2,359.14	-408.24	2,371.60	0.74	0.45	-0.60
13,356.29	88.86	177.19	10,556.20	-2,372.55	-407.58	2,384.98	0.54	0.52	0.15
13,369.71	88.92	177.23	10,556.46	-2,385.96	-406.93	2,398.35	0.54	0.45	0.30
13,383.14	88.97	177.37	10,556.70	-2,399.37	-406.29	2,411.74	1.11	0.37	1.04
13,396.57	89.04	177.45	10,556.94	-2,412.78	-405.69	2,425.12	0.79	0.52	0.60
13,410.00	89.12	177.52	10,557.15	-2,426.20	-405.10	2,438.51	0.79	0.60	0.52
13,423.57	89.21	177.59	10,557.35	-2,439.76	-404.52	2,452.04	0.84	0.66	0.52
13,437.14	89.33	177.63	10,557.52	-2,453.31	-403.95	2,465.57	0.93	0.88	0.29
13,450.71	89.50	177.66	10,557.66	-2,466.87	-403.40	2,479.10	1.27	1.25	0.22
13,464.29	89.67	177.70	10,557.76	-2,480.44	-402.85	2,492.64	1.29	1.25	0.29
13,477.86	89.65	178.03	10,557.84	-2,494.00	-402.34	2,506.18	2.44	-0.15	2.43
13,491.43	89.62	178.31	10,557.93	-2,507.56	-401.91	2,519.72	2.08	-0.22	2.06
13,505.00	89.62	178.52	10,558.02	-2,521.13	-401.53	2,533.26	1.55	0.00	1.55
13,518.57	89.63	178.83	10,558.11	-2,534.69	-401.22	2,546.81	2.29	0.07	2.28
13,532.14	89.64	179.24	10,558.19	-2,548.26	-400.99	2,560.36	3.02	0.07	3.02
13,545.71	89.63	179.77	10,558.28	-2,561.83	-400.87	2,573.92	3.91	-0.07	3.91
13,559.29	89.66	180.11	10,558.36	-2,575.41	-400.86	2,587.49	2.51	0.22	2.50
13,572.86	89.75	180.19	10,558.43	-2,588.98	-400.89	2,601.05	0.89	0.66	0.59
13,586.43	89.73	180.45	10,558.49	-2,602.55	-400.97	2,614.62	1.92	-0.15	1.92



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
13,600.00	89.69	180.64	10,558.56	-2,616.12	-401.10	2,628.18	1.43	-0.29	1.40
13,613.43	89.64	180.75	10,558.64	-2,629.55	-401.26	2,641.61	0.90	-0.37	0.82
13,626.86	89.54	180.58	10,558.74	-2,642.98	-401.42	2,655.04	1.47	-0.74	-1.27
13,640.29	89.41	180.11	10,558.86	-2,656.40	-401.50	2,668.46	3.63	-0.97	-3.50
13,653.71	89.27	179.62	10,559.02	-2,669.82	-401.47	2,681.87	3.80	-1.04	-3.65
13,667.14	89.16	179.13	10,559.20	-2,683.25	-401.32	2,695.29	3.74	-0.82	-3.65
13,680.57	89.11	178.55	10,559.40	-2,696.68	-401.05	2,708.70	4.33	-0.37	-4.32
13,694.00	89.08	178.06	10,559.61	-2,710.10	-400.65	2,722.10	3.65	-0.22	-3.65
13,707.57	89.06	177.97	10,559.83	-2,723.66	-400.18	2,735.63	0.68	-0.15	-0.66
13,721.14	89.07	177.98	10,560.06	-2,737.22	-399.70	2,749.17	0.10	0.07	0.07
13,734.71	89.10	178.11	10,560.27	-2,750.78	-399.24	2,762.71	0.98	0.22	0.96
13,748.29	89.15	178.31	10,560.48	-2,764.35	-398.82	2,776.26	1.52	0.37	1.47
13,761.86	89.27	178.51	10,560.67	-2,777.91	-398.44	2,789.80	1.72	0.88	1.47
13,775.43	89.42	178.67	10,560.82	-2,791.48	-398.11	2,803.34	1.62	1.11	1.18
13,789.00	89.58	178.98	10,560.94	-2,805.05	-397.83	2,816.89	2.57	1.18	2.28
13,802.57	89.81	179.32	10,561.01	-2,818.61	-397.63	2,830.45	3.02	1.69	2.51
13,816.14	90.05	179.33	10,561.03	-2,832.18	-397.47	2,844.00	1.77	1.77	0.07
13,829.71	90.29	179.32	10,560.99	-2,845.75	-397.31	2,857.56	1.77	1.77	-0.07
13,843.29	90.54	179.31	10,560.89	-2,859.33	-397.14	2,871.13	1.84	1.84	-0.07
13,856.86	90.76	179.27	10,560.74	-2,872.90	-396.98	2,884.68	1.65	1.62	-0.29
13,870.43	90.94	179.22	10,560.54	-2,886.47	-396.80	2,898.23	1.38	1.33	-0.37
13,884.00	91.05	179.14	10,560.30	-2,900.03	-396.60	2,911.79	1.00	0.81	-0.59
13,897.57	91.04	179.02	10,560.05	-2,913.60	-396.38	2,925.34	0.89	-0.07	-0.88
13,911.14	90.97	178.88	10,559.81	-2,927.16	-396.14	2,938.89	1.15	-0.52	-1.03
13,924.71	90.85	178.73	10,559.60	-2,940.73	-395.85	2,952.43	1.42	-0.88	-1.11
13,938.29	90.71	178.59	10,559.41	-2,954.31	-395.54	2,965.99	1.46	-1.03	-1.03
13,951.86	90.57	178.45	10,559.26	-2,967.87	-395.18	2,979.54	1.46	-1.03	-1.03
13,965.43	90.45	178.34	10,559.14	-2,981.43	-394.80	2,993.08	1.20	-0.88	-0.81
13,979.00	90.36	178.27	10,559.05	-2,995.00	-394.40	3,006.62	0.84	-0.66	-0.52
13,992.43	90.33	178.26	10,558.97	-3,008.42	-394.00	3,020.02	0.24	-0.22	-0.07
14,005.86	90.35	178.28	10,558.89	-3,021.84	-393.59	3,033.43	0.21	0.15	0.15
14,019.29	90.39	178.33	10,558.80	-3,035.27	-393.19	3,046.83	0.48	0.30	0.37
14,032.71	90.44	178.40	10,558.70	-3,048.68	-392.81	3,060.22	0.64	0.37	0.52
14,046.14	90.60	178.49	10,558.58	-3,062.11	-392.45	3,073.63	1.37	1.19	0.67
14,059.57	90.72	178.54	10,558.42	-3,075.53	-392.10	3,087.03	0.97	0.89	0.37
14,073.00	90.74	178.56	10,558.25	-3,088.96	-391.76	3,100.44	0.21	0.15	0.15
14,086.57	90.73	178.55	10,558.08	-3,102.52	-391.42	3,113.98	0.10	-0.07	-0.07
14,100.14	90.70	178.53	10,557.91	-3,116.09	-391.07	3,127.53	0.27	-0.22	-0.15
14,113.71	90.48	178.65	10,557.77	-3,129.65	-390.74	3,141.07	1.85	-1.62	0.88
14,127.29	90.14	178.62	10,557.70	-3,143.23	-390.41	3,154.63	2.51	-2.50	-0.22
14,140.86	89.94	178.68	10,557.69	-3,156.79	-390.09	3,168.18	1.54	-1.47	0.44
14,154.43	89.80	178.89	10,557.72	-3,170.36	-389.81	3,181.73	1.86	-1.03	1.55
14,168.00	89.65	179.06	10,557.78	-3,183.93	-389.56	3,195.28	1.67	-1.11	1.25



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
14,181.57	89.53	179.24	10,557.88	-3,197.50	-389.36	3,208.83	1.59	-0.88	1.33
14,195.14	89.51	179.41	10,557.99	-3,211.06	-389.20	3,222.39	1.26	-0.15	1.25
14,208.71	89.54	179.56	10,558.11	-3,224.63	-389.08	3,235.95	1.13	0.22	1.11
14,222.29	89.57	179.75	10,558.21	-3,238.21	-389.00	3,249.51	1.42	0.22	1.40
14,235.86	89.58	180.09	10,558.31	-3,251.78	-388.98	3,263.08	2.51	0.07	2.51
14,249.43	89.58	180.32	10,558.41	-3,265.35	-389.03	3,276.64	1.69	0.00	1.69
14,263.00	89.56	180.48	10,558.51	-3,278.92	-389.12	3,290.20	1.19	-0.15	1.18
14,276.43	89.53	180.56	10,558.62	-3,292.35	-389.24	3,303.63	0.64	-0.22	0.60
14,289.86	89.49	180.60	10,558.74	-3,305.78	-389.38	3,317.05	0.42	-0.30	0.30
14,303.29	89.50	180.44	10,558.85	-3,319.21	-389.50	3,330.48	1.19	0.07	-1.19
14,316.71	89.51	180.24	10,558.97	-3,332.63	-389.58	3,343.89	1.49	0.07	-1.49
14,330.14	89.56	180.06	10,559.08	-3,346.06	-389.62	3,357.32	1.39	0.37	-1.34
14,343.57	89.59	179.90	10,559.18	-3,359.49	-389.61	3,370.74	1.21	0.22	-1.19
14,357.00	89.55	179.87	10,559.28	-3,372.92	-389.59	3,384.16	0.37	-0.30	-0.22
14,370.57	89.53	179.82	10,559.39	-3,386.49	-389.55	3,397.72	0.40	-0.15	-0.37
14,384.14	89.54	179.77	10,559.50	-3,400.05	-389.50	3,411.28	0.38	0.07	-0.37
14,397.71	89.59	179.67	10,559.60	-3,413.62	-389.43	3,424.84	0.82	0.37	-0.74
14,411.29	89.62	179.57	10,559.70	-3,427.20	-389.34	3,438.41	0.77	0.22	-0.74
14,424.86	89.61	179.45	10,559.79	-3,440.77	-389.23	3,451.97	0.89	-0.07	-0.88
14,438.43	89.62	179.36	10,559.88	-3,454.34	-389.09	3,465.52	0.67	0.07	-0.66
14,452.00	89.65	179.23	10,559.96	-3,467.91	-388.92	3,479.08	0.98	0.22	-0.96
14,465.57	89.73	179.02	10,560.04	-3,481.48	-388.71	3,492.63	1.66	0.59	-1.55
14,479.14	89.69	179.10	10,560.11	-3,495.05	-388.49	3,506.18	0.66	-0.29	0.59
14,492.71	89.65	179.22	10,560.18	-3,508.61	-388.29	3,519.74	0.93	-0.29	0.88
14,506.29	89.60	179.35	10,560.27	-3,522.19	-388.12	3,533.30	1.03	-0.37	0.96
14,519.86	89.56	179.48	10,560.37	-3,535.76	-387.98	3,546.86	1.00	-0.29	0.96
14,533.43	89.53	179.52	10,560.48	-3,549.33	-387.87	3,560.42	0.37	-0.22	0.29
14,547.00	89.50	179.47	10,560.60	-3,562.90	-387.75	3,573.97	0.43	-0.22	-0.37
14,560.43	89.49	179.40	10,560.71	-3,576.33	-387.61	3,587.39	0.53	-0.07	-0.52
14,573.86	89.47	179.38	10,560.84	-3,589.76	-387.47	3,600.81	0.21	-0.15	-0.15
14,587.29	89.48	179.29	10,560.96	-3,603.19	-387.31	3,614.22	0.67	0.07	-0.67
14,600.71	89.51	179.17	10,561.08	-3,616.60	-387.13	3,627.63	0.92	0.22	-0.89
14,614.14	89.62	179.02	10,561.18	-3,630.03	-386.92	3,641.04	1.39	0.82	-1.12
14,627.57	89.67	179.03	10,561.26	-3,643.46	-386.69	3,654.45	0.38	0.37	0.07
14,641.00	89.72	179.12	10,561.33	-3,656.89	-386.48	3,667.87	0.77	0.37	0.67
14,654.57	89.79	178.99	10,561.39	-3,670.46	-386.25	3,681.42	1.09	0.52	-0.96
14,668.14	89.82	178.93	10,561.44	-3,684.02	-386.01	3,694.97	0.49	0.22	-0.44
14,681.71	89.80	178.97	10,561.48	-3,697.59	-385.76	3,708.52	0.33	-0.15	0.29
14,695.29	89.78	179.01	10,561.53	-3,711.17	-385.52	3,722.08	0.33	-0.15	0.29
14,708.86	89.79	178.95	10,561.58	-3,724.74	-385.28	3,735.64	0.45	0.07	-0.44
14,722.43	89.80	178.89	10,561.63	-3,738.31	-385.02	3,749.19	0.45	0.07	-0.44
14,736.00	89.81	179.04	10,561.68	-3,751.87	-384.78	3,762.74	1.11	0.07	1.11
14,749.57	89.82	179.19	10,561.72	-3,765.44	-384.57	3,776.29	1.11	0.07	1.11
14,763.14	89.83	179.32	10,561.76	-3,779.01	-384.39	3,789.85	0.96	0.07	0.96



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
14,776.71	89.73	179.48	10,561.82	-3,792.58	-384.25	3,803.40	1.39	-0.74	1.18
14,790.29	89.59	179.61	10,561.90	-3,806.16	-384.14	3,816.97	1.41	-1.03	0.96
14,803.86	89.61	179.53	10,561.99	-3,819.73	-384.04	3,830.53	0.61	0.15	-0.59
14,817.43	89.63	179.41	10,562.08	-3,833.30	-383.91	3,844.09	0.90	0.15	-0.88
14,831.00	89.48	179.38	10,562.19	-3,846.87	-383.77	3,857.64	1.13	-1.11	-0.22
14,844.57	89.31	179.25	10,562.33	-3,860.43	-383.61	3,871.20	1.58	-1.25	-0.96
14,858.14	89.24	179.03	10,562.50	-3,874.00	-383.40	3,884.75	1.70	-0.52	-1.62
14,871.71	89.21	178.77	10,562.68	-3,887.57	-383.14	3,898.30	1.93	-0.22	-1.92
14,885.29	89.18	178.52	10,562.88	-3,901.14	-382.82	3,911.86	1.85	-0.22	-1.84
14,898.86	89.10	178.27	10,563.08	-3,914.71	-382.44	3,925.40	1.93	-0.59	-1.84
14,912.43	89.02	178.06	10,563.30	-3,928.27	-382.01	3,938.94	1.66	-0.59	-1.55
14,926.00	88.97	177.90	10,563.54	-3,941.83	-381.53	3,952.47	1.24	-0.37	-1.18
14,939.43	88.93	177.89	10,563.79	-3,955.24	-381.04	3,965.87	0.31	-0.30	-0.07
14,952.86	88.91	178.00	10,564.04	-3,968.66	-380.55	3,979.26	0.83	-0.15	0.82
14,966.29	89.01	178.15	10,564.28	-3,982.08	-380.10	3,992.66	1.34	0.74	1.12
14,979.71	89.13	178.34	10,564.50	-3,995.50	-379.69	4,006.05	1.67	0.89	1.42
14,993.14	89.18	178.68	10,564.70	-4,008.92	-379.34	4,019.45	2.56	0.37	2.53
15,006.57	89.20	179.13	10,564.89	-4,022.35	-379.09	4,032.86	3.35	0.15	3.35
15,020.00	89.24	179.52	10,565.07	-4,035.77	-378.93	4,046.28	2.92	0.30	2.90
15,033.57	89.25	179.57	10,565.25	-4,049.34	-378.82	4,059.84	0.38	0.07	0.37
15,047.14	89.33	179.62	10,565.42	-4,062.91	-378.72	4,073.39	0.70	0.59	0.37
15,060.71	89.43	179.66	10,565.57	-4,076.48	-378.64	4,086.95	0.79	0.74	0.29
15,074.29	89.53	179.69	10,565.69	-4,090.06	-378.56	4,100.52	0.77	0.74	0.22
15,087.86	89.63	179.71	10,565.79	-4,103.63	-378.49	4,114.08	0.75	0.74	0.15
15,101.43	89.70	179.75	10,565.87	-4,117.20	-378.43	4,127.64	0.59	0.52	0.29
15,115.00	89.75	179.71	10,565.93	-4,130.77	-378.36	4,141.20	0.47	0.37	-0.29
15,128.57	89.74	179.72	10,565.99	-4,144.34	-378.30	4,154.76	0.10	-0.07	0.07
15,142.14	89.67	179.86	10,566.06	-4,157.91	-378.25	4,168.32	1.15	-0.52	1.03
15,155.71	89.59	180.02	10,566.15	-4,171.48	-378.23	4,181.88	1.32	-0.59	1.18
15,169.29	89.49	180.18	10,566.26	-4,185.06	-378.26	4,195.45	1.39	-0.74	1.18
15,182.86	89.41	180.32	10,566.39	-4,198.63	-378.31	4,209.02	1.19	-0.59	1.03
15,196.43	89.36	180.25	10,566.54	-4,212.19	-378.38	4,222.58	0.63	-0.37	-0.52
15,210.00	89.36	180.17	10,566.69	-4,225.76	-378.43	4,236.14	0.59	0.00	-0.59
15,223.43	89.41	180.25	10,566.83	-4,239.19	-378.48	4,249.57	0.70	0.37	0.60
15,236.86	89.49	180.48	10,566.96	-4,252.62	-378.57	4,262.99	1.81	0.60	1.71
15,250.29	89.55	180.69	10,567.07	-4,266.05	-378.70	4,276.42	1.63	0.45	1.56
15,263.71	89.59	180.89	10,567.17	-4,279.47	-378.89	4,289.83	1.52	0.30	1.49
15,277.14	89.64	181.07	10,567.26	-4,292.90	-379.12	4,303.26	1.39	0.37	1.34
15,290.57	89.71	181.18	10,567.34	-4,306.32	-379.38	4,316.69	0.97	0.52	0.82
15,304.00	89.75	181.25	10,567.40	-4,319.75	-379.67	4,330.12	0.60	0.30	0.52
15,317.57	89.73	181.24	10,567.46	-4,333.32	-379.96	4,343.69	0.16	-0.15	-0.07
15,331.14	89.67	181.19	10,567.54	-4,346.88	-380.25	4,357.26	0.58	-0.44	-0.37
15,344.71	89.59	181.04	10,567.62	-4,360.45	-380.51	4,370.82	1.25	-0.59	-1.11



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
15,358.29	89.49	180.84	10,567.73	-4,374.03	-380.74	4,384.40	1.65	-0.74	-1.47
15,371.86	89.40	180.66	10,567.86	-4,387.60	-380.91	4,397.97	1.48	-0.66	-1.33
15,385.43	89.35	180.51	10,568.01	-4,401.17	-381.05	4,411.53	1.17	-0.37	-1.11
15,399.00	89.30	180.42	10,568.17	-4,414.73	-381.16	4,425.10	0.76	-0.37	-0.66
15,412.57	89.23	180.48	10,568.35	-4,428.30	-381.27	4,438.66	0.68	-0.52	0.44
15,426.14	89.17	180.60	10,568.54	-4,441.87	-381.40	4,452.23	0.99	-0.44	0.88
15,439.71	89.21	180.75	10,568.73	-4,455.44	-381.56	4,465.79	1.14	0.29	1.11
15,453.29	89.29	180.93	10,568.90	-4,469.02	-381.76	4,479.37	1.45	0.59	1.33
15,466.86	89.36	180.96	10,569.06	-4,482.58	-381.98	4,492.94	0.56	0.52	0.22
15,480.43	89.43	180.88	10,569.21	-4,496.15	-382.20	4,506.50	0.78	0.52	-0.59
15,494.00	89.48	180.80	10,569.34	-4,509.72	-382.40	4,520.07	0.70	0.37	-0.59
15,507.43	89.41	180.82	10,569.47	-4,523.15	-382.59	4,533.50	0.54	-0.52	0.15
15,520.86	89.34	180.78	10,569.61	-4,536.57	-382.77	4,546.92	0.60	-0.52	-0.30
15,534.29	89.41	180.78	10,569.76	-4,550.00	-382.96	4,560.35	0.52	0.52	0.00
15,547.71	89.47	180.76	10,569.89	-4,563.42	-383.14	4,573.77	0.47	0.45	-0.15
15,561.14	89.49	180.71	10,570.01	-4,576.85	-383.31	4,587.19	0.40	0.15	-0.37
15,574.57	89.51	180.54	10,570.13	-4,590.28	-383.46	4,600.62	1.27	0.15	-1.27
15,588.00	89.50	180.39	10,570.25	-4,603.71	-383.57	4,614.04	1.12	-0.07	-1.12
15,601.43	89.54	180.18	10,570.36	-4,617.14	-383.63	4,627.47	1.59	0.30	-1.56
15,614.86	89.60	179.93	10,570.46	-4,630.57	-383.64	4,640.89	1.91	0.45	-1.86
15,628.29	89.66	179.70	10,570.55	-4,644.00	-383.60	4,654.31	1.77	0.45	-1.71
15,641.71	89.70	179.48	10,570.62	-4,657.41	-383.51	4,667.72	1.67	0.30	-1.64
15,655.14	89.71	179.32	10,570.69	-4,670.84	-383.36	4,681.14	1.19	0.07	-1.19
15,668.57	89.68	179.23	10,570.76	-4,684.27	-383.19	4,694.55	0.71	-0.22	-0.67
15,682.00	89.65	179.19	10,570.84	-4,697.70	-383.01	4,707.97	0.37	-0.22	-0.30
15,695.57	89.62	179.22	10,570.93	-4,711.27	-382.82	4,721.52	0.31	-0.22	0.22
15,709.14	89.59	179.28	10,571.02	-4,724.84	-382.64	4,735.07	0.49	-0.22	0.44
15,722.71	89.57	179.36	10,571.12	-4,738.41	-382.48	4,748.63	0.61	-0.15	0.59
15,736.29	89.54	179.45	10,571.23	-4,751.99	-382.34	4,762.20	0.70	-0.22	0.66
15,749.86	89.53	179.54	10,571.34	-4,765.55	-382.22	4,775.75	0.67	-0.07	0.66
15,763.43	89.49	179.68	10,571.45	-4,779.12	-382.13	4,789.31	1.07	-0.29	1.03
15,777.00	89.47	179.79	10,571.57	-4,792.69	-382.07	4,802.87	0.82	-0.15	0.81
15,790.57	89.46	179.88	10,571.70	-4,806.26	-382.03	4,816.43	0.67	-0.07	0.66
15,804.14	89.44	179.95	10,571.83	-4,819.83	-382.01	4,829.99	0.54	-0.15	0.52
15,817.71	89.53	179.92	10,571.95	-4,833.40	-381.99	4,843.55	0.70	0.66	-0.22
15,831.29	89.64	179.85	10,572.05	-4,846.98	-381.97	4,857.12	0.96	0.81	-0.52
15,844.86	89.73	179.82	10,572.13	-4,860.55	-381.93	4,870.69	0.70	0.66	-0.22
15,858.43	89.75	179.81	10,572.19	-4,874.12	-381.88	4,884.25	0.16	0.15	-0.07
15,872.00	89.76	179.71	10,572.25	-4,887.69	-381.83	4,897.81	0.74	0.07	-0.74
15,885.43	89.75	179.48	10,572.30	-4,901.12	-381.73	4,911.22	1.71	-0.07	-1.71
15,898.86	89.73	179.25	10,572.36	-4,914.55	-381.58	4,924.64	1.72	-0.15	-1.71
15,912.29	89.69	179.06	10,572.43	-4,927.98	-381.38	4,938.06	1.45	-0.30	-1.41
15,916.77	89.68	179.00	10,572.46	-4,932.46	-381.31	4,942.53	1.37	-0.30	-1.34

SL: 15916.77' MD



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
15,925.71	89.65	178.88	10,572.51	-4,941.39	-381.14	4,951.46	1.37	-0.30	-1.34
15,939.14	89.61	178.68	10,572.60	-4,954.82	-380.86	4,964.87	1.52	-0.30	-1.49
15,952.57	89.53	178.54	10,572.70	-4,968.25	-380.53	4,978.27	1.20	-0.60	-1.04
15,966.00	89.45	178.43	10,572.82	-4,981.67	-380.18	4,991.68	1.01	-0.60	-0.82
15,979.57	89.37	178.18	10,572.96	-4,995.24	-379.77	5,005.22	1.93	-0.59	-1.84
15,993.14	89.27	177.94	10,573.12	-5,008.80	-379.31	5,018.76	1.92	-0.74	-1.77
16,006.71	89.21	177.92	10,573.30	-5,022.36	-378.82	5,032.29	0.47	-0.44	-0.15
16,020.29	89.17	178.00	10,573.49	-5,035.93	-378.34	5,045.84	0.66	-0.29	0.59
16,033.86	89.14	178.11	10,573.69	-5,049.49	-377.88	5,059.38	0.84	-0.22	0.81
16,047.43	89.14	178.24	10,573.89	-5,063.05	-377.45	5,072.92	0.96	0.00	0.96
16,061.00	89.15	178.38	10,574.10	-5,076.61	-377.05	5,086.46	1.03	0.07	1.03
16,074.57	89.23	178.40	10,574.29	-5,090.17	-376.67	5,100.00	0.61	0.59	0.15
16,088.14	89.37	178.36	10,574.45	-5,103.74	-376.28	5,113.54	1.07	1.03	-0.29
16,101.71	89.47	178.51	10,574.59	-5,117.30	-375.91	5,127.09	1.33	0.74	1.11
16,115.29	89.58	178.66	10,574.70	-5,130.88	-375.58	5,140.64	1.37	0.81	1.10
16,128.86	89.65	178.83	10,574.79	-5,144.44	-375.28	5,154.19	1.35	0.52	1.25
16,142.43	89.68	178.96	10,574.87	-5,158.01	-375.02	5,167.74	0.98	0.22	0.96
16,156.00	89.69	179.11	10,574.95	-5,171.58	-374.79	5,181.30	1.11	0.07	1.11
16,169.57	89.69	179.25	10,575.02	-5,185.15	-374.60	5,194.85	1.03	0.00	1.03
16,183.14	89.68	179.41	10,575.10	-5,198.72	-374.44	5,208.40	1.18	-0.07	1.18
16,196.71	89.67	179.53	10,575.17	-5,212.29	-374.31	5,221.96	0.89	-0.07	0.88
16,210.29	89.65	179.64	10,575.25	-5,225.87	-374.21	5,235.53	0.82	-0.15	0.81
16,223.86	89.64	179.71	10,575.34	-5,239.43	-374.14	5,249.09	0.52	-0.07	0.52
16,237.43	89.64	179.65	10,575.42	-5,253.00	-374.06	5,262.65	0.44	0.00	-0.44
16,251.00	89.65	179.56	10,575.51	-5,266.57	-373.97	5,276.21	0.67	0.07	-0.66
16,264.43	89.72	179.38	10,575.58	-5,280.00	-373.84	5,289.62	1.44	0.52	-1.34
16,277.86	89.79	179.17	10,575.64	-5,293.43	-373.67	5,303.04	1.65	0.52	-1.56
16,291.29	89.81	179.21	10,575.69	-5,306.86	-373.48	5,316.45	0.33	0.15	0.30
16,304.71	89.82	179.26	10,575.73	-5,320.28	-373.30	5,329.86	0.38	0.07	0.37
16,318.14	89.84	179.27	10,575.77	-5,333.71	-373.13	5,343.27	0.17	0.15	0.07
16,331.57	89.94	179.23	10,575.79	-5,347.14	-372.96	5,356.69	0.80	0.74	-0.30
16,345.00	90.03	179.18	10,575.80	-5,360.57	-372.77	5,370.10	0.77	0.67	-0.37
16,358.57	90.02	179.19	10,575.79	-5,374.13	-372.58	5,383.66	0.10	-0.07	0.07
16,372.14	89.99	179.21	10,575.79	-5,387.70	-372.39	5,397.21	0.27	-0.22	0.15
16,385.71	89.83	179.26	10,575.81	-5,401.27	-372.21	5,410.77	1.24	-1.18	0.37
16,399.29	89.63	179.34	10,575.88	-5,414.85	-372.04	5,424.33	1.59	-1.47	0.59
16,412.86	89.46	179.40	10,575.98	-5,428.42	-371.89	5,437.89	1.33	-1.25	0.44
16,426.43	89.51	179.30	10,576.11	-5,441.99	-371.74	5,451.45	0.82	0.37	-0.74
16,440.00	89.50	179.25	10,576.22	-5,455.56	-371.57	5,465.00	0.38	-0.07	-0.37
16,453.57	89.42	179.33	10,576.35	-5,469.12	-371.40	5,478.56	0.83	-0.59	0.59
16,467.14	89.31	179.46	10,576.50	-5,482.69	-371.25	5,492.11	1.25	-0.81	0.96
16,480.71	89.26	179.57	10,576.67	-5,496.26	-371.14	5,505.67	0.89	-0.37	0.81
16,494.29	89.25	179.68	10,576.85	-5,509.84	-371.05	5,519.24	0.81	-0.07	0.81



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
16,507.86	89.26	179.79	10,577.02	-5,523.41	-370.99	5,532.79	0.81	0.07	0.81
16,521.43	89.30	179.92	10,577.19	-5,536.98	-370.95	5,546.35	1.00	0.29	0.96
16,535.00	89.41	180.05	10,577.35	-5,550.55	-370.95	5,559.92	1.25	0.81	0.96
16,548.57	89.44	180.17	10,577.48	-5,564.12	-370.98	5,573.48	0.91	0.22	0.88
16,562.14	89.56	180.25	10,577.60	-5,577.69	-371.03	5,587.04	1.06	0.88	0.59
16,575.71	89.93	180.14	10,577.66	-5,591.25	-371.07	5,600.60	2.84	2.73	-0.81
16,589.29	90.30	180.04	10,577.63	-5,604.83	-371.09	5,614.18	2.82	2.72	-0.74
16,602.86	90.56	179.97	10,577.53	-5,618.40	-371.09	5,627.74	1.98	1.92	-0.52
16,616.43	90.57	179.92	10,577.40	-5,631.97	-371.08	5,641.30	0.38	0.07	-0.37
16,630.00	90.52	179.88	10,577.27	-5,645.54	-371.06	5,654.86	0.47	-0.37	-0.29
16,643.43	90.36	179.83	10,577.17	-5,658.97	-371.02	5,668.28	1.25	-1.19	-0.37
16,656.86	90.13	179.78	10,577.11	-5,672.40	-370.98	5,681.70	1.75	-1.71	-0.37
16,670.29	89.89	179.69	10,577.11	-5,685.83	-370.92	5,695.12	1.91	-1.79	-0.67
16,683.71	89.63	179.60	10,577.16	-5,699.25	-370.83	5,708.53	2.05	-1.94	-0.67
16,697.14	89.51	179.68	10,577.26	-5,712.68	-370.75	5,721.95	1.07	-0.89	0.60
16,710.57	89.42	179.76	10,577.39	-5,726.11	-370.68	5,735.37	0.90	-0.67	0.60
16,724.00	89.38	179.63	10,577.53	-5,739.54	-370.61	5,748.79	1.01	-0.30	-0.97
16,737.57	89.38	179.44	10,577.68	-5,753.11	-370.50	5,762.35	1.40	0.00	-1.40
16,751.14	89.48	179.06	10,577.81	-5,766.68	-370.32	5,775.90	2.90	0.74	-2.80
16,764.71	89.49	179.12	10,577.93	-5,780.24	-370.11	5,789.45	0.45	0.07	0.44
16,778.29	89.51	179.23	10,578.05	-5,793.82	-369.91	5,803.02	0.82	0.15	0.81
16,791.86	89.46	179.32	10,578.17	-5,807.39	-369.74	5,816.57	0.76	-0.37	0.66
16,805.43	89.28	179.36	10,578.32	-5,820.96	-369.58	5,830.13	1.36	-1.33	0.29
16,819.00	89.16	179.36	10,578.51	-5,834.53	-369.43	5,843.68	0.88	-0.88	0.00
16,832.57	89.18	179.16	10,578.71	-5,848.09	-369.26	5,857.24	1.48	0.15	-1.47
16,846.14	89.27	179.10	10,578.89	-5,861.66	-369.05	5,870.79	0.80	0.66	-0.44
16,859.71	89.44	179.04	10,579.04	-5,875.23	-368.83	5,884.34	1.33	1.25	-0.44
16,873.29	89.60	178.99	10,579.16	-5,888.81	-368.60	5,897.90	1.23	1.18	-0.37
16,886.86	89.63	179.10	10,579.25	-5,902.37	-368.37	5,911.45	0.84	0.22	0.81
16,900.43	89.52	179.32	10,579.35	-5,915.94	-368.18	5,925.01	1.81	-0.81	1.62
16,914.00	89.47	179.25	10,579.47	-5,929.51	-368.01	5,938.56	0.63	-0.37	-0.52
16,927.43	89.43	178.94	10,579.60	-5,942.94	-367.80	5,951.98	2.33	-0.30	-2.31
16,940.86	89.29	178.77	10,579.75	-5,956.37	-367.53	5,965.39	1.64	-1.04	-1.27
16,954.29	89.24	178.36	10,579.92	-5,969.79	-367.20	5,978.79	3.08	-0.37	-3.05
16,967.71	89.21	177.90	10,580.10	-5,983.20	-366.76	5,992.18	3.43	-0.22	-3.43
16,981.14	89.14	177.74	10,580.29	-5,996.62	-366.25	6,005.58	1.30	-0.52	-1.19
16,994.57	89.08	177.65	10,580.50	-6,010.04	-365.71	6,018.97	0.81	-0.45	-0.67
17,008.00	89.17	177.34	10,580.71	-6,023.45	-365.12	6,032.36	2.40	0.67	-2.31
17,021.57	89.34	177.32	10,580.88	-6,037.01	-364.49	6,045.88	1.26	1.25	-0.15
17,035.14	89.59	177.58	10,581.01	-6,050.56	-363.89	6,059.41	2.66	1.84	1.92
17,048.71	89.87	177.92	10,581.07	-6,064.12	-363.35	6,072.94	3.25	2.06	2.51
17,062.29	90.15	178.29	10,581.07	-6,077.70	-362.90	6,086.49	3.42	2.06	2.72
17,075.86	90.01	178.83	10,581.05	-6,091.26	-362.56	6,100.04	4.11	-1.03	3.98



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
17,089.43	89.68	179.40	10,581.09	-6,104.83	-362.35	6,113.59	4.85	-2.43	4.20
17,103.00	89.30	179.66	10,581.21	-6,118.40	-362.24	6,127.15	3.39	-2.80	1.92
17,116.57	88.88	179.64	10,581.43	-6,131.97	-362.16	6,140.71	3.10	-3.10	-0.15
17,130.14	88.77	179.49	10,581.70	-6,145.53	-362.06	6,154.26	1.37	-0.81	-1.11
17,143.71	88.72	179.30	10,582.00	-6,159.10	-361.91	6,167.81	1.45	-0.37	-1.40
17,157.29	88.68	179.12	10,582.31	-6,172.67	-361.73	6,181.38	1.36	-0.29	-1.33
17,170.86	88.71	178.86	10,582.62	-6,186.24	-361.49	6,194.92	1.93	0.22	-1.92
17,184.43	88.65	178.88	10,582.93	-6,199.80	-361.22	6,208.47	0.47	-0.44	0.15
17,198.00	88.66	179.03	10,583.25	-6,213.37	-360.97	6,222.02	1.11	0.07	1.11
17,211.57	88.94	178.99	10,583.53	-6,226.93	-360.74	6,235.57	2.08	2.06	-0.29
17,225.14	89.27	178.91	10,583.75	-6,240.50	-360.49	6,249.12	2.50	2.43	-0.59
17,238.71	89.75	178.57	10,583.86	-6,254.06	-360.19	6,262.67	4.33	3.54	-2.51
17,252.29	90.23	178.25	10,583.86	-6,267.64	-359.81	6,276.22	4.25	3.53	-2.36
17,265.86	90.76	177.96	10,583.75	-6,281.20	-359.37	6,289.76	4.45	3.91	-2.14
17,279.43	91.24	177.69	10,583.51	-6,294.76	-358.85	6,303.29	4.06	3.54	-1.99
17,293.00	91.33	177.87	10,583.21	-6,308.31	-358.33	6,316.82	1.48	0.66	1.33
17,306.43	91.22	178.10	10,582.91	-6,321.73	-357.85	6,330.22	1.90	-0.82	1.71
17,319.86	90.94	178.46	10,582.65	-6,335.15	-357.45	6,343.62	3.40	-2.08	2.68
17,333.29	90.66	178.56	10,582.47	-6,348.58	-357.10	6,357.02	2.21	-2.08	0.74
17,346.71	90.35	178.64	10,582.35	-6,361.99	-356.77	6,370.42	2.39	-2.31	0.60
17,360.14	89.98	178.80	10,582.31	-6,375.42	-356.47	6,383.83	3.00	-2.76	1.19
17,373.57	89.56	179.02	10,582.36	-6,388.85	-356.22	6,397.24	3.53	-3.13	1.64
17,387.00	89.43	179.17	10,582.48	-6,402.28	-356.01	6,410.65	1.48	-0.97	1.12
17,400.57	89.37	179.24	10,582.62	-6,415.84	-355.82	6,424.21	0.68	-0.44	0.52
17,414.14	89.34	179.11	10,582.78	-6,429.41	-355.62	6,437.76	0.98	-0.22	-0.96
17,427.71	89.31	178.98	10,582.94	-6,442.98	-355.40	6,451.31	0.98	-0.22	-0.96
17,441.29	89.30	178.86	10,583.10	-6,456.56	-355.14	6,464.87	0.89	-0.07	-0.88
17,454.86	89.30	178.75	10,583.27	-6,470.12	-354.86	6,478.42	0.81	0.00	-0.81
17,468.43	89.31	178.66	10,583.43	-6,483.69	-354.55	6,491.97	0.67	0.07	-0.66
17,482.00	89.32	178.59	10,583.59	-6,497.25	-354.22	6,505.51	0.52	0.07	-0.52
17,495.43	89.34	178.58	10,583.75	-6,510.68	-353.89	6,518.92	0.17	0.15	-0.07
17,508.86	89.36	178.59	10,583.90	-6,524.10	-353.56	6,532.33	0.17	0.15	0.07
17,522.29	89.44	178.56	10,584.04	-6,537.53	-353.23	6,545.73	0.64	0.60	-0.22
17,535.71	89.54	178.51	10,584.16	-6,550.94	-352.88	6,559.13	0.83	0.75	-0.37
17,549.14	89.52	178.54	10,584.27	-6,564.37	-352.54	6,572.53	0.27	-0.15	0.22
17,562.57	89.48	178.58	10,584.39	-6,577.79	-352.20	6,585.94	0.42	-0.30	0.30
17,576.00	89.51	178.70	10,584.51	-6,591.22	-351.88	6,599.35	0.92	0.22	0.89
17,589.57	89.57	178.77	10,584.62	-6,604.78	-351.58	6,612.90	0.68	0.44	0.52
17,603.14	89.64	178.80	10,584.71	-6,618.35	-351.29	6,626.45	0.56	0.52	0.22
17,616.71	89.69	178.67	10,584.79	-6,631.92	-351.00	6,639.99	1.03	0.37	-0.96
17,630.29	89.69	178.55	10,584.86	-6,645.49	-350.67	6,653.55	0.88	0.00	-0.88
17,643.86	89.65	178.42	10,584.94	-6,659.06	-350.31	6,667.10	1.00	-0.29	-0.96
17,657.43	89.54	178.32	10,585.04	-6,672.62	-349.92	6,680.64	1.10	-0.81	-0.74
17,671.00	89.33	178.26	10,585.17	-6,686.19	-349.52	6,694.18	1.61	-1.55	-0.44



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
17,684.43	88.97	178.25	10,585.37	-6,699.61	-349.11	6,707.58	2.68	-2.68	-0.07
17,697.86	88.52	178.27	10,585.66	-6,713.03	-348.70	6,720.98	3.35	-3.35	0.15
17,711.29	88.02	178.32	10,586.07	-6,726.45	-348.30	6,734.38	3.74	-3.72	0.37
17,724.71	87.51	178.37	10,586.59	-6,739.85	-347.91	6,747.76	3.82	-3.80	0.37
17,738.14	87.02	178.42	10,587.23	-6,753.26	-347.54	6,761.15	3.67	-3.65	0.37
17,751.57	86.60	178.45	10,587.98	-6,766.66	-347.17	6,774.53	3.14	-3.13	0.22
17,765.00	86.28	178.46	10,588.82	-6,780.06	-346.81	6,787.91	2.38	-2.38	0.07
17,778.57	86.31	178.29	10,589.69	-6,793.60	-346.43	6,801.43	1.27	0.22	-1.25
17,792.14	86.59	178.08	10,590.53	-6,807.14	-346.00	6,814.94	2.58	2.06	-1.55
17,805.71	86.96	177.93	10,591.30	-6,820.68	-345.52	6,828.46	2.94	2.73	-1.11
17,819.29	87.36	177.78	10,591.97	-6,834.23	-345.02	6,841.99	3.15	2.95	-1.10
17,832.86	87.76	177.70	10,592.55	-6,847.78	-344.48	6,855.51	3.01	2.95	-0.59
17,846.43	88.12	177.68	10,593.03	-6,861.33	-343.94	6,869.03	2.66	2.65	-0.15
17,860.00	88.39	177.72	10,593.45	-6,874.88	-343.39	6,882.56	2.01	1.99	0.29
17,873.43	88.51	177.77	10,593.81	-6,888.30	-342.86	6,895.95	0.97	0.89	0.37
17,886.86	88.51	177.77	10,594.16	-6,901.71	-342.34	6,909.34	0.00	0.00	0.00
17,900.29	88.53	177.96	10,594.51	-6,915.13	-341.84	6,922.73	1.42	0.15	1.41
17,913.71	88.56	178.21	10,594.85	-6,928.54	-341.39	6,936.12	1.88	0.22	1.86
17,927.14	88.56	178.39	10,595.19	-6,941.96	-340.99	6,949.52	1.34	0.00	1.34
17,940.57	88.53	178.50	10,595.53	-6,955.38	-340.63	6,962.92	0.85	-0.22	0.82
17,954.00	88.54	178.57	10,595.87	-6,968.80	-340.29	6,976.32	0.53	0.07	0.52
17,967.57	88.70	178.60	10,596.20	-6,982.36	-339.95	6,989.86	1.20	1.18	0.22
17,981.14	88.84	178.66	10,596.49	-6,995.92	-339.63	7,003.41	1.12	1.03	0.44
17,994.71	89.21	178.52	10,596.72	-7,009.49	-339.29	7,016.95	2.92	2.73	-1.03
18,008.29	89.60	178.36	10,596.86	-7,023.06	-338.92	7,030.50	3.10	2.87	-1.18
18,021.86	90.00	178.12	10,596.91	-7,036.62	-338.51	7,044.05	3.44	2.95	-1.77
18,035.43	90.23	178.26	10,596.88	-7,050.19	-338.08	7,057.59	1.98	1.69	1.03
18,049.00	90.46	178.43	10,596.80	-7,063.75	-337.69	7,071.13	2.11	1.69	1.25
18,062.57	90.64	178.58	10,596.67	-7,077.32	-337.33	7,084.67	1.73	1.33	1.11
18,076.14	90.79	178.83	10,596.50	-7,090.88	-337.03	7,098.22	2.15	1.11	1.84
18,089.71	90.91	179.09	10,596.30	-7,104.45	-336.78	7,111.77	2.11	0.88	1.92
18,103.29	91.01	179.34	10,596.07	-7,118.02	-336.59	7,125.34	1.98	0.74	1.84
18,116.86	91.08	179.56	10,595.82	-7,131.59	-336.46	7,138.89	1.70	0.52	1.62
18,130.43	90.91	179.40	10,595.59	-7,145.16	-336.34	7,152.45	1.72	-1.25	-1.18
18,144.00	90.73	179.24	10,595.39	-7,158.73	-336.18	7,166.00	1.77	-1.33	-1.18
18,157.43	90.78	179.01	10,595.22	-7,172.15	-335.97	7,179.41	1.75	0.37	-1.71
18,170.86	90.87	178.79	10,595.02	-7,185.58	-335.72	7,192.82	1.77	0.67	-1.64
18,184.29	90.87	178.57	10,594.82	-7,199.00	-335.41	7,206.23	1.64	0.00	-1.64
18,197.71	90.86	178.36	10,594.62	-7,212.42	-335.05	7,219.62	1.57	-0.07	-1.56
18,211.14	90.80	178.34	10,594.42	-7,225.84	-334.66	7,233.03	0.47	-0.45	-0.15
18,224.57	90.74	178.44	10,594.24	-7,239.26	-334.28	7,246.43	0.87	-0.45	0.74
18,238.00	90.78	178.41	10,594.06	-7,252.69	-333.91	7,259.83	0.37	0.30	-0.22
18,251.57	90.88	178.40	10,593.87	-7,266.25	-333.54	7,273.37	0.74	0.74	-0.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
18,265.14	91.00	178.48	10,593.64	-7,279.81	-333.17	7,286.92	1.06	0.88	0.59
18,278.71	91.03	178.75	10,593.40	-7,293.38	-332.84	7,300.46	2.00	0.22	1.99
18,292.29	91.09	178.97	10,593.15	-7,306.95	-332.57	7,314.02	1.68	0.44	1.62
18,305.86	91.13	179.19	10,592.89	-7,320.52	-332.35	7,327.57	1.65	0.29	1.62
18,319.43	91.16	179.40	10,592.62	-7,334.09	-332.18	7,341.12	1.56	0.22	1.55
18,333.00	91.15	179.58	10,592.34	-7,347.65	-332.06	7,354.68	1.33	-0.07	1.33
18,346.57	91.09	179.69	10,592.08	-7,361.22	-331.98	7,368.24	0.92	-0.44	0.81
18,360.14	90.86	179.89	10,591.85	-7,374.79	-331.93	7,381.79	2.25	-1.69	1.47
18,373.71	90.78	179.85	10,591.65	-7,388.36	-331.90	7,395.35	0.66	-0.59	-0.29
18,387.29	90.73	179.75	10,591.47	-7,401.93	-331.85	7,408.92	0.82	-0.37	-0.74
18,400.86	90.67	179.78	10,591.31	-7,415.50	-331.79	7,422.48	0.49	-0.44	0.22
18,414.43	90.62	179.89	10,591.16	-7,429.07	-331.75	7,436.04	0.89	-0.37	0.81
18,428.00	90.52	180.02	10,591.02	-7,442.64	-331.74	7,449.60	1.21	-0.74	0.96
18,441.57	90.54	180.00	10,590.90	-7,456.21	-331.75	7,463.17	0.21	0.15	-0.15
18,455.14	90.58	179.95	10,590.76	-7,469.78	-331.74	7,476.73	0.47	0.29	-0.37
18,468.71	90.62	179.92	10,590.62	-7,483.35	-331.73	7,490.29	0.37	0.29	-0.22
18,482.29	90.67	179.91	10,590.47	-7,496.93	-331.70	7,503.86	0.38	0.37	-0.07
18,495.86	90.70	180.05	10,590.31	-7,510.50	-331.70	7,517.42	1.06	0.22	1.03
18,509.43	90.80	180.01	10,590.13	-7,524.07	-331.71	7,530.98	0.79	0.74	-0.29
18,523.00	90.90	180.02	10,589.93	-7,537.64	-331.71	7,544.54	0.74	0.74	0.07
18,536.43	90.99	180.06	10,589.71	-7,551.06	-331.72	7,557.96	0.73	0.67	0.30
18,549.86	90.96	180.41	10,589.48	-7,564.49	-331.78	7,571.38	2.62	-0.22	2.61
18,563.29	90.86	180.68	10,589.26	-7,577.92	-331.90	7,584.81	2.14	-0.74	2.01
18,576.71	90.82	180.77	10,589.07	-7,591.34	-332.07	7,598.22	0.73	-0.30	0.67
18,590.14	90.82	180.84	10,588.87	-7,604.76	-332.26	7,611.65	0.52	0.00	0.52
18,603.57	90.76	180.92	10,588.69	-7,618.19	-332.47	7,625.08	0.74	-0.45	0.60
18,617.00	90.62	181.01	10,588.53	-7,631.62	-332.69	7,638.50	1.24	-1.04	0.67
18,630.57	90.36	181.05	10,588.41	-7,645.19	-332.94	7,652.07	1.94	-1.92	0.29
18,644.14	90.09	180.88	10,588.36	-7,658.75	-333.17	7,665.64	2.35	-1.99	-1.25
18,657.71	89.81	180.78	10,588.37	-7,672.32	-333.36	7,679.21	2.19	-2.06	-0.74
18,671.29	89.55	180.70	10,588.45	-7,685.90	-333.54	7,692.78	2.00	-1.91	-0.59
18,684.86	89.34	180.72	10,588.58	-7,699.47	-333.71	7,706.35	1.55	-1.55	0.15
18,698.43	89.29	180.54	10,588.74	-7,713.04	-333.86	7,719.92	1.38	-0.37	-1.33
18,712.00	89.29	180.38	10,588.91	-7,726.61	-333.96	7,733.48	1.18	0.00	-1.18
18,725.57	89.34	180.24	10,589.07	-7,740.17	-334.04	7,747.04	1.10	0.37	-1.03
18,739.14	89.41	180.17	10,589.22	-7,753.74	-334.09	7,760.61	0.73	0.52	-0.52
18,752.71	89.49	180.13	10,589.35	-7,767.31	-334.12	7,774.17	0.66	0.59	-0.29
18,766.29	89.57	180.11	10,589.46	-7,780.89	-334.15	7,787.74	0.61	0.59	-0.15
18,779.86	89.59	180.29	10,589.56	-7,794.46	-334.20	7,801.31	1.33	0.15	1.33
18,793.43	89.58	180.45	10,589.66	-7,808.03	-334.29	7,814.87	1.18	-0.07	1.18
18,807.00	89.50	180.63	10,589.77	-7,821.60	-334.41	7,828.44	1.45	-0.59	1.33
18,820.57	89.36	180.63	10,589.90	-7,835.17	-334.56	7,842.00	1.03	-1.03	0.00
18,834.14	89.21	180.49	10,590.07	-7,848.74	-334.70	7,855.57	1.51	-1.11	-1.03



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
18,847.71	88.95	180.43	10,590.29	-7,862.31	-334.80	7,869.13	1.97	-1.92	-0.44
18,861.29	88.69	180.36	10,590.57	-7,875.88	-334.90	7,882.70	1.98	-1.91	-0.52
18,874.86	88.52	180.09	10,590.90	-7,889.45	-334.95	7,896.26	2.35	-1.25	-1.99
18,888.43	88.41	179.76	10,591.26	-7,903.01	-334.93	7,909.82	2.56	-0.81	-2.43
18,902.00	88.37	179.49	10,591.64	-7,916.58	-334.84	7,923.37	2.01	-0.29	-1.99
18,915.43	88.38	179.27	10,592.02	-7,930.00	-334.70	7,936.78	1.64	0.07	-1.64
18,928.86	88.44	179.03	10,592.40	-7,943.42	-334.50	7,950.19	1.84	0.45	-1.79
18,942.29	88.56	178.83	10,592.75	-7,956.85	-334.25	7,963.60	1.74	0.89	-1.49
18,955.71	88.72	178.65	10,593.07	-7,970.26	-333.95	7,976.99	1.79	1.19	-1.34
18,969.14	88.83	178.70	10,593.35	-7,983.68	-333.64	7,990.40	0.90	0.82	0.37
18,982.57	88.93	178.84	10,593.62	-7,997.11	-333.36	8,003.81	1.28	0.74	1.04
18,996.00	89.01	178.71	10,593.86	-8,010.53	-333.07	8,017.21	1.14	0.60	-0.97
19,009.57	89.04	178.67	10,594.09	-8,024.10	-332.76	8,030.76	0.37	0.22	-0.29
19,023.14	88.99	178.75	10,594.32	-8,037.66	-332.45	8,044.31	0.70	-0.37	0.59
19,036.71	88.95	178.81	10,594.57	-8,051.23	-332.16	8,057.85	0.53	-0.29	0.44
19,050.29	88.89	178.88	10,594.82	-8,064.80	-331.89	8,071.41	0.68	-0.44	0.52
19,063.86	88.84	178.96	10,595.09	-8,078.37	-331.63	8,084.96	0.70	-0.37	0.59
19,077.43	88.77	179.10	10,595.37	-8,091.93	-331.40	8,098.51	1.15	-0.52	1.03
19,091.00	88.73	179.22	10,595.67	-8,105.50	-331.21	8,112.06	0.93	-0.29	0.88
19,104.57	88.78	179.25	10,595.97	-8,119.06	-331.02	8,125.61	0.43	0.37	0.22
19,118.14	88.74	179.56	10,596.26	-8,132.63	-330.88	8,139.17	2.30	-0.29	2.28
19,131.71	88.68	179.72	10,596.56	-8,146.19	-330.80	8,152.72	1.26	-0.44	1.18
19,145.29	88.61	179.81	10,596.89	-8,159.77	-330.74	8,166.29	0.84	-0.52	0.66
19,158.86	88.69	179.97	10,597.21	-8,173.34	-330.72	8,179.85	1.32	0.59	1.18
19,172.43	88.80	180.17	10,597.50	-8,186.90	-330.73	8,193.41	1.68	0.81	1.47
19,186.00	88.79	180.25	10,597.79	-8,200.47	-330.78	8,206.97	0.59	-0.07	0.59
19,199.57	88.78	180.26	10,598.08	-8,214.04	-330.84	8,220.53	0.10	-0.07	0.07
19,213.14	88.79	180.25	10,598.36	-8,227.60	-330.90	8,234.09	0.10	0.07	-0.07
19,226.71	88.81	180.22	10,598.65	-8,241.17	-330.96	8,247.65	0.27	0.15	-0.22
19,240.29	88.83	180.20	10,598.93	-8,254.75	-331.01	8,261.22	0.21	0.15	-0.15
19,253.86	89.00	180.07	10,599.18	-8,268.32	-331.04	8,274.78	1.58	1.25	-0.96
19,267.43	89.05	180.05	10,599.41	-8,281.88	-331.06	8,288.34	0.40	0.37	-0.15
19,281.00	89.16	180.10	10,599.63	-8,295.45	-331.07	8,301.90	0.89	0.81	0.37
19,294.43	89.39	180.26	10,599.80	-8,308.88	-331.12	8,315.33	2.09	1.71	1.19
19,307.86	89.60	180.35	10,599.92	-8,322.31	-331.19	8,328.75	1.70	1.56	0.67
19,321.29	89.81	180.43	10,599.98	-8,335.74	-331.28	8,342.17	1.67	1.56	0.60
19,334.71	89.84	180.68	10,600.03	-8,349.16	-331.41	8,355.59	1.88	0.22	1.86
19,348.14	89.84	180.84	10,600.06	-8,362.59	-331.59	8,369.02	1.19	0.00	1.19
19,361.57	89.91	180.96	10,600.09	-8,376.02	-331.80	8,382.45	1.03	0.52	0.89
19,375.00	89.93	181.05	10,600.11	-8,389.44	-332.03	8,395.87	0.69	0.15	0.67
19,388.57	89.91	181.06	10,600.13	-8,403.01	-332.28	8,409.44	0.16	-0.15	0.07
19,402.14	89.81	180.96	10,600.16	-8,416.58	-332.52	8,423.01	1.04	-0.74	-0.74
19,415.71	89.74	180.58	10,600.22	-8,430.15	-332.70	8,436.58	2.85	-0.52	-2.80
19,429.29	89.66	180.17	10,600.29	-8,443.73	-332.79	8,450.15	3.08	-0.59	-3.02



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
19,442.86	89.55	179.89	10,600.38	-8,457.30	-332.80	8,463.71	2.22	-0.81	-2.06
19,456.43	89.54	179.64	10,600.49	-8,470.87	-332.74	8,477.27	1.84	-0.07	-1.84
19,470.00	89.58	179.48	10,600.59	-8,484.44	-332.64	8,490.83	1.22	0.29	-1.18
19,483.57	89.61	179.44	10,600.69	-8,498.00	-332.51	8,504.39	0.37	0.22	-0.29
19,497.14	89.63	179.40	10,600.78	-8,511.57	-332.38	8,517.95	0.33	0.15	-0.29
19,510.71	89.62	179.40	10,600.87	-8,525.14	-332.23	8,531.50	0.07	-0.07	0.00
19,524.29	89.60	179.49	10,600.96	-8,538.72	-332.10	8,545.07	0.68	-0.15	0.66
19,537.86	89.59	179.71	10,601.06	-8,552.29	-332.01	8,558.63	1.62	-0.07	1.62
19,551.43	89.52	179.88	10,601.16	-8,565.86	-331.96	8,572.19	1.35	-0.52	1.25
19,565.00	89.46	180.03	10,601.28	-8,579.43	-331.95	8,585.75	1.19	-0.44	1.11
19,578.57	89.47	180.37	10,601.41	-8,593.00	-332.00	8,599.31	2.51	0.07	2.51
19,592.14	89.45	180.52	10,601.54	-8,606.57	-332.10	8,612.88	1.12	-0.15	1.11
19,605.71	89.43	180.62	10,601.67	-8,620.14	-332.24	8,626.44	0.75	-0.15	0.74
19,619.29	89.40	180.68	10,601.81	-8,633.72	-332.39	8,640.02	0.49	-0.22	0.44
19,632.86	89.42	180.67	10,601.95	-8,647.28	-332.55	8,653.58	0.16	0.15	-0.07
19,646.43	89.49	180.60	10,602.08	-8,660.85	-332.70	8,667.15	0.73	0.52	-0.52
19,660.00	89.54	180.54	10,602.19	-8,674.42	-332.83	8,680.72	0.58	0.37	-0.44
19,673.43	89.52	180.56	10,602.30	-8,687.85	-332.96	8,694.14	0.21	-0.15	0.15
19,686.86	89.50	180.56	10,602.42	-8,701.28	-333.10	8,707.57	0.15	-0.15	0.00
19,700.29	89.54	180.48	10,602.53	-8,714.71	-333.22	8,720.99	0.67	0.30	-0.60
19,713.71	89.57	180.38	10,602.63	-8,728.13	-333.32	8,734.41	0.78	0.22	-0.75
19,727.14	89.57	180.34	10,602.73	-8,741.56	-333.40	8,747.83	0.30	0.00	-0.30
19,740.57	89.57	180.30	10,602.84	-8,754.99	-333.48	8,761.26	0.30	0.00	-0.30
19,754.00	89.64	180.49	10,602.93	-8,768.42	-333.57	8,774.68	1.51	0.52	1.41
19,767.57	89.71	180.72	10,603.00	-8,781.98	-333.71	8,788.25	1.77	0.52	1.69
19,781.14	89.73	180.92	10,603.07	-8,795.55	-333.91	8,801.81	1.48	0.15	1.47
19,794.71	89.68	181.02	10,603.14	-8,809.12	-334.14	8,815.38	0.82	-0.37	0.74
19,808.29	89.62	181.12	10,603.22	-8,822.70	-334.39	8,828.96	0.86	-0.44	0.74
19,821.86	89.59	181.19	10,603.32	-8,836.27	-334.66	8,842.53	0.56	-0.22	0.52
19,835.43	89.58	181.23	10,603.42	-8,849.83	-334.95	8,856.10	0.30	-0.07	0.29
19,849.00	89.55	181.23	10,603.52	-8,863.40	-335.24	8,869.67	0.22	-0.22	0.00
19,862.57	89.56	181.18	10,603.62	-8,876.96	-335.53	8,883.23	0.38	0.07	-0.37
19,876.14	89.63	181.13	10,603.72	-8,890.53	-335.80	8,896.80	0.63	0.52	-0.37
19,889.71	89.64	181.03	10,603.81	-8,904.10	-336.06	8,910.37	0.74	0.07	-0.74
19,903.29	89.65	180.92	10,603.89	-8,917.68	-336.29	8,923.95	0.81	0.07	-0.81
19,916.86	89.63	180.89	10,603.98	-8,931.24	-336.50	8,937.52	0.27	-0.15	-0.22
19,930.43	89.59	180.88	10,604.07	-8,944.81	-336.71	8,951.08	0.30	-0.29	-0.07
19,944.00	89.63	180.73	10,604.16	-8,958.38	-336.90	8,964.65	1.14	0.29	-1.11
19,957.43	89.69	180.54	10,604.24	-8,971.81	-337.05	8,978.08	1.48	0.45	-1.41
19,970.86	89.71	180.45	10,604.31	-8,985.24	-337.17	8,991.50	0.69	0.15	-0.67
19,984.29	89.73	180.42	10,604.38	-8,998.67	-337.27	9,004.93	0.27	0.15	-0.22
19,997.71	89.75	180.39	10,604.44	-9,012.09	-337.36	9,018.34	0.27	0.15	-0.22
20,011.14	89.86	180.22	10,604.48	-9,025.52	-337.44	9,031.77	1.51	0.82	-1.27



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
20,024.57	89.85	180.22	10,604.52	-9,038.95	-337.49	9,045.19	0.07	-0.07	0.00
20,038.00	89.97	180.01	10,604.54	-9,052.38	-337.51	9,058.61	1.80	0.89	-1.56
20,051.57	89.94	179.96	10,604.55	-9,065.95	-337.51	9,072.18	0.43	-0.22	-0.37
20,065.14	90.00	180.07	10,604.56	-9,079.52	-337.51	9,085.74	0.92	0.44	0.81
20,078.71	89.92	180.12	10,604.57	-9,093.09	-337.54	9,099.30	0.70	-0.59	0.37
20,092.29	89.84	180.17	10,604.59	-9,106.67	-337.57	9,112.87	0.69	-0.59	0.37
20,105.86	89.77	180.14	10,604.64	-9,120.24	-337.61	9,126.44	0.56	-0.52	-0.22
20,119.43	89.74	180.10	10,604.70	-9,133.81	-337.64	9,140.00	0.37	-0.22	-0.29
20,133.00	89.74	180.07	10,604.76	-9,147.38	-337.66	9,153.56	0.22	0.00	-0.22
20,146.57	89.76	180.07	10,604.82	-9,160.95	-337.67	9,167.13	0.15	0.15	0.00
20,160.14	89.82	179.97	10,604.87	-9,174.52	-337.68	9,180.69	0.86	0.44	-0.74
20,173.71	89.86	179.88	10,604.91	-9,188.09	-337.66	9,194.25	0.73	0.29	-0.66
20,187.29	89.87	179.85	10,604.94	-9,201.67	-337.63	9,207.82	0.23	0.07	-0.22
20,200.86	89.87	180.16	10,604.97	-9,215.24	-337.63	9,221.38	2.28	0.00	2.28
20,214.43	89.78	180.43	10,605.01	-9,228.81	-337.70	9,234.95	2.10	-0.66	1.99
20,228.00	89.70	180.64	10,605.07	-9,242.38	-337.83	9,248.51	1.66	-0.59	1.55
20,241.57	89.71	180.89	10,605.14	-9,255.94	-338.01	9,262.08	1.84	0.07	1.84
20,255.14	89.78	180.89	10,605.20	-9,269.51	-338.22	9,275.65	0.52	0.52	0.00
20,268.71	89.77	181.01	10,605.26	-9,283.08	-338.44	9,289.22	0.89	-0.07	0.88
20,282.29	89.78	180.98	10,605.31	-9,296.66	-338.68	9,302.79	0.23	0.07	-0.22
20,295.86	89.80	180.86	10,605.36	-9,310.23	-338.90	9,316.36	0.90	0.15	-0.88
20,309.43	89.78	180.86	10,605.41	-9,323.80	-339.10	9,329.93	0.15	-0.15	0.00
20,323.00	89.77	180.83	10,605.46	-9,337.36	-339.30	9,343.50	0.23	-0.07	-0.22
20,336.57	89.76	180.75	10,605.52	-9,350.93	-339.49	9,357.06	0.59	-0.07	-0.59
20,350.14	89.77	180.55	10,605.57	-9,364.50	-339.64	9,370.63	1.48	0.07	-1.47
20,363.71	89.78	180.36	10,605.63	-9,378.07	-339.75	9,384.20	1.40	0.07	-1.40
20,377.29	89.76	180.23	10,605.68	-9,391.65	-339.82	9,397.77	0.97	-0.15	-0.96
20,390.86	89.73	180.20	10,605.74	-9,405.22	-339.87	9,411.33	0.31	-0.22	-0.22
20,404.43	89.74	180.22	10,605.80	-9,418.79	-339.92	9,424.90	0.16	0.07	0.15
20,418.00	89.87	180.06	10,605.85	-9,432.36	-339.95	9,438.46	1.52	0.96	-1.18
20,431.43	90.01	179.96	10,605.86	-9,445.79	-339.95	9,451.88	1.28	1.04	-0.74
20,444.86	90.06	180.07	10,605.86	-9,459.22	-339.96	9,465.31	0.90	0.37	0.82
20,458.29	90.00	180.39	10,605.85	-9,472.65	-340.01	9,478.73	2.42	-0.45	2.38
20,471.71	89.94	180.62	10,605.86	-9,486.07	-340.13	9,492.15	1.77	-0.45	1.71
20,485.14	89.87	180.78	10,605.88	-9,499.50	-340.29	9,505.57	1.30	-0.52	1.19
20,498.57	89.79	180.90	10,605.92	-9,512.93	-340.49	9,519.00	1.07	-0.60	0.89
20,512.00	89.67	180.93	10,605.98	-9,526.35	-340.71	9,532.43	0.92	-0.89	0.22
20,525.57	89.50	180.81	10,606.08	-9,539.92	-340.91	9,546.00	1.53	-1.25	-0.88
20,539.14	89.31	180.61	10,606.22	-9,553.49	-341.08	9,559.56	2.03	-1.40	-1.47
20,552.71	89.11	180.37	10,606.41	-9,567.06	-341.20	9,573.13	2.30	-1.47	-1.77
20,566.29	88.90	180.12	10,606.64	-9,580.64	-341.25	9,586.70	2.40	-1.55	-1.84
20,579.86	88.70	179.88	10,606.93	-9,594.20	-341.25	9,600.26	2.30	-1.47	-1.77
20,593.43	88.76	179.64	10,607.23	-9,607.77	-341.20	9,613.81	1.82	0.44	-1.77



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

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)
20,607.00	88.86	179.50	10,607.51	-9,621.34	-341.10	9,627.37	1.27	0.74	-1.03
20,620.57	88.95	179.34	10,607.77	-9,634.90	-340.96	9,640.92	1.35	0.66	-1.18
20,634.14	89.10	179.30	10,608.00	-9,648.47	-340.80	9,654.48	1.14	1.11	-0.29
20,647.71	89.30	179.34	10,608.19	-9,662.04	-340.64	9,668.03	1.50	1.47	0.29
20,661.29	89.52	179.45	10,608.33	-9,675.62	-340.49	9,681.60	1.81	1.62	0.81
20,674.86	89.67	179.92	10,608.43	-9,689.19	-340.42	9,695.16	3.64	1.11	3.46
20,688.43	89.88	180.10	10,608.48	-9,702.76	-340.42	9,708.72	2.04	1.55	1.33
20,702.00	90.01	180.28	10,608.49	-9,716.33	-340.47	9,722.28	1.64	0.96	1.33
20,715.43	90.04	180.56	10,608.49	-9,729.76	-340.56	9,735.71	2.10	0.22	2.08
20,728.86	90.01	180.60	10,608.48	-9,743.19	-340.70	9,749.13	0.37	-0.22	0.30
20,742.29	89.97	180.69	10,608.48	-9,756.61	-340.85	9,762.56	0.73	-0.30	0.67
20,755.71	89.94	180.72	10,608.49	-9,770.03	-341.02	9,775.98	0.32	-0.22	0.22
20,769.14	89.93	180.72	10,608.51	-9,783.46	-341.18	9,789.40	0.07	-0.07	0.00
20,782.57	89.92	180.71	10,608.53	-9,796.89	-341.35	9,802.83	0.11	-0.07	-0.07
20,796.00	89.96	180.71	10,608.54	-9,810.32	-341.52	9,816.26	0.30	0.30	0.00
20,809.57	90.05	180.72	10,608.54	-9,823.89	-341.69	9,829.83	0.67	0.66	0.07
20,823.14	90.07	180.76	10,608.52	-9,837.46	-341.86	9,843.39	0.33	0.15	0.29
20,836.71	89.95	180.73	10,608.52	-9,851.03	-342.04	9,856.96	0.91	-0.88	-0.22
20,850.29	89.88	180.70	10,608.54	-9,864.61	-342.21	9,870.54	0.56	-0.52	-0.22
20,863.86	90.16	180.64	10,608.54	-9,878.18	-342.37	9,884.10	2.11	2.06	-0.44
20,877.43	90.28	180.76	10,608.49	-9,891.74	-342.53	9,897.67	1.25	0.88	0.88
20,891.00	90.28	181.00	10,608.42	-9,905.31	-342.74	9,911.24	1.77	0.00	1.77
20,905.44	90.25	181.04	10,608.35	-9,919.75	-343.00	9,925.68	0.35	-0.21	0.28
20,919.89	90.21	181.00	10,608.29	-9,934.20	-343.26	9,940.12	0.39	-0.28	-0.28
20,934.33	89.99	181.11	10,608.27	-9,948.64	-343.52	9,954.56	1.70	-1.52	0.76
20,948.78	89.81	181.18	10,608.29	-9,963.08	-343.81	9,969.01	1.34	-1.25	0.48
20,963.22	89.76	181.17	10,608.35	-9,977.52	-344.11	9,983.45	0.35	-0.35	-0.07
20,977.67	89.71	181.26	10,608.42	-9,991.97	-344.41	9,997.90	0.71	-0.35	0.62
20,992.11	89.66	181.41	10,608.49	-10,006.40	-344.75	10,012.34	1.09	-0.35	1.04
21,006.56	89.56	181.53	10,608.59	-10,020.85	-345.12	10,026.79	1.08	-0.69	0.83
21,021.00	89.46	181.67	10,608.72	-10,035.28	-345.52	10,041.22	1.19	-0.69	0.97
Final Phoenix MWD Survey									
21,099.83	89.46	181.67	10,609.46	-10,114.07	-347.82	10,120.05	0.00	0.00	0.00
LTP: 21099.83' MD									
21,142.00	89.46	181.67	10,609.86	-10,156.22	-349.05	10,162.22	0.00	0.00	0.00
Projection to TD									



Phoenix
Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 22H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3643.70usft (Citadel 2)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3643.70usft (Citadel 2)
Well:	Lost Tank 30-19 Federal Com 22H	North Reference:	Grid
Wellbore:	OH / 74693	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 2)	Database:	USAEDMDB

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
145.00	145.00	-0.26	0.11	First Phoenix MWD Survey
10,618.91	10,468.04	349.08	-349.58	SL: 10618.91' MD, 57.19° Inc
10,729.39	10,513.52	249.02	-353.87	FTP: 10729.39' MD, 73.95° Inc
15,916.77	10,572.46	-4,932.46	-381.31	SL: 15916.77' MD
21,021.00	10,608.72	-10,035.28	-345.52	Final Phoenix MWD Survey
21,099.83	10,609.46	-10,114.07	-347.82	LTP: 21099.83' MD
21,142.00	10,609.86	-10,156.22	-349.05	Projection to TD

C-105 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: OXY USA INC	OGRID: 16696
Property Name and Well Number: LOST TANK 30-19 FEDERAL COM 22H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-47543
Pool Name: Bilbrey Basin; Bone Spring, South	Pool Code: 97366

Section 2 – Well Location

	UI or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	C	19	22S	32E		353	N	2049	W	LEA
BHL	N	30	22S	32E		58	S	1636	W	LEA

Section 3 – Completion Information

Date T.D. Reached 06/16/24	Total Measured Depth of Well 21142'MD	Acid Volume (bbls)	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 06/19/24	Plug-Back Measured Depth 21097'MD	Completion Fluid Used (bbls) 361253	Were Logs Ran (Y/N) Y
Completion Date 07/18/24	Perforations (MD and TVD) 10785'-21017'MD/10527'-10609'TVD	Completion Proppant Used (lbs) 25649705#	List Type of Logs Ran if applicable: CBL

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 374350	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374350	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID: NA	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 374350	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 394742	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID: NA	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 07/22/24	Production Method Gas lift	Well Status Producing	Gas – Oil Ratio 516
Date of Test 08/06/24	Choke Size	Flowing Tubing Pressure	Casing Pressure 1079
24 hr Oil (bbls) 1227	24 hr Gas (MCF) 633	24 hr Water (bbls) 3086	Oil Gravity - API
Disposition of Gas: sold			

Section 6 – Pits

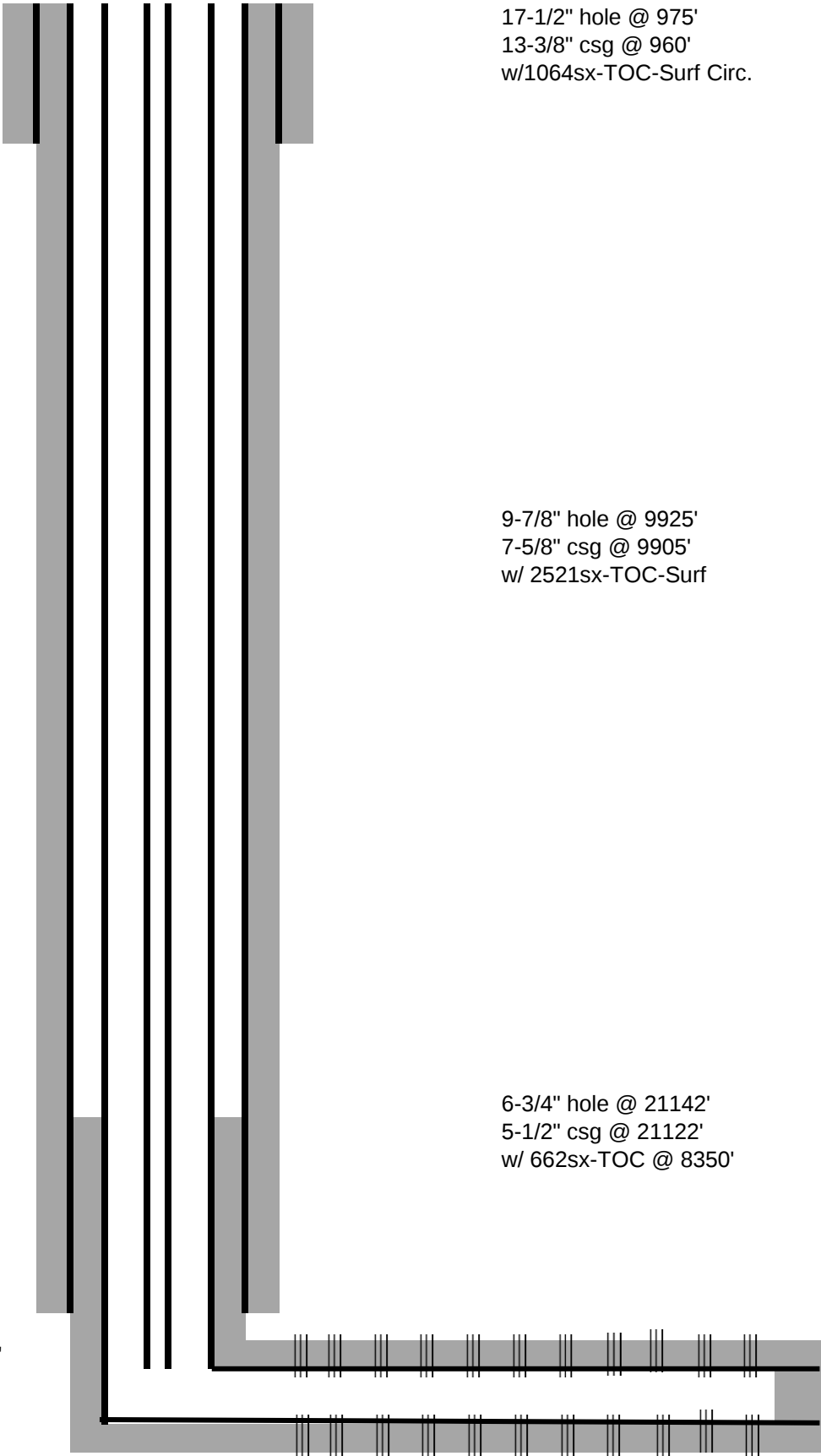
☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial: LAT: _____ LONG: _____

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s 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.	
Name Jana Mendiola	<i>Jana Mendiola</i>
Title Regulatory Advisor	Date 10/22/24

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy	851	851	W	T. San Jose			
T. Salt	1143	1143		T. Nacimiento			
B. Salt	3180	3179		T. Ojo Alamo			
T. Yates				T. Kirtland			
T. 7 Rivers				T. Fruitland			
T. Queen				T. Pictured Cliffs			
T. Grayburg				T. Lewis Shale			
T. San Andres				T. Chacra			
T. Glorieta				T. Cliff House			
T. Yeso				T. Menefee			
T. Paddock				T. Point Lookout			
T. Blinebry				T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime	4630	4628	o/g				
T. Bell Canyon	4667	4665	o/g				
T. Cherry Canyon	5529	5527	o/g				
T. Brushy Canyon	6735	6716	o/g				
T. Bone Springs	8549	8491	o/g				
T. 1st BS Sand	9573	9509	o/g				
T. 2nd BS Carbonate	10297	10227	o/g				
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

OXY USA Inc.
Lost Tank 30-19 Federal Com 22H
API No. 30-025-47543



17-1/2" hole @ 975'
13-3/8" csg @ 960'
w/1064sx-TOC-Surf Circ.

9-7/8" hole @ 9925'
7-5/8" csg @ 9905'
w/ 2521sx-TOC-Surf

6-3/4" hole @ 21142'
5-1/2" csg @ 21122'
w/ 662sx-TOC @ 8350'

2-3/8" tbg & gas lift @ 10488'

Perfs @ 10785-21017' TD- 21142'M 10610'V

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 394784

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 394784
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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.

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

CONDITIONS

Action 394784

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 394784
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-5 Completion Sundry within 10 days of BLM approval.	12/4/2024
plmartinez	File 3160-4 Completion Report within 10 days of BLM approval.	12/4/2024