

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 32H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-47944
Pool Name: WC-025 G-09 S223219D; WOLFCAMP	Pool Code: 98296

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	19	22S	32E	1	128 FNL	1335 FWL	32.383911°	-103.718624°	LEA

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Gas lift	07/20/24	12162'-22023'MD	11787'-11898'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: 374370	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374370	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: NA	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 374370	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 10/24/24

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 30-025-47944	Pool Code 98296	Pool Name WC-025 G-09 S223219D; WOLFCAMP
Property Code 322423	Property Name LOST TANK 30-19 FED COM	Well Number 32H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3615.0'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL 1	Section 19	Township 22S	Range 32E	Lot	Ft. from N/S 128 NORTH	Ft. from E/W 1335 WEST	Latitude (NAD 83) 32.383911°	Longitude (NAD 83) -103.718624°	County LEA
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Bottom Hole Location

UL 4	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 27 SOUTH	Ft. from E/W 1310 WEST	Latitude (NAD 83) 32.355298°	Longitude (NAD 83) -103.718688°	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 4	Section 18	Township 22S	Range 32E	Lot	Ft. from N/S 141 SOUTH	Ft. from E/W 1249 WEST	Latitude (NAD 83) 32.384649°	Longitude (NAD 83) -103.718904°	County LEA
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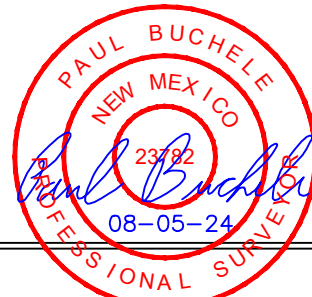
First Take Point (FTP)

UL 1	Section 19	Township 22S	Range 32E	Lot	Ft. from N/S 539 NORTH	Ft. from E/W 1344 WEST	Latitude (NAD 83) 32.382782°	Longitude (NAD 83) -103.718597°	County LEA
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Last Take Point (LTP)

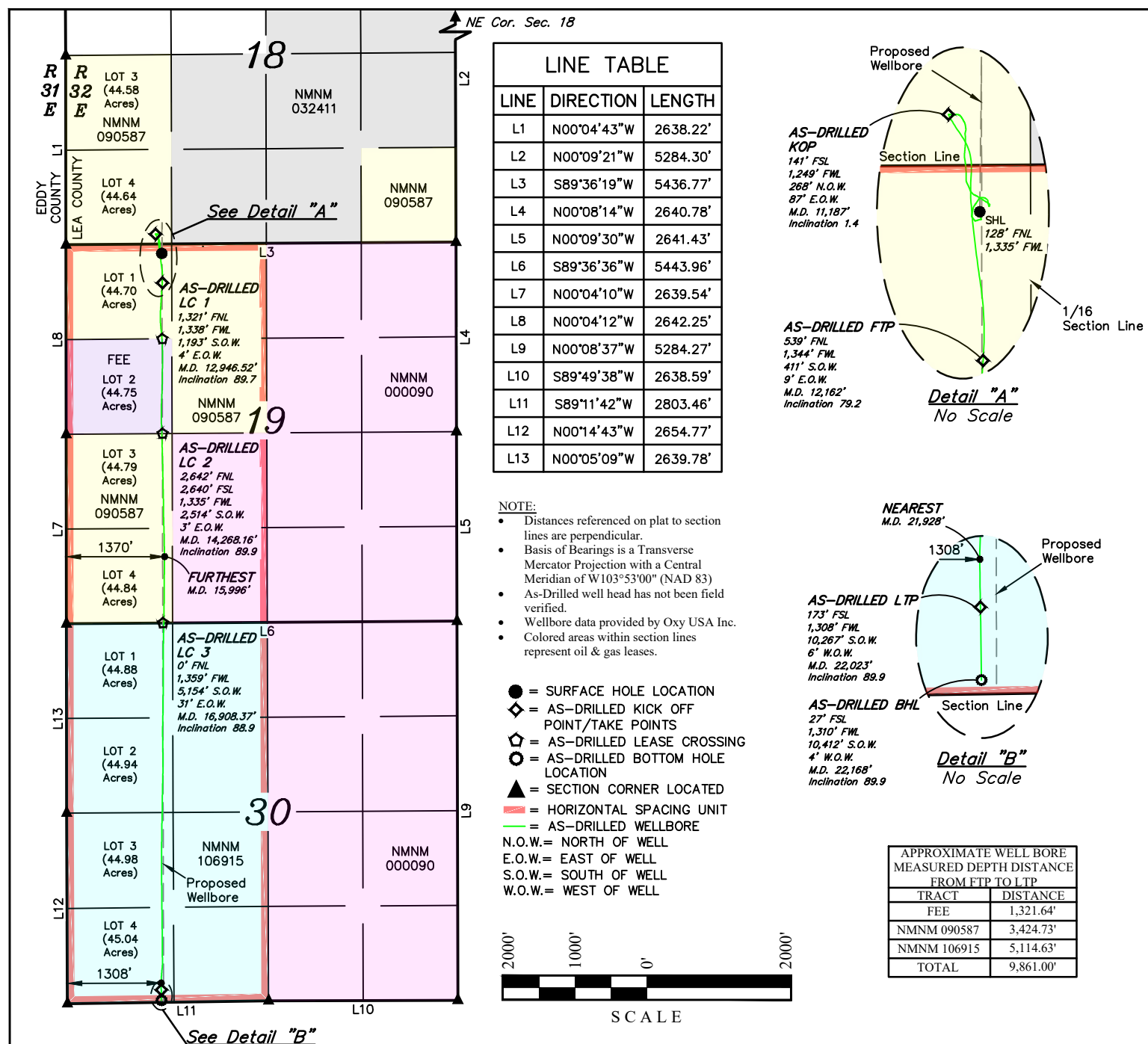
UL 4	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 173 SOUTH	Ft. from E/W 1308 WEST	Latitude (NAD 83) 32.355696°	Longitude (NAD 83) -103.718694°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground 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> 10/24/24	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>  23782 08-05-24
Signature Jana Mendiola	Signature and Seal of Professional Surveyor 23782 July 18, 2023
Printed Name janalyn_mendiola@oxy.com	Certificate Number Date of Survey
Email Address	

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 32H	Drawn By T.I.R. 08-05-24	Revised By
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NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°23'02.08" (32.383911°)	
LONGITUDE = -103°43'07.05" (-103.718624°)	
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°23'01.64" (32.383788°)	
LONGITUDE = -103°43'05.29" (-103.718136°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 503943.53' E: 731093.33'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 503883.11' E: 689910.94'	

NAD 83 (AS-DRILLED KOP)	
LATITUDE = 32°23'04.74" (32.384649°)	
LONGITUDE = -103°43'08.05" (-103.718904°)	
NAD 27 (AS-DRILLED KOP)	
LATITUDE = 32°23'04.29" (32.384526°)	
LONGITUDE = -103°43'06.30" (-103.718415°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 504211.49' E: 731005.47'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 504151.06' E: 689823.09'	

NAD 83 (AS-DRILLED FTP)	
LATITUDE = 32°22'58.01" (32.382782°)	
LONGITUDE = -103°43'06.95" (-103.718597°)	
NAD 27 (AS-DRILLED FTP)	
LATITUDE = 32°22'57.57" (32.382659°)	
LONGITUDE = -103°43'05.19" (-103.718109°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 503532.80' E: 731104.06'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 503472.39' E: 689921.66'	

NAD 83 (AS-DRILLED LC 1)	
LATITUDE = 32°22'50.28" (32.380633°)	
LONGITUDE = -103°43'07.02" (-103.718616°)	
NAD 27 (AS-DRILLED LC 1)	
LATITUDE = 32°22'49.84" (32.380510°)	
LONGITUDE = -103°43'05.26" (-103.718128°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 502750.86' E: 731102.75'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 502690.47' E: 689920.33'	

NAD 83 (AS-DRILLED LC 2)	
LATITUDE = 32°22'37.21" (32.377002°)	
LONGITUDE = -103°43'07.06" (-103.718627°)	
NAD 27 (AS-DRILLED LC 2)	
LATITUDE = 32°22'36.77" (32.376880°)	
LONGITUDE = -103°43'05.30" (-103.718139°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 501430.14' E: 731106.85'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 501369.79' E: 689924.39'	

NAD 83 (AS-DRILLED LC 3)	
LATITUDE = 32°22'11.09" (32.369747°)	
LONGITUDE = -103°43'06.78" (-103.718550°)	
NAD 27 (AS-DRILLED LC 3)	
LATITUDE = 32°22'10.65" (32.369625°)	
LONGITUDE = -103°43'05.03" (-103.718063°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 498790.93' E: 731145.71'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 498730.65' E: 689963.17'	

NAD 83 (AS-DRILLED LTP)	
LATITUDE = 32°21'20.51" (32.355696°)	
LONGITUDE = -103°43'07.30" (-103.718694°)	
NAD 27 (AS-DRILLED LTP)	
LATITUDE = 32°21'20.06" (32.355573°)	
LONGITUDE = -103°43'05.54" (-103.718207°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 493678.89' E: 731130.65'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 493618.75' E: 689947.97'	

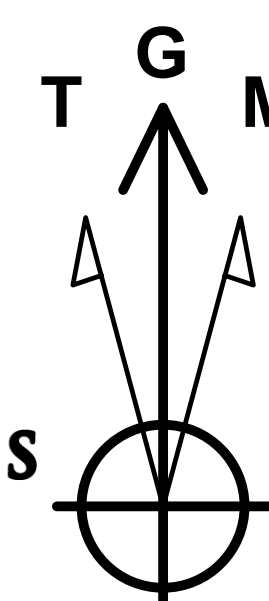
NAD 83 (AS-DRILLED BHL)	
LATITUDE = 32°21'19.07" (32.355298°)	
LONGITUDE = -103°43'07.28" (-103.718688°)	
NAD 27 (AS-DRILLED BHL)	
LATITUDE = 32°21'18.63" (32.355175°)	
LONGITUDE = -103°43'05.52" (-103.718201°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 493533.92' E: 731133.46'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 493473.78' E: 689950.77'	



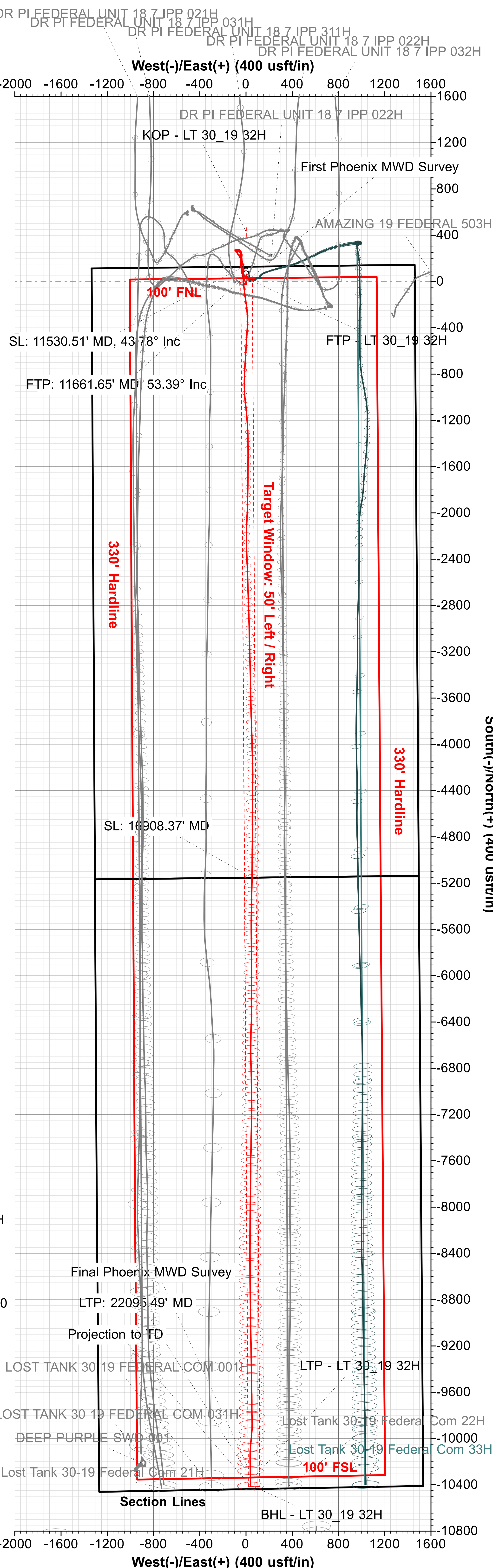
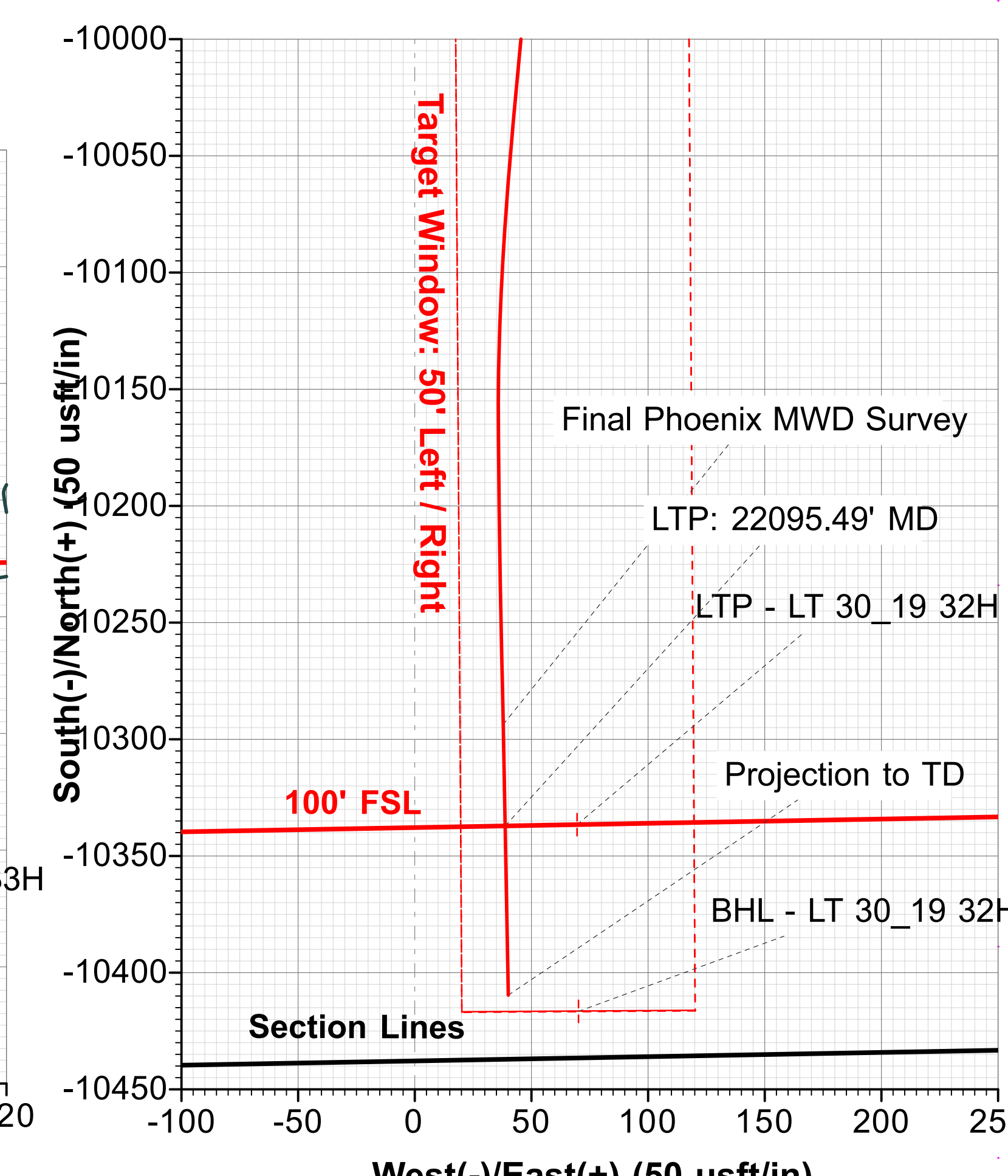
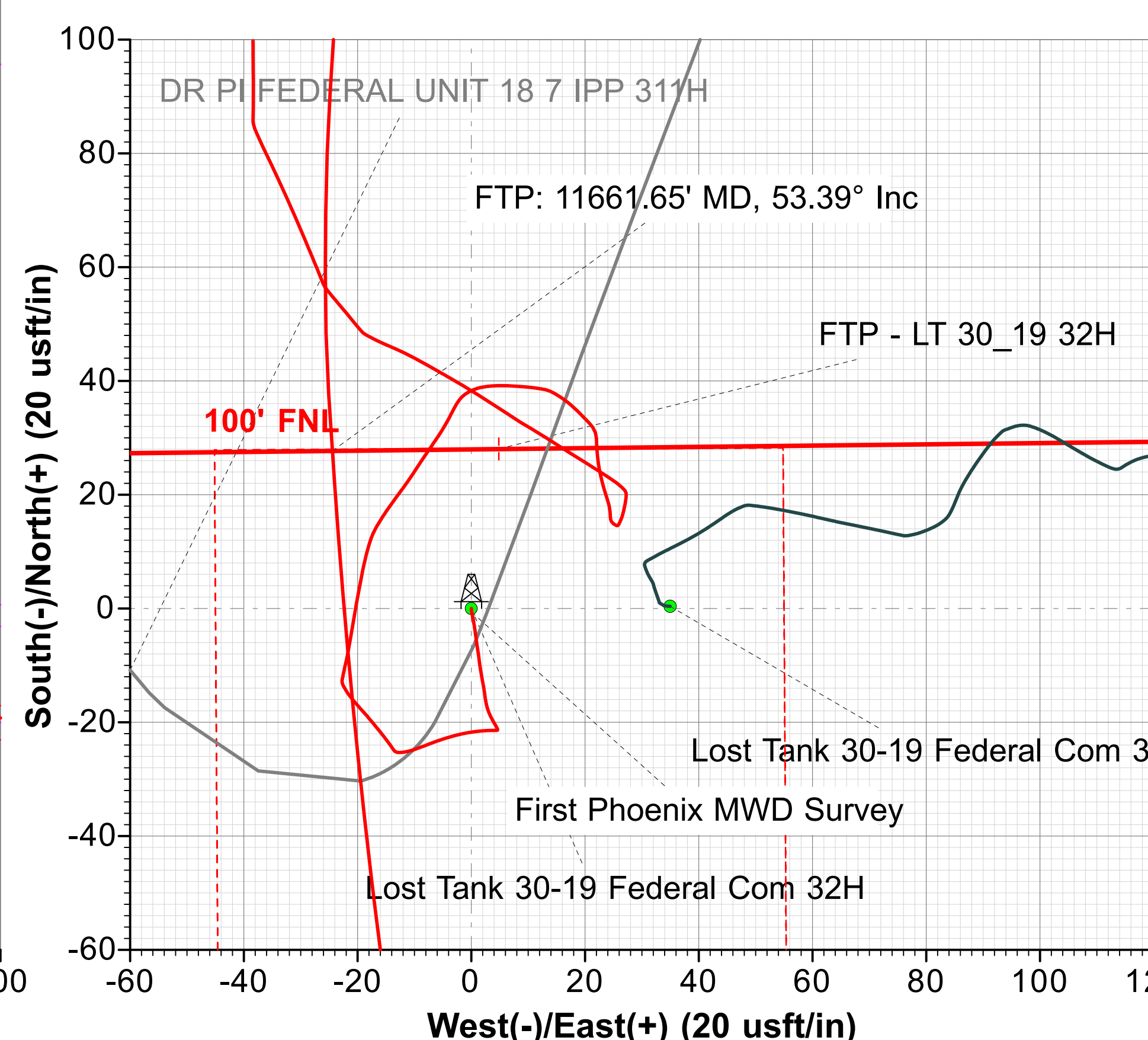
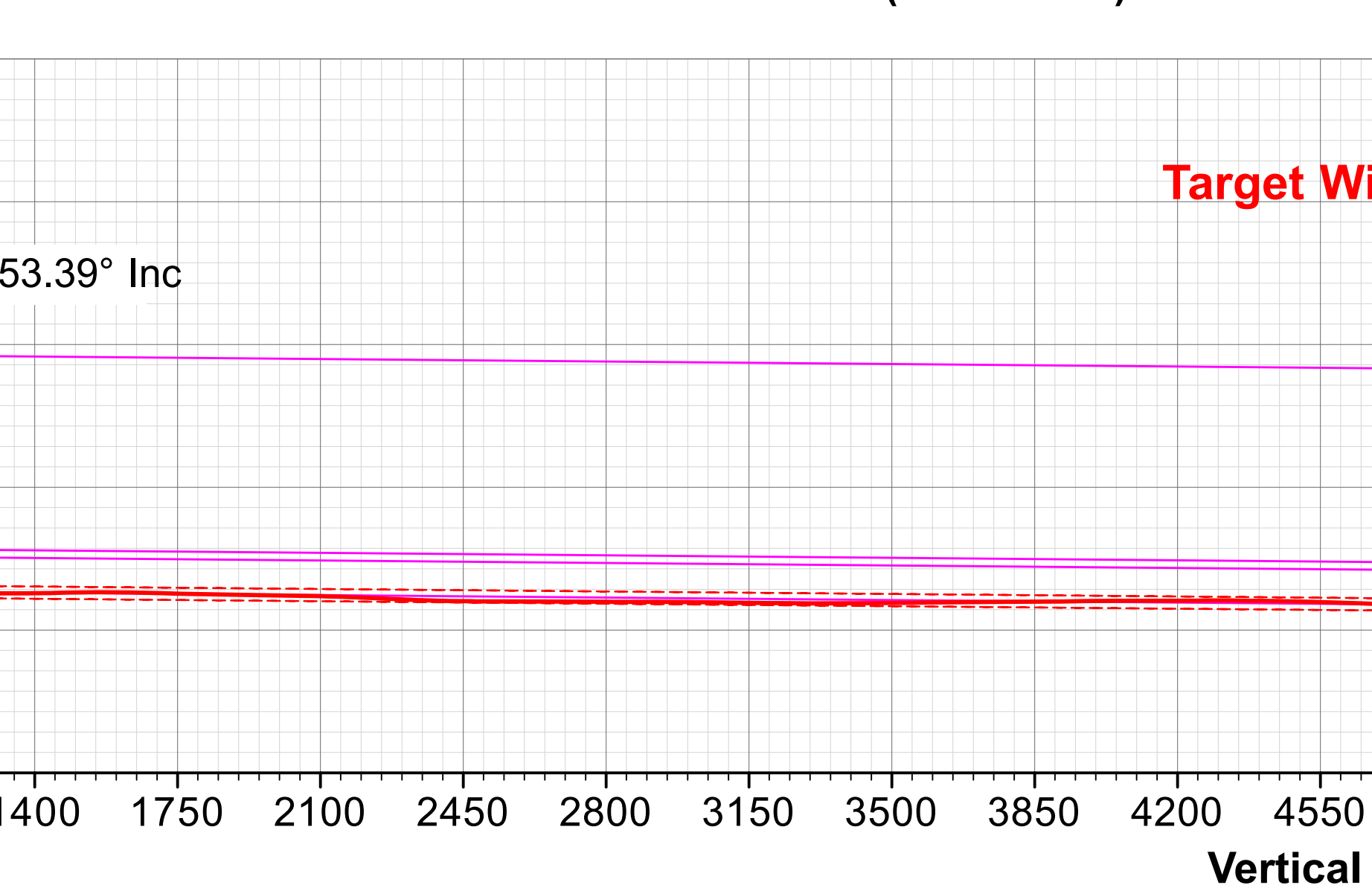
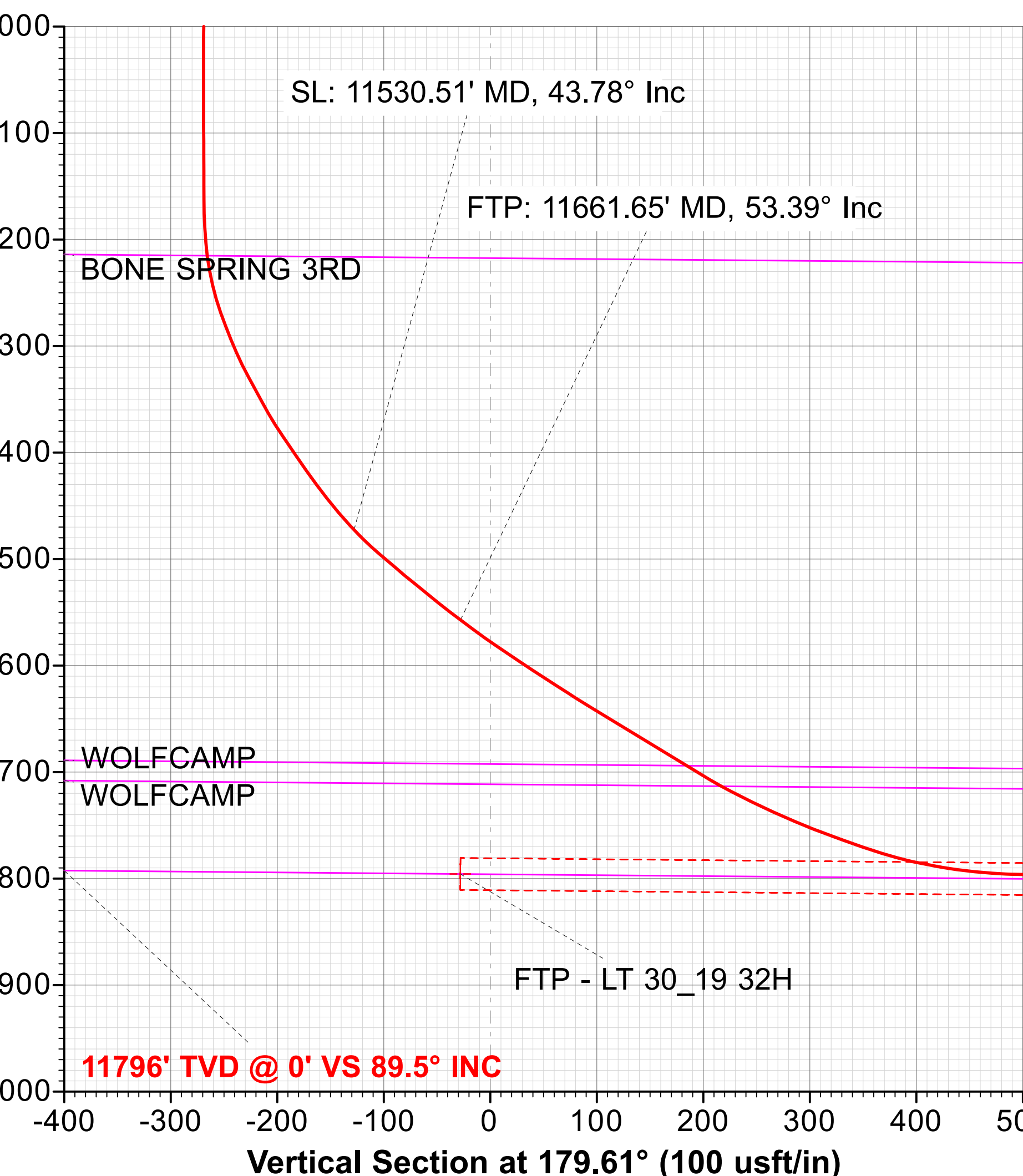
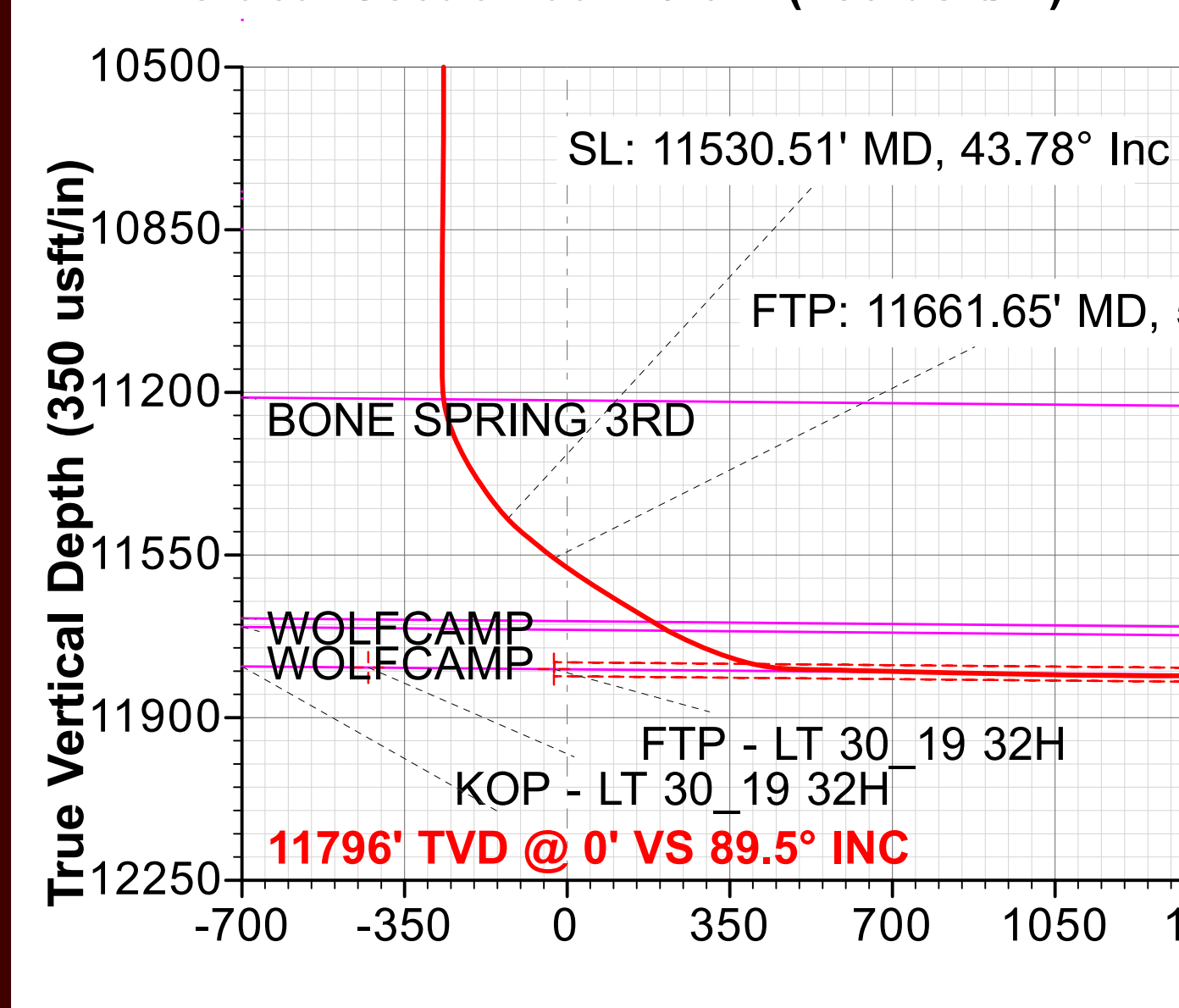
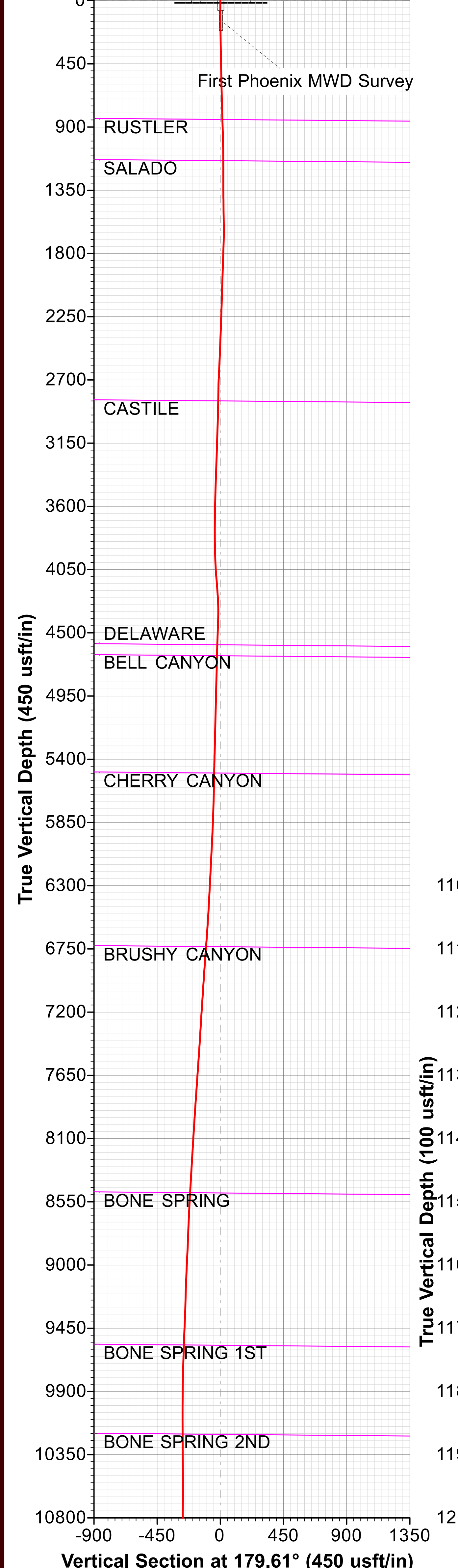
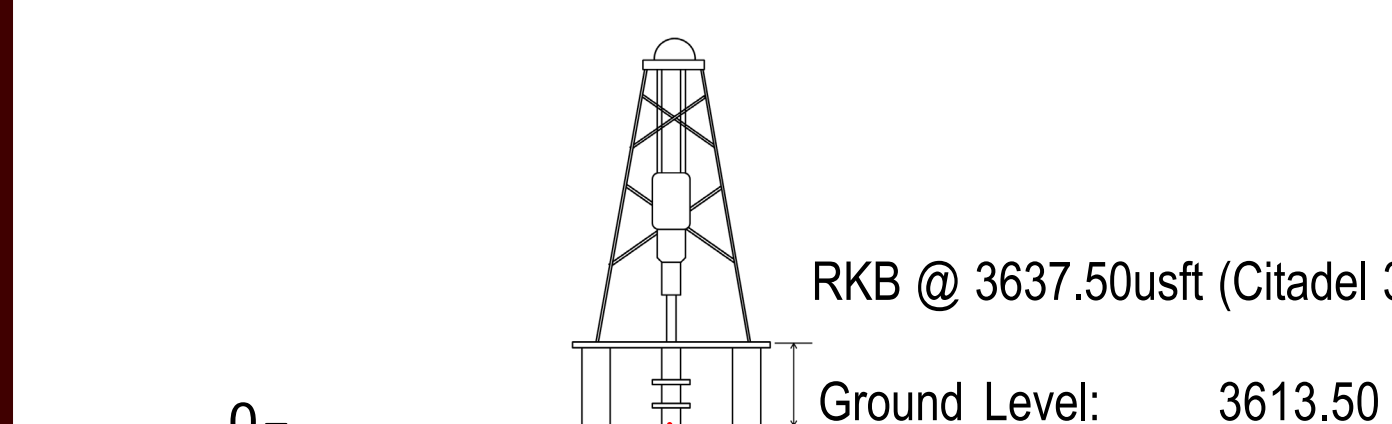
Project: Lea County, NM (NAD83-NME)
Site: Lost Tank 30-19
Well: Lost Tank 30-19 Federal Com 32H
Wellbore: OH / 74694
Design: Plan 2 05-06-24
Rig: Citadel 3



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.33°
Magnetic North: 6.21°
Magnetic Field
Strength: 47585.8nT
Dip Angle: 59.99°
Date: 5/13/2024
Model: IFR



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



OXY USA INC.

**Lea County, NM (NAD83-NME)
Lost Tank 30-19
Lost Tank 30-19 Federal Com 32H
3002547944
OH / 74694**

Design: Surveys (Citadel 3)

Standard Survey Report

21 June, 2024





Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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
From:	Map	Easting:	731,782.68 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 59.739564 N
		Longitude:	103° 42' 59.023536 W

Well	Lost Tank 30-19 Federal Com 32H		
Well Position	+N/-S	0.00 usft	Northing: 503,943.53 usft
	+E/-W	0.00 usft	Easting: 731,093.33 usft
Position Uncertainty	2.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.329 °	Ground Level:	3,613.50 usft

Wellbore	OH / 74694				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	5/13/2024	6.543	59.995	47,585.80000000

Design	Surveys (Citadel 3)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.61	

Survey Program	Date	6/21/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
24.00	996.00	Phoenix MWD Surveys - Surface - SQC (C	A009Mc_MWD+IFR1+SA	MWD+IFR1+Sag	
1,011.00	11,133.29	Phoenix MWD Surveys - Int - SQC (OH / 7	SQC_C705Mb_MWD+IFF	MWD+IFR1+Sag+FDIR	
11,147.00	22,168.00	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	
41.70	0.17	171.59	41.70	-0.03	0.00	0.03	0.96	0.96	0.00	
55.60	0.23	171.65	55.60	-0.07	0.01	0.07	0.43	0.43	0.43	
69.50	0.29	171.71	69.50	-0.14	0.02	0.14	0.43	0.43	0.43	
83.40	0.34	171.76	83.40	-0.21	0.03	0.21	0.36	0.36	0.36	
97.30	0.40	171.82	97.30	-0.30	0.04	0.30	0.43	0.43	0.43	
111.20	0.46	171.88	111.20	-0.40	0.06	0.40	0.43	0.43	0.43	



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
125.10	0.52	171.93	125.10	-0.52	0.08	0.52	0.43	0.43	0.36
139.00	0.58	171.99	139.00	-0.65	0.09	0.65	0.43	0.43	0.43
First Phoenix MWD Survey									
153.67	0.61	171.02	153.67	-0.80	0.12	0.81	0.22	0.20	-6.61
168.33	0.64	170.15	168.33	-0.96	0.14	0.96	0.21	0.20	-5.93
183.00	0.67	169.37	183.00	-1.13	0.17	1.13	0.21	0.20	-5.32
197.67	0.70	168.67	197.66	-1.30	0.21	1.30	0.21	0.20	-4.77
212.33	0.73	168.04	212.32	-1.48	0.24	1.48	0.21	0.20	-4.30
227.00	0.76	167.47	226.99	-1.67	0.28	1.67	0.21	0.20	-3.89
240.86	0.79	168.05	240.85	-1.85	0.32	1.85	0.22	0.22	4.18
254.71	0.82	168.58	254.70	-2.04	0.36	2.04	0.22	0.22	3.83
268.57	0.85	169.09	268.56	-2.24	0.40	2.24	0.22	0.22	3.68
282.43	0.88	169.57	282.42	-2.44	0.44	2.45	0.22	0.22	3.46
296.29	0.91	170.03	296.27	-2.66	0.48	2.66	0.22	0.22	3.32
310.14	0.95	170.46	310.12	-2.88	0.52	2.88	0.29	0.29	3.10
324.00	0.98	170.87	323.98	-3.11	0.55	3.11	0.22	0.22	2.96
337.57	0.99	171.24	337.55	-3.34	0.59	3.34	0.09	0.07	2.73
351.14	1.01	171.61	351.12	-3.57	0.63	3.58	0.15	0.15	2.73
364.71	1.03	171.98	364.68	-3.81	0.66	3.82	0.16	0.15	2.73
378.29	1.04	172.33	378.26	-4.05	0.69	4.06	0.09	0.07	2.58
391.86	1.06	172.69	391.83	-4.30	0.73	4.31	0.16	0.15	2.65
405.43	1.08	173.03	405.40	-4.55	0.76	4.56	0.15	0.15	2.51
419.00	1.10	173.37	418.96	-4.81	0.79	4.81	0.15	0.15	2.51
432.57	1.10	172.96	432.53	-5.07	0.82	5.07	0.06	0.00	-3.02
446.14	1.11	172.52	446.10	-5.33	0.85	5.33	0.10	0.07	-3.24
459.71	1.12	172.08	459.67	-5.59	0.89	5.59	0.10	0.07	-3.24
473.29	1.13	171.66	473.24	-5.85	0.93	5.86	0.10	0.07	-3.09
486.86	1.14	171.31	486.81	-6.12	0.97	6.12	0.09	0.07	-2.58
500.43	1.15	171.07	500.38	-6.39	1.01	6.39	0.08	0.07	-1.77
514.00	1.17	170.99	513.95	-6.66	1.05	6.66	0.15	0.15	-0.59
527.57	1.19	171.11	527.51	-6.93	1.09	6.94	0.15	0.15	0.88
541.14	1.22	171.35	541.08	-7.22	1.14	7.22	0.22	0.22	1.77
554.71	1.24	171.65	554.65	-7.50	1.18	7.51	0.15	0.15	2.21
568.29	1.27	171.96	568.22	-7.80	1.22	7.81	0.23	0.22	2.28
581.86	1.30	172.24	581.79	-8.10	1.26	8.11	0.23	0.22	2.06
595.43	1.33	172.44	595.36	-8.41	1.31	8.42	0.22	0.22	1.47
609.00	1.36	172.53	608.92	-8.72	1.35	8.73	0.22	0.22	0.66
622.43	1.38	172.48	622.35	-9.04	1.39	9.05	0.15	0.15	-0.37
635.86	1.41	172.33	635.78	-9.37	1.43	9.38	0.23	0.22	-1.12
649.29	1.43	172.10	649.20	-9.70	1.48	9.71	0.15	0.15	-1.71
662.71	1.45	171.83	662.62	-10.03	1.52	10.04	0.16	0.15	-2.01
676.14	1.47	171.53	676.04	-10.37	1.57	10.38	0.16	0.15	-2.23
689.57	1.49	171.21	689.47	-10.71	1.63	10.72	0.16	0.15	-2.38



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
703.00	1.51	170.87	702.89	-11.06	1.68	11.07	0.16	0.15	-2.53
716.57	1.54	170.48	716.46	-11.42	1.74	11.43	0.23	0.22	-2.87
730.14	1.56	170.10	730.02	-11.78	1.80	11.79	0.17	0.15	-2.80
743.71	1.58	169.76	743.59	-12.14	1.87	12.16	0.16	0.15	-2.51
757.29	1.60	169.50	757.16	-12.51	1.93	12.53	0.16	0.15	-1.91
770.86	1.62	169.34	770.73	-12.89	2.00	12.90	0.15	0.15	-1.18
784.43	1.64	169.36	784.29	-13.27	2.08	13.28	0.15	0.15	0.15
798.00	1.66	169.63	797.86	-13.65	2.15	13.67	0.16	0.15	1.99
810.60	1.67	170.28	810.45	-14.01	2.21	14.03	0.17	0.08	5.16
823.20	1.68	171.06	823.05	-14.38	2.27	14.39	0.20	0.08	6.19
835.80	1.69	171.78	835.64	-14.74	2.33	14.76	0.19	0.08	5.71
848.40	1.69	172.28	848.24	-15.11	2.38	15.13	0.12	0.00	3.97
861.00	1.69	172.32	860.83	-15.48	2.43	15.49	0.01	0.00	0.32
876.00	1.68	171.41	875.82	-15.92	2.49	15.93	0.19	-0.07	-6.07
891.00	1.66	169.82	890.82	-16.35	2.56	16.36	0.34	-0.13	-10.60
906.00	1.65	167.77	905.81	-16.77	2.64	16.79	0.40	-0.07	-13.67
921.00	1.63	165.41	920.81	-17.19	2.74	17.21	0.47	-0.13	-15.73
936.00	1.61	162.86	935.80	-17.60	2.86	17.62	0.50	-0.13	-17.00
951.00	1.60	160.22	950.79	-18.00	2.99	18.01	0.50	-0.07	-17.60
966.00	1.59	157.58	965.79	-18.38	3.14	18.41	0.49	-0.07	-17.60
981.00	1.57	155.02	980.78	-18.76	3.31	18.79	0.49	-0.13	-17.07
996.00	1.55	152.66	995.78	-19.13	3.49	19.15	0.45	-0.13	-15.73
1,011.00	1.53	150.66	1,010.77	-19.48	3.68	19.51	0.38	-0.13	-13.33
1,024.57	1.47	150.21	1,024.34	-19.79	3.86	19.82	0.45	-0.44	-3.32
1,038.14	1.42	150.27	1,037.90	-20.09	4.03	20.12	0.37	-0.37	0.44
1,051.71	1.36	150.66	1,051.47	-20.38	4.19	20.40	0.45	-0.44	2.87
1,065.29	1.31	151.25	1,065.04	-20.65	4.34	20.68	0.38	-0.37	4.34
1,078.86	1.26	151.89	1,078.61	-20.92	4.49	20.95	0.38	-0.37	4.72
1,092.43	1.22	152.39	1,092.18	-21.18	4.62	21.21	0.31	-0.29	3.68
1,106.00	0.70	222.78	1,105.75	-21.37	4.63	21.40	8.74	-3.83	518.72
1,119.57	1.43	270.71	1,119.31	-21.43	4.41	21.46	8.05	5.38	353.21
1,133.14	1.41	270.21	1,132.88	-21.43	4.07	21.45	0.17	-0.15	-3.68
1,146.71	1.41	269.55	1,146.45	-21.43	3.74	21.45	0.12	0.00	-4.86
1,160.29	1.40	268.80	1,160.02	-21.43	3.41	21.45	0.15	-0.07	-5.52
1,173.86	1.40	267.99	1,173.59	-21.44	3.07	21.46	0.15	0.00	-5.97
1,187.43	1.41	267.15	1,187.15	-21.45	2.74	21.47	0.17	0.07	-6.19
1,201.00	1.43	266.33	1,200.72	-21.47	2.41	21.49	0.21	0.15	-6.04
1,214.57	1.45	265.55	1,214.28	-21.50	2.07	21.51	0.21	0.15	-5.75
1,228.14	1.48	264.80	1,227.85	-21.53	1.72	21.54	0.26	0.22	-5.53
1,241.71	1.52	264.09	1,241.42	-21.56	1.37	21.57	0.33	0.29	-5.23
1,255.29	1.56	263.39	1,254.99	-21.60	1.00	21.61	0.33	0.29	-5.15
1,268.86	1.60	262.70	1,268.56	-21.65	0.63	21.65	0.33	0.29	-5.08
1,282.43	1.64	261.98	1,282.12	-21.70	0.25	21.70	0.33	0.29	-5.31
1,296.00	1.68	261.22	1,295.68	-21.76	-0.14	21.75	0.34	0.29	-5.60



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
1,309.43	1.71	260.29	1,309.11	-21.82	-0.53	21.81	0.30	0.22	-6.92
1,322.86	1.75	259.33	1,322.53	-21.89	-0.93	21.88	0.37	0.30	-7.15
1,336.29	1.78	258.35	1,335.96	-21.97	-1.33	21.96	0.32	0.22	-7.30
1,349.71	1.81	257.40	1,349.37	-22.06	-1.74	22.05	0.31	0.22	-7.08
1,363.14	1.84	256.49	1,362.79	-22.16	-2.16	22.14	0.31	0.22	-6.78
1,376.57	1.87	255.64	1,376.22	-22.26	-2.58	22.24	0.30	0.22	-6.33
1,390.00	1.90	254.87	1,389.64	-22.37	-3.01	22.35	0.29	0.22	-5.73
1,403.57	1.92	254.14	1,403.20	-22.49	-3.45	22.47	0.23	0.15	-5.38
1,417.14	1.95	253.48	1,416.76	-22.62	-3.89	22.59	0.28	0.22	-4.86
1,430.71	1.97	252.88	1,430.33	-22.76	-4.33	22.73	0.21	0.15	-4.42
1,444.29	2.00	252.31	1,443.90	-22.90	-4.78	22.86	0.26	0.22	-4.20
1,457.86	2.02	251.77	1,457.46	-23.04	-5.23	23.01	0.20	0.15	-3.98
1,471.43	2.05	251.24	1,471.02	-23.20	-5.69	23.16	0.26	0.22	-3.91
1,485.00	2.08	250.70	1,484.58	-23.36	-6.15	23.31	0.26	0.22	-3.98
1,498.57	2.12	250.09	1,498.14	-23.52	-6.62	23.48	0.34	0.29	-4.50
1,512.14	2.16	249.51	1,511.70	-23.70	-7.09	23.65	0.34	0.29	-4.27
1,525.71	2.19	249.04	1,525.26	-23.88	-7.58	23.83	0.26	0.22	-3.46
1,539.29	2.23	248.75	1,538.83	-24.07	-8.07	24.01	0.31	0.29	-2.14
1,552.86	2.26	248.73	1,552.39	-24.26	-8.56	24.20	0.22	0.22	-0.15
1,566.43	2.28	249.11	1,565.95	-24.45	-9.06	24.39	0.18	0.15	2.80
1,580.00	2.28	250.08	1,579.51	-24.64	-9.57	24.58	0.28	0.00	7.15
1,593.57	2.26	252.04	1,593.07	-24.82	-10.08	24.75	0.59	-0.15	14.44
1,607.14	2.23	254.62	1,606.63	-24.97	-10.59	24.90	0.78	-0.22	19.01
1,620.71	2.20	257.59	1,620.19	-25.10	-11.09	25.02	0.87	-0.22	21.89
1,634.29	2.18	260.71	1,633.76	-25.19	-11.60	25.11	0.89	-0.15	22.97
1,647.86	2.16	263.72	1,647.32	-25.26	-12.11	25.18	0.85	-0.15	22.18
1,661.43	2.15	266.33	1,660.88	-25.31	-12.62	25.22	0.73	-0.07	19.23
1,675.00	1.90	281.60	1,674.44	-25.28	-13.10	25.19	4.36	-1.84	112.53
1,688.57	1.96	316.89	1,688.01	-25.06	-13.47	24.97	8.63	0.44	260.06
1,702.14	2.17	325.48	1,701.57	-24.68	-13.78	24.59	2.75	1.55	63.30
1,715.71	2.21	325.07	1,715.13	-24.26	-14.07	24.16	0.32	0.29	-3.02
1,729.29	2.26	324.37	1,728.70	-23.82	-14.38	23.73	0.42	0.37	-5.15
1,742.86	2.32	323.57	1,742.26	-23.39	-14.70	23.29	0.50	0.44	-5.90
1,756.43	2.37	322.76	1,755.81	-22.94	-15.03	22.84	0.44	0.37	-5.97
1,770.00	2.41	322.06	1,769.37	-22.49	-15.38	22.39	0.36	0.29	-5.16
1,783.57	2.43	321.52	1,782.93	-22.04	-15.73	21.94	0.22	0.15	-3.98
1,797.14	2.43	321.12	1,796.49	-21.59	-16.09	21.48	0.12	0.00	-2.95
1,810.71	2.43	320.80	1,810.05	-21.15	-16.45	21.04	0.10	0.00	-2.36
1,824.29	2.43	320.53	1,823.61	-20.70	-16.82	20.59	0.08	0.00	-1.99
1,837.86	2.43	320.28	1,837.17	-20.26	-17.18	20.14	0.08	0.00	-1.84
1,851.43	2.43	320.02	1,850.73	-19.82	-17.55	19.70	0.08	0.00	-1.92
1,865.00	2.43	319.72	1,864.29	-19.38	-17.92	19.26	0.09	0.00	-2.21
1,878.57	2.44	319.33	1,877.84	-18.94	-18.30	18.81	0.14	0.07	-2.87



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
1,892.14	2.45	318.93	1,891.40	-18.50	-18.68	18.37	0.15	0.07	-2.95
1,905.71	2.47	318.58	1,904.96	-18.06	-19.06	17.93	0.18	0.15	-2.58
1,919.29	2.48	318.34	1,918.53	-17.62	-19.45	17.49	0.11	0.07	-1.77
1,932.86	2.49	318.31	1,932.08	-17.18	-19.84	17.05	0.07	0.07	-0.22
1,946.43	2.49	318.58	1,945.64	-16.74	-20.23	16.61	0.09	0.00	1.99
1,960.00	2.48	319.33	1,959.20	-16.30	-20.62	16.16	0.25	-0.07	5.53
1,973.57	2.44	320.88	1,972.76	-15.85	-20.99	15.71	0.57	-0.29	11.42
1,987.14	2.40	322.96	1,986.31	-15.40	-21.35	15.26	0.71	-0.29	15.33
2,000.71	2.35	325.40	1,999.87	-14.95	-21.67	14.80	0.83	-0.37	17.98
2,014.29	2.31	328.02	2,013.44	-14.48	-21.98	14.34	0.84	-0.29	19.29
2,027.86	2.28	330.66	2,027.00	-14.02	-22.26	13.87	0.81	-0.22	19.45
2,041.43	2.26	333.08	2,040.56	-13.54	-22.51	13.39	0.72	-0.15	17.83
2,055.00	1.86	346.64	2,054.12	-13.09	-22.68	12.94	4.63	-2.95	99.93
2,068.57	1.57	8.35	2,067.68	-12.69	-22.70	12.54	5.20	-2.14	159.99
2,082.14	1.59	9.75	2,081.25	-12.32	-22.65	12.17	0.32	0.15	10.32
2,095.71	1.63	10.78	2,094.81	-11.95	-22.58	11.79	0.36	0.29	7.59
2,109.29	1.67	11.54	2,108.39	-11.56	-22.50	11.41	0.34	0.29	5.60
2,122.86	1.71	12.08	2,121.95	-11.17	-22.42	11.02	0.32	0.29	3.98
2,136.43	1.76	12.44	2,135.52	-10.77	-22.33	10.62	0.38	0.37	2.65
2,150.00	1.80	12.63	2,149.08	-10.36	-22.24	10.21	0.30	0.29	1.40
2,163.57	1.82	12.60	2,162.64	-9.94	-22.15	9.79	0.15	0.15	-0.22
2,177.14	1.85	12.46	2,176.21	-9.52	-22.05	9.37	0.22	0.22	-1.03
2,190.71	1.87	12.23	2,189.77	-9.09	-21.96	8.94	0.16	0.15	-1.69
2,204.29	1.89	11.94	2,203.34	-8.65	-21.87	8.50	0.16	0.15	-2.14
2,217.86	1.90	11.63	2,216.90	-8.21	-21.77	8.06	0.11	0.07	-2.28
2,231.43	1.92	11.30	2,230.47	-7.77	-21.68	7.62	0.17	0.15	-2.43
2,245.00	1.94	10.97	2,244.03	-7.32	-21.60	7.17	0.17	0.15	-2.43
2,258.57	1.97	10.58	2,257.59	-6.86	-21.51	6.72	0.24	0.22	-2.87
2,272.14	2.00	10.22	2,271.15	-6.40	-21.42	6.26	0.24	0.22	-2.65
2,285.71	2.02	9.87	2,284.71	-5.93	-21.34	5.79	0.17	0.15	-2.58
2,299.29	2.05	9.57	2,298.29	-5.46	-21.26	5.32	0.23	0.22	-2.21
2,312.86	2.08	9.32	2,311.85	-4.98	-21.18	4.83	0.23	0.22	-1.84
2,326.43	2.11	9.15	2,325.41	-4.49	-21.10	4.34	0.23	0.22	-1.25
2,340.00	2.14	9.09	2,338.97	-3.99	-21.02	3.85	0.22	0.22	-0.44
2,353.43	2.16	9.18	2,352.39	-3.49	-20.94	3.35	0.15	0.15	0.67
2,366.86	2.18	9.37	2,365.81	-2.99	-20.86	2.85	0.16	0.15	1.41
2,380.29	2.20	9.61	2,379.23	-2.48	-20.77	2.34	0.16	0.15	1.79
2,393.71	2.23	9.87	2,392.64	-1.97	-20.69	1.83	0.24	0.22	1.94
2,407.14	2.25	10.12	2,406.06	-1.46	-20.60	1.32	0.17	0.15	1.86
2,420.57	2.27	10.34	2,419.48	-0.94	-20.50	0.80	0.16	0.15	1.64
2,434.00	2.30	10.48	2,432.90	-0.41	-20.40	0.27	0.23	0.22	1.04
2,447.57	2.32	10.51	2,446.46	0.13	-20.30	-0.27	0.15	0.15	0.22
2,461.14	2.35	10.47	2,460.02	0.67	-20.20	-0.81	0.22	0.22	-0.29



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
2,474.71	2.38	10.40	2,473.57	1.22	-20.10	-1.36	0.22	0.22	-0.52
2,488.29	2.41	10.32	2,487.14	1.78	-20.00	-1.92	0.22	0.22	-0.59
2,501.86	2.44	10.26	2,500.70	2.35	-19.90	-2.48	0.22	0.22	-0.44
2,515.43	2.48	10.22	2,514.26	2.92	-19.79	-3.05	0.30	0.29	-0.29
2,529.00	2.51	10.25	2,527.82	3.50	-19.69	-3.63	0.22	0.22	0.22
2,542.57	2.55	10.36	2,541.37	4.09	-19.58	-4.22	0.30	0.29	0.81
2,556.14	2.59	10.54	2,554.93	4.69	-19.47	-4.82	0.30	0.29	1.33
2,569.71	2.64	10.77	2,568.48	5.30	-19.36	-5.43	0.38	0.37	1.69
2,583.29	2.68	11.06	2,582.05	5.92	-19.24	-6.05	0.31	0.29	2.14
2,596.86	2.72	11.41	2,595.60	6.54	-19.11	-6.67	0.32	0.29	2.58
2,610.43	2.75	11.84	2,609.16	7.18	-18.98	-7.31	0.27	0.22	3.17
2,624.00	2.78	12.39	2,622.71	7.82	-18.85	-7.94	0.30	0.22	4.05
2,637.57	2.80	13.13	2,636.27	8.46	-18.70	-8.59	0.30	0.15	5.45
2,651.14	2.81	13.97	2,649.82	9.11	-18.54	-9.23	0.31	0.07	6.19
2,664.71	2.82	14.86	2,663.37	9.75	-18.38	-9.88	0.33	0.07	6.56
2,678.29	2.83	15.78	2,676.94	10.40	-18.20	-10.52	0.34	0.07	6.77
2,691.86	2.83	16.67	2,690.49	11.04	-18.01	-11.16	0.32	0.00	6.56
2,705.43	2.84	17.50	2,704.05	11.68	-17.82	-11.80	0.31	0.07	6.12
2,719.00	1.81	18.23	2,717.60	12.21	-17.65	-12.33	7.59	-7.59	5.38
2,732.57	1.13	20.67	2,731.17	12.54	-17.53	-12.65	5.03	-5.01	17.98
2,746.14	1.14	22.25	2,744.74	12.79	-17.44	-12.90	0.24	0.07	11.64
2,759.71	1.14	23.77	2,758.30	13.03	-17.33	-13.15	0.22	0.00	11.20
2,773.29	1.15	25.22	2,771.88	13.28	-17.22	-13.40	0.23	0.07	10.68
2,786.86	1.15	26.57	2,785.45	13.53	-17.10	-13.64	0.20	0.00	9.95
2,800.43	1.17	27.77	2,799.02	13.77	-16.97	-13.89	0.23	0.15	8.84
2,814.00	1.19	28.76	2,812.58	14.02	-16.84	-14.13	0.21	0.15	7.30
2,827.57	1.22	29.54	2,826.15	14.27	-16.70	-14.38	0.25	0.22	5.75
2,841.14	1.26	30.15	2,839.72	14.52	-16.56	-14.63	0.31	0.29	4.50
2,854.71	1.30	30.66	2,853.28	14.78	-16.40	-14.89	0.31	0.29	3.76
2,868.29	1.34	31.09	2,866.86	15.05	-16.24	-15.16	0.30	0.29	3.17
2,881.86	1.39	31.50	2,880.43	15.33	-16.07	-15.44	0.38	0.37	3.02
2,895.43	1.44	31.92	2,893.99	15.61	-15.90	-15.72	0.38	0.37	3.10
2,909.00	1.49	32.37	2,907.56	15.91	-15.71	-16.01	0.38	0.37	3.32
2,922.57	1.54	32.85	2,921.12	16.21	-15.52	-16.31	0.38	0.37	3.54
2,936.14	1.59	33.36	2,934.69	16.52	-15.32	-16.62	0.38	0.37	3.76
2,949.71	1.64	33.87	2,948.25	16.84	-15.11	-16.94	0.38	0.37	3.76
2,963.29	1.70	34.37	2,961.83	17.16	-14.88	-17.26	0.45	0.44	3.68
2,976.86	1.75	34.83	2,975.39	17.50	-14.65	-17.60	0.38	0.37	3.39
2,990.43	1.81	35.23	2,988.95	17.85	-14.41	-17.94	0.45	0.44	2.95
3,004.00	1.87	35.57	3,002.52	18.20	-14.16	-18.30	0.45	0.44	2.51
3,017.57	1.93	35.83	3,016.08	18.57	-13.90	-18.66	0.45	0.44	1.92
3,031.14	2.00	36.03	3,029.64	18.94	-13.62	-19.03	0.52	0.52	1.47
3,044.71	2.07	36.16	3,043.20	19.33	-13.34	-19.42	0.52	0.52	0.96
3,058.29	2.13	36.24	3,056.77	19.73	-13.04	-19.82	0.44	0.44	0.59



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
3,071.86	2.20	36.26	3,070.33	20.15	-12.74	-20.23	0.52	0.52	0.15
3,085.43	2.25	36.21	3,083.89	20.57	-12.43	-20.66	0.37	0.37	-0.37
3,099.00	2.31	36.05	3,097.45	21.01	-12.11	-21.09	0.44	0.44	-1.18
3,112.57	2.34	35.71	3,111.01	21.45	-11.79	-21.53	0.24	0.22	-2.51
3,126.14	2.38	35.29	3,124.57	21.91	-11.46	-21.99	0.32	0.29	-3.10
3,139.71	2.40	34.83	3,138.13	22.37	-11.14	-22.45	0.20	0.15	-3.39
3,153.29	2.42	34.38	3,151.70	22.84	-10.82	-22.92	0.20	0.15	-3.31
3,166.86	2.44	33.96	3,165.25	23.32	-10.49	-23.39	0.20	0.15	-3.10
3,180.43	2.45	33.61	3,178.81	23.80	-10.17	-23.87	0.13	0.07	-2.58
3,194.00	2.46	33.38	3,192.37	24.28	-9.85	-24.35	0.10	0.07	-1.69
3,207.57	2.47	33.33	3,205.93	24.77	-9.53	-24.84	0.08	0.07	-0.37
3,221.14	2.46	33.40	3,219.48	25.26	-9.21	-25.32	0.08	-0.07	0.52
3,234.71	2.46	33.55	3,233.04	25.75	-8.89	-25.80	0.05	0.00	1.11
3,248.29	2.45	33.74	3,246.61	26.23	-8.56	-26.29	0.09	-0.07	1.40
3,261.86	2.44	33.95	3,260.17	26.71	-8.24	-26.77	0.10	-0.07	1.55
3,275.43	2.43	34.14	3,273.72	27.19	-7.92	-27.24	0.09	-0.07	1.40
3,289.00	2.41	34.30	3,287.28	27.66	-7.60	-27.71	0.16	-0.15	1.18
3,302.57	2.39	34.36	3,300.84	28.13	-7.28	-28.18	0.15	-0.15	0.44
3,316.14	2.36	34.34	3,314.40	28.60	-6.96	-28.64	0.22	-0.22	-0.15
3,329.71	2.33	34.28	3,327.96	29.05	-6.65	-29.10	0.22	-0.22	-0.44
3,343.29	2.30	34.16	3,341.53	29.51	-6.34	-29.55	0.22	-0.22	-0.88
3,356.86	2.26	33.96	3,355.09	29.96	-6.03	-30.00	0.30	-0.29	-1.47
3,370.43	2.23	33.66	3,368.65	30.40	-5.74	-30.43	0.24	-0.22	-2.21
3,384.00	2.19	33.19	3,382.21	30.83	-5.45	-30.87	0.32	-0.29	-3.46
3,397.57	2.15	32.45	3,395.77	31.27	-5.17	-31.30	0.36	-0.29	-5.45
3,411.14	2.12	31.55	3,409.33	31.69	-4.90	-31.73	0.33	-0.22	-6.63
3,424.71	2.08	30.57	3,422.89	32.12	-4.65	-32.15	0.40	-0.29	-7.22
3,438.29	2.05	29.58	3,436.46	32.54	-4.40	-32.57	0.34	-0.22	-7.29
3,451.86	2.02	28.63	3,450.02	32.96	-4.17	-32.99	0.33	-0.22	-7.00
3,465.43	1.98	27.81	3,463.58	33.38	-3.94	-33.41	0.36	-0.29	-6.04
3,479.00	1.95	27.20	3,477.14	33.79	-3.73	-33.82	0.27	-0.22	-4.50
3,492.57	1.91	27.08	3,490.71	34.20	-3.52	-34.22	0.30	-0.29	-0.88
3,506.14	1.87	27.29	3,504.27	34.60	-3.32	-34.62	0.30	-0.29	1.55
3,519.71	1.84	27.84	3,517.83	34.99	-3.11	-35.01	0.26	-0.22	4.05
3,533.29	1.81	28.76	3,531.40	35.37	-2.91	-35.39	0.31	-0.22	6.77
3,546.86	1.79	30.16	3,544.97	35.74	-2.70	-35.76	0.36	-0.15	10.32
3,560.43	1.77	32.18	3,558.53	36.10	-2.48	-36.12	0.49	-0.15	14.89
3,574.00	1.77	35.01	3,572.09	36.45	-2.25	-36.46	0.64	0.00	20.85
3,587.57	1.77	39.05	3,585.66	36.78	-2.00	-36.80	0.92	0.00	29.77
3,601.14	1.79	43.82	3,599.22	37.10	-1.72	-37.11	1.10	0.15	35.15
3,614.71	1.84	48.89	3,612.78	37.40	-1.41	-37.40	1.24	0.37	37.36
3,628.29	1.91	53.93	3,626.36	37.67	-1.06	-37.68	1.32	0.52	37.11
3,641.86	2.01	58.63	3,639.92	37.93	-0.67	-37.93	1.39	0.74	34.64



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
3,655.43	2.14	62.79	3,653.48	38.17	-0.25	-38.17	1.47	0.96	30.66
3,669.00	2.30	66.24	3,667.04	38.40	0.23	-38.39	1.54	1.18	25.42
3,682.57	2.42	70.95	3,680.60	38.60	0.75	-38.59	1.68	0.88	34.71
3,696.14	2.57	75.24	3,694.16	38.77	1.31	-38.76	1.76	1.11	31.61
3,709.71	2.74	79.03	3,707.71	38.91	1.93	-38.89	1.80	1.25	27.93
3,723.29	2.92	82.30	3,721.28	39.02	2.59	-39.00	1.78	1.33	24.08
3,736.86	3.11	85.06	3,734.83	39.09	3.30	-39.07	1.76	1.40	20.34
3,750.43	3.30	87.32	3,748.38	39.14	4.05	-39.12	1.68	1.40	16.65
3,764.00	3.48	89.09	3,761.92	39.17	4.86	-39.14	1.53	1.33	13.04
3,777.43	3.63	90.76	3,775.33	39.17	5.69	-39.13	1.36	1.12	12.43
3,790.86	3.76	92.08	3,788.73	39.15	6.55	-39.10	1.16	0.97	9.83
3,804.29	3.87	93.17	3,802.13	39.11	7.45	-39.06	0.98	0.82	8.12
3,817.71	3.98	94.14	3,815.52	39.05	8.36	-38.99	0.96	0.82	7.23
3,831.14	4.07	95.05	3,828.91	38.97	9.30	-38.91	0.82	0.67	6.78
3,844.57	4.15	96.00	3,842.31	38.88	10.26	-38.81	0.78	0.60	7.07
3,858.00	4.20	97.05	3,855.70	38.77	11.23	-38.69	0.68	0.37	7.82
3,871.57	4.21	98.35	3,869.24	38.64	12.22	-38.55	0.71	0.07	9.58
3,885.14	3.71	103.88	3,882.77	38.46	13.14	-38.37	4.63	-3.68	40.75
3,898.71	3.03	115.70	3,896.32	38.20	13.89	-38.10	7.14	-5.01	87.10
3,912.29	3.02	118.27	3,909.88	37.87	14.53	-37.77	1.00	-0.07	18.92
3,925.86	3.01	121.04	3,923.43	37.52	15.15	-37.42	1.08	-0.07	20.41
3,939.43	3.03	123.82	3,936.98	37.14	15.75	-37.03	1.09	0.15	20.49
3,953.00	3.09	126.36	3,950.53	36.72	16.34	-36.61	1.09	0.44	18.72
3,966.57	3.20	128.79	3,964.08	36.27	16.93	-36.15	1.27	0.81	17.91
3,980.14	3.34	130.89	3,977.63	35.77	17.53	-35.65	1.36	1.03	15.48
3,993.71	3.51	132.66	3,991.18	35.23	18.13	-35.11	1.48	1.25	13.04
4,007.29	3.70	134.08	4,004.73	34.64	18.75	-34.52	1.55	1.40	10.46
4,020.86	3.89	135.17	4,018.27	34.01	19.39	-33.88	1.50	1.40	8.03
4,034.43	4.08	135.90	4,031.81	33.34	20.05	-33.20	1.45	1.40	5.38
4,048.00	4.25	136.22	4,045.34	32.63	20.73	-32.49	1.26	1.25	2.36
4,061.57	4.35	145.77	4,058.87	31.84	21.37	-31.70	5.32	0.74	70.38
4,075.14	4.34	160.96	4,072.41	30.93	21.83	-30.78	8.46	-0.07	111.94
4,088.71	4.41	177.52	4,085.94	29.92	22.02	-29.77	9.29	0.52	122.03
4,102.29	4.52	178.33	4,099.48	28.87	22.06	-28.72	0.93	0.81	5.96
4,115.86	4.63	176.14	4,113.00	27.79	22.11	-27.64	1.52	0.81	-16.14
4,129.43	4.73	173.83	4,126.53	26.68	22.21	-26.53	1.57	0.74	-17.02
4,143.00	4.82	171.59	4,140.05	25.56	22.35	-25.41	1.53	0.66	-16.51
4,156.57	4.81	169.50	4,153.57	24.44	22.54	-24.29	1.29	-0.07	-15.40
4,170.14	4.78	167.56	4,167.10	23.33	22.76	-23.17	1.22	-0.22	-14.30
4,183.71	4.73	165.73	4,180.62	22.23	23.02	-22.08	1.18	-0.37	-13.49
4,197.29	4.69	163.96	4,194.15	21.16	23.31	-21.00	1.11	-0.29	-13.03
4,210.86	4.64	162.28	4,207.68	20.10	23.63	-19.94	1.07	-0.37	-12.38
4,224.43	4.60	160.73	4,221.20	19.06	23.98	-18.90	0.97	-0.29	-11.42



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
4,238.00	4.83	168.96	4,234.73	17.99	24.27	-17.83	5.26	1.69	60.65
4,251.57	4.12	175.77	4,248.26	16.94	24.41	-16.78	6.53	-5.23	50.18
4,265.14	2.88	177.59	4,261.80	16.12	24.46	-15.95	9.17	-9.14	13.41
4,278.71	1.63	167.14	4,275.36	15.59	24.52	-15.42	9.66	-9.21	-77.01
4,292.29	1.06	142.19	4,288.94	15.30	24.64	-15.13	5.92	-4.20	-183.73
4,305.86	1.05	136.52	4,302.50	15.11	24.80	-14.94	0.77	-0.07	-41.78
4,319.43	1.05	130.48	4,316.07	14.94	24.98	-14.77	0.82	0.00	-44.51
4,333.00	1.05	124.23	4,329.64	14.79	25.18	-14.62	0.84	0.00	-46.06
4,346.57	1.00	118.32	4,343.21	14.66	25.39	-14.49	0.86	-0.37	-43.55
4,360.14	0.96	112.07	4,356.78	14.56	25.60	-14.39	0.84	-0.29	-46.06
4,373.71	0.98	52.46	4,370.34	14.59	25.80	-14.42	7.11	0.15	-439.28
4,387.29	1.95	26.90	4,383.92	14.87	25.99	-14.69	8.44	7.14	-188.22
4,400.86	1.97	23.63	4,397.48	15.29	26.19	-15.11	0.84	0.15	-24.10
4,414.43	2.00	20.52	4,411.04	15.72	26.37	-15.55	0.82	0.22	-22.92
4,428.00	2.03	17.81	4,424.60	16.17	26.52	-16.00	0.74	0.22	-19.97
4,441.43	2.04	15.75	4,438.03	16.63	26.66	-16.45	0.55	0.07	-15.34
4,454.86	2.04	14.10	4,451.45	17.09	26.78	-16.91	0.44	0.00	-12.29
4,468.29	2.03	12.68	4,464.87	17.56	26.89	-17.38	0.38	-0.07	-10.57
4,481.71	2.02	11.34	4,478.28	18.02	26.99	-17.84	0.36	-0.07	-9.99
4,495.14	2.00	9.94	4,491.70	18.48	27.08	-18.30	0.39	-0.15	-10.42
4,508.57	1.97	8.31	4,505.12	18.94	27.15	-18.76	0.48	-0.22	-12.14
4,522.00	1.94	6.25	4,518.55	19.40	27.21	-19.21	0.57	-0.22	-15.34
4,535.57	1.88	3.33	4,532.11	19.85	27.25	-19.66	0.84	-0.44	-21.52
4,549.14	1.83	352.89	4,545.67	20.29	27.24	-20.10	2.51	-0.37	-76.93
4,562.71	2.20	321.50	4,559.23	20.70	27.05	-20.52	8.45	2.73	-231.32
4,576.29	2.56	314.66	4,572.80	21.12	26.67	-20.94	3.37	2.65	-50.37
4,589.86	2.56	311.51	4,586.36	21.53	26.23	-21.36	1.04	0.00	-23.21
4,603.43	2.56	308.47	4,599.92	21.92	25.76	-21.75	1.00	0.00	-22.40
4,617.00	2.57	305.93	4,613.47	22.29	25.28	-22.12	0.84	0.07	-18.72
4,630.57	2.56	304.36	4,627.03	22.64	24.78	-22.47	0.52	-0.07	-11.57
4,644.14	2.56	303.38	4,640.58	22.98	24.28	-22.81	0.32	0.00	-7.22
4,657.71	2.55	302.80	4,654.14	23.31	23.77	-23.15	0.20	-0.07	-4.27
4,671.29	2.55	302.49	4,667.71	23.63	23.26	-23.48	0.10	0.00	-2.28
4,684.86	2.55	302.35	4,681.26	23.96	22.75	-23.80	0.05	0.00	-1.03
4,698.43	2.55	302.31	4,694.82	24.28	22.24	-24.13	0.01	0.00	-0.29
4,712.00	2.55	302.30	4,708.38	24.60	21.73	-24.46	0.00	0.00	-0.07
4,725.57	2.55	302.24	4,721.93	24.93	21.22	-24.78	0.02	0.00	-0.44
4,739.14	2.55	302.16	4,735.49	25.25	20.71	-25.11	0.03	0.00	-0.59
4,752.71	2.54	302.09	4,749.05	25.57	20.20	-25.43	0.08	-0.07	-0.52
4,766.29	2.54	302.04	4,762.61	25.89	19.69	-25.75	0.02	0.00	-0.37
4,779.86	2.54	302.00	4,776.17	26.21	19.18	-26.08	0.01	0.00	-0.29
4,793.43	2.55	302.00	4,789.73	26.53	18.67	-26.40	0.07	0.07	0.00
4,807.00	2.56	302.03	4,803.28	26.85	18.16	-26.72	0.07	0.07	0.22
4,820.57	2.58	302.15	4,816.84	27.17	17.64	-27.05	0.15	0.15	0.88



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
4,834.14	2.61	302.30	4,830.40	27.50	17.12	-27.38	0.23	0.22	1.11
4,847.71	2.64	302.46	4,843.95	27.83	16.60	-27.72	0.23	0.22	1.18
4,861.29	2.67	302.60	4,857.52	28.17	16.07	-28.06	0.23	0.22	1.03
4,874.86	2.70	302.72	4,871.07	28.51	15.53	-28.41	0.22	0.22	0.88
4,888.43	2.72	302.77	4,884.63	28.86	14.99	-28.76	0.15	0.15	0.37
4,902.00	2.74	302.71	4,898.18	29.21	14.45	-29.11	0.15	0.15	-0.44
4,915.57	2.74	302.48	4,911.74	29.56	13.90	-29.46	0.08	0.00	-1.69
4,929.14	2.73	302.13	4,925.29	29.90	13.36	-29.81	0.14	-0.07	-2.58
4,942.71	2.71	301.74	4,938.85	30.24	12.81	-30.16	0.20	-0.15	-2.87
4,956.29	2.70	301.34	4,952.41	30.58	12.26	-30.50	0.16	-0.07	-2.95
4,969.86	2.68	300.98	4,965.97	30.91	11.72	-30.83	0.19	-0.15	-2.65
4,983.43	2.66	300.71	4,979.52	31.23	11.17	-31.16	0.17	-0.15	-1.99
4,997.00	2.64	300.60	4,993.08	31.55	10.64	-31.48	0.15	-0.15	-0.81
5,010.57	2.62	300.78	5,006.63	31.87	10.10	-31.80	0.16	-0.15	1.33
5,024.14	2.61	301.12	5,020.19	32.19	9.57	-32.12	0.14	-0.07	2.51
5,037.71	2.59	301.56	5,033.74	32.51	9.04	-32.45	0.21	-0.15	3.24
5,051.29	2.58	302.05	5,047.31	32.83	8.52	-32.77	0.18	-0.07	3.61
5,064.86	2.57	302.54	5,060.87	33.16	8.01	-33.10	0.18	-0.07	3.61
5,078.43	2.56	302.98	5,074.42	33.49	7.50	-33.44	0.16	-0.07	3.24
5,092.00	2.55	303.30	5,087.98	33.82	6.99	-33.77	0.13	-0.07	2.36
5,105.57	2.55	303.42	5,101.54	34.15	6.49	-34.11	0.04	0.00	0.88
5,119.14	2.55	303.42	5,115.09	34.48	5.98	-34.44	0.00	0.00	0.00
5,132.71	2.55	303.34	5,128.65	34.81	5.48	-34.78	0.03	0.00	-0.59
5,146.29	2.56	303.20	5,142.22	35.15	4.97	-35.11	0.09	0.07	-1.03
5,159.86	2.57	303.04	5,155.77	35.48	4.46	-35.45	0.09	0.07	-1.18
5,173.43	2.58	302.86	5,169.33	35.81	3.95	-35.78	0.09	0.07	-1.33
5,187.00	2.60	302.69	5,182.88	36.14	3.44	-36.12	0.16	0.15	-1.25
5,200.43	2.62	302.51	5,196.30	36.47	2.92	-36.45	0.16	0.15	-1.34
5,213.86	2.65	302.34	5,209.72	36.80	2.40	-36.79	0.23	0.22	-1.27
5,227.29	2.68	302.17	5,223.13	37.14	1.87	-37.12	0.23	0.22	-1.27
5,240.71	2.70	302.00	5,236.54	37.47	1.34	-37.46	0.16	0.15	-1.27
5,254.14	2.73	301.82	5,249.95	37.81	0.80	-37.80	0.23	0.22	-1.34
5,267.57	2.75	301.63	5,263.37	38.14	0.25	-38.14	0.16	0.15	-1.41
5,281.00	2.76	301.41	5,276.78	38.48	-0.30	-38.48	0.11	0.07	-1.64
5,294.57	2.75	301.16	5,290.34	38.82	-0.86	-38.83	0.12	-0.07	-1.84
5,308.14	2.74	300.88	5,303.89	39.16	-1.41	-39.16	0.12	-0.07	-2.06
5,321.71	2.72	300.60	5,317.44	39.49	-1.97	-39.50	0.18	-0.15	-2.06
5,335.29	2.70	300.31	5,331.01	39.81	-2.52	-39.83	0.18	-0.15	-2.14
5,348.86	2.67	300.04	5,344.56	40.13	-3.07	-40.15	0.24	-0.22	-1.99
5,362.43	2.65	299.81	5,358.12	40.44	-3.62	-40.47	0.17	-0.15	-1.69
5,376.00	2.63	299.64	5,371.68	40.75	-4.16	-40.78	0.16	-0.15	-1.25
5,389.57	2.60	299.59	5,385.23	41.06	-4.70	-41.09	0.22	-0.22	-0.37
5,403.14	2.58	299.61	5,398.79	41.36	-5.23	-41.40	0.15	-0.15	0.15



Phoenix Survey Report



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Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
5,416.71	2.57	299.66	5,412.34	41.66	-5.76	-41.70	0.08	-0.07	0.37
5,430.29	2.55	299.71	5,425.91	41.97	-6.29	-42.01	0.15	-0.15	0.37
5,443.86	2.53	299.73	5,439.47	42.26	-6.81	-42.31	0.15	-0.15	0.15
5,457.43	2.52	299.70	5,453.02	42.56	-7.33	-42.61	0.07	-0.07	-0.22
5,471.00	2.51	299.57	5,466.58	42.85	-7.85	-42.91	0.08	-0.07	-0.96
5,484.57	2.50	299.28	5,480.14	43.15	-8.36	-43.20	0.12	-0.07	-2.14
5,498.14	2.50	298.88	5,493.69	43.43	-8.88	-43.49	0.13	0.00	-2.95
5,511.71	2.49	298.42	5,507.25	43.72	-9.40	-43.78	0.16	-0.07	-3.39
5,525.29	2.49	297.90	5,520.82	43.99	-9.92	-44.06	0.17	0.00	-3.83
5,538.86	2.49	297.36	5,534.38	44.27	-10.44	-44.34	0.17	0.00	-3.98
5,552.43	2.49	296.78	5,547.93	44.54	-10.97	-44.61	0.19	0.00	-4.27
5,566.00	2.50	296.17	5,561.49	44.80	-11.50	-44.88	0.21	0.07	-4.50
5,579.57	2.50	295.52	5,575.05	45.06	-12.03	-45.14	0.21	0.00	-4.79
5,593.14	2.50	294.88	5,588.60	45.31	-12.56	-45.39	0.21	0.00	-4.72
5,606.71	2.51	294.28	5,602.16	45.56	-13.10	-45.64	0.21	0.07	-4.42
5,620.29	2.52	293.77	5,615.73	45.80	-13.65	-45.89	0.18	0.07	-3.76
5,633.86	2.52	293.40	5,629.29	46.04	-14.20	-46.13	0.12	0.00	-2.73
5,647.43	2.53	293.26	5,642.84	46.27	-14.74	-46.37	0.09	0.07	-1.03
5,661.00	2.53	293.45	5,656.40	46.51	-15.29	-46.61	0.06	0.00	1.40
5,674.57	2.53	294.17	5,669.96	46.75	-15.84	-46.86	0.23	0.00	5.31
5,688.14	2.54	295.21	5,683.51	47.00	-16.39	-47.11	0.35	0.07	7.66
5,701.71	2.54	296.40	5,697.07	47.27	-16.93	-47.38	0.39	0.00	8.77
5,715.29	2.55	297.65	5,710.64	47.54	-17.47	-47.66	0.42	0.07	9.20
5,728.86	2.56	298.82	5,724.19	47.83	-18.00	-47.95	0.39	0.07	8.62
5,742.43	2.57	299.81	5,737.75	48.12	-18.53	-48.25	0.33	0.07	7.30
5,756.00	2.72	309.30	5,751.30	48.48	-19.04	-48.61	3.41	1.11	69.93
5,769.57	3.06	320.95	5,764.86	48.96	-19.52	-49.10	4.99	2.51	85.85
5,783.14	3.09	320.94	5,778.41	49.53	-19.98	-49.66	0.22	0.22	-0.07
5,796.71	3.12	320.78	5,791.96	50.10	-20.44	-50.24	0.23	0.22	-1.18
5,810.29	3.16	320.54	5,805.52	50.68	-20.91	-50.82	0.31	0.29	-1.77
5,823.86	3.20	320.28	5,819.07	51.26	-21.39	-51.40	0.31	0.29	-1.92
5,837.43	3.23	320.05	5,832.61	51.84	-21.88	-51.99	0.24	0.22	-1.69
5,851.00	3.25	319.89	5,846.16	52.43	-22.37	-52.58	0.16	0.15	-1.18
5,864.57	3.25	319.87	5,859.71	53.02	-22.87	-53.17	0.01	0.00	-0.15
5,878.14	3.25	319.95	5,873.26	53.60	-23.36	-53.76	0.03	0.00	0.59
5,891.71	3.24	320.08	5,886.81	54.19	-23.86	-54.35	0.09	-0.07	0.96
5,905.29	3.22	320.23	5,900.37	54.78	-24.35	-54.94	0.16	-0.15	1.10
5,918.86	3.21	320.37	5,913.91	55.37	-24.83	-55.53	0.09	-0.07	1.03
5,932.43	3.20	320.49	5,927.46	55.95	-25.32	-56.12	0.09	-0.07	0.88
5,946.00	3.13	327.50	5,941.01	56.55	-25.76	-56.73	2.90	-0.52	51.66
5,959.57	3.00	338.47	5,954.56	57.20	-26.09	-57.37	4.42	-0.96	80.84
5,973.14	3.01	338.33	5,968.11	57.86	-26.35	-58.04	0.09	0.07	-1.03
5,986.71	3.02	338.14	5,981.67	58.52	-26.61	-58.70	0.10	0.07	-1.40



Phoenix Survey Report



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Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)	
6,000.29	3.03	337.92	5,995.23	59.19	-26.88	-59.37	0.11	0.07	-1.62	
6,013.86	3.04	337.71	6,008.78	59.85	-27.15	-60.03	0.11	0.07	-1.55	
6,027.43	3.05	337.51	6,022.33	60.52	-27.43	-60.70	0.11	0.07	-1.47	
6,041.00	3.06	337.34	6,035.88	61.19	-27.71	-61.37	0.10	0.07	-1.25	
6,054.57	3.06	337.26	6,049.43	61.85	-27.98	-62.04	0.03	0.00	-0.59	
6,068.14	3.07	337.21	6,062.98	62.52	-28.27	-62.71	0.08	0.07	-0.37	
6,081.71	3.07	337.19	6,076.53	63.19	-28.55	-63.38	0.01	0.00	-0.15	
6,095.29	3.07	337.18	6,090.09	63.86	-28.83	-64.06	0.00	0.00	-0.07	
6,108.86	3.07	337.16	6,103.64	64.53	-29.11	-64.73	0.01	0.00	-0.15	
6,122.43	3.07	337.13	6,117.19	65.20	-29.39	-65.40	0.01	0.00	-0.22	
6,136.00	3.08	337.07	6,130.74	65.87	-29.68	-66.07	0.08	0.07	-0.44	
6,149.57	3.09	336.95	6,144.29	66.55	-29.96	-66.75	0.09	0.07	-0.88	
6,163.14	3.10	336.80	6,157.84	67.22	-30.25	-67.42	0.09	0.07	-1.11	
6,176.71	3.12	336.63	6,171.39	67.90	-30.54	-68.10	0.16	0.15	-1.25	
6,190.29	3.14	336.45	6,184.95	68.58	-30.84	-68.78	0.16	0.15	-1.33	
6,203.86	3.15	336.28	6,198.50	69.26	-31.13	-69.47	0.10	0.07	-1.25	
6,217.43	3.16	336.11	6,212.05	69.94	-31.44	-70.15	0.10	0.07	-1.25	
6,231.00	3.17	335.96	6,225.60	70.63	-31.74	-70.84	0.10	0.07	-1.11	
6,244.57	3.17	335.84	6,239.15	71.31	-32.05	-71.53	0.05	0.00	-0.88	
6,258.14	3.16	335.74	6,252.70	71.99	-32.35	-72.21	0.08	-0.07	-0.74	
6,271.71	3.15	335.64	6,266.25	72.68	-32.66	-72.89	0.08	-0.07	-0.74	
6,285.29	3.14	335.55	6,279.81	73.35	-32.97	-73.57	0.08	-0.07	-0.66	
6,298.86	3.13	335.45	6,293.36	74.03	-33.28	-74.25	0.08	-0.07	-0.74	
6,312.43	3.12	335.34	6,306.91	74.70	-33.58	-74.93	0.09	-0.07	-0.81	
6,326.00	3.12	335.20	6,320.46	75.37	-33.89	-75.60	0.06	0.00	-1.03	
6,339.57	3.11	335.02	6,334.01	76.04	-34.20	-76.27	0.10	-0.07	-1.33	
6,353.14	3.11	334.81	6,347.56	76.71	-34.52	-76.94	0.08	0.00	-1.55	
6,366.71	3.11	334.62	6,361.11	77.37	-34.83	-77.61	0.08	0.00	-1.40	
6,380.29	3.12	334.45	6,374.67	78.04	-35.15	-78.28	0.10	0.07	-1.25	
6,393.86	3.13	334.33	6,388.22	78.71	-35.47	-78.94	0.09	0.07	-0.88	
6,407.43	3.15	334.30	6,401.77	79.38	-35.79	-79.62	0.15	0.15	-0.22	
6,421.00	3.17	334.41	6,415.32	80.05	-36.11	-80.29	0.15	0.15	0.81	
6,434.57	3.20	334.74	6,428.87	80.73	-36.44	-80.98	0.26	0.22	2.43	
6,448.14	3.24	335.17	6,442.42	81.42	-36.76	-81.67	0.34	0.29	3.17	
6,461.71	3.29	335.65	6,455.96	82.13	-37.08	-82.37	0.42	0.37	3.54	
6,475.29	3.33	336.11	6,469.52	82.84	-37.40	-83.09	0.35	0.29	3.39	
6,488.86	3.38	336.50	6,483.07	83.57	-37.72	-83.82	0.41	0.37	2.87	
6,502.43	3.42	336.78	6,496.61	84.31	-38.04	-84.56	0.32	0.29	2.06	
6,516.00	3.69	347.61	6,510.16	85.11	-38.29	-85.36	5.32	1.99	79.81	
6,529.57	4.11	1.70	6,523.70	86.02	-38.37	-86.28	7.69	3.10	103.83	
6,543.14	4.13	1.43	6,537.23	86.99	-38.35	-87.25	0.21	0.15	-1.99	
6,556.71	4.16	1.05	6,550.77	87.97	-38.33	-88.23	0.30	0.22	-2.80	
6,570.29	4.18	0.63	6,564.31	88.96	-38.31	-89.22	0.27	0.15	-3.09	
6,583.86	4.20	0.21	6,577.84	89.95	-38.30	-90.21	0.27	0.15	-3.10	



Phoenix Survey Report



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Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
6,597.43	4.21	359.82	6,591.38	90.95	-38.30	-91.20	0.22	0.07	-2.87
6,611.00	4.22	359.51	6,604.91	91.94	-38.31	-92.20	0.18	0.07	-2.28
6,624.57	4.21	359.36	6,618.44	92.94	-38.32	-93.20	0.11	-0.07	-1.11
6,638.14	4.19	359.31	6,631.98	93.94	-38.33	-94.19	0.15	-0.15	-0.37
6,651.71	4.16	359.32	6,645.51	94.92	-38.34	-95.18	0.22	-0.22	0.07
6,665.29	4.14	359.38	6,659.06	95.91	-38.35	-96.16	0.15	-0.15	0.44
6,678.86	4.11	359.46	6,672.59	96.88	-38.36	-97.14	0.23	-0.22	0.59
6,692.43	4.09	359.55	6,686.13	97.85	-38.37	-98.11	0.15	-0.15	0.66
6,706.00	4.08	359.64	6,699.66	98.82	-38.38	-99.08	0.09	-0.07	0.66
6,719.57	4.08	359.72	6,713.20	99.78	-38.38	-100.04	0.04	0.00	0.59
6,733.14	4.09	359.79	6,726.73	100.75	-38.39	-101.01	0.08	0.07	0.52
6,746.71	4.10	359.84	6,740.27	101.72	-38.39	-101.98	0.08	0.07	0.37
6,760.29	4.11	359.87	6,753.81	102.69	-38.39	-102.95	0.08	0.07	0.22
6,773.86	4.13	359.87	6,767.35	103.67	-38.40	-103.92	0.15	0.15	0.00
6,787.43	4.13	359.82	6,780.88	104.64	-38.40	-104.90	0.03	0.00	-0.37
6,801.00	4.13	359.72	6,794.42	105.62	-38.40	-105.88	0.05	0.00	-0.74
6,814.57	4.11	359.53	6,807.95	106.60	-38.41	-106.85	0.18	-0.15	-1.40
6,828.14	4.08	359.27	6,821.49	107.57	-38.42	-107.82	0.26	-0.22	-1.92
6,841.71	4.05	358.97	6,835.02	108.53	-38.43	-108.78	0.27	-0.22	-2.21
6,855.29	4.01	358.63	6,848.57	109.48	-38.45	-109.74	0.34	-0.29	-2.50
6,868.86	3.98	358.28	6,862.11	110.43	-38.48	-110.68	0.28	-0.22	-2.58
6,882.43	3.94	357.91	6,875.64	111.36	-38.51	-111.62	0.35	-0.29	-2.73
6,896.00	3.91	357.53	6,889.18	112.29	-38.55	-112.55	0.29	-0.22	-2.80
6,909.57	3.88	357.18	6,902.72	113.21	-38.59	-113.47	0.28	-0.22	-2.58
6,923.14	3.86	356.84	6,916.26	114.13	-38.64	-114.39	0.22	-0.15	-2.51
6,936.71	3.85	356.49	6,929.80	115.04	-38.69	-115.30	0.19	-0.07	-2.58
6,950.29	3.84	356.15	6,943.35	115.95	-38.75	-116.21	0.18	-0.07	-2.50
6,963.86	3.82	355.81	6,956.89	116.85	-38.81	-117.11	0.22	-0.15	-2.51
6,977.43	3.82	355.48	6,970.43	117.75	-38.88	-118.01	0.16	0.00	-2.43
6,991.00	3.81	355.16	6,983.97	118.65	-38.95	-118.91	0.17	-0.07	-2.36
7,004.43	3.81	354.86	6,997.37	119.54	-39.03	-119.80	0.15	0.00	-2.23
7,017.86	3.81	354.58	7,010.77	120.43	-39.11	-120.69	0.14	0.00	-2.08
7,031.29	3.82	354.32	7,024.17	121.32	-39.20	-121.58	0.15	0.07	-1.94
7,044.71	3.82	354.08	7,037.56	122.21	-39.29	-122.47	0.12	0.00	-1.79
7,058.14	3.83	353.89	7,050.96	123.10	-39.39	-123.36	0.12	0.07	-1.41
7,071.57	3.83	353.74	7,064.36	123.99	-39.48	-124.26	0.07	0.00	-1.12
7,085.00	3.83	353.66	7,077.76	124.88	-39.58	-125.15	0.04	0.00	-0.60
7,098.57	3.83	353.70	7,091.30	125.78	-39.68	-126.05	0.02	0.00	0.29
7,112.14	3.83	353.80	7,104.84	126.69	-39.78	-126.95	0.05	0.00	0.74
7,125.71	3.82	353.95	7,118.38	127.59	-39.88	-127.85	0.10	-0.07	1.11
7,139.29	3.81	354.11	7,131.93	128.48	-39.97	-128.75	0.11	-0.07	1.18
7,152.86	3.80	354.26	7,145.47	129.38	-40.06	-129.65	0.10	-0.07	1.11
7,166.43	3.79	354.39	7,159.01	130.27	-40.15	-130.54	0.10	-0.07	0.96



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
7,180.00	3.77	354.45	7,172.55	131.16	-40.24	-131.43	0.15	-0.15	0.44
7,193.57	3.75	354.40	7,186.09	132.05	-40.32	-132.32	0.15	-0.15	-0.37
7,207.14	3.72	354.27	7,199.63	132.93	-40.41	-133.20	0.23	-0.22	-0.96
7,220.71	3.70	354.10	7,213.17	133.80	-40.50	-134.07	0.17	-0.15	-1.25
7,234.29	3.67	353.87	7,226.73	134.67	-40.59	-134.94	0.25	-0.22	-1.69
7,247.86	3.65	353.61	7,240.27	135.53	-40.68	-135.80	0.19	-0.15	-1.92
7,261.43	3.62	353.31	7,253.81	136.39	-40.78	-136.66	0.26	-0.22	-2.21
7,275.00	3.60	352.96	7,267.35	137.24	-40.88	-137.51	0.22	-0.15	-2.58
7,288.57	3.57	352.55	7,280.90	138.08	-40.99	-138.35	0.29	-0.22	-3.02
7,302.14	3.55	352.10	7,294.44	138.91	-41.10	-139.19	0.25	-0.15	-3.32
7,315.71	3.54	351.64	7,307.98	139.74	-41.22	-140.02	0.22	-0.07	-3.39
7,329.29	3.52	351.18	7,321.54	140.57	-41.35	-140.84	0.26	-0.15	-3.39
7,342.86	3.51	350.76	7,335.08	141.39	-41.48	-141.67	0.20	-0.07	-3.10
7,356.43	3.50	350.39	7,348.63	142.21	-41.61	-142.49	0.18	-0.07	-2.73
7,370.00	3.50	350.12	7,362.17	143.03	-41.75	-143.30	0.12	0.00	-1.99
7,383.57	3.50	349.99	7,375.72	143.84	-41.90	-144.12	0.06	0.00	-0.96
7,397.14	3.51	349.97	7,389.26	144.66	-42.04	-144.94	0.07	0.07	-0.15
7,410.71	3.52	350.04	7,402.81	145.48	-42.19	-145.76	0.08	0.07	0.52
7,424.29	3.53	350.20	7,416.36	146.30	-42.33	-146.58	0.10	0.07	1.18
7,437.86	3.54	350.45	7,429.90	147.13	-42.47	-147.41	0.14	0.07	1.84
7,451.43	3.55	350.82	7,443.45	147.95	-42.61	-148.24	0.18	0.07	2.73
7,465.00	3.56	351.35	7,456.99	148.78	-42.74	-149.07	0.25	0.07	3.91
7,478.57	3.74	350.09	7,470.54	149.64	-42.88	-149.92	1.45	1.33	-9.29
7,492.14	3.97	354.86	7,484.07	150.54	-43.00	-150.83	2.91	1.69	35.15
7,505.71	3.96	355.89	7,497.61	151.48	-43.07	-151.76	0.53	-0.07	7.59
7,519.29	3.95	357.00	7,511.16	152.41	-43.13	-152.70	0.57	-0.07	8.17
7,532.86	3.94	358.12	7,524.70	153.34	-43.17	-153.63	0.57	-0.07	8.25
7,546.43	3.93	359.19	7,538.24	154.27	-43.19	-154.56	0.55	-0.07	7.89
7,560.00	3.95	0.38	7,551.77	155.21	-43.19	-155.49	0.62	0.15	8.77
7,573.57	4.07	2.12	7,565.31	156.16	-43.17	-156.44	1.26	0.88	12.82
7,587.14	4.33	4.69	7,578.84	157.15	-43.11	-157.43	2.36	1.92	18.94
7,600.71	4.31	5.02	7,592.38	158.17	-43.03	-158.45	0.24	-0.15	2.43
7,614.29	4.29	5.28	7,605.92	159.18	-42.94	-159.47	0.21	-0.15	1.91
7,627.86	4.26	5.48	7,619.45	160.19	-42.84	-160.47	0.25	-0.22	1.47
7,641.43	4.24	5.62	7,632.98	161.19	-42.74	-161.47	0.17	-0.15	1.03
7,655.00	4.21	5.69	7,646.52	162.18	-42.64	-162.47	0.22	-0.22	0.52
7,668.57	4.17	5.69	7,660.05	163.17	-42.55	-163.45	0.29	-0.29	0.00
7,682.14	4.13	5.63	7,673.58	164.15	-42.45	-164.43	0.30	-0.29	-0.44
7,695.71	4.09	5.53	7,687.12	165.11	-42.36	-165.40	0.30	-0.29	-0.74
7,709.29	4.05	5.40	7,700.66	166.07	-42.26	-166.36	0.30	-0.29	-0.96
7,722.86	4.01	5.25	7,714.20	167.02	-42.17	-167.30	0.30	-0.29	-1.11
7,736.43	3.97	5.08	7,727.74	167.96	-42.09	-168.24	0.31	-0.29	-1.25
7,750.00	3.93	4.90	7,741.28	168.90	-42.01	-169.17	0.31	-0.29	-1.33



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
7,763.57	3.90	4.75	7,754.81	169.82	-41.93	-170.10	0.23	-0.22	-1.11
7,777.14	3.86	4.60	7,768.35	170.73	-41.86	-171.01	0.30	-0.29	-1.11
7,790.71	3.83	4.46	7,781.89	171.64	-41.78	-171.92	0.23	-0.22	-1.03
7,804.29	3.80	4.31	7,795.44	172.54	-41.71	-172.82	0.23	-0.22	-1.10
7,817.86	3.77	4.18	7,808.98	173.44	-41.65	-173.71	0.23	-0.22	-0.96
7,831.43	3.74	4.07	7,822.52	174.32	-41.58	-174.60	0.23	-0.22	-0.81
7,845.00	3.71	4.00	7,836.06	175.20	-41.52	-175.48	0.22	-0.22	-0.52
7,858.57	3.69	3.99	7,849.61	176.07	-41.46	-176.35	0.15	-0.15	-0.07
7,872.14	3.67	4.03	7,863.15	176.94	-41.40	-177.22	0.15	-0.15	0.29
7,885.71	3.66	4.08	7,876.69	177.81	-41.34	-178.08	0.08	-0.07	0.37
7,899.29	3.64	4.15	7,890.24	178.67	-41.28	-178.95	0.15	-0.15	0.52
7,912.86	3.63	4.21	7,903.79	179.53	-41.21	-179.80	0.08	-0.07	0.44
7,926.43	3.62	4.28	7,917.33	180.38	-41.15	-180.66	0.08	-0.07	0.52
7,940.00	3.61	4.34	7,930.87	181.24	-41.09	-181.51	0.08	-0.07	0.44
7,953.57	3.61	4.38	7,944.41	182.09	-41.02	-182.36	0.02	0.00	0.29
7,967.14	3.61	4.41	7,957.96	182.94	-40.96	-183.21	0.01	0.00	0.22
7,980.71	3.61	4.42	7,971.50	183.79	-40.89	-184.07	0.00	0.00	0.07
7,994.29	3.61	4.40	7,985.05	184.65	-40.82	-184.92	0.01	0.00	-0.15
8,007.86	3.61	4.33	7,998.60	185.50	-40.76	-185.77	0.03	0.00	-0.52
8,021.43	3.61	4.21	8,012.14	186.35	-40.70	-186.62	0.06	0.00	-0.88
8,035.00	3.61	4.01	8,025.68	187.20	-40.63	-187.47	0.09	0.00	-1.47
8,048.57	3.60	3.68	8,039.23	188.05	-40.58	-188.32	0.17	-0.07	-2.43
8,062.14	3.59	3.28	8,052.77	188.90	-40.53	-189.17	0.20	-0.07	-2.95
8,075.71	3.57	2.84	8,066.31	189.75	-40.48	-190.02	0.25	-0.15	-3.24
8,089.29	3.56	2.37	8,079.87	190.59	-40.44	-190.86	0.23	-0.07	-3.46
8,102.86	3.54	1.92	8,093.41	191.43	-40.41	-191.70	0.25	-0.15	-3.32
8,116.43	3.52	1.50	8,106.96	192.27	-40.39	-192.54	0.24	-0.15	-3.10
8,130.00	3.51	1.17	8,120.50	193.10	-40.37	-193.37	0.17	-0.07	-2.43
8,143.43	3.49	1.00	8,133.90	193.92	-40.35	-194.19	0.17	-0.15	-1.27
8,156.86	3.48	0.92	8,147.31	194.74	-40.34	-195.00	0.08	-0.07	-0.60
8,170.29	3.47	0.87	8,160.72	195.55	-40.32	-195.82	0.08	-0.07	-0.37
8,183.71	3.46	0.83	8,174.11	196.36	-40.31	-196.63	0.08	-0.07	-0.30
8,197.14	3.45	0.76	8,187.52	197.17	-40.30	-197.44	0.08	-0.07	-0.52
8,210.57	3.45	0.63	8,200.92	197.98	-40.29	-198.24	0.06	0.00	-0.97
8,224.00	3.44	0.39	8,214.33	198.78	-40.28	-199.05	0.13	-0.07	-1.79
8,237.57	3.44	359.97	8,227.87	199.60	-40.28	-199.87	0.19	0.00	-3.10
8,251.14	3.45	359.43	8,241.42	200.41	-40.29	-200.68	0.25	0.07	-3.98
8,264.71	3.45	358.82	8,254.96	201.23	-40.30	-201.50	0.27	0.00	-4.50
8,278.29	3.46	358.17	8,268.52	202.05	-40.32	-202.32	0.30	0.07	-4.79
8,291.86	3.46	357.48	8,282.06	202.87	-40.35	-203.13	0.31	0.00	-5.08
8,305.43	3.46	356.77	8,295.61	203.69	-40.39	-203.95	0.32	0.00	-5.23
8,319.00	3.46	356.05	8,309.16	204.50	-40.44	-204.77	0.32	0.00	-5.31
8,332.57	3.45	355.34	8,322.70	205.32	-40.50	-205.59	0.32	-0.07	-5.23
8,346.14	3.43	354.65	8,336.25	206.13	-40.58	-206.40	0.34	-0.15	-5.08



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
8,359.71	3.41	353.97	8,349.79	206.93	-40.66	-207.20	0.33	-0.15	-5.01
8,373.29	3.39	353.34	8,363.35	207.74	-40.75	-208.01	0.31	-0.15	-4.64
8,386.86	3.36	352.78	8,376.89	208.53	-40.84	-208.80	0.33	-0.22	-4.13
8,400.43	3.33	352.32	8,390.44	209.31	-40.94	-209.58	0.30	-0.22	-3.39
8,414.00	3.30	352.04	8,403.99	210.09	-41.05	-210.36	0.25	-0.22	-2.06
8,427.57	3.27	352.07	8,417.54	210.86	-41.16	-211.13	0.22	-0.22	0.22
8,441.14	3.23	352.27	8,431.08	211.62	-41.26	-211.90	0.31	-0.29	1.47
8,454.71	3.19	352.57	8,444.63	212.38	-41.36	-212.65	0.32	-0.29	2.21
8,468.29	3.15	352.91	8,458.19	213.12	-41.46	-213.40	0.33	-0.29	2.50
8,481.86	3.11	353.23	8,471.74	213.86	-41.55	-214.13	0.32	-0.29	2.36
8,495.43	3.07	353.48	8,485.29	214.58	-41.63	-214.86	0.31	-0.29	1.84
8,509.00	3.02	358.68	8,498.84	215.30	-41.68	-215.58	2.07	-0.37	38.32
8,522.57	3.11	10.68	8,512.39	216.02	-41.62	-216.30	4.77	0.66	88.43
8,536.14	3.19	15.48	8,525.94	216.75	-41.45	-217.02	2.03	0.59	35.37
8,549.71	3.17	15.02	8,539.49	217.47	-41.26	-217.75	0.24	-0.15	-3.39
8,563.29	3.14	14.50	8,553.05	218.20	-41.06	-218.47	0.31	-0.22	-3.83
8,576.86	3.10	13.95	8,566.60	218.91	-40.88	-219.18	0.37	-0.29	-4.05
8,590.43	3.07	13.44	8,580.15	219.62	-40.71	-219.89	0.30	-0.22	-3.76
8,604.00	3.03	13.02	8,593.70	220.32	-40.54	-220.59	0.34	-0.29	-3.10
8,617.57	2.98	12.84	8,607.25	221.02	-40.39	-221.28	0.37	-0.37	-1.33
8,631.14	2.93	12.75	8,620.81	221.70	-40.23	-221.97	0.37	-0.37	-0.66
8,644.71	2.87	12.70	8,634.36	222.37	-40.08	-222.63	0.44	-0.44	-0.37
8,658.29	2.81	12.59	8,647.92	223.03	-39.93	-223.29	0.44	-0.44	-0.81
8,671.86	2.74	12.35	8,661.48	223.67	-39.79	-223.93	0.52	-0.52	-1.77
8,685.43	2.67	11.87	8,675.03	224.29	-39.66	-224.56	0.54	-0.52	-3.54
8,699.00	2.59	10.98	8,688.59	224.90	-39.53	-225.16	0.66	-0.59	-6.56
8,712.57	2.51	9.37	8,702.14	225.50	-39.43	-225.76	0.79	-0.59	-11.86
8,726.14	2.43	7.25	8,715.70	226.08	-39.34	-226.34	0.89	-0.59	-15.62
8,739.71	2.34	4.74	8,729.26	226.64	-39.28	-226.90	1.02	-0.66	-18.50
8,753.29	2.27	1.96	8,742.83	227.18	-39.25	-227.44	0.97	-0.52	-20.47
8,766.86	2.22	359.07	8,756.39	227.71	-39.24	-227.97	0.91	-0.37	-21.30
8,780.43	2.18	356.27	8,769.95	228.23	-39.27	-228.49	0.85	-0.29	-20.63
8,794.00	2.17	353.86	8,783.51	228.75	-39.31	-229.01	0.68	-0.07	-17.76
8,807.57	2.17	352.15	8,797.07	229.26	-39.37	-229.52	0.48	0.00	-12.60
8,821.14	2.20	350.79	8,810.63	229.77	-39.45	-230.03	0.44	0.22	-10.02
8,834.71	2.24	349.67	8,824.19	230.29	-39.54	-230.55	0.43	0.29	-8.25
8,848.29	2.29	348.72	8,837.76	230.81	-39.64	-231.08	0.46	0.37	-7.00
8,861.86	2.35	347.86	8,851.32	231.35	-39.75	-231.61	0.51	0.44	-6.34
8,875.43	2.40	347.04	8,864.87	231.90	-39.87	-232.16	0.45	0.37	-6.04
8,889.00	2.45	346.22	8,878.43	232.46	-40.01	-232.72	0.45	0.37	-6.04
8,902.57	2.66	353.68	8,891.99	233.05	-40.11	-233.32	2.90	1.55	54.97
8,916.14	2.66	353.54	8,905.54	233.68	-40.18	-233.95	0.05	0.00	-1.03
8,929.71	2.69	352.58	8,919.10	234.31	-40.26	-234.57	0.40	0.22	-7.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
8,943.29	2.72	351.62	8,932.66	234.94	-40.34	-235.21	0.40	0.22	-7.07
8,956.86	2.74	350.70	8,946.22	235.58	-40.44	-235.85	0.35	0.15	-6.78
8,970.43	2.76	349.86	8,959.77	236.22	-40.55	-236.49	0.33	0.15	-6.19
8,984.00	2.76	349.13	8,973.33	236.87	-40.67	-237.13	0.26	0.00	-5.38
8,997.43	2.74	348.60	8,986.74	237.50	-40.80	-237.77	0.24	-0.15	-3.95
9,010.86	2.70	348.20	9,000.16	238.12	-40.93	-238.39	0.33	-0.30	-2.98
9,024.29	2.66	347.87	9,013.57	238.74	-41.06	-239.01	0.32	-0.30	-2.46
9,037.71	2.61	347.56	9,026.98	239.34	-41.19	-239.61	0.39	-0.37	-2.31
9,051.14	2.56	347.25	9,040.39	239.93	-41.32	-240.20	0.39	-0.37	-2.31
9,064.57	2.51	346.91	9,053.81	240.51	-41.45	-240.78	0.39	-0.37	-2.53
9,078.00	2.47	346.49	9,067.23	241.08	-41.59	-241.35	0.33	-0.30	-3.13
9,091.57	2.43	345.89	9,080.79	241.64	-41.72	-241.92	0.35	-0.29	-4.42
9,105.14	2.40	345.19	9,094.34	242.19	-41.87	-242.47	0.31	-0.22	-5.16
9,118.71	2.37	344.40	9,107.90	242.74	-42.02	-243.02	0.33	-0.22	-5.82
9,132.29	2.34	343.50	9,121.47	243.28	-42.17	-243.55	0.35	-0.22	-6.63
9,145.86	2.31	342.50	9,135.03	243.80	-42.33	-244.08	0.37	-0.22	-7.37
9,159.43	2.27	341.34	9,148.59	244.32	-42.50	-244.60	0.45	-0.29	-8.55
9,173.00	2.22	339.98	9,162.15	244.82	-42.67	-245.10	0.54	-0.37	-10.02
9,186.57	2.16	338.39	9,175.71	245.30	-42.86	-245.59	0.63	-0.44	-11.72
9,200.14	2.09	336.56	9,189.27	245.77	-43.05	-246.05	0.72	-0.52	-13.49
9,213.71	2.01	334.54	9,202.83	246.21	-43.25	-246.50	0.79	-0.59	-14.89
9,227.29	1.94	332.39	9,216.40	246.63	-43.46	-246.92	0.75	-0.52	-15.83
9,240.86	1.87	330.17	9,229.97	247.02	-43.68	-247.31	0.75	-0.52	-16.36
9,254.43	1.81	328.02	9,243.53	247.40	-43.90	-247.69	0.67	-0.44	-15.84
9,268.00	1.76	326.13	9,257.09	247.75	-44.13	-248.05	0.57	-0.37	-13.93
9,281.57	1.73	325.04	9,270.66	248.09	-44.36	-248.39	0.33	-0.22	-8.03
9,295.14	1.70	324.28	9,284.22	248.43	-44.60	-248.72	0.28	-0.22	-5.60
9,308.71	1.68	323.69	9,297.78	248.75	-44.83	-249.05	0.20	-0.15	-4.35
9,322.29	1.67	323.16	9,311.36	249.07	-45.07	-249.37	0.14	-0.07	-3.90
9,335.86	1.66	322.58	9,324.92	249.38	-45.31	-249.68	0.14	-0.07	-4.27
9,349.43	1.65	321.82	9,338.49	249.69	-45.55	-249.99	0.18	-0.07	-5.60
9,363.00	2.30	329.61	9,352.05	250.08	-45.81	-250.38	5.17	4.79	57.41
9,376.57	2.89	338.20	9,365.60	250.63	-46.07	-250.94	5.20	4.35	63.30
9,390.14	2.88	337.07	9,379.16	251.26	-46.33	-251.57	0.43	-0.07	-8.33
9,403.71	2.86	335.81	9,392.71	251.89	-46.60	-252.20	0.49	-0.15	-9.29
9,417.29	2.84	334.49	9,406.27	252.50	-46.89	-252.81	0.51	-0.15	-9.72
9,430.86	2.82	333.17	9,419.83	253.10	-47.18	-253.41	0.50	-0.15	-9.73
9,444.43	2.80	331.92	9,433.38	253.69	-47.49	-254.01	0.48	-0.15	-9.21
9,458.00	2.77	330.82	9,446.93	254.27	-47.81	-254.59	0.45	-0.22	-8.11
9,471.57	2.73	330.10	9,460.49	254.84	-48.13	-255.16	0.39	-0.29	-5.31
9,485.14	2.68	329.57	9,474.04	255.39	-48.45	-255.71	0.41	-0.37	-3.91
9,498.71	2.62	329.16	9,487.60	255.93	-48.77	-256.25	0.46	-0.44	-3.02
9,512.29	2.57	328.82	9,501.17	256.46	-49.08	-256.78	0.39	-0.37	-2.50



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
9,525.86	2.51	328.51	9,514.72	256.97	-49.40	-257.30	0.45	-0.44	-2.28
9,539.43	2.46	328.17	9,528.28	257.47	-49.71	-257.80	0.38	-0.37	-2.51
9,553.00	2.42	327.77	9,541.84	257.96	-50.01	-258.29	0.32	-0.29	-2.95
9,566.57	2.38	327.23	9,555.39	258.44	-50.32	-258.77	0.34	-0.29	-3.98
9,580.14	2.36	326.59	9,568.95	258.91	-50.62	-259.25	0.24	-0.15	-4.72
9,593.71	2.33	325.89	9,582.51	259.37	-50.93	-259.71	0.31	-0.22	-5.16
9,607.29	2.32	325.13	9,596.08	259.83	-51.24	-260.17	0.24	-0.07	-5.60
9,620.86	2.30	324.31	9,609.64	260.27	-51.56	-260.61	0.28	-0.15	-6.04
9,634.43	2.29	323.42	9,623.20	260.71	-51.88	-261.06	0.27	-0.07	-6.56
9,648.00	2.28	322.46	9,636.76	261.14	-52.21	-261.49	0.29	-0.07	-7.07
9,661.43	2.27	321.40	9,650.18	261.56	-52.54	-261.91	0.32	-0.07	-7.89
9,674.86	2.26	320.28	9,663.60	261.98	-52.87	-262.33	0.34	-0.07	-8.34
9,688.29	2.26	319.12	9,677.02	262.38	-53.21	-262.73	0.34	0.00	-8.64
9,701.71	2.25	317.94	9,690.43	262.77	-53.56	-263.13	0.35	-0.07	-8.79
9,715.14	2.24	316.75	9,703.85	263.16	-53.92	-263.52	0.35	-0.07	-8.86
9,728.57	2.23	315.58	9,717.27	263.54	-54.28	-263.90	0.35	-0.07	-8.71
9,742.00	2.21	314.45	9,730.69	263.91	-54.65	-264.27	0.36	-0.15	-8.41
9,755.57	2.18	313.44	9,744.25	264.27	-55.02	-264.63	0.36	-0.22	-7.44
9,769.14	2.14	312.46	9,757.81	264.62	-55.40	-264.98	0.40	-0.29	-7.22
9,782.71	2.10	311.47	9,771.37	264.95	-55.77	-265.32	0.40	-0.29	-7.30
9,796.29	2.06	310.41	9,784.94	265.28	-56.14	-265.65	0.41	-0.29	-7.81
9,809.86	2.01	309.24	9,798.50	265.58	-56.51	-265.96	0.48	-0.37	-8.62
9,823.43	1.96	307.90	9,812.06	265.88	-56.88	-266.25	0.50	-0.37	-9.87
9,837.00	1.91	306.28	9,825.62	266.15	-57.25	-266.53	0.55	-0.37	-11.94
9,850.57	1.86	304.33	9,839.19	266.41	-57.61	-266.79	0.60	-0.37	-14.37
9,864.14	1.80	302.07	9,852.75	266.65	-57.97	-267.03	0.69	-0.44	-16.65
9,877.71	1.75	299.56	9,866.31	266.86	-58.33	-267.25	0.68	-0.37	-18.50
9,891.29	1.71	296.88	9,879.89	267.06	-58.70	-267.45	0.66	-0.29	-19.73
9,904.86	1.67	294.10	9,893.45	267.23	-59.06	-267.62	0.67	-0.29	-20.49
9,918.43	1.64	291.31	9,907.01	267.38	-59.42	-267.78	0.63	-0.22	-20.56
9,932.00	1.61	288.63	9,920.58	267.51	-59.78	-267.91	0.60	-0.22	-19.75
9,945.57	1.58	286.47	9,934.14	267.63	-60.14	-268.03	0.50	-0.22	-15.92
9,959.14	1.56	284.49	9,947.71	267.73	-60.50	-268.13	0.43	-0.15	-14.59
9,972.71	1.54	282.66	9,961.27	267.81	-60.85	-268.22	0.39	-0.15	-13.49
9,986.29	1.53	280.99	9,974.85	267.89	-61.21	-268.29	0.34	-0.07	-12.30
9,999.86	1.52	279.49	9,988.41	267.95	-61.57	-268.36	0.30	-0.07	-11.05
10,013.43	1.53	278.22	10,001.98	268.01	-61.92	-268.42	0.26	0.07	-9.36
10,027.00	1.54	277.27	10,015.54	268.06	-62.28	-268.47	0.20	0.07	-7.00
10,040.57	1.57	276.76	10,029.11	268.10	-62.65	-268.52	0.24	0.22	-3.76
10,054.14	1.61	276.49	10,042.67	268.14	-63.02	-268.56	0.30	0.29	-1.99
10,067.71	1.66	276.32	10,056.24	268.19	-63.41	-268.61	0.37	0.37	-1.25
10,081.29	1.70	276.12	10,069.81	268.23	-63.80	-268.65	0.30	0.29	-1.47
10,094.86	1.73	275.80	10,083.38	268.27	-64.21	-268.70	0.23	0.22	-2.36
10,108.43	1.75	275.22	10,096.94	268.31	-64.62	-268.74	0.20	0.15	-4.27



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
10,122.00	1.76	274.22	10,110.50	268.35	-65.03	-268.78	0.24	0.07	-7.37
10,135.57	1.73	272.34	10,124.07	268.37	-65.44	-268.81	0.48	-0.22	-13.85
10,149.14	1.69	269.86	10,137.63	268.38	-65.85	-268.82	0.62	-0.29	-18.28
10,162.71	1.64	266.91	10,151.20	268.37	-66.24	-268.81	0.73	-0.37	-21.74
10,176.29	1.59	263.61	10,164.77	268.34	-66.62	-268.78	0.78	-0.37	-24.30
10,189.86	1.55	260.13	10,178.34	268.28	-66.99	-268.73	0.76	-0.29	-25.64
10,203.43	1.52	256.66	10,191.90	268.21	-67.35	-268.66	0.72	-0.22	-25.57
10,217.00	1.50	253.50	10,205.47	268.12	-67.69	-268.57	0.63	-0.15	-23.29
10,230.57	1.48	251.17	10,219.03	268.01	-68.03	-268.46	0.47	-0.15	-17.17
10,244.14	1.48	249.21	10,232.60	267.89	-68.36	-268.35	0.37	0.00	-14.44
10,257.71	1.48	247.57	10,246.16	267.76	-68.68	-268.22	0.31	0.00	-12.09
10,271.29	1.49	246.22	10,259.74	267.63	-69.01	-268.08	0.27	0.07	-9.94
10,284.86	1.50	245.14	10,273.30	267.48	-69.33	-267.94	0.22	0.07	-7.96
10,298.43	1.51	244.35	10,286.87	267.33	-69.65	-267.79	0.17	0.07	-5.82
10,312.00	1.52	243.90	10,300.43	267.17	-69.98	-267.64	0.11	0.07	-3.32
10,325.57	1.52	243.91	10,314.00	267.01	-70.30	-267.48	0.00	0.00	0.07
10,339.14	1.52	244.21	10,327.56	266.85	-70.62	-267.32	0.06	0.00	2.21
10,352.71	1.51	244.74	10,341.13	266.70	-70.95	-267.17	0.13	-0.07	3.91
10,366.29	1.50	245.44	10,354.70	266.55	-71.27	-267.02	0.15	-0.07	5.15
10,379.86	1.48	246.25	10,368.27	266.41	-71.59	-266.88	0.21	-0.15	5.97
10,393.43	1.47	247.14	10,381.84	266.27	-71.91	-266.75	0.18	-0.07	6.56
10,407.00	1.44	248.08	10,395.40	266.14	-72.23	-266.62	0.28	-0.22	6.93
10,420.57	1.41	248.78	10,408.97	266.01	-72.55	-266.50	0.26	-0.22	5.16
10,434.14	1.37	249.48	10,422.53	265.89	-72.85	-266.38	0.32	-0.29	5.16
10,447.71	1.33	250.23	10,436.10	265.78	-73.15	-266.27	0.32	-0.29	5.53
10,461.29	1.29	251.08	10,449.68	265.68	-73.45	-266.17	0.33	-0.29	6.26
10,474.86	1.25	252.06	10,463.24	265.59	-73.73	-266.08	0.34	-0.29	7.22
10,488.43	1.21	253.23	10,476.81	265.50	-74.01	-265.99	0.35	-0.29	8.62
10,502.00	1.18	254.64	10,490.38	265.42	-74.28	-265.92	0.31	-0.22	10.39
10,515.57	1.15	256.17	10,503.94	265.35	-74.55	-265.85	0.32	-0.22	11.27
10,529.14	1.13	257.96	10,517.51	265.29	-74.81	-265.79	0.30	-0.15	13.19
10,542.71	1.11	259.98	10,531.08	265.24	-75.07	-265.74	0.33	-0.15	14.89
10,556.29	1.10	262.21	10,544.66	265.20	-75.33	-265.70	0.33	-0.07	16.42
10,569.86	1.09	264.66	10,558.22	265.17	-75.59	-265.67	0.35	-0.07	18.05
10,583.43	1.08	267.35	10,571.79	265.15	-75.84	-265.66	0.38	-0.07	19.82
10,597.00	1.08	270.35	10,585.36	265.15	-76.10	-265.65	0.42	0.00	22.11
10,610.43	1.06	273.64	10,598.79	265.16	-76.35	-265.66	0.48	-0.15	24.50
10,623.86	1.05	277.22	10,612.21	265.18	-76.60	-265.69	0.50	-0.07	26.66
10,637.29	1.03	280.94	10,625.64	265.22	-76.84	-265.73	0.52	-0.15	27.70
10,650.71	1.03	284.64	10,639.06	265.27	-77.07	-265.78	0.50	0.00	27.57
10,664.14	1.02	288.14	10,652.49	265.34	-77.30	-265.85	0.47	-0.07	26.06
10,677.57	1.05	293.22	10,665.92	265.42	-77.53	-265.94	0.72	0.22	37.83
10,691.00	1.08	296.89	10,679.34	265.53	-77.76	-266.05	0.55	0.22	27.33



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
10,704.57	1.07	299.00	10,692.91	265.65	-77.98	-266.17	0.30	-0.07	15.55
10,718.14	1.05	300.98	10,706.48	265.77	-78.20	-266.30	0.31	-0.15	14.59
10,731.71	1.04	302.84	10,720.05	265.91	-78.41	-266.43	0.26	-0.07	13.71
10,745.29	1.03	304.59	10,733.62	266.04	-78.61	-266.57	0.24	-0.07	12.89
10,758.86	1.01	306.21	10,747.19	266.18	-78.81	-266.71	0.26	-0.15	11.94
10,772.43	1.00	307.67	10,760.76	266.32	-79.00	-266.85	0.20	-0.07	10.76
10,786.00	1.01	309.23	10,774.33	266.47	-79.19	-267.00	0.21	0.07	11.50
10,799.57	0.99	310.00	10,787.90	266.62	-79.37	-267.15	0.18	-0.15	5.67
10,813.14	1.02	308.10	10,801.46	266.77	-79.55	-267.30	0.33	0.22	-14.00
10,826.71	1.05	306.22	10,815.03	266.92	-79.75	-267.45	0.33	0.22	-13.85
10,840.29	1.08	304.45	10,828.61	267.07	-79.95	-267.60	0.33	0.22	-13.03
10,853.86	1.12	302.78	10,842.18	267.21	-80.17	-267.75	0.38	0.29	-12.31
10,867.43	1.16	301.21	10,855.74	267.35	-80.40	-267.89	0.37	0.29	-11.57
10,881.00	1.19	299.73	10,869.31	267.50	-80.64	-268.03	0.31	0.22	-10.91
10,894.57	1.20	297.92	10,882.88	267.63	-80.89	-268.17	0.29	0.07	-13.34
10,908.14	1.22	295.63	10,896.44	267.76	-81.14	-268.30	0.39	0.15	-16.88
10,921.71	1.24	293.12	10,910.01	267.88	-81.41	-268.42	0.42	0.15	-18.50
10,935.29	1.28	290.55	10,923.59	267.99	-81.69	-268.54	0.51	0.29	-18.92
10,948.86	1.31	288.06	10,937.15	268.09	-81.98	-268.64	0.47	0.22	-18.35
10,962.43	1.34	285.70	10,950.72	268.18	-82.28	-268.73	0.46	0.22	-17.39
10,976.00	1.37	283.53	10,964.29	268.27	-82.59	-268.82	0.44	0.22	-15.99
10,991.00	1.37	281.23	10,979.28	268.34	-82.94	-268.90	0.37	0.00	-15.33
11,006.00	1.37	279.15	10,994.28	268.41	-83.29	-268.96	0.33	0.00	-13.87
11,021.00	1.38	277.15	11,009.27	268.46	-83.65	-269.01	0.33	0.07	-13.33
11,036.00	1.42	275.13	11,024.27	268.50	-84.01	-269.06	0.42	0.27	-13.47
11,051.00	1.50	273.02	11,039.27	268.52	-84.39	-269.09	0.64	0.53	-14.07
11,064.71	1.65	270.47	11,052.97	268.53	-84.77	-269.10	1.21	1.09	-18.60
11,078.43	1.82	268.08	11,066.68	268.53	-85.18	-269.10	1.35	1.24	-17.42
11,092.14	2.00	265.94	11,080.39	268.50	-85.64	-269.08	1.41	1.31	-15.61
11,105.86	2.13	263.94	11,094.10	268.46	-86.13	-269.03	1.08	0.95	-14.58
11,119.57	2.20	261.82	11,107.80	268.40	-86.64	-268.97	0.78	0.51	-15.46
11,133.29	1.67	264.90	11,121.51	268.34	-87.10	-268.92	3.94	-3.86	22.45
11,147.00	1.39	260.66	11,135.21	268.30	-87.47	-268.88	2.20	-2.04	-30.93
11,160.57	0.92	250.92	11,148.78	268.23	-87.73	-268.82	3.74	-3.46	-71.78
11,174.14	0.43	218.61	11,162.35	268.16	-87.87	-268.74	4.44	-3.61	-238.10
11,187.71	1.45	162.45	11,175.92	267.95	-87.85	-268.54	9.30	7.52	-413.85
11,201.29	3.74	155.45	11,189.48	267.39	-87.61	-267.97	16.99	16.86	-51.55
11,214.86	5.72	148.34	11,203.01	266.41	-87.07	-266.99	15.19	14.59	-52.39
11,228.43	8.63	152.42	11,216.47	264.93	-86.25	-265.51	21.76	21.44	30.07
11,242.00	11.91	152.84	11,229.82	262.78	-85.14	-263.35	24.18	24.17	3.10
11,255.57	15.11	150.76	11,243.01	259.99	-83.63	-260.55	23.85	23.58	-15.33
11,269.14	18.45	151.06	11,256.00	256.57	-81.73	-257.11	24.62	24.61	2.21
11,282.71	21.72	149.02	11,268.75	252.54	-79.40	-253.07	24.64	24.10	-15.03



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)	
11,296.29	24.51	150.00	11,281.24	247.94	-76.69	-248.45	20.74	20.54	7.22	
11,309.86	24.92	147.66	11,293.56	243.09	-73.76	-243.58	7.82	3.02	-17.24	
11,323.43	27.46	147.68	11,305.74	238.03	-70.55	-238.50	18.72	18.72	0.15	
11,337.00	30.62	146.59	11,317.60	232.50	-66.98	-232.94	23.61	23.29	-8.03	
11,350.57	33.47	145.21	11,329.10	226.54	-62.94	-226.96	21.68	21.00	-10.17	
11,364.14	33.46	146.02	11,340.42	220.36	-58.71	-220.75	3.29	-0.07	5.97	
11,377.71	32.80	144.63	11,351.79	214.26	-54.49	-214.63	7.42	-4.86	-10.24	
11,391.29	34.40	146.05	11,363.10	208.08	-50.22	-208.42	13.13	11.78	10.46	
11,404.86	36.78	148.90	11,374.13	201.42	-45.98	-201.73	21.37	17.54	21.00	
11,418.43	37.78	151.83	11,384.93	194.28	-41.92	-194.56	15.01	7.37	21.59	
11,432.00	36.91	154.01	11,395.72	186.95	-38.17	-187.20	11.66	-6.41	16.06	
11,445.57	36.36	156.41	11,406.61	179.60	-34.78	-179.83	11.30	-4.05	17.69	
11,459.14	36.69	160.29	11,417.52	172.10	-31.80	-172.31	17.19	2.43	28.59	
11,472.71	38.16	165.56	11,428.30	164.22	-29.39	-164.41	25.96	10.83	38.84	
11,486.29	37.62	167.83	11,439.01	156.10	-27.47	-156.29	11.01	-3.98	16.72	
11,499.86	39.19	169.38	11,449.65	147.84	-25.80	-148.01	13.57	11.57	11.42	
11,513.43	41.06	173.02	11,460.02	139.20	-24.47	-139.36	22.10	13.78	26.82	
11,527.00	43.24	176.85	11,470.09	130.13	-23.67	-130.29	24.83	16.06	28.22	
11,530.51	43.78	177.71	11,472.63	127.72	-23.56	-127.88	22.99	15.52	24.64	
SL: 11530.51' MD, 43.78° Inc										
11,540.57	45.38	180.10	11,479.80	120.66	-23.43	-120.82	22.99	15.86	23.71	
11,554.14	47.73	182.53	11,489.13	110.81	-23.66	-110.97	21.65	17.32	17.91	
11,567.71	49.89	183.59	11,498.06	100.62	-24.20	-100.78	16.97	15.92	7.81	
11,581.29	49.08	183.36	11,506.89	90.31	-24.83	-90.48	6.10	-5.96	-1.69	
11,594.86	50.65	182.27	11,515.63	79.95	-25.34	-80.12	13.10	11.57	-8.03	
11,608.43	51.14	180.48	11,524.19	69.42	-25.59	-69.59	10.85	3.61	-13.19	
11,622.00	50.38	180.12	11,532.78	58.91	-25.65	-59.09	5.97	-5.60	-2.65	
11,635.57	51.02	178.61	11,541.37	48.41	-25.53	-48.59	9.82	4.72	-11.13	
11,649.14	53.18	176.50	11,549.71	37.72	-25.07	-37.89	20.10	15.92	-15.55	
11,661.65	53.39	176.06	11,557.19	27.71	-24.42	-27.88	3.30	1.69	-3.54	
FTP: 11661.65' MD, 53.39° Inc										
11,662.71	53.41	176.02	11,557.82	26.86	-24.36	-27.03	3.30	1.70	-3.53	
11,676.29	53.04	175.89	11,565.95	16.01	-23.59	-16.17	2.83	-2.72	-0.96	
11,689.86	54.75	175.61	11,573.95	5.08	-22.78	-5.23	12.71	12.60	-2.06	
11,703.43	55.95	174.69	11,581.66	-6.04	-21.83	5.90	10.45	8.84	-6.78	
11,717.00	55.90	174.49	11,589.26	-17.23	-20.78	17.09	1.28	-0.37	-1.47	
11,730.57	56.18	174.15	11,596.84	-28.43	-19.66	28.30	2.93	2.06	-2.51	
11,744.14	56.98	173.45	11,604.32	-39.69	-18.44	39.57	7.30	5.90	-5.16	
11,757.71	57.35	173.15	11,611.68	-51.02	-17.11	50.90	3.30	2.73	-2.21	
11,771.29	57.73	172.84	11,618.96	-62.39	-15.71	62.28	3.40	2.80	-2.28	
11,784.86	57.24	173.23	11,626.26	-73.75	-14.32	73.65	4.35	-3.61	2.87	
11,798.43	58.24	173.41	11,633.50	-85.15	-12.99	85.06	7.45	7.37	1.33	
11,812.00	58.56	173.10	11,640.61	-96.62	-11.63	96.54	3.06	2.36	-2.28	
11,825.57	58.77	172.80	11,647.67	-108.13	-10.21	108.06	2.44	1.55	-2.21	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
11,839.14	58.90	172.52	11,654.69	-119.64	-8.72	119.58	2.01	0.96	-2.06
11,852.71	58.98	172.26	11,661.69	-131.17	-7.18	131.11	1.74	0.59	-1.92
11,866.29	59.03	172.01	11,668.69	-142.70	-5.59	142.66	1.62	0.37	-1.84
11,879.86	59.04	171.80	11,675.67	-154.22	-3.95	154.19	1.33	0.07	-1.55
11,893.43	59.03	171.62	11,682.65	-165.73	-2.27	165.71	1.14	-0.07	-1.33
11,907.00	58.97	171.49	11,689.64	-177.24	-0.57	177.23	0.93	-0.44	-0.96
11,920.43	58.87	171.46	11,696.57	-188.61	1.14	188.62	0.77	-0.74	-0.22
11,933.86	58.88	171.47	11,703.51	-199.98	2.84	200.00	0.10	0.07	0.07
11,947.29	60.75	171.41	11,710.27	-211.46	4.57	211.49	13.93	13.92	-0.45
11,960.71	62.75	173.35	11,716.62	-223.18	6.14	223.21	19.60	14.90	14.46
11,974.14	62.89	173.72	11,722.75	-235.05	7.48	235.09	2.66	1.04	2.76
11,987.57	63.40	174.24	11,728.82	-246.96	8.74	247.02	5.13	3.80	3.87
12,001.00	65.74	175.47	11,734.59	-259.04	9.83	259.10	19.29	17.42	9.16
12,014.57	66.74	176.01	11,740.05	-271.43	10.75	271.49	8.22	7.37	3.98
12,028.14	66.50	176.40	11,745.44	-283.86	11.57	283.93	3.18	-1.77	2.87
12,041.71	67.32	177.62	11,750.76	-296.32	12.22	296.40	10.24	6.04	8.99
12,055.29	69.60	178.12	11,755.75	-308.94	12.69	309.02	17.14	16.79	3.68
12,068.86	69.39	178.46	11,760.50	-321.65	13.07	321.73	2.81	-1.55	2.51
12,082.43	70.20	178.79	11,765.19	-334.38	13.38	334.46	6.39	5.97	2.43
12,096.00	71.51	180.35	11,769.64	-347.20	13.47	347.28	14.53	9.65	11.50
12,109.57	72.39	182.22	11,773.84	-360.10	13.18	360.18	14.62	6.48	13.78
12,123.14	72.60	182.18	11,777.92	-373.03	12.69	373.10	1.57	1.55	-0.29
12,136.71	75.36	182.75	11,781.67	-386.06	12.12	386.13	20.74	20.34	4.20
12,150.29	78.38	183.38	11,784.75	-399.26	11.42	399.33	22.69	22.24	4.64
12,163.86	79.28	183.47	11,787.38	-412.55	10.62	412.61	6.66	6.63	0.66
12,177.43	80.19	183.58	11,789.80	-425.88	9.80	425.93	6.75	6.71	0.81
12,191.00	82.60	183.59	11,791.83	-439.27	8.96	439.32	17.76	17.76	0.07
12,204.57	84.38	182.41	11,793.37	-452.73	8.26	452.78	15.71	13.12	-8.70
12,218.14	84.98	183.20	11,794.63	-466.23	7.60	466.27	7.29	4.42	5.82
12,231.71	86.87	184.18	11,795.59	-479.73	6.72	479.77	15.68	13.93	7.22
12,245.29	88.99	183.98	11,796.08	-493.27	5.76	493.30	15.68	15.61	-1.47
12,258.86	88.90	183.91	11,796.33	-506.81	4.83	506.83	0.84	-0.66	-0.52
12,272.43	88.81	183.83	11,796.60	-520.34	3.91	520.36	0.89	-0.66	-0.59
12,286.00	88.74	183.74	11,796.89	-533.88	3.01	533.89	0.84	-0.52	-0.66
12,298.00	88.70	183.63	11,797.16	-545.85	2.24	545.85	0.98	-0.33	-0.92
12,310.00	88.68	183.53	11,797.44	-557.82	1.49	557.82	0.85	-0.17	-0.83
12,322.00	88.67	183.44	11,797.71	-569.80	0.76	569.79	0.75	-0.08	-0.75
12,334.00	88.68	183.37	11,797.99	-581.77	0.05	581.76	0.59	0.08	-0.58
12,348.75	88.70	183.35	11,798.33	-596.50	-0.81	596.48	0.19	0.14	-0.14
12,363.50	88.72	183.36	11,798.66	-611.22	-1.68	611.19	0.15	0.14	0.07
12,378.25	88.74	183.39	11,798.99	-625.94	-2.54	625.91	0.24	0.14	0.20
12,393.00	88.75	183.41	11,799.31	-640.66	-3.42	640.62	0.15	0.07	0.14
12,406.57	88.73	183.42	11,799.61	-654.20	-4.23	654.16	0.16	-0.15	0.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
12,420.14	88.69	183.41	11,799.91	-667.74	-5.03	667.69	0.30	-0.29	-0.07
12,433.71	88.66	183.39	11,800.23	-681.29	-5.84	681.23	0.27	-0.22	-0.15
12,447.29	88.73	183.37	11,800.54	-694.84	-6.64	694.78	0.54	0.52	-0.15
12,460.86	88.79	183.33	11,800.83	-708.38	-7.43	708.32	0.53	0.44	-0.29
12,474.43	88.78	183.28	11,801.12	-721.93	-8.21	721.85	0.38	-0.07	-0.37
12,488.00	88.76	183.22	11,801.41	-735.47	-8.98	735.39	0.47	-0.15	-0.44
12,501.57	88.70	183.13	11,801.71	-749.02	-9.73	748.93	0.80	-0.44	-0.66
12,515.14	88.60	183.03	11,802.03	-762.56	-10.46	762.48	1.04	-0.74	-0.74
12,528.71	88.50	182.91	11,802.37	-776.11	-11.17	776.02	1.15	-0.74	-0.88
12,542.29	88.45	182.78	11,802.73	-789.67	-11.84	789.57	1.03	-0.37	-0.96
12,555.86	88.48	182.62	11,803.10	-803.22	-12.48	803.12	1.20	0.22	-1.18
12,569.43	88.49	182.43	11,803.46	-816.77	-13.08	816.66	1.40	0.07	-1.40
12,583.00	88.47	182.20	11,803.82	-830.33	-13.62	830.22	1.70	-0.15	-1.69
12,596.43	88.42	181.91	11,804.18	-843.74	-14.11	843.63	2.19	-0.37	-2.16
12,609.86	88.46	181.48	11,804.55	-857.16	-14.50	857.04	3.21	0.30	-3.20
12,623.29	88.76	180.77	11,804.87	-870.58	-14.77	870.47	5.74	2.23	-5.29
12,636.71	89.05	180.05	11,805.13	-884.00	-14.86	883.88	5.78	2.16	-5.37
12,650.14	89.04	179.33	11,805.35	-897.43	-14.79	897.31	5.36	-0.07	-5.36
12,663.57	88.71	178.69	11,805.62	-910.85	-14.56	910.74	5.36	-2.46	-4.77
12,677.00	89.13	178.02	11,805.87	-924.28	-14.17	924.16	5.89	3.13	-4.99
12,690.57	89.35	177.28	11,806.05	-937.83	-13.62	937.72	5.69	1.62	-5.45
12,704.14	89.11	176.74	11,806.23	-951.38	-12.91	951.28	4.35	-1.77	-3.98
12,717.71	89.21	176.30	11,806.43	-964.93	-12.09	964.82	3.32	0.74	-3.24
12,731.29	89.30	175.88	11,806.61	-978.48	-11.16	978.38	3.16	0.66	-3.09
12,744.86	89.21	175.39	11,806.78	-992.00	-10.13	991.91	3.67	-0.66	-3.61
12,758.43	89.10	174.92	11,806.98	-1,005.52	-8.98	1,005.44	3.56	-0.81	-3.46
12,772.00	89.06	174.57	11,807.20	-1,019.04	-7.74	1,018.96	2.60	-0.29	-2.58
12,785.57	89.28	174.27	11,807.40	-1,032.54	-6.42	1,032.47	2.74	1.62	-2.21
12,799.14	89.24	174.00	11,807.57	-1,046.04	-5.03	1,045.98	2.01	-0.29	-1.99
12,812.71	89.03	173.76	11,807.78	-1,059.53	-3.59	1,059.48	2.35	-1.55	-1.77
12,826.29	88.85	173.67	11,808.03	-1,073.03	-2.10	1,072.99	1.48	-1.33	-0.66
12,839.86	88.80	173.85	11,808.31	-1,086.51	-0.62	1,086.48	1.38	-0.37	1.33
12,853.43	88.73	174.02	11,808.60	-1,100.00	0.81	1,099.98	1.35	-0.52	1.25
12,867.00	88.69	174.21	11,808.91	-1,113.50	2.20	1,113.49	1.43	-0.29	1.40
12,880.57	88.74	174.39	11,809.21	-1,127.00	3.55	1,127.00	1.38	0.37	1.33
12,894.14	88.87	174.57	11,809.49	-1,140.50	4.85	1,140.51	1.64	0.96	1.33
12,907.71	89.08	174.77	11,809.74	-1,154.01	6.11	1,154.03	2.14	1.55	1.47
12,921.29	89.31	175.00	11,809.93	-1,167.54	7.32	1,167.56	2.40	1.69	1.69
12,934.86	89.52	175.22	11,810.07	-1,181.06	8.48	1,181.09	2.24	1.55	1.62
12,948.43	89.72	175.45	11,810.16	-1,194.58	9.58	1,194.62	2.25	1.47	1.69
12,962.00	89.86	175.74	11,810.21	-1,208.11	10.63	1,208.15	2.37	1.03	2.14
12,975.43	89.91	176.11	11,810.23	-1,221.51	11.58	1,221.56	2.78	0.37	2.76
12,988.86	89.94	176.52	11,810.25	-1,234.91	12.44	1,234.96	3.06	0.22	3.05
13,002.29	89.93	176.95	11,810.26	-1,248.32	13.21	1,248.38	3.20	-0.07	3.20



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
13,015.71	89.71	177.39	11,810.31	-1,261.72	13.87	1,261.78	3.67	-1.64	3.28
13,029.14	89.73	177.69	11,810.37	-1,275.14	14.45	1,275.21	2.24	0.15	2.23
13,042.57	89.93	177.85	11,810.41	-1,288.56	14.97	1,288.63	1.91	1.49	1.19
13,056.00	90.03	178.22	11,810.42	-1,301.98	15.43	1,302.05	2.85	0.74	2.76
13,069.57	90.11	178.52	11,810.40	-1,315.54	15.82	1,315.62	2.29	0.59	2.21
13,083.14	90.20	178.68	11,810.36	-1,329.11	16.15	1,329.19	1.35	0.66	1.18
13,096.71	90.27	178.80	11,810.31	-1,342.68	16.45	1,342.76	1.02	0.52	0.88
13,110.29	90.33	178.90	11,810.24	-1,356.25	16.72	1,356.33	0.86	0.44	0.74
13,123.86	90.40	179.01	11,810.15	-1,369.82	16.97	1,369.90	0.96	0.52	0.81
13,137.43	90.42	179.21	11,810.05	-1,383.39	17.18	1,383.47	1.48	0.15	1.47
13,151.00	90.49	179.40	11,809.95	-1,396.96	17.34	1,397.04	1.49	0.52	1.40
13,164.57	90.68	179.45	11,809.81	-1,410.53	17.48	1,410.61	1.45	1.40	0.37
13,178.14	90.80	179.43	11,809.63	-1,424.09	17.61	1,424.18	0.90	0.88	-0.15
13,191.71	90.93	179.41	11,809.43	-1,437.66	17.75	1,437.75	0.97	0.96	-0.15
13,205.29	91.07	179.38	11,809.19	-1,451.24	17.89	1,451.33	1.05	1.03	-0.22
13,218.86	91.20	179.36	11,808.92	-1,464.81	18.04	1,464.89	0.97	0.96	-0.15
13,232.43	91.21	179.44	11,808.64	-1,478.37	18.18	1,478.46	0.59	0.07	0.59
13,246.00	91.41	179.43	11,808.33	-1,491.94	18.32	1,492.03	1.48	1.47	-0.07
13,259.57	91.21	179.75	11,808.02	-1,505.50	18.41	1,505.59	2.78	-1.47	2.36
13,273.14	90.94	180.06	11,807.76	-1,519.07	18.44	1,519.16	3.03	-1.99	2.28
13,286.71	90.63	180.38	11,807.58	-1,532.64	18.38	1,532.73	3.28	-2.28	2.36
13,300.29	90.33	180.68	11,807.46	-1,546.22	18.26	1,546.31	3.12	-2.21	2.21
13,313.86	90.16	180.55	11,807.40	-1,559.79	18.11	1,559.87	1.58	-1.25	-0.96
13,327.43	89.81	180.68	11,807.41	-1,573.36	17.97	1,573.44	2.75	-2.58	0.96
13,341.00	89.62	180.80	11,807.47	-1,586.93	17.79	1,587.01	1.66	-1.40	0.88
13,354.57	89.50	180.80	11,807.58	-1,600.49	17.60	1,600.58	0.88	-0.88	0.00
13,368.14	89.26	180.69	11,807.73	-1,614.06	17.43	1,614.14	1.95	-1.77	-0.81
13,381.71	89.01	180.55	11,807.93	-1,627.63	17.28	1,627.71	2.11	-1.84	-1.03
13,395.29	88.78	180.40	11,808.19	-1,641.21	17.17	1,641.28	2.02	-1.69	-1.10
13,408.86	88.59	180.25	11,808.50	-1,654.77	17.09	1,654.85	1.78	-1.40	-1.11
13,422.43	88.49	180.19	11,808.85	-1,668.34	17.04	1,668.41	0.86	-0.74	-0.44
13,436.00	88.44	180.14	11,809.21	-1,681.90	17.00	1,681.98	0.52	-0.37	-0.37
13,449.57	88.43	180.15	11,809.58	-1,695.47	16.96	1,695.54	0.10	-0.07	0.07
13,463.14	88.42	180.27	11,809.96	-1,709.03	16.91	1,709.11	0.89	-0.07	0.88
13,476.71	88.39	180.47	11,810.33	-1,722.60	16.83	1,722.67	1.49	-0.22	1.47
13,490.29	88.39	180.68	11,810.72	-1,736.17	16.69	1,736.24	1.55	0.00	1.55
13,503.86	88.47	180.88	11,811.09	-1,749.73	16.51	1,749.81	1.59	0.59	1.47
13,517.43	88.59	181.04	11,811.44	-1,763.30	16.28	1,763.37	1.47	0.88	1.18
13,531.00	88.78	181.13	11,811.75	-1,776.86	16.02	1,776.93	1.55	1.40	0.66
13,544.57	88.92	181.18	11,812.02	-1,790.43	15.75	1,790.49	1.10	1.03	0.37
13,558.14	88.99	181.14	11,812.27	-1,803.99	15.47	1,804.06	0.59	0.52	-0.29
13,571.71	89.05	181.08	11,812.50	-1,817.56	15.21	1,817.62	0.63	0.44	-0.44
13,585.29	89.11	181.00	11,812.72	-1,831.13	14.96	1,831.19	0.74	0.44	-0.59



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
13,598.86	89.16	180.99	11,812.92	-1,844.70	14.73	1,844.76	0.38	0.37	-0.07
13,612.43	89.20	180.98	11,813.12	-1,858.27	14.50	1,858.32	0.30	0.29	-0.07
13,626.00	89.22	181.00	11,813.30	-1,871.83	14.26	1,871.89	0.21	0.15	0.15
13,639.57	89.26	181.05	11,813.48	-1,885.40	14.02	1,885.45	0.47	0.29	0.37
13,653.14	89.22	181.14	11,813.66	-1,898.97	13.76	1,899.02	0.73	-0.29	0.66
13,666.71	89.14	181.27	11,813.86	-1,912.53	13.47	1,912.58	1.12	-0.59	0.96
13,680.29	89.06	181.41	11,814.07	-1,926.11	13.16	1,926.15	1.19	-0.59	1.03
13,693.86	88.99	181.56	11,814.30	-1,939.67	12.80	1,939.71	1.22	-0.52	1.11
13,707.43	88.89	181.70	11,814.55	-1,953.23	12.42	1,953.27	1.27	-0.74	1.03
13,721.00	88.82	181.86	11,814.82	-1,966.79	12.00	1,966.83	1.29	-0.52	1.18
13,734.57	88.87	182.03	11,815.10	-1,980.35	11.54	1,980.38	1.31	0.37	1.25
13,748.14	88.96	182.21	11,815.35	-1,993.91	11.03	1,993.94	1.48	0.66	1.33
13,761.71	89.05	182.41	11,815.59	-2,007.47	10.49	2,007.49	1.62	0.66	1.47
13,775.29	89.14	182.59	11,815.80	-2,021.03	9.90	2,021.05	1.48	0.66	1.33
13,788.86	89.21	182.73	11,816.00	-2,034.59	9.27	2,034.60	1.15	0.52	1.03
13,802.43	89.22	182.78	11,816.19	-2,048.14	8.61	2,048.15	0.38	0.07	0.37
13,816.00	89.16	182.73	11,816.38	-2,061.69	7.96	2,061.70	0.58	-0.44	-0.37
13,829.57	89.08	182.55	11,816.59	-2,075.25	7.34	2,075.25	1.45	-0.59	-1.33
13,843.14	88.90	182.25	11,816.83	-2,088.80	6.77	2,088.80	2.58	-1.33	-2.21
13,856.71	88.61	181.97	11,817.12	-2,102.36	6.27	2,102.35	2.97	-2.14	-2.06
13,870.29	88.31	181.66	11,817.48	-2,115.93	5.84	2,115.92	3.18	-2.21	-2.28
13,883.86	88.18	181.20	11,817.90	-2,129.49	5.50	2,129.48	3.52	-0.96	-3.39
13,897.43	87.93	180.89	11,818.36	-2,143.05	5.25	2,143.03	2.93	-1.84	-2.28
13,911.00	87.73	180.62	11,818.87	-2,156.61	5.07	2,156.59	2.47	-1.47	-1.99
13,924.57	87.68	180.41	11,819.42	-2,170.17	4.95	2,170.15	1.59	-0.37	-1.55
13,938.14	87.65	180.22	11,819.97	-2,183.72	4.88	2,183.71	1.42	-0.22	-1.40
13,951.71	87.58	180.04	11,820.54	-2,197.28	4.85	2,197.26	1.42	-0.52	-1.33
13,965.29	87.53	179.94	11,821.12	-2,210.85	4.85	2,210.83	0.82	-0.37	-0.74
13,978.86	87.50	179.88	11,821.70	-2,224.41	4.87	2,224.39	0.49	-0.22	-0.44
13,992.43	87.63	179.76	11,822.28	-2,237.96	4.91	2,237.95	1.30	0.96	-0.88
14,006.00	87.71	179.64	11,822.83	-2,251.52	4.98	2,251.51	1.06	0.59	-0.88
14,019.57	87.62	179.52	11,823.38	-2,265.08	5.08	2,265.06	1.10	-0.66	-0.88
14,033.14	87.54	179.38	11,823.96	-2,278.64	5.21	2,278.62	1.19	-0.59	-1.03
14,046.71	87.47	179.21	11,824.55	-2,292.19	5.38	2,292.18	1.35	-0.52	-1.25
14,060.29	87.41	179.04	11,825.15	-2,305.76	5.59	2,305.74	1.33	-0.44	-1.25
14,073.86	87.45	178.84	11,825.76	-2,319.31	5.84	2,319.30	1.50	0.29	-1.47
14,087.43	87.52	178.64	11,826.36	-2,332.87	6.14	2,332.86	1.56	0.52	-1.47
14,101.00	87.70	178.38	11,826.92	-2,346.42	6.49	2,346.41	2.33	1.33	-1.92
14,114.43	87.90	178.11	11,827.44	-2,359.83	6.90	2,359.83	2.50	1.49	-2.01
14,127.86	88.10	177.86	11,827.91	-2,373.25	7.37	2,373.24	2.38	1.49	-1.86
14,141.29	88.33	177.63	11,828.33	-2,386.66	7.90	2,386.66	2.42	1.71	-1.71
14,154.71	88.53	177.40	11,828.70	-2,400.06	8.48	2,400.07	2.27	1.49	-1.71
14,168.14	88.79	177.21	11,829.01	-2,413.48	9.11	2,413.48	2.40	1.94	-1.41



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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	89.19	177.09	11,829.25	-2,426.89	9.78	2,426.90	3.11	2.98	-0.89
14,195.00	89.43	177.13	11,829.41	-2,440.30	10.46	2,440.31	1.81	1.79	0.30
14,208.57	89.54	177.34	11,829.53	-2,453.85	11.11	2,453.87	1.75	0.81	1.55
14,222.14	89.66	177.45	11,829.62	-2,467.41	11.73	2,467.43	1.20	0.88	0.81
14,235.71	89.76	177.60	11,829.69	-2,480.96	12.32	2,480.99	1.33	0.74	1.11
14,249.29	89.85	177.77	11,829.74	-2,494.53	12.86	2,494.56	1.42	0.66	1.25
14,262.86	89.87	178.07	11,829.77	-2,508.09	13.36	2,508.13	2.22	0.15	2.21
14,276.43	89.88	178.35	11,829.80	-2,521.66	13.78	2,521.69	2.06	0.07	2.06
14,290.00	89.87	178.57	11,829.83	-2,535.22	14.15	2,535.26	1.62	-0.07	1.62
14,303.57	89.85	178.67	11,829.86	-2,548.79	14.47	2,548.83	0.75	-0.15	0.74
14,317.14	89.83	178.70	11,829.90	-2,562.36	14.78	2,562.40	0.27	-0.15	0.22
14,330.71	89.81	178.69	11,829.95	-2,575.92	15.09	2,575.96	0.16	-0.15	-0.07
14,344.29	89.79	178.65	11,829.99	-2,589.50	15.41	2,589.54	0.33	-0.15	-0.29
14,357.86	89.75	178.56	11,830.05	-2,603.06	15.74	2,603.11	0.73	-0.29	-0.66
14,371.43	89.69	178.44	11,830.11	-2,616.63	16.09	2,616.68	0.99	-0.44	-0.88
14,385.00	89.68	178.33	11,830.19	-2,630.19	16.48	2,630.24	0.81	-0.07	-0.81
14,398.43	89.66	178.27	11,830.27	-2,643.62	16.87	2,643.67	0.47	-0.15	-0.45
14,411.86	89.69	178.25	11,830.34	-2,657.04	17.28	2,657.10	0.27	0.22	-0.15
14,425.29	89.71	178.26	11,830.41	-2,670.46	17.69	2,670.52	0.17	0.15	0.07
14,438.71	89.73	178.27	11,830.48	-2,683.88	18.10	2,683.94	0.17	0.15	0.07
14,452.14	89.76	178.28	11,830.54	-2,697.30	18.50	2,697.37	0.24	0.22	0.07
14,465.57	89.80	178.27	11,830.59	-2,710.73	18.91	2,710.79	0.31	0.30	-0.07
14,479.00	89.84	178.23	11,830.63	-2,724.15	19.32	2,724.22	0.42	0.30	-0.30
14,492.57	89.87	178.15	11,830.67	-2,737.71	19.74	2,737.78	0.63	0.22	-0.59
14,506.14	89.80	178.11	11,830.70	-2,751.28	20.19	2,751.35	0.59	-0.52	-0.29
14,519.71	89.73	178.05	11,830.76	-2,764.84	20.64	2,764.91	0.68	-0.52	-0.44
14,533.29	89.66	177.98	11,830.83	-2,778.41	21.11	2,778.49	0.73	-0.52	-0.52
14,546.86	89.60	177.92	11,830.92	-2,791.97	21.60	2,792.05	0.63	-0.44	-0.44
14,560.43	89.61	177.88	11,831.01	-2,805.53	22.09	2,805.62	0.30	0.07	-0.29
14,574.00	89.67	177.86	11,831.10	-2,819.09	22.60	2,819.18	0.47	0.44	-0.15
14,587.57	89.76	177.85	11,831.17	-2,832.65	23.11	2,832.74	0.67	0.66	-0.07
14,601.14	89.85	177.87	11,831.21	-2,846.21	23.61	2,846.31	0.68	0.66	0.15
14,614.71	89.94	177.94	11,831.24	-2,859.77	24.11	2,859.87	0.84	0.66	0.52
14,628.29	90.03	178.02	11,831.24	-2,873.34	24.59	2,873.44	0.89	0.66	0.59
14,641.86	90.11	178.12	11,831.22	-2,886.91	25.05	2,887.01	0.94	0.59	0.74
14,655.43	90.11	178.21	11,831.20	-2,900.47	25.48	2,900.58	0.66	0.00	0.66
14,669.00	90.09	178.32	11,831.17	-2,914.03	25.89	2,914.14	0.82	-0.15	0.81
14,682.57	89.95	178.43	11,831.17	-2,927.60	26.28	2,927.71	1.31	-1.03	0.81
14,696.14	89.83	178.57	11,831.20	-2,941.16	26.63	2,941.28	1.36	-0.88	1.03
14,709.71	89.78	178.74	11,831.24	-2,954.73	26.95	2,954.84	1.31	-0.37	1.25
14,723.29	89.71	178.91	11,831.30	-2,968.31	27.23	2,968.42	1.35	-0.52	1.25
14,736.86	89.67	179.05	11,831.38	-2,981.87	27.47	2,981.99	1.07	-0.29	1.03
14,750.43	89.62	179.16	11,831.46	-2,995.44	27.68	2,995.56	0.89	-0.37	0.81
14,764.00	89.56	179.21	11,831.56	-3,009.01	27.87	3,009.13	0.58	-0.44	0.37



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
14,777.43	89.47	179.15	11,831.67	-3,022.44	28.07	3,022.56	0.81	-0.67	-0.45
14,790.86	89.37	179.01	11,831.81	-3,035.87	28.28	3,035.99	1.28	-0.74	-1.04
14,804.29	89.27	178.83	11,831.97	-3,049.29	28.54	3,049.42	1.53	-0.74	-1.34
14,817.71	89.17	178.63	11,832.15	-3,062.71	28.83	3,062.83	1.67	-0.75	-1.49
14,831.14	89.07	178.44	11,832.36	-3,076.13	29.18	3,076.26	1.60	-0.74	-1.41
14,844.57	89.00	178.27	11,832.58	-3,089.55	29.56	3,089.68	1.37	-0.52	-1.27
14,858.00	89.00	178.17	11,832.82	-3,102.98	29.98	3,103.11	0.74	0.00	-0.74
14,871.57	89.09	178.17	11,833.04	-3,116.54	30.41	3,116.67	0.66	0.66	0.00
14,885.14	89.20	178.23	11,833.24	-3,130.10	30.84	3,130.24	0.92	0.81	0.44
14,898.71	89.32	178.31	11,833.42	-3,143.66	31.25	3,143.80	1.06	0.88	0.59
14,912.29	89.44	178.41	11,833.57	-3,157.24	31.64	3,157.38	1.15	0.88	0.74
14,925.86	89.54	178.51	11,833.69	-3,170.80	32.00	3,170.94	1.04	0.74	0.74
14,939.43	89.55	178.67	11,833.80	-3,184.37	32.34	3,184.51	1.18	0.07	1.18
14,953.00	89.57	178.74	11,833.90	-3,197.93	32.64	3,198.08	0.54	0.15	0.52
14,966.57	89.58	178.72	11,834.00	-3,211.50	32.94	3,211.65	0.16	0.07	-0.15
14,980.14	89.56	178.73	11,834.10	-3,225.06	33.24	3,225.22	0.16	-0.15	0.07
14,993.71	89.53	178.72	11,834.21	-3,238.63	33.55	3,238.78	0.23	-0.22	-0.07
15,007.29	89.51	178.70	11,834.32	-3,252.21	33.85	3,252.36	0.21	-0.15	-0.15
15,020.86	89.50	178.66	11,834.44	-3,265.77	34.16	3,265.93	0.30	-0.07	-0.29
15,034.43	89.52	178.61	11,834.56	-3,279.34	34.49	3,279.50	0.40	0.15	-0.37
15,048.00	89.57	178.53	11,834.66	-3,292.90	34.83	3,293.06	0.70	0.37	-0.59
15,061.57	89.68	178.42	11,834.75	-3,306.47	35.19	3,306.63	1.15	0.81	-0.81
15,075.14	89.76	178.37	11,834.82	-3,320.03	35.57	3,320.20	0.70	0.59	-0.37
15,088.71	89.83	178.35	11,834.87	-3,333.60	35.96	3,333.76	0.54	0.52	-0.15
15,102.29	89.93	178.32	11,834.90	-3,347.17	36.35	3,347.34	0.77	0.74	-0.22
15,115.86	90.09	178.27	11,834.89	-3,360.74	36.75	3,360.91	1.24	1.18	-0.37
15,129.43	90.28	178.26	11,834.85	-3,374.30	37.17	3,374.47	1.40	1.40	-0.07
15,143.00	90.44	178.28	11,834.77	-3,387.86	37.58	3,388.04	1.19	1.18	0.15
15,156.57	90.54	178.36	11,834.65	-3,401.43	37.97	3,401.61	0.94	0.74	0.59
15,170.14	90.59	178.47	11,834.52	-3,414.99	38.35	3,415.17	0.89	0.37	0.81
15,183.71	90.61	178.59	11,834.37	-3,428.56	38.70	3,428.74	0.90	0.15	0.88
15,197.29	90.62	178.72	11,834.23	-3,442.13	39.01	3,442.32	0.96	0.07	0.96
15,210.86	90.64	178.86	11,834.08	-3,455.70	39.30	3,455.88	1.04	0.15	1.03
15,224.43	90.60	178.98	11,833.93	-3,469.26	39.56	3,469.45	0.93	-0.29	0.88
15,238.00	90.54	179.08	11,833.80	-3,482.83	39.79	3,483.02	0.86	-0.44	0.74
15,251.43	90.48	179.13	11,833.68	-3,496.26	40.00	3,496.45	0.58	-0.45	0.37
15,264.86	90.41	179.15	11,833.57	-3,509.69	40.20	3,509.88	0.54	-0.52	0.15
15,278.29	90.45	179.11	11,833.47	-3,523.12	40.40	3,523.31	0.42	0.30	-0.30
15,291.71	90.50	179.05	11,833.36	-3,536.53	40.62	3,536.73	0.58	0.37	-0.45
15,305.14	90.56	178.99	11,833.24	-3,549.96	40.85	3,550.16	0.63	0.45	-0.45
15,318.57	90.63	178.93	11,833.10	-3,563.39	41.09	3,563.58	0.69	0.52	-0.45
15,332.00	90.66	178.95	11,832.95	-3,576.81	41.34	3,577.01	0.27	0.22	0.15
15,345.57	90.69	179.00	11,832.79	-3,590.38	41.58	3,590.58	0.43	0.22	0.37



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
15,359.14	90.70	179.05	11,832.62	-3,603.95	41.81	3,604.15	0.38	0.07	0.37
15,372.71	90.69	179.09	11,832.46	-3,617.52	42.03	3,617.72	0.30	-0.07	0.29
15,386.29	90.68	179.13	11,832.29	-3,631.09	42.24	3,631.30	0.30	-0.07	0.29
15,399.86	90.66	179.15	11,832.14	-3,644.66	42.45	3,644.86	0.21	-0.15	0.15
15,413.43	90.64	179.13	11,831.98	-3,658.23	42.65	3,658.43	0.21	-0.15	-0.15
15,427.00	90.61	179.06	11,831.83	-3,671.80	42.87	3,672.00	0.56	-0.22	-0.52
15,440.57	90.55	178.88	11,831.70	-3,685.36	43.11	3,685.57	1.40	-0.44	-1.33
15,454.14	90.48	178.65	11,831.57	-3,698.93	43.40	3,699.14	1.77	-0.52	-1.69
15,467.71	90.44	178.44	11,831.47	-3,712.49	43.75	3,712.70	1.58	-0.29	-1.55
15,481.29	90.38	178.23	11,831.37	-3,726.07	44.14	3,726.28	1.61	-0.44	-1.55
15,494.86	90.33	178.02	11,831.28	-3,739.63	44.59	3,739.85	1.59	-0.37	-1.55
15,508.43	90.28	177.85	11,831.21	-3,753.19	45.07	3,753.41	1.31	-0.37	-1.25
15,522.00	90.24	177.72	11,831.15	-3,766.75	45.60	3,766.97	1.00	-0.29	-0.96
15,535.57	90.20	177.65	11,831.10	-3,780.31	46.15	3,780.54	0.59	-0.29	-0.52
15,549.14	90.30	177.65	11,831.04	-3,793.87	46.70	3,794.10	0.74	0.74	0.00
15,562.71	90.47	177.70	11,830.95	-3,807.43	47.25	3,807.66	1.31	1.25	0.37
15,576.29	90.59	177.78	11,830.82	-3,821.00	47.79	3,821.23	1.06	0.88	0.59
15,589.86	90.55	177.93	11,830.69	-3,834.56	48.30	3,834.79	1.14	-0.29	1.11
15,603.43	90.46	178.17	11,830.57	-3,848.12	48.76	3,848.36	1.89	-0.66	1.77
15,617.00	90.37	178.36	11,830.47	-3,861.68	49.17	3,861.92	1.55	-0.66	1.40
15,630.57	90.36	178.44	11,830.38	-3,875.25	49.55	3,875.49	0.59	-0.07	0.59
15,644.14	90.37	178.45	11,830.30	-3,888.81	49.92	3,889.06	0.10	0.07	0.07
15,657.71	90.48	178.53	11,830.20	-3,902.37	50.27	3,902.63	1.00	0.81	0.59
15,671.29	90.60	178.61	11,830.07	-3,915.95	50.61	3,916.20	1.06	0.88	0.59
15,684.86	90.63	178.67	11,829.92	-3,929.52	50.94	3,929.77	0.49	0.22	0.44
15,698.43	90.65	178.71	11,829.77	-3,943.08	51.25	3,943.34	0.33	0.15	0.29
15,712.00	90.67	178.75	11,829.61	-3,956.65	51.55	3,956.90	0.33	0.15	0.29
15,725.57	90.71	178.76	11,829.45	-3,970.21	51.84	3,970.47	0.30	0.29	0.07
15,739.14	90.74	178.75	11,829.28	-3,983.78	52.14	3,984.04	0.23	0.22	-0.07
15,752.71	90.78	178.74	11,829.10	-3,997.34	52.43	3,997.61	0.30	0.29	-0.07
15,766.29	90.80	178.71	11,828.91	-4,010.92	52.74	4,011.18	0.27	0.15	-0.22
15,779.86	90.80	178.68	11,828.72	-4,024.48	53.04	4,024.75	0.22	0.00	-0.22
15,793.43	90.75	178.62	11,828.54	-4,038.05	53.36	4,038.32	0.58	-0.37	-0.44
15,807.00	90.62	178.53	11,828.38	-4,051.61	53.70	4,051.88	1.17	-0.96	-0.66
15,820.43	90.46	178.45	11,828.25	-4,065.04	54.06	4,065.31	1.33	-1.19	-0.60
15,833.86	90.37	178.43	11,828.15	-4,078.46	54.42	4,078.74	0.69	-0.67	-0.15
15,847.29	90.23	178.37	11,828.08	-4,091.89	54.80	4,092.16	1.13	-1.04	-0.45
15,860.71	90.01	178.27	11,828.05	-4,105.30	55.19	4,105.58	1.80	-1.64	-0.75
15,874.14	89.79	178.09	11,828.08	-4,118.73	55.62	4,119.01	2.12	-1.64	-1.34
15,887.57	89.60	178.02	11,828.15	-4,132.15	56.07	4,132.43	1.51	-1.41	-0.52
15,901.00	89.50	178.07	11,828.25	-4,145.57	56.53	4,145.86	0.83	-0.74	0.37
15,914.57	89.54	178.18	11,828.37	-4,159.13	56.97	4,159.42	0.86	0.29	0.81
15,928.14	89.82	178.26	11,828.44	-4,172.69	57.40	4,172.99	2.15	2.06	0.59



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
15,941.71	90.09	178.59	11,828.45	-4,186.26	57.77	4,186.55	3.14	1.99	2.43
15,955.29	90.37	178.93	11,828.40	-4,199.84	58.06	4,200.13	3.24	2.06	2.50
15,968.86	90.53	179.27	11,828.29	-4,213.40	58.28	4,213.70	2.77	1.18	2.51
15,982.43	90.55	179.61	11,828.17	-4,226.97	58.41	4,227.27	2.51	0.15	2.51
15,996.00	90.60	179.71	11,828.03	-4,240.54	58.49	4,240.84	0.82	0.37	0.74
16,009.57	90.47	180.02	11,827.90	-4,254.11	58.52	4,254.41	2.48	-0.96	2.28
16,023.14	90.31	180.18	11,827.81	-4,267.68	58.50	4,267.98	1.67	-1.18	1.18
16,036.71	90.16	180.22	11,827.75	-4,281.25	58.45	4,281.55	1.14	-1.11	0.29
16,050.29	90.06	180.18	11,827.73	-4,294.83	58.40	4,295.13	0.79	-0.74	-0.29
16,063.86	89.76	180.40	11,827.75	-4,308.40	58.33	4,308.70	2.74	-2.21	1.62
16,077.43	89.78	180.52	11,827.80	-4,321.97	58.22	4,322.26	0.90	0.15	0.88
16,091.00	89.59	180.67	11,827.88	-4,335.54	58.08	4,335.83	1.78	-1.40	1.11
16,105.62	89.39	180.73	11,828.01	-4,350.16	57.91	4,350.45	1.43	-1.37	0.41
16,120.23	89.33	180.76	11,828.17	-4,364.77	57.72	4,365.06	0.46	-0.41	0.21
16,134.85	89.31	180.74	11,828.35	-4,379.38	57.52	4,379.67	0.19	-0.14	-0.14
16,149.46	89.29	180.77	11,828.52	-4,393.99	57.33	4,394.28	0.25	-0.14	0.21
16,164.08	89.25	180.81	11,828.71	-4,408.61	57.13	4,408.89	0.39	-0.27	0.27
16,178.69	89.21	180.77	11,828.91	-4,423.22	56.93	4,423.50	0.39	-0.27	-0.27
16,193.31	89.20	180.67	11,829.11	-4,437.83	56.74	4,438.11	0.69	-0.07	-0.68
16,207.92	89.11	180.63	11,829.33	-4,452.44	56.58	4,452.72	0.67	-0.62	-0.27
16,222.54	88.96	180.65	11,829.57	-4,467.06	56.42	4,467.34	1.04	-1.03	0.14
16,237.15	88.80	180.67	11,829.86	-4,481.66	56.25	4,481.94	1.10	-1.10	0.14
16,251.77	88.66	180.67	11,830.18	-4,496.28	56.08	4,496.55	0.96	-0.96	0.00
16,266.38	88.52	180.68	11,830.54	-4,510.88	55.90	4,511.16	0.96	-0.96	0.07
16,281.00	88.47	180.73	11,830.92	-4,525.50	55.72	4,525.77	0.48	-0.34	0.34
16,295.54	88.41	180.66	11,831.32	-4,540.03	55.55	4,540.30	0.63	-0.41	-0.48
16,310.08	88.42	180.55	11,831.72	-4,554.56	55.39	4,554.83	0.76	0.07	-0.76
16,324.62	88.49	180.41	11,832.11	-4,569.10	55.27	4,569.37	1.08	0.48	-0.96
16,339.15	88.42	180.31	11,832.51	-4,583.62	55.18	4,583.89	0.84	-0.48	-0.69
16,353.69	88.30	180.23	11,832.92	-4,598.16	55.11	4,598.42	0.99	-0.83	-0.55
16,368.23	88.17	180.15	11,833.37	-4,612.69	55.06	4,612.96	1.05	-0.89	-0.55
16,382.77	88.04	180.07	11,833.85	-4,627.22	55.04	4,627.49	1.05	-0.89	-0.55
16,397.31	87.92	179.99	11,834.36	-4,641.75	55.03	4,642.02	0.99	-0.83	-0.55
16,411.85	87.81	179.92	11,834.91	-4,656.28	55.04	4,656.55	0.90	-0.76	-0.48
16,426.38	87.71	179.85	11,835.47	-4,670.80	55.07	4,671.07	0.84	-0.69	-0.48
16,440.92	87.62	179.80	11,836.07	-4,685.33	55.11	4,685.59	0.71	-0.62	-0.34
16,455.46	87.57	179.76	11,836.68	-4,699.86	55.17	4,700.12	0.44	-0.34	-0.28
16,470.00	87.55	179.75	11,837.29	-4,714.38	55.23	4,714.65	0.15	-0.14	-0.07
16,484.62	87.59	179.79	11,837.91	-4,728.99	55.29	4,729.26	0.39	0.27	0.27
16,499.23	87.67	179.84	11,838.52	-4,743.59	55.34	4,743.85	0.65	0.55	0.34
16,513.85	87.78	179.92	11,839.10	-4,758.20	55.37	4,758.46	0.93	0.75	0.55
16,528.46	87.90	180.01	11,839.65	-4,772.80	55.38	4,773.06	1.03	0.82	0.62
16,543.08	88.04	180.10	11,840.17	-4,787.41	55.36	4,787.67	1.14	0.96	0.62
16,557.69	88.18	180.19	11,840.65	-4,802.01	55.33	4,802.27	1.14	0.96	0.62



Phoenix Survey Report



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Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
16,572.31	88.32	180.29	11,841.10	-4,816.62	55.27	4,816.88	1.18	0.96	0.68
16,586.92	88.47	180.39	11,841.51	-4,831.23	55.18	4,831.49	1.23	1.03	0.68
16,601.54	88.61	180.48	11,841.88	-4,845.84	55.07	4,846.10	1.14	0.96	0.62
16,616.15	88.75	180.56	11,842.21	-4,860.45	54.94	4,860.71	1.10	0.96	0.55
16,630.77	88.87	180.62	11,842.52	-4,875.06	54.78	4,875.32	0.92	0.82	0.41
16,645.38	88.85	180.66	11,842.81	-4,889.67	54.62	4,889.93	0.31	-0.14	0.27
16,660.00	88.91	180.67	11,843.09	-4,904.28	54.45	4,904.54	0.42	0.41	0.07
16,673.57	88.95	180.63	11,843.35	-4,917.85	54.30	4,918.11	0.42	0.29	-0.29
16,687.14	89.00	180.58	11,843.59	-4,931.42	54.15	4,931.67	0.52	0.37	-0.37
16,700.71	88.98	180.48	11,843.83	-4,944.99	54.03	4,945.24	0.75	-0.15	-0.74
16,714.29	88.95	180.37	11,844.08	-4,958.56	53.93	4,958.81	0.84	-0.22	-0.81
16,727.86	88.92	180.27	11,844.33	-4,972.13	53.85	4,972.38	0.77	-0.22	-0.74
16,741.43	88.90	180.19	11,844.59	-4,985.70	53.80	4,985.95	0.61	-0.15	-0.59
16,755.00	88.88	180.14	11,844.85	-4,999.27	53.76	4,999.51	0.40	-0.15	-0.37
16,769.62	88.88	180.14	11,845.13	-5,013.88	53.72	5,014.13	0.00	0.00	0.00
16,784.23	88.89	180.17	11,845.42	-5,028.49	53.68	5,028.74	0.22	0.07	0.21
16,798.85	88.91	180.23	11,845.70	-5,043.11	53.63	5,043.35	0.43	0.14	0.41
16,813.46	88.94	180.32	11,845.97	-5,057.71	53.56	5,057.96	0.65	0.21	0.62
16,828.08	88.90	180.49	11,846.25	-5,072.33	53.46	5,072.58	1.19	-0.27	1.16
16,842.69	88.91	180.59	11,846.53	-5,086.94	53.32	5,087.18	0.69	0.07	0.68
16,857.31	88.85	180.71	11,846.81	-5,101.55	53.16	5,101.80	0.92	-0.41	0.82
16,871.92	88.88	180.80	11,847.10	-5,116.16	52.96	5,116.40	0.65	0.21	0.62
16,886.54	88.90	180.89	11,847.39	-5,130.78	52.75	5,131.01	0.63	0.14	0.62
16,901.15	88.93	180.98	11,847.66	-5,145.38	52.51	5,145.62	0.65	0.21	0.62
16,908.37	88.94	181.02	11,847.80	-5,152.60	52.38	5,152.83	0.56	0.14	0.55
SL: 16908.37' MD									
16,915.77	88.95	181.06	11,847.93	-5,160.00	52.25	5,160.23	0.56	0.14	0.55
16,930.38	88.96	181.12	11,848.20	-5,174.60	51.97	5,174.83	0.42	0.07	0.41
16,945.00	88.96	181.17	11,848.47	-5,189.22	51.68	5,189.45	0.34	0.00	0.34
16,959.54	88.95	181.18	11,848.73	-5,203.75	51.38	5,203.98	0.10	-0.07	0.07
16,974.08	88.93	181.17	11,849.00	-5,218.28	51.08	5,218.51	0.15	-0.14	-0.07
16,988.62	88.90	181.15	11,849.27	-5,232.82	50.79	5,233.04	0.25	-0.21	-0.14
17,003.15	88.87	181.12	11,849.56	-5,247.34	50.50	5,247.56	0.29	-0.21	-0.21
17,017.69	88.84	181.08	11,849.85	-5,261.88	50.22	5,262.10	0.34	-0.21	-0.28
17,032.23	88.80	181.04	11,850.15	-5,276.41	49.95	5,276.63	0.39	-0.28	-0.28
17,046.77	88.77	181.00	11,850.46	-5,290.95	49.69	5,291.16	0.34	-0.21	-0.28
17,061.31	88.73	180.96	11,850.77	-5,305.48	49.45	5,305.69	0.39	-0.28	-0.28
17,075.85	88.70	180.92	11,851.10	-5,320.02	49.21	5,320.23	0.34	-0.21	-0.28
17,090.38	88.67	180.89	11,851.43	-5,334.54	48.98	5,334.75	0.29	-0.21	-0.21
17,104.92	88.65	180.87	11,851.77	-5,349.07	48.75	5,349.28	0.19	-0.14	-0.14
17,119.46	88.64	180.86	11,852.12	-5,363.61	48.54	5,363.81	0.10	-0.07	-0.07
17,134.00	88.65	180.89	11,852.46	-5,378.14	48.31	5,378.35	0.22	0.07	0.21
17,147.57	88.69	180.96	11,852.78	-5,391.71	48.09	5,391.91	0.59	0.29	0.52



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
17,161.14	88.75	181.05	11,853.08	-5,405.27	47.86	5,405.47	0.80	0.44	0.66
17,174.71	88.81	181.15	11,853.37	-5,418.84	47.60	5,419.03	0.86	0.44	0.74
17,188.29	88.86	181.24	11,853.64	-5,432.41	47.31	5,432.61	0.76	0.37	0.66
17,201.86	88.89	181.31	11,853.91	-5,445.97	47.01	5,446.17	0.56	0.22	0.52
17,215.43	88.89	181.34	11,854.17	-5,459.54	46.70	5,459.73	0.22	0.00	0.22
17,229.00	88.84	181.31	11,854.44	-5,473.10	46.38	5,473.29	0.43	-0.37	-0.22
17,242.43	88.72	181.17	11,854.73	-5,486.53	46.09	5,486.71	1.37	-0.89	-1.04
17,255.86	88.54	180.97	11,855.05	-5,499.95	45.84	5,500.13	2.00	-1.34	-1.49
17,269.29	88.34	180.74	11,855.41	-5,513.37	45.64	5,513.56	2.27	-1.49	-1.71
17,282.71	88.13	180.48	11,855.83	-5,526.79	45.50	5,526.97	2.49	-1.56	-1.94
17,296.14	87.92	180.22	11,856.29	-5,540.21	45.42	5,540.39	2.49	-1.56	-1.94
17,309.57	87.74	180.00	11,856.80	-5,553.63	45.39	5,553.81	2.12	-1.34	-1.64
17,323.00	87.63	179.86	11,857.34	-5,567.05	45.41	5,567.23	1.33	-0.82	-1.04
17,336.57	87.57	179.77	11,857.91	-5,580.61	45.45	5,580.78	0.80	-0.44	-0.66
17,350.14	87.57	179.73	11,858.48	-5,594.16	45.51	5,594.34	0.29	0.00	-0.29
17,363.71	87.59	179.71	11,859.06	-5,607.72	45.58	5,607.90	0.21	0.15	-0.15
17,377.29	87.65	179.71	11,859.62	-5,621.29	45.65	5,621.47	0.44	0.44	0.00
17,390.86	87.68	179.65	11,860.17	-5,634.85	45.72	5,635.03	0.49	0.22	-0.44
17,404.43	87.73	179.58	11,860.72	-5,648.41	45.81	5,648.59	0.63	0.37	-0.52
17,418.00	87.80	179.52	11,861.25	-5,661.97	45.92	5,662.15	0.68	0.52	-0.44
17,431.29	87.89	179.48	11,861.75	-5,675.25	46.03	5,675.43	0.74	0.68	-0.30
17,444.57	88.00	179.44	11,862.22	-5,688.52	46.16	5,688.70	0.88	0.83	-0.30
17,457.86	88.11	179.41	11,862.67	-5,701.80	46.29	5,701.98	0.86	0.83	-0.23
17,471.14	88.22	179.39	11,863.10	-5,715.07	46.43	5,715.25	0.84	0.83	-0.15
17,484.43	88.33	179.38	11,863.50	-5,728.35	46.57	5,728.54	0.83	0.83	-0.08
17,497.71	88.43	179.37	11,863.87	-5,741.63	46.72	5,741.81	0.76	0.75	-0.08
17,511.00	88.50	179.37	11,864.23	-5,754.91	46.87	5,755.10	0.53	0.53	0.00
17,524.57	88.53	179.38	11,864.58	-5,768.48	47.01	5,768.66	0.23	0.22	0.07
17,538.14	88.54	179.40	11,864.93	-5,782.04	47.16	5,782.23	0.16	0.07	0.15
17,551.71	88.53	179.42	11,865.28	-5,795.61	47.30	5,795.79	0.16	-0.07	0.15
17,565.29	88.53	179.45	11,865.62	-5,809.18	47.43	5,809.37	0.22	0.00	0.22
17,578.86	88.55	179.48	11,865.97	-5,822.75	47.56	5,822.93	0.27	0.15	0.22
17,592.43	88.59	179.52	11,866.31	-5,836.31	47.68	5,836.50	0.42	0.29	0.29
17,606.00	88.68	179.56	11,866.63	-5,849.88	47.79	5,850.07	0.73	0.66	0.29
17,619.57	88.80	179.60	11,866.93	-5,863.44	47.88	5,863.63	0.93	0.88	0.29
17,633.14	88.96	179.63	11,867.20	-5,877.01	47.98	5,877.20	1.20	1.18	0.22
17,646.71	89.17	179.67	11,867.42	-5,890.58	48.06	5,890.77	1.58	1.55	0.29
17,660.29	89.40	179.71	11,867.59	-5,904.16	48.13	5,904.35	1.72	1.69	0.29
17,673.86	89.64	179.74	11,867.70	-5,917.73	48.20	5,917.92	1.78	1.77	0.22
17,687.43	89.90	179.77	11,867.76	-5,931.30	48.26	5,931.49	1.93	1.92	0.22
17,701.00	90.25	179.79	11,867.74	-5,944.87	48.31	5,945.06	2.58	2.58	0.15
17,714.43	90.56	179.80	11,867.64	-5,958.30	48.36	5,958.49	2.31	2.31	0.07
17,727.86	90.76	179.80	11,867.49	-5,971.72	48.40	5,971.92	1.49	1.49	0.00
17,741.29	90.83	179.80	11,867.30	-5,985.15	48.45	5,985.34	0.52	0.52	0.00



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
17,754.71	90.89	179.81	11,867.10	-5,998.57	48.49	5,998.76	0.45	0.45	0.07
17,768.14	90.90	179.84	11,866.89	-6,012.00	48.54	6,012.19	0.24	0.07	0.22
17,781.57	90.87	179.90	11,866.68	-6,025.43	48.57	6,025.62	0.50	-0.22	0.45
17,795.00	90.86	179.98	11,866.48	-6,038.86	48.58	6,039.05	0.60	-0.07	0.60
17,808.57	90.85	180.14	11,866.28	-6,052.43	48.57	6,052.62	1.18	-0.07	1.18
17,822.14	90.72	180.25	11,866.09	-6,065.99	48.52	6,066.18	1.25	-0.96	0.81
17,835.71	90.70	180.43	11,865.92	-6,079.56	48.44	6,079.75	1.33	-0.15	1.33
17,849.29	90.68	180.61	11,865.76	-6,093.14	48.32	6,093.33	1.33	-0.15	1.33
17,862.86	90.66	180.76	11,865.60	-6,106.71	48.15	6,106.90	1.12	-0.15	1.11
17,876.43	90.67	181.09	11,865.44	-6,120.28	47.94	6,120.46	2.43	0.07	2.43
17,890.00	90.69	181.36	11,865.28	-6,133.84	47.65	6,134.02	1.99	0.15	1.99
17,903.57	90.76	181.49	11,865.11	-6,147.41	47.31	6,147.59	1.09	0.52	0.96
17,917.14	90.82	181.44	11,864.92	-6,160.97	46.96	6,161.15	0.58	0.44	-0.37
17,930.71	90.83	181.03	11,864.73	-6,174.54	46.67	6,174.71	3.02	0.07	-3.02
17,944.29	90.82	180.58	11,864.53	-6,188.11	46.48	6,188.29	3.31	-0.07	-3.31
17,957.86	90.80	180.21	11,864.34	-6,201.68	46.38	6,201.85	2.73	-0.15	-2.73
17,971.43	90.70	179.94	11,864.16	-6,215.25	46.37	6,215.42	2.12	-0.74	-1.99
17,985.00	90.58	179.67	11,864.01	-6,228.82	46.41	6,228.99	2.18	-0.88	-1.99
17,998.57	90.40	179.36	11,863.90	-6,242.39	46.53	6,242.56	2.64	-1.33	-2.28
18,012.14	90.21	179.27	11,863.82	-6,255.96	46.69	6,256.13	1.55	-1.40	-0.66
18,025.71	90.01	179.40	11,863.80	-6,269.53	46.85	6,269.70	1.76	-1.47	0.96
18,039.29	89.81	179.57	11,863.82	-6,283.11	46.97	6,283.28	1.93	-1.47	1.25
18,052.86	89.62	179.75	11,863.89	-6,296.68	47.05	6,296.85	1.93	-1.40	1.33
18,066.43	89.47	180.01	11,863.99	-6,310.25	47.08	6,310.42	2.21	-1.11	1.92
18,080.00	89.37	180.05	11,864.13	-6,323.81	47.07	6,323.99	0.79	-0.74	0.29
18,093.57	89.35	179.89	11,864.28	-6,337.38	47.08	6,337.56	1.19	-0.15	-1.18
18,107.14	89.34	180.13	11,864.44	-6,350.95	47.08	6,351.13	1.77	-0.07	1.77
18,120.71	89.35	180.54	11,864.59	-6,364.52	47.00	6,364.69	3.02	0.07	3.02
18,134.29	89.36	180.97	11,864.75	-6,378.10	46.82	6,378.27	3.17	0.07	3.17
18,147.86	89.42	181.44	11,864.89	-6,391.67	46.53	6,391.83	3.49	0.44	3.46
18,161.43	89.53	181.97	11,865.02	-6,405.23	46.13	6,405.39	3.99	0.81	3.91
18,175.00	89.49	182.37	11,865.13	-6,418.79	45.61	6,418.95	2.96	-0.29	2.95
18,188.43	89.39	182.53	11,865.26	-6,432.21	45.04	6,432.36	1.40	-0.74	1.19
18,201.86	89.24	182.39	11,865.42	-6,445.62	44.46	6,445.78	1.53	-1.12	-1.04
18,215.29	89.21	182.05	11,865.60	-6,459.04	43.94	6,459.19	2.54	-0.22	-2.53
18,228.71	89.17	181.69	11,865.79	-6,472.45	43.51	6,472.60	2.70	-0.30	-2.68
18,242.14	89.12	181.30	11,865.99	-6,485.88	43.16	6,486.02	2.93	-0.37	-2.90
18,255.57	89.10	180.84	11,866.20	-6,499.30	42.90	6,499.44	3.43	-0.15	-3.43
18,269.00	89.14	180.64	11,866.41	-6,512.73	42.73	6,512.87	1.52	0.30	-1.49
18,282.57	89.31	180.70	11,866.59	-6,526.30	42.57	6,526.44	1.33	1.25	0.44
18,296.14	89.58	180.75	11,866.72	-6,539.87	42.40	6,540.00	2.02	1.99	0.37
18,309.71	89.96	180.78	11,866.78	-6,553.44	42.22	6,553.57	2.81	2.80	0.22
18,323.29	90.35	180.81	11,866.74	-6,567.01	42.03	6,567.15	2.88	2.87	0.22



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
18,336.86	90.69	180.75	11,866.62	-6,580.58	41.85	6,580.71	2.54	2.51	-0.44
18,350.43	90.80	180.30	11,866.44	-6,594.15	41.72	6,594.28	3.41	0.81	-3.32
18,364.00	90.95	180.22	11,866.24	-6,607.72	41.66	6,607.85	1.25	1.11	-0.59
18,377.57	91.09	180.25	11,865.99	-6,621.29	41.61	6,621.42	1.06	1.03	0.22
18,391.14	90.94	180.11	11,865.75	-6,634.85	41.56	6,634.98	1.51	-1.11	-1.03
18,404.71	90.78	179.95	11,865.55	-6,648.42	41.56	6,648.55	1.67	-1.18	-1.18
18,418.29	90.61	179.77	11,865.39	-6,662.00	41.59	6,662.13	1.82	-1.25	-1.33
18,431.86	90.45	179.60	11,865.26	-6,675.57	41.66	6,675.70	1.72	-1.18	-1.25
18,445.43	90.42	179.45	11,865.16	-6,689.14	41.78	6,689.27	1.13	-0.22	-1.11
18,459.00	90.43	179.37	11,865.06	-6,702.71	41.92	6,702.84	0.59	0.07	-0.59
18,472.57	90.46	178.97	11,864.95	-6,716.28	42.11	6,716.41	2.96	0.22	-2.95
18,486.14	90.50	178.63	11,864.84	-6,729.84	42.40	6,729.98	2.52	0.29	-2.51
18,499.71	90.56	178.69	11,864.71	-6,743.41	42.71	6,743.54	0.63	0.44	0.44
18,513.29	90.62	178.78	11,864.57	-6,756.98	43.01	6,757.12	0.80	0.44	0.66
18,526.86	90.69	178.92	11,864.42	-6,770.55	43.29	6,770.69	1.15	0.52	1.03
18,540.43	90.77	178.51	11,864.24	-6,784.12	43.59	6,784.26	3.08	0.59	-3.02
18,554.00	90.84	178.16	11,864.05	-6,797.68	43.98	6,797.82	2.63	0.52	-2.58
18,567.57	90.92	177.90	11,863.84	-6,811.24	44.45	6,811.38	2.00	0.59	-1.92
18,581.14	91.02	178.16	11,863.61	-6,824.80	44.92	6,824.95	2.05	0.74	1.92
18,594.71	91.13	178.49	11,863.36	-6,838.36	45.31	6,838.51	2.56	0.81	2.43
18,608.29	91.24	178.84	11,863.08	-6,851.94	45.63	6,852.09	2.70	0.81	2.58
18,621.86	91.33	179.19	11,862.78	-6,865.50	45.86	6,865.65	2.66	0.66	2.58
18,635.43	91.33	179.47	11,862.46	-6,879.07	46.02	6,879.22	2.06	0.00	2.06
18,649.00	91.42	179.47	11,862.13	-6,892.63	46.15	6,892.79	0.66	0.66	0.00
18,662.43	91.49	179.46	11,861.79	-6,906.06	46.27	6,906.21	0.53	0.52	-0.07
18,675.86	91.54	179.55	11,861.44	-6,919.48	46.39	6,919.64	0.77	0.37	0.67
18,689.29	91.75	179.46	11,861.05	-6,932.90	46.50	6,933.06	1.70	1.56	-0.67
18,702.71	91.93	179.36	11,860.62	-6,946.32	46.64	6,946.47	1.53	1.34	-0.75
18,716.14	92.01	179.19	11,860.16	-6,959.74	46.81	6,959.90	1.40	0.60	-1.27
18,729.57	91.92	178.77	11,859.70	-6,973.16	47.05	6,973.32	3.20	-0.67	-3.13
18,743.00	91.74	178.55	11,859.27	-6,986.58	47.37	6,986.74	2.12	-1.34	-1.64
18,756.57	91.43	178.57	11,858.90	-7,000.14	47.71	7,000.30	2.29	-2.28	0.15
18,770.14	91.06	178.68	11,858.60	-7,013.70	48.03	7,013.87	2.84	-2.73	0.81
18,783.71	90.66	178.48	11,858.40	-7,027.26	48.37	7,027.43	3.30	-2.95	-1.47
18,797.29	90.26	178.32	11,858.29	-7,040.84	48.75	7,041.01	3.17	-2.95	-1.18
18,810.86	89.83	178.61	11,858.28	-7,054.40	49.11	7,054.58	3.82	-3.17	2.14
18,824.43	89.29	178.90	11,858.38	-7,067.97	49.41	7,068.14	4.52	-3.98	2.14
18,838.00	88.96	179.14	11,858.59	-7,081.54	49.64	7,081.71	3.01	-2.43	1.77
18,851.57	88.87	179.38	11,858.85	-7,095.10	49.81	7,095.28	1.89	-0.66	1.77
18,865.14	88.86	179.55	11,859.11	-7,108.67	49.94	7,108.85	1.25	-0.07	1.25
18,878.71	88.93	179.92	11,859.38	-7,122.24	50.00	7,122.41	2.77	0.52	2.73
18,892.29	89.02	180.31	11,859.62	-7,135.82	49.97	7,135.99	2.95	0.66	2.87
18,905.86	89.13	180.68	11,859.84	-7,149.38	49.86	7,149.56	2.84	0.81	2.73



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
18,919.43	89.25	180.79	11,860.03	-7,162.95	49.68	7,163.12	1.20	0.88	0.81
18,933.00	89.31	180.83	11,860.20	-7,176.52	49.49	7,176.69	0.53	0.44	0.29
18,946.57	89.34	181.05	11,860.36	-7,190.09	49.27	7,190.25	1.64	0.22	1.62
18,960.14	89.37	181.48	11,860.51	-7,203.65	48.97	7,203.82	3.18	0.22	3.17
18,973.71	89.36	181.30	11,860.66	-7,217.22	48.64	7,217.38	1.33	-0.07	-1.33
18,987.29	89.34	181.10	11,860.82	-7,230.79	48.36	7,230.95	1.48	-0.15	-1.47
19,000.86	89.29	180.88	11,860.98	-7,244.36	48.12	7,244.52	1.66	-0.37	-1.62
19,014.43	89.23	180.83	11,861.16	-7,257.93	47.92	7,258.08	0.58	-0.44	-0.37
19,028.00	89.16	181.14	11,861.35	-7,271.49	47.69	7,271.65	2.34	-0.52	2.28
19,041.57	89.09	181.61	11,861.55	-7,285.06	47.36	7,285.21	3.50	-0.52	3.46
19,055.14	88.90	181.47	11,861.79	-7,298.62	47.00	7,298.77	1.74	-1.40	-1.03
19,068.71	88.84	181.35	11,862.06	-7,312.18	46.66	7,312.33	0.99	-0.44	-0.88
19,082.29	88.80	181.29	11,862.34	-7,325.76	46.35	7,325.90	0.53	-0.29	-0.44
19,095.86	88.80	181.33	11,862.62	-7,339.32	46.04	7,339.46	0.29	0.00	0.29
19,109.43	88.82	181.03	11,862.90	-7,352.89	45.76	7,353.03	2.22	0.15	-2.21
19,123.00	88.82	181.11	11,863.18	-7,366.45	45.51	7,366.59	0.59	0.00	0.59
19,136.57	88.86	181.29	11,863.46	-7,380.01	45.22	7,380.15	1.36	0.29	1.33
19,150.14	88.90	181.47	11,863.72	-7,393.58	44.90	7,393.71	1.36	0.29	1.33
19,163.71	88.94	181.71	11,863.98	-7,407.14	44.52	7,407.27	1.79	0.29	1.77
19,177.29	88.88	181.66	11,864.24	-7,420.71	44.12	7,420.84	0.58	-0.44	-0.37
19,190.86	88.94	181.03	11,864.50	-7,434.28	43.80	7,434.40	4.66	0.44	-4.64
19,204.43	88.97	180.33	11,864.74	-7,447.84	43.64	7,447.97	5.16	0.22	-5.16
19,218.00	88.80	179.87	11,865.01	-7,461.41	43.62	7,461.53	3.61	-1.25	-3.39
19,231.43	88.64	179.83	11,865.31	-7,474.84	43.65	7,474.96	1.23	-1.19	-0.30
19,244.86	88.56	180.28	11,865.64	-7,488.26	43.64	7,488.39	3.40	-0.60	3.35
19,258.29	88.43	180.98	11,865.99	-7,501.69	43.49	7,501.81	5.30	-0.97	5.21
19,271.71	88.31	181.13	11,866.37	-7,515.10	43.24	7,515.22	1.43	-0.89	1.12
19,285.14	88.14	181.10	11,866.79	-7,528.52	42.98	7,528.64	1.29	-1.27	-0.22
19,298.57	88.03	181.85	11,867.23	-7,541.94	42.64	7,542.05	5.64	-0.82	5.58
19,312.00	87.92	182.56	11,867.71	-7,555.35	42.12	7,555.46	5.35	-0.82	5.29
19,325.57	87.81	182.64	11,868.22	-7,568.90	41.51	7,569.00	1.00	-0.81	0.59
19,339.14	87.68	181.89	11,868.75	-7,582.44	40.97	7,582.55	5.61	-0.96	-5.53
19,352.71	87.55	181.11	11,869.31	-7,596.00	40.62	7,596.10	5.82	-0.96	-5.75
19,366.29	87.41	180.33	11,869.91	-7,609.56	40.44	7,609.66	5.83	-1.03	-5.74
19,379.86	87.39	179.63	11,870.53	-7,623.12	40.45	7,623.22	5.16	-0.15	-5.16
19,393.43	87.34	178.91	11,871.15	-7,636.67	40.62	7,636.77	5.31	-0.37	-5.31
19,407.00	87.49	178.32	11,871.76	-7,650.23	40.95	7,650.33	4.48	1.11	-4.35
19,420.57	87.66	178.27	11,872.34	-7,663.78	41.35	7,663.88	1.31	1.25	-0.37
19,434.14	87.75	178.82	11,872.88	-7,677.33	41.70	7,677.44	4.10	0.66	4.05
19,447.71	88.01	179.65	11,873.38	-7,690.89	41.88	7,691.00	6.41	1.92	6.12
19,461.29	88.23	180.35	11,873.83	-7,704.47	41.88	7,704.57	5.40	1.62	5.15
19,474.86	88.30	180.87	11,874.24	-7,718.03	41.73	7,718.13	3.86	0.52	3.83
19,488.43	88.39	181.03	11,874.63	-7,731.59	41.51	7,731.69	1.35	0.66	1.18
19,502.00	88.42	180.91	11,875.01	-7,745.15	41.28	7,745.26	0.91	0.22	-0.88



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
19,515.57	88.25	181.10	11,875.40	-7,758.72	41.04	7,758.82	1.88	-1.25	1.40
19,529.14	88.37	181.58	11,875.80	-7,772.28	40.72	7,772.37	3.64	0.88	3.54
19,542.71	88.26	181.45	11,876.20	-7,785.84	40.37	7,785.93	1.25	-0.81	-0.96
19,556.29	88.19	181.21	11,876.62	-7,799.41	40.05	7,799.50	1.84	-0.52	-1.77
19,569.86	88.11	180.95	11,877.06	-7,812.97	39.80	7,813.06	2.00	-0.59	-1.92
19,583.43	87.91	180.74	11,877.53	-7,826.53	39.60	7,826.61	2.14	-1.47	-1.55
19,597.00	87.92	180.77	11,878.02	-7,840.09	39.42	7,840.17	0.23	0.07	0.22
19,610.57	88.05	180.86	11,878.50	-7,853.65	39.22	7,853.73	1.16	0.96	0.66
19,624.14	88.21	180.93	11,878.94	-7,867.21	39.01	7,867.29	1.29	1.18	0.52
19,637.71	88.41	181.00	11,879.35	-7,880.77	38.78	7,880.85	1.56	1.47	0.52
19,651.29	88.62	181.09	11,879.70	-7,894.34	38.54	7,894.42	1.68	1.55	0.66
19,664.86	88.90	181.17	11,879.99	-7,907.91	38.27	7,907.98	2.15	2.06	0.59
19,678.43	89.24	181.17	11,880.21	-7,921.47	37.99	7,921.55	2.51	2.51	0.00
19,692.00	89.07	181.09	11,880.41	-7,935.04	37.72	7,935.11	1.38	-1.25	-0.59
19,705.43	89.13	181.00	11,880.62	-7,948.46	37.48	7,948.54	0.81	0.45	-0.67
19,718.86	89.28	180.91	11,880.81	-7,961.89	37.25	7,961.96	1.30	1.12	-0.67
19,732.29	89.29	180.83	11,880.98	-7,975.32	37.05	7,975.39	0.60	0.07	-0.60
19,745.71	89.28	180.75	11,881.14	-7,988.74	36.87	7,988.80	0.60	-0.07	-0.60
19,759.14	89.24	180.61	11,881.32	-8,002.16	36.71	8,002.23	1.08	-0.30	-1.04
19,772.57	89.28	180.68	11,881.49	-8,015.59	36.56	8,015.66	0.60	0.30	0.52
19,786.00	89.43	180.53	11,881.64	-8,029.02	36.41	8,029.08	1.58	1.12	-1.12
19,799.57	89.38	180.33	11,881.78	-8,042.59	36.31	8,042.65	1.52	-0.37	-1.47
19,813.14	89.30	180.30	11,881.94	-8,056.16	36.24	8,056.22	0.63	-0.59	-0.22
19,826.71	89.22	180.34	11,882.11	-8,069.73	36.16	8,069.79	0.66	-0.59	0.29
19,840.29	89.17	180.39	11,882.30	-8,083.30	36.07	8,083.36	0.52	-0.37	0.37
19,853.86	89.16	180.46	11,882.50	-8,096.87	35.97	8,096.93	0.52	-0.07	0.52
19,867.43	89.13	180.46	11,882.71	-8,110.44	35.87	8,110.50	0.22	-0.22	0.00
19,881.00	89.13	180.46	11,882.91	-8,124.01	35.76	8,124.07	0.00	0.00	0.00
19,894.57	89.15	180.46	11,883.11	-8,137.58	35.65	8,137.63	0.15	0.15	0.00
19,908.14	89.17	180.46	11,883.31	-8,151.15	35.54	8,151.20	0.15	0.15	0.00
19,921.71	89.20	180.41	11,883.51	-8,164.71	35.44	8,164.77	0.43	0.22	-0.37
19,935.29	89.24	180.36	11,883.69	-8,178.29	35.34	8,178.34	0.47	0.29	-0.37
19,948.86	89.24	180.31	11,883.87	-8,191.86	35.26	8,191.91	0.37	0.00	-0.37
19,962.43	89.27	180.26	11,884.05	-8,205.43	35.20	8,205.48	0.43	0.22	-0.37
19,976.00	89.34	180.23	11,884.21	-8,219.00	35.14	8,219.05	0.56	0.52	-0.22
19,989.57	89.44	180.21	11,884.36	-8,232.57	35.09	8,232.62	0.75	0.74	-0.15
20,003.14	89.56	180.20	11,884.48	-8,246.14	35.04	8,246.19	0.89	0.88	-0.07
20,016.71	89.70	180.20	11,884.56	-8,259.71	34.99	8,259.75	1.03	1.03	0.00
20,030.29	89.86	180.20	11,884.62	-8,273.29	34.94	8,273.33	1.18	1.18	0.00
20,043.86	90.03	180.20	11,884.63	-8,286.86	34.90	8,286.90	1.25	1.25	0.00
20,057.43	90.20	180.20	11,884.60	-8,300.43	34.85	8,300.47	1.25	1.25	0.00
20,071.00	90.38	180.19	11,884.53	-8,314.00	34.80	8,314.04	1.33	1.33	-0.07
20,085.62	90.59	180.18	11,884.41	-8,328.62	34.76	8,328.66	1.44	1.44	-0.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
20,100.23	90.80	180.17	11,884.23	-8,343.22	34.71	8,343.27	1.44	1.44	-0.07
20,114.85	91.00	180.18	11,884.00	-8,357.84	34.67	8,357.89	1.37	1.37	0.07
20,129.46	91.20	180.18	11,883.72	-8,372.45	34.62	8,372.49	1.37	1.37	0.00
20,144.08	91.39	180.14	11,883.39	-8,387.07	34.58	8,387.11	1.33	1.30	-0.27
20,158.69	91.56	180.11	11,883.01	-8,401.67	34.55	8,401.71	1.18	1.16	-0.21
20,173.31	91.72	180.08	11,882.60	-8,416.28	34.52	8,416.33	1.11	1.09	-0.21
20,187.92	91.87	180.06	11,882.14	-8,430.89	34.51	8,430.93	1.04	1.03	-0.14
20,202.54	92.01	180.05	11,881.64	-8,445.50	34.49	8,445.54	0.96	0.96	-0.07
20,217.15	92.15	180.03	11,881.11	-8,460.10	34.48	8,460.14	0.97	0.96	-0.14
20,231.77	92.23	180.00	11,880.55	-8,474.71	34.48	8,474.75	0.58	0.55	-0.21
20,246.38	92.25	179.94	11,879.98	-8,489.31	34.49	8,489.35	0.43	0.14	-0.41
20,261.00	92.25	179.91	11,879.41	-8,503.92	34.50	8,503.96	0.21	0.00	-0.21
20,275.62	92.23	179.87	11,878.84	-8,518.53	34.53	8,518.56	0.31	-0.14	-0.27
20,290.23	92.13	179.84	11,878.28	-8,533.12	34.57	8,533.16	0.71	-0.68	-0.21
20,304.85	91.83	179.76	11,877.78	-8,547.74	34.62	8,547.77	2.12	-2.05	-0.55
20,319.46	91.50	179.68	11,877.35	-8,562.34	34.69	8,562.38	2.32	-2.26	-0.55
20,334.08	91.28	179.67	11,877.00	-8,576.95	34.77	8,576.99	1.51	-1.50	-0.07
20,348.69	91.02	179.60	11,876.71	-8,591.56	34.87	8,591.60	1.84	-1.78	-0.48
20,363.31	90.72	179.53	11,876.48	-8,606.18	34.98	8,606.22	2.11	-2.05	-0.48
20,377.92	90.48	179.51	11,876.33	-8,620.79	35.10	8,620.83	1.65	-1.64	-0.14
20,392.54	90.26	179.51	11,876.24	-8,635.41	35.23	8,635.45	1.50	-1.50	0.00
20,407.15	90.05	179.50	11,876.20	-8,650.02	35.35	8,650.06	1.44	-1.44	-0.07
20,421.77	89.80	179.43	11,876.22	-8,664.64	35.49	8,664.68	1.78	-1.71	-0.48
20,436.38	89.59	179.39	11,876.29	-8,679.24	35.64	8,679.29	1.46	-1.44	-0.27
20,451.00	89.39	179.31	11,876.42	-8,693.86	35.81	8,693.91	1.47	-1.37	-0.55
20,465.62	89.29	179.18	11,876.59	-8,708.48	36.00	8,708.53	1.12	-0.68	-0.89
20,480.23	89.24	179.04	11,876.78	-8,723.09	36.22	8,723.13	1.02	-0.34	-0.96
20,494.85	89.13	178.94	11,876.99	-8,737.70	36.48	8,737.75	1.02	-0.75	-0.68
20,509.46	89.05	178.84	11,877.22	-8,752.31	36.77	8,752.36	0.88	-0.55	-0.68
20,524.08	89.14	178.82	11,877.45	-8,766.92	37.06	8,766.98	0.63	0.62	-0.14
20,538.69	89.22	178.84	11,877.66	-8,781.53	37.36	8,781.58	0.56	0.55	0.14
20,553.31	89.26	178.82	11,877.85	-8,796.15	37.66	8,796.20	0.31	0.27	-0.14
20,567.92	89.16	178.81	11,878.05	-8,810.75	37.96	8,810.81	0.69	-0.68	-0.07
20,582.54	89.20	178.82	11,878.26	-8,825.37	38.27	8,825.42	0.28	0.27	0.07
20,597.15	89.31	178.88	11,878.45	-8,839.97	38.56	8,840.03	0.86	0.75	0.41
20,611.77	89.59	178.93	11,878.59	-8,854.59	38.84	8,854.65	1.95	1.92	0.34
20,626.38	89.91	178.97	11,878.66	-8,869.20	39.11	8,869.26	2.21	2.19	0.27
20,641.00	90.28	178.99	11,878.63	-8,883.81	39.37	8,883.88	2.53	2.53	0.14
20,654.57	90.79	179.09	11,878.51	-8,897.38	39.59	8,897.45	3.83	3.76	0.74
20,668.14	91.25	179.08	11,878.27	-8,910.95	39.81	8,911.01	3.39	3.39	-0.07
20,681.71	91.71	179.17	11,877.91	-8,924.51	40.02	8,924.58	3.45	3.39	0.66
20,695.29	92.04	179.27	11,877.47	-8,938.08	40.20	8,938.15	2.54	2.43	0.74
20,708.86	92.50	179.37	11,876.93	-8,951.64	40.36	8,951.71	3.47	3.39	0.74



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
20,722.43	92.77	179.44	11,876.31	-8,965.20	40.50	8,965.27	2.06	1.99	0.52
20,736.00	92.84	179.54	11,875.65	-8,978.75	40.62	8,978.82	0.90	0.52	0.74
20,749.43	92.45	179.53	11,875.03	-8,992.16	40.73	8,992.24	2.90	-2.90	-0.07
20,762.86	91.81	179.46	11,874.53	-9,005.59	40.85	9,005.66	4.79	-4.77	-0.52
20,776.29	91.20	179.45	11,874.17	-9,019.01	40.98	9,019.08	4.54	-4.54	-0.07
20,789.71	90.56	179.43	11,873.97	-9,032.43	41.11	9,032.50	4.77	-4.77	-0.15
20,803.14	90.01	179.39	11,873.90	-9,045.86	41.25	9,045.93	4.11	-4.10	-0.30
20,816.57	89.50	179.35	11,873.96	-9,059.29	41.40	9,059.36	3.81	-3.80	-0.30
20,830.00	89.08	179.31	11,874.12	-9,072.71	41.55	9,072.79	3.14	-3.13	-0.30
20,843.57	88.89	179.26	11,874.36	-9,086.28	41.72	9,086.36	1.45	-1.40	-0.37
20,857.14	88.83	179.20	11,874.63	-9,099.85	41.90	9,099.92	0.63	-0.44	-0.44
20,870.71	88.88	179.14	11,874.91	-9,113.41	42.10	9,113.49	0.58	0.37	-0.44
20,884.29	88.98	179.08	11,875.16	-9,126.99	42.31	9,127.07	0.86	0.74	-0.44
20,897.86	89.11	179.03	11,875.39	-9,140.55	42.54	9,140.63	1.03	0.96	-0.37
20,911.43	89.25	178.98	11,875.58	-9,154.12	42.77	9,154.20	1.10	1.03	-0.37
20,925.00	89.37	178.95	11,875.74	-9,167.69	43.02	9,167.77	0.91	0.88	-0.22
20,938.57	89.45	178.93	11,875.88	-9,181.25	43.27	9,181.34	0.61	0.59	-0.15
20,952.14	89.50	178.93	11,876.01	-9,194.82	43.52	9,194.91	0.37	0.37	0.00
20,965.71	89.54	178.93	11,876.12	-9,208.39	43.77	9,208.47	0.29	0.29	0.00
20,979.29	89.55	178.94	11,876.23	-9,221.97	44.03	9,222.05	0.10	0.07	0.07
20,992.86	89.56	178.96	11,876.33	-9,235.53	44.28	9,235.62	0.16	0.07	0.15
21,006.43	89.54	178.97	11,876.44	-9,249.10	44.52	9,249.19	0.16	-0.15	0.07
21,020.00	89.43	178.97	11,876.56	-9,262.67	44.76	9,262.76	0.81	-0.81	0.00
21,033.57	89.30	179.02	11,876.71	-9,276.24	45.00	9,276.33	1.03	-0.96	0.37
21,047.14	89.16	179.09	11,876.90	-9,289.80	45.23	9,289.90	1.15	-1.03	0.52
21,060.71	89.01	179.17	11,877.11	-9,303.37	45.43	9,303.46	1.25	-1.11	0.59
21,074.29	88.84	179.22	11,877.37	-9,316.95	45.62	9,317.04	1.30	-1.25	0.37
21,087.86	88.66	179.25	11,877.66	-9,330.51	45.80	9,330.61	1.34	-1.33	0.22
21,101.43	88.50	179.28	11,878.00	-9,344.08	45.98	9,344.17	1.20	-1.18	0.22
21,115.00	88.39	179.27	11,878.37	-9,357.64	46.15	9,357.74	0.81	-0.81	-0.07
21,128.57	88.40	179.24	11,878.75	-9,371.20	46.33	9,371.30	0.23	0.07	-0.22
21,142.14	88.44	179.18	11,879.12	-9,384.77	46.51	9,384.87	0.53	0.29	-0.44
21,155.71	88.50	179.11	11,879.48	-9,398.33	46.72	9,398.43	0.68	0.44	-0.52
21,169.29	88.55	179.06	11,879.83	-9,411.90	46.93	9,412.01	0.52	0.37	-0.37
21,182.86	88.52	179.11	11,880.18	-9,425.47	47.15	9,425.57	0.43	-0.22	0.37
21,196.43	88.50	179.00	11,880.53	-9,439.03	47.37	9,439.14	0.82	-0.15	-0.81
21,210.00	88.41	178.88	11,880.90	-9,452.59	47.62	9,452.70	1.11	-0.66	-0.88
21,223.57	88.34	178.87	11,881.28	-9,466.16	47.89	9,466.26	0.52	-0.52	-0.07
21,237.14	88.25	178.92	11,881.69	-9,479.72	48.15	9,479.83	0.76	-0.66	0.37
21,250.71	88.11	179.00	11,882.12	-9,493.28	48.40	9,493.39	1.19	-1.03	0.59
21,264.29	88.09	179.10	11,882.57	-9,506.85	48.62	9,506.96	0.75	-0.15	0.74
21,277.86	88.10	179.20	11,883.02	-9,520.41	48.82	9,520.52	0.74	0.07	0.74
21,291.43	88.14	179.28	11,883.47	-9,533.97	49.00	9,534.09	0.66	0.29	0.59
21,305.00	88.19	179.35	11,883.90	-9,547.53	49.17	9,547.65	0.63	0.37	0.52



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
21,318.57	88.25	179.36	11,884.32	-9,561.10	49.32	9,561.21	0.45	0.44	0.07
21,332.14	88.32	179.32	11,884.73	-9,574.66	49.48	9,574.78	0.59	0.52	-0.29
21,345.71	88.41	179.26	11,885.11	-9,588.22	49.64	9,588.34	0.80	0.66	-0.44
21,359.29	88.52	179.21	11,885.48	-9,601.80	49.82	9,601.91	0.89	0.81	-0.37
21,372.86	88.64	179.24	11,885.81	-9,615.36	50.01	9,615.48	0.91	0.88	0.22
21,386.43	88.83	179.32	11,886.11	-9,628.93	50.18	9,629.05	1.52	1.40	0.59
21,400.00	89.03	179.39	11,886.37	-9,642.49	50.33	9,642.61	1.56	1.47	0.52
21,413.43	89.19	179.51	11,886.58	-9,655.92	50.46	9,656.04	1.49	1.19	0.89
21,426.86	89.22	179.63	11,886.76	-9,669.35	50.56	9,669.47	0.92	0.22	0.89
21,440.29	89.27	179.76	11,886.94	-9,682.78	50.63	9,682.90	1.04	0.37	0.97
21,453.71	89.30	179.90	11,887.11	-9,696.20	50.67	9,696.32	1.07	0.22	1.04
21,467.14	89.46	180.02	11,887.25	-9,709.63	50.68	9,709.75	1.49	1.19	0.89
21,480.57	89.62	180.08	11,887.36	-9,723.06	50.67	9,723.18	1.27	1.19	0.45
21,494.00	89.45	179.98	11,887.47	-9,736.49	50.66	9,736.61	1.47	-1.27	-0.74
21,507.57	89.22	179.68	11,887.63	-9,750.05	50.70	9,750.17	2.79	-1.69	-2.21
21,521.14	88.93	179.33	11,887.85	-9,763.62	50.82	9,763.74	3.35	-2.14	-2.58
21,534.71	88.60	178.95	11,888.14	-9,777.19	51.02	9,777.31	3.71	-2.43	-2.80
21,548.29	88.24	178.57	11,888.51	-9,790.76	51.32	9,790.88	3.85	-2.65	-2.80
21,561.86	87.85	178.29	11,888.98	-9,804.32	51.69	9,804.44	3.54	-2.87	-2.06
21,575.43	87.76	178.22	11,889.50	-9,817.87	52.10	9,818.00	0.84	-0.66	-0.52
21,589.00	87.79	178.25	11,890.02	-9,831.42	52.52	9,831.55	0.31	0.22	0.22
21,602.57	87.77	178.31	11,890.55	-9,844.98	52.93	9,845.11	0.47	-0.15	0.44
21,616.14	87.88	178.70	11,891.06	-9,858.53	53.28	9,858.67	2.98	0.81	2.87
21,629.71	88.25	179.62	11,891.52	-9,872.09	53.48	9,872.23	7.30	2.73	6.78
21,643.29	88.59	180.56	11,891.90	-9,885.67	53.46	9,885.80	7.36	2.50	6.92
21,656.86	88.69	181.76	11,892.22	-9,899.23	53.18	9,899.36	8.87	0.74	8.84
21,670.43	88.78	182.99	11,892.52	-9,912.79	52.62	9,912.92	9.09	0.66	9.06
21,684.00	88.94	183.93	11,892.79	-9,926.33	51.80	9,926.45	7.03	1.18	6.93
21,697.57	89.10	184.57	11,893.02	-9,939.86	50.80	9,939.98	4.86	1.18	4.72
21,711.14	89.13	184.78	11,893.23	-9,953.38	49.69	9,953.49	1.56	0.22	1.55
21,724.71	89.06	184.98	11,893.44	-9,966.90	48.54	9,967.00	1.56	-0.52	1.47
21,738.29	88.98	185.19	11,893.68	-9,980.43	47.33	9,980.52	1.65	-0.59	1.55
21,751.86	88.90	185.31	11,893.93	-9,993.94	46.09	9,994.02	1.06	-0.59	0.88
21,765.43	88.86	185.37	11,894.19	-10,007.44	44.83	10,007.52	0.53	-0.29	0.44
21,779.00	88.95	185.32	11,894.45	-10,020.95	43.57	10,021.02	0.76	0.66	-0.37
21,792.57	88.97	185.13	11,894.70	-10,034.46	42.33	10,034.52	1.41	0.15	-1.40
21,806.14	88.95	184.83	11,894.94	-10,047.98	41.15	10,048.03	2.22	-0.15	-2.21
21,819.71	88.91	184.46	11,895.20	-10,061.50	40.05	10,061.55	2.74	-0.29	-2.73
21,833.29	88.87	184.04	11,895.46	-10,075.04	39.05	10,075.08	3.11	-0.29	-3.09
21,846.86	88.79	183.52	11,895.74	-10,088.58	38.15	10,088.61	3.88	-0.59	-3.83
21,860.43	88.64	182.93	11,896.04	-10,102.13	37.39	10,102.15	4.49	-1.11	-4.35
21,874.00	88.53	182.35	11,896.38	-10,115.68	36.76	10,115.70	4.35	-0.81	-4.27
21,887.43	88.61	181.72	11,896.71	-10,129.10	36.29	10,129.11	4.73	0.60	-4.69



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 32H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.50usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.50usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 32H	North Reference:	Grid
Wellbore:	OH / 74694	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Citadel 3)	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)
21,900.86	88.90	180.99	11,897.00	-10,142.52	35.97	10,142.53	5.85	2.16	-5.44
21,914.29	89.16	180.20	11,897.23	-10,155.95	35.83	10,155.96	6.19	1.94	-5.88
21,927.71	89.13	179.58	11,897.43	-10,169.36	35.86	10,169.37	4.62	-0.22	-4.62
21,941.14	88.88	179.32	11,897.66	-10,182.79	35.99	10,182.80	2.69	-1.86	-1.94
21,954.57	89.22	179.19	11,897.89	-10,196.22	36.16	10,196.23	2.71	2.53	-0.97
21,968.00	89.56	179.18	11,898.03	-10,209.65	36.35	10,209.66	2.53	2.53	-0.07
21,982.00	89.80	179.24	11,898.11	-10,223.65	36.54	10,223.66	1.77	1.71	0.43
21,996.00	89.98	179.11	11,898.14	-10,237.64	36.75	10,237.66	1.59	1.29	-0.93
22,010.00	89.96	178.70	11,898.14	-10,251.64	37.01	10,251.66	2.93	-0.14	-2.93
22,024.00	89.91	178.56	11,898.16	-10,265.64	37.35	10,265.66	1.06	-0.36	-1.00
22,038.00	89.86	178.72	11,898.19	-10,279.63	37.68	10,279.65	1.20	-0.36	1.14
22,052.00	89.94	178.93	11,898.21	-10,293.63	37.97	10,293.65	1.61	0.57	1.50
Final Phoenix MWD Survey									
22,095.49	89.94	178.93	11,898.26	-10,337.11	38.78	10,337.14	0.00	0.00	0.00
LTP: 22095.49' MD									
22,168.00	89.94	178.93	11,898.33	-10,409.61	40.13	10,409.64	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
139.00	139.00	-0.65	0.09	First Phoenix MWD Survey
11,530.51	11,472.63	127.72	-23.56	SL: 11530.51' MD, 43.78° Inc
11,661.65	11,557.19	27.71	-24.42	FTP: 11661.65' MD, 53.39° Inc
16,908.37	11,847.80	-5,152.60	52.38	SL: 16908.37' MD
22,052.00	11,898.21	-10,293.63	37.97	Final Phoenix MWD Survey
22,095.49	11,898.26	-10,337.11	38.78	LTP: 22095.49' MD
22,168.00	11,898.33	-10,409.61	40.13	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 32H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-47944
Pool Name: WC-025 G-09 S223219D; WOLFCAMP	Pool Code: 98296

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:	1	19	22S	32E		128	N	1335	W	LEA
BHL	4	30	22S	32E		27	S	1310	W	LEA

Section 3 – Completion Information

Date T.D. Reached 06/08/24	Total Measured Depth of Well 22168'MD	Acid Volume (bbls)	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 06/10/24	Plug-Back Measured Depth 22100'MD	Completion Fluid Used (bbls) 361757	Were Logs Ran (Y/N) Y
Completion Date 07/20/24	Perforations (MD and TVD) 12162'-22023'MD/11787'-11898'TVD	Completion Proppant Used (lbs) 24723792#	List Type of Logs Ran if applicable: CBL

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 374370	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374370	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID: NA	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 374370	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 395450	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 07/23/24	Production Method Gas lift	Well Status Producing	Gas – Oil Ratio 2155
Date of Test 09/23/24	Choke Size	Flowing Tubing Pressure	Casing Pressure 1142
24 hr Oil (bbls) 2121	24 hr Gas (MCF) 4571	24 hr Water (bbls) 2639	Oil Gravity - API
Disposition of Gas: sold			

Section 6 – Pits

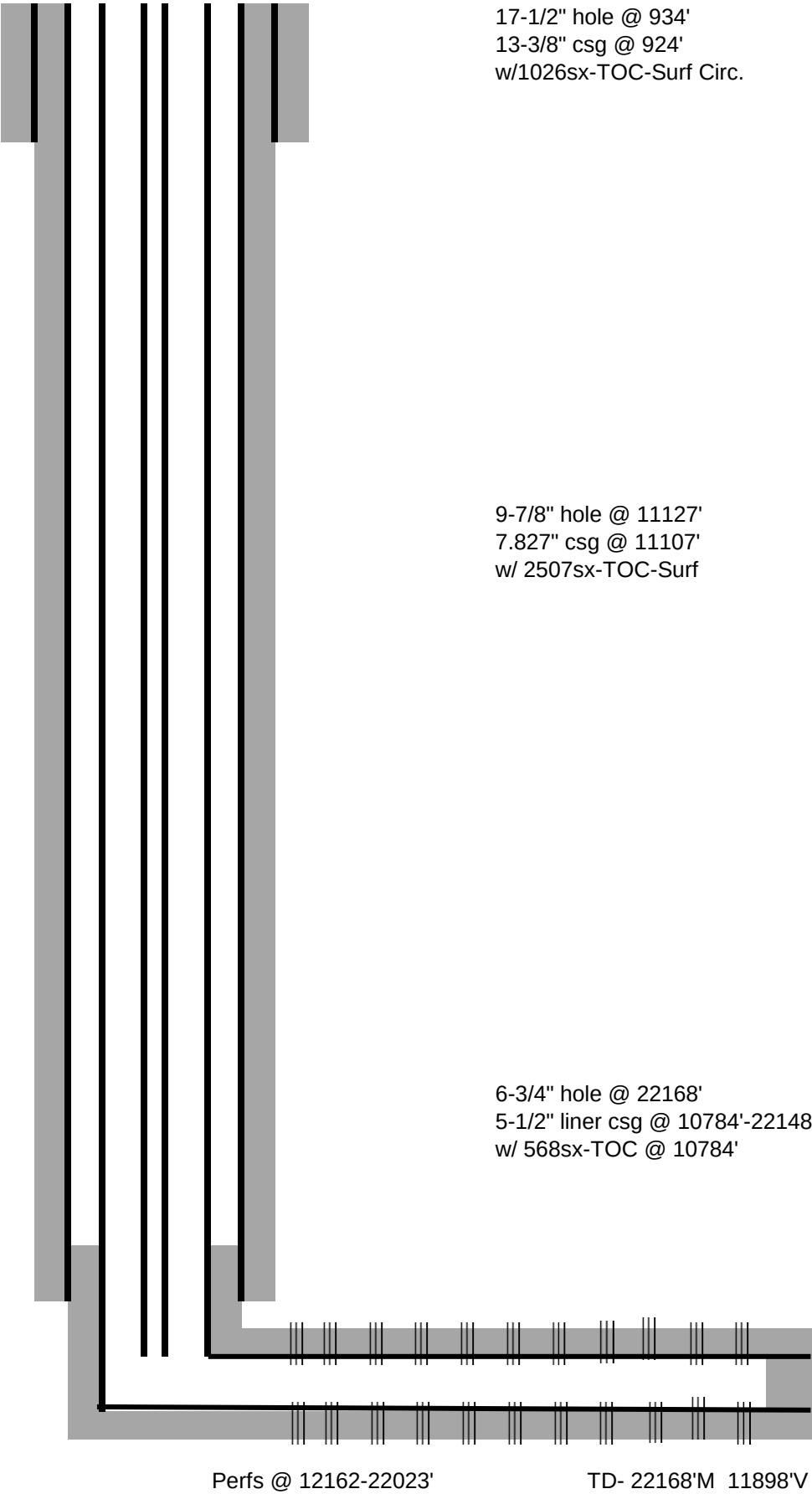
☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial: LAT: _____ LONG: _____

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 10/24/24

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	11965	11718	o/g	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	4623	4620	o/g				
T. Bell Canyon	4659	4655	o/g				
T. Cherry Canyon	5503	5499	o/g				
T. Brushy Canyon	6707	6700	o/g				
T. Bone Springs	8478	8468	o/g				
T. 1st BS Sand	9524	9513	o/g				
T. 2nd BS Carbonate							
T. 2nd BS Sand	10209	10197	o/g				
T. 3rd BS Carbonate							
T. 3rd BS Sand	11238	11226	o/g				

OXY USA Inc.
Lost Tank 30-19 Federal Com 32H
API No. 30-025-47944



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 395659

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 395659
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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CONDITIONS

Action 395659

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 395659
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	7/25/2025