

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 33H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-48464
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	1370 FWL	32.383912°	-103.718511°	LEA

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Gas lift	07/20/24	12257'-22407'MD	11955'-12000'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: 374360	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374360	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: NA	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 374360	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 30-025-48464	Pool Code 98296	Pool Name WC-025 G-09 S223219D; WOLFCAMP
Property Code 322423	Property Name LOST TANK 30-19 FED COM	Well Number 33H
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 1370 WEST	Latitude (NAD 83) 32.383912°	Longitude (NAD 83) -103.718511°	County LEA
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Bottom Hole Location

UL N	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 22 SOUTH	Ft. from E/W 2307 WEST	Latitude (NAD 83) 32.355318°	Longitude (NAD 83) -103.715459°	County LEA
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Dedicated Acres 678.92	Infill or Defining Well Infill	Defining Well API 30-025-47944	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL N	Section 18	Township 22S	Range 32E	Lot	Ft. from N/S 187 SOUTH	Ft. from E/W 2300 WEST	Latitude (NAD 83) 32.384792°	Longitude (NAD 83) -103.715499°	County LEA
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First Take Point (FTP)

UL C	Section 19	Township 22S	Range 32E	Lot	Ft. from N/S 248 NORTH	Ft. from E/W 2321 WEST	Latitude (NAD 83) 32.383596°	Longitude (NAD 83) -103.715430°	County LEA
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Last Take Point (LTP)

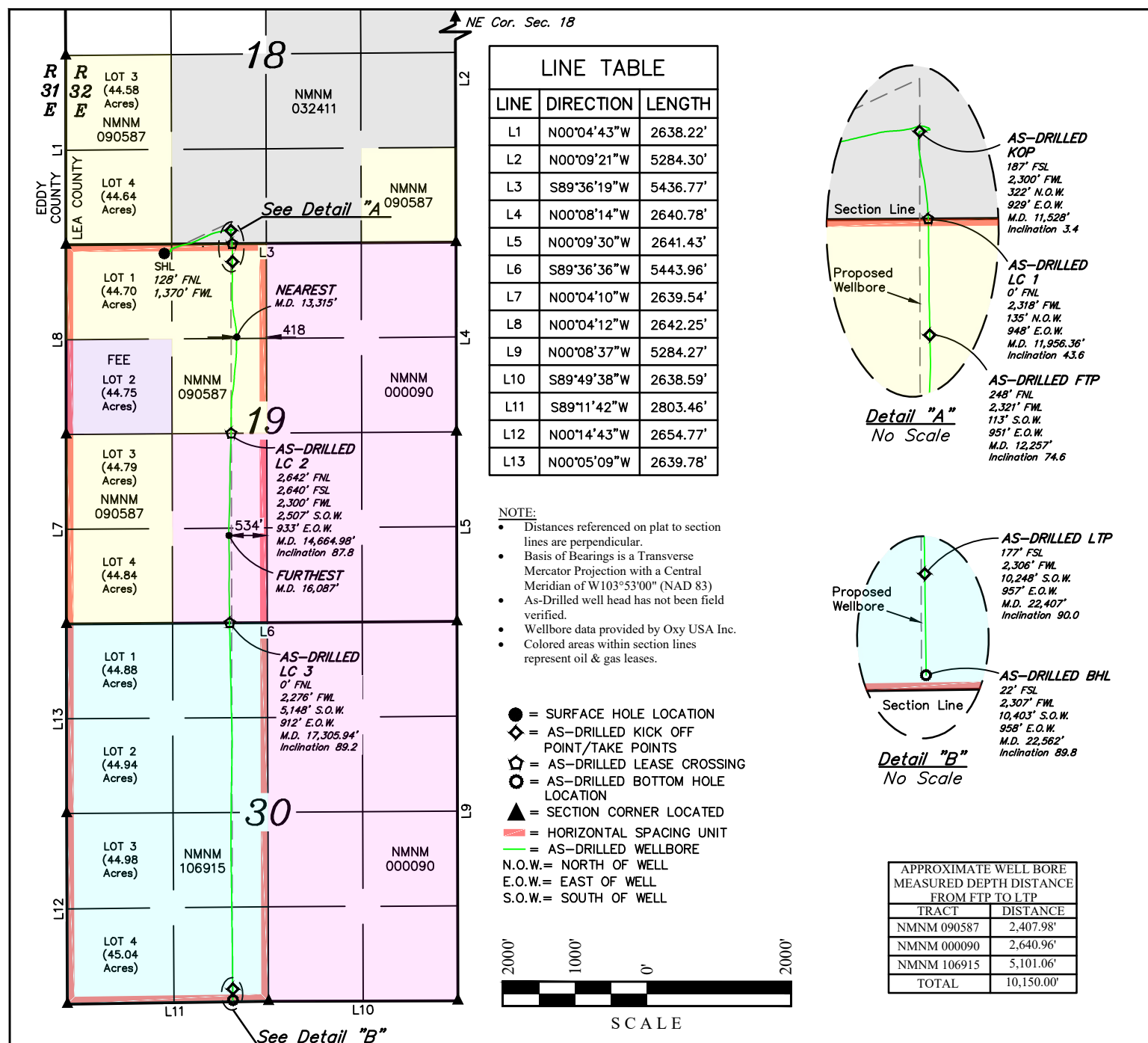
UL N	Section 30	Township 22S	Range 32E	Lot	Ft. from N/S 177 SOUTH	Ft. from E/W 2306 EAST	Latitude (NAD 83) 32.355744°	Longitude (NAD 83) -103.715465°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground 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 Signature _____ Date _____ Jana Mendiola Printed Name _____ janalyn_mendiola@oxy.com Email Address _____	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor 23782 July 18, 2023 Certificate Number _____ Date of Survey _____
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Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name LOST TANK 30-19 FED COM	Well Number 33H	Drawn By T.I.R. 08-05-24	Revised By
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**NAD 83 (SURFACE HOLE LOCATION)**

LATITUDE = 32°23'02.08" (32.383912°)
LONGITUDE = -103°43'06.64" (-103.718511°)

NAD 27 (SURFACE HOLE LOCATION)

LATITUDE = 32°23'01.64" (32.383789°)
LONGITUDE = -103°43'04.88" (-103.718022°)

STATE PLANE NAD 83 (N.M. EAST)

N: 503943.92' E: 731128.32'

STATE PLANE NAD 27 (N.M. EAST)

N: 503883.50' E: 689945.93'

NAD 83 (AS-DRILLED KOP)

LATITUDE = 32°23'05.25" (32.384792°)
LONGITUDE = -103°42'55.80" (-103.715499°)

NAD 27 (AS-DRILLED KOP)

LATITUDE = 32°23'04.81" (32.384669°)
LONGITUDE = -103°42'54.04" (-103.715011°)

STATE PLANE NAD 83 (N.M. EAST)

N: 504269.43' E: 732056.21'

STATE PLANE NAD 27 (N.M. EAST)

N: 504209.00' E: 690873.82'

NAD 83 (AS-DRILLED LC 1)

LATITUDE = 32°23'03.40" (32.384277°)
LONGITUDE = -103°42'55.58" (-103.715440°)

NAD 27 (AS-DRILLED LC 1)

LATITUDE = 32°23'02.96" (32.384154°)
LONGITUDE = -103°42'53.83" (-103.714952°)

STATE PLANE NAD 83 (N.M. EAST)

N: 504082.41' E: 732075.43'

STATE PLANE NAD 27 (N.M. EAST)

N: 504021.99' E: 690893.04'

NAD 83 (AS-DRILLED FTP)

LATITUDE = 32°23'00.94" (32.383596°)
LONGITUDE = -103°42'55.55" (-103.715430°)

NAD 27 (AS-DRILLED FTP)

LATITUDE = 32°23'00.50" (32.383473°)
LONGITUDE = -103°42'53.79" (-103.714942°)

STATE PLANE NAD 83 (N.M. EAST)

N: 503834.52' E: 732079.97'

STATE PLANE NAD 27 (N.M. EAST)

N: 503774.11' E: 690897.57'

NAD 83 (AS-DRILLED LC 2)

LATITUDE = 32°22'37.26" (32.377017°)
LONGITUDE = -103°42'55.81" (-103.715503°)

NAD 27 (AS-DRILLED LC 2)

LATITUDE = 32°22'36.82" (32.376894°)
LONGITUDE = -103°42'54.05" (-103.715015°)

STATE PLANE NAD 83 (N.M. EAST)

N: 501441.10' E: 732071.28'

STATE PLANE NAD 27 (N.M. EAST)

N: 501380.75' E: 690888.81'

NAD 83 (AS-DRILLED LC 3)

LATITUDE = 32°22'11.14" (32.369761°)
LONGITUDE = -103°42'56.10" (-103.715583°)

NAD 27 (AS-DRILLED LC 3)

LATITUDE = 32°22'10.70" (32.369638°)
LONGITUDE = -103°42'54.34" (-103.715095°)

STATE PLANE NAD 83 (N.M. EAST)

N: 498801.02' E: 732061.92'

STATE PLANE NAD 27 (N.M. EAST)

N: 498740.74' E: 690879.38'

NAD 83 (AS-DRILLED LTP)

LATITUDE = 32°21'20.68" (32.355744°)
LONGITUDE = -103°42'55.67" (-103.715465°)

NAD 27 (AS-DRILLED LTP)

LATITUDE = 32°21'20.23" (32.355621°)
LONGITUDE = -103°42'53.92" (-103.714978°)

STATE PLANE NAD 83 (N.M. EAST)

N: 493701.91' E: 732127.73'

STATE PLANE NAD 27 (N.M. EAST)

N: 493641.76' E: 690945.04'

NAD 83 (AS-DRILLED BHL)

LATITUDE = 32°21'19.14" (32.355318°)
LONGITUDE = -103°42'55.65" (-103.715459°)

NAD 27 (AS-DRILLED BHL)

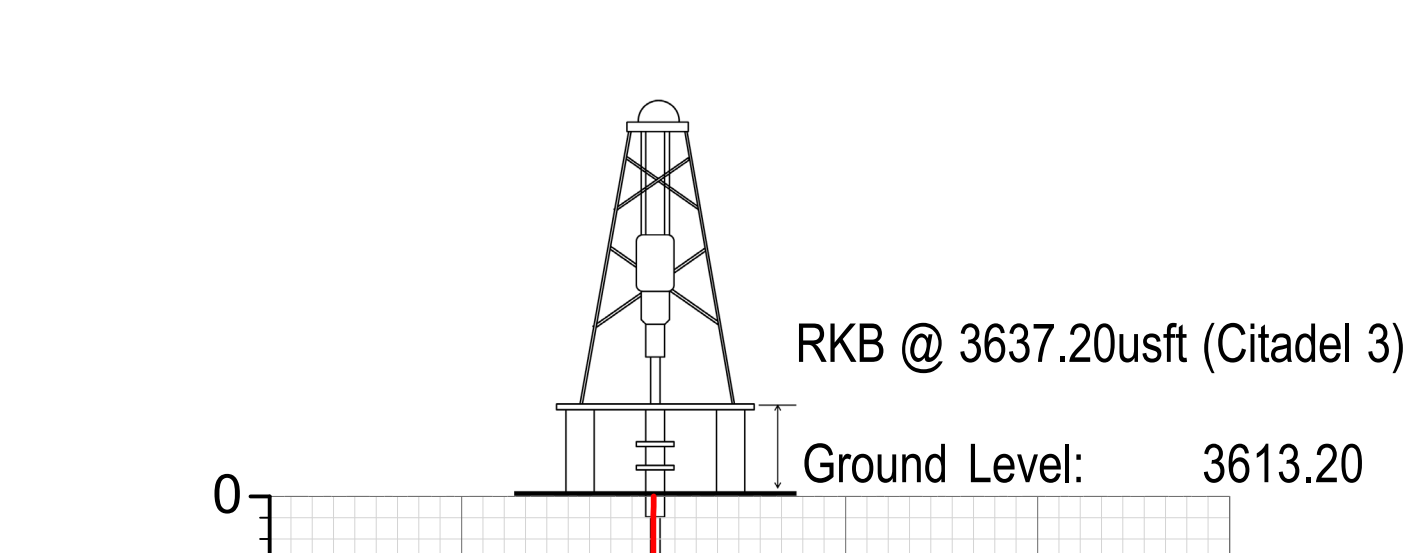
LATITUDE = 32°21'18.70" (32.355195°)
LONGITUDE = -103°42'53.90" (-103.714972°)

STATE PLANE NAD 83 (N.M. EAST)

N: 493546.93' E: 732130.32'

STATE PLANE NAD 27 (N.M. EAST)

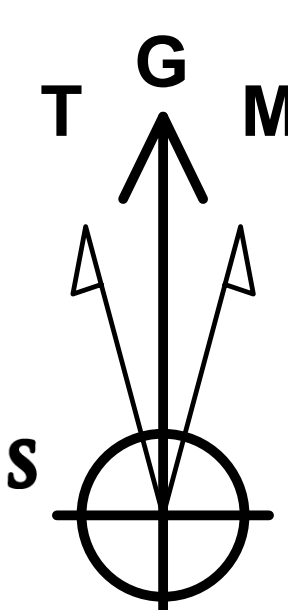
N: 493486.79' E: 690947.63'



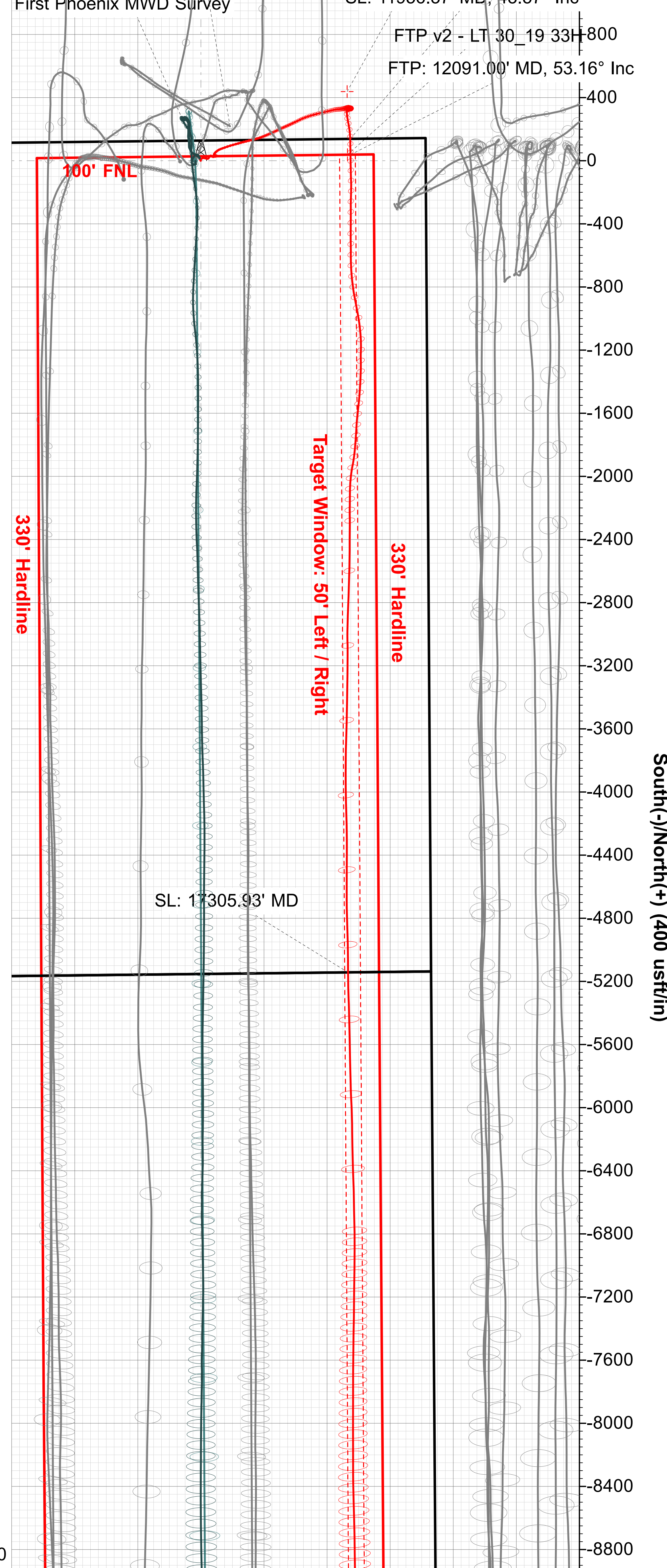
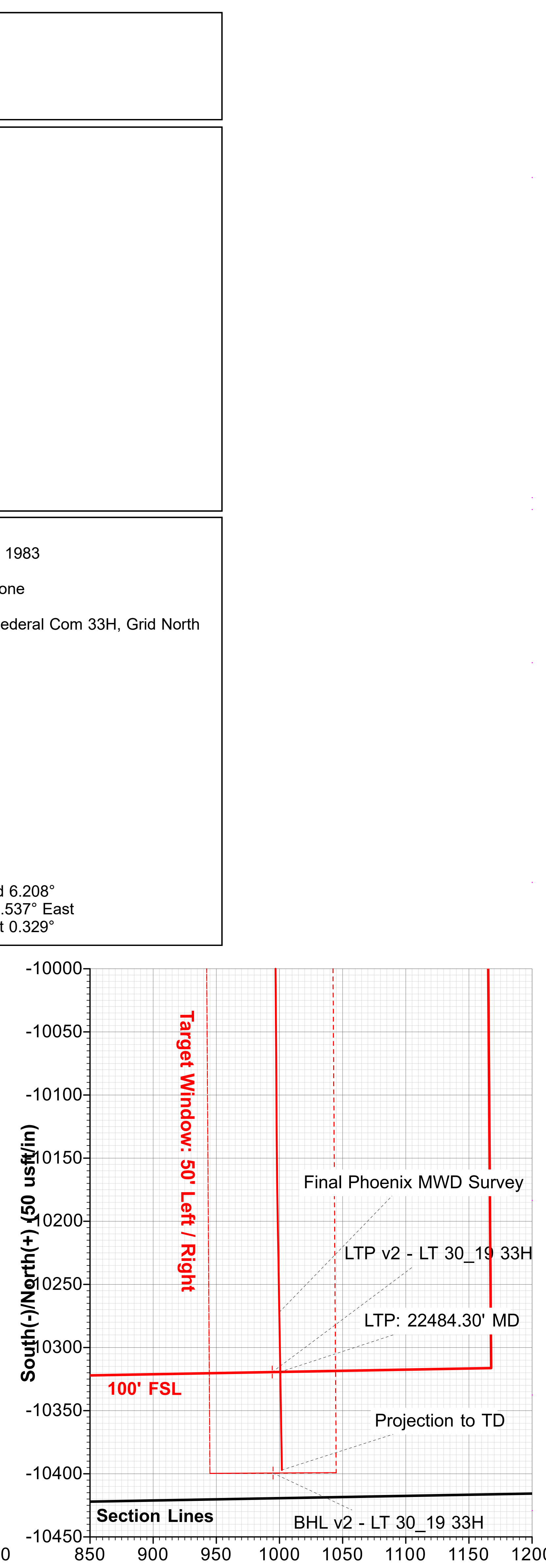
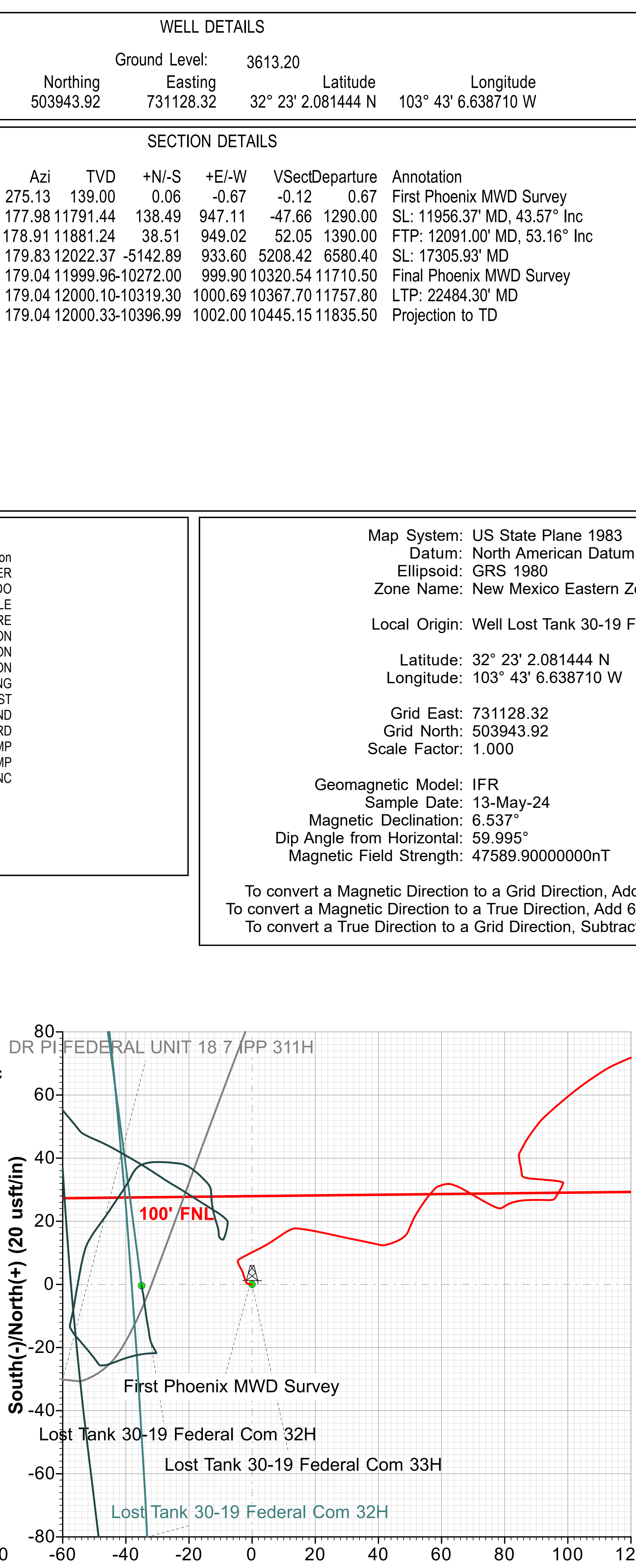
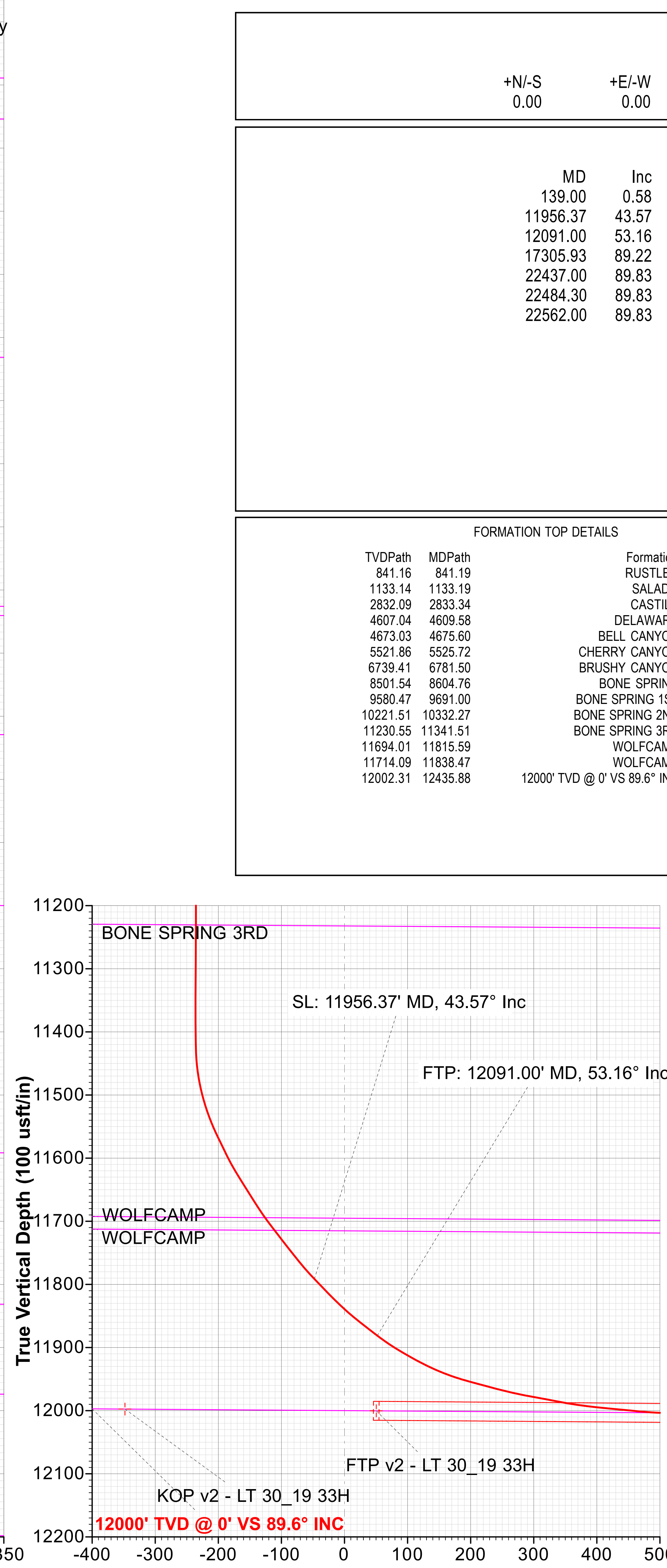
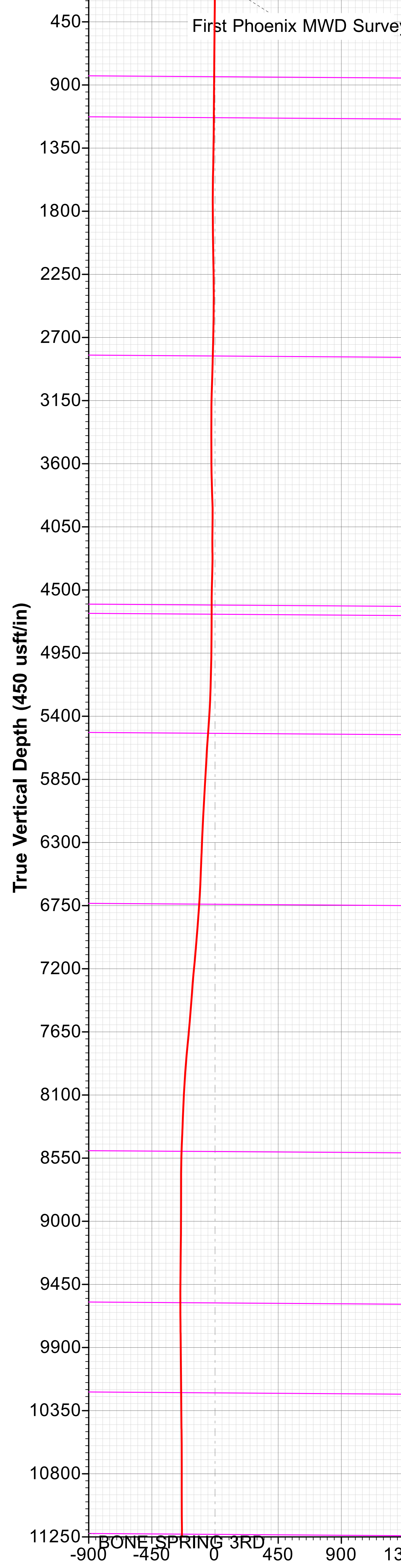
Project: Lea County, NM (NAD83-NME)
 Site: Lost Tank 30-19
 Well: Lost Tank 30-19 Federal Com 33H
 Wellbore: OH / 74695
 Design: Plan 3 06-04-24
 Rig: Citadel 3



PHOENIX
 TECHNOLOGY SERVICES

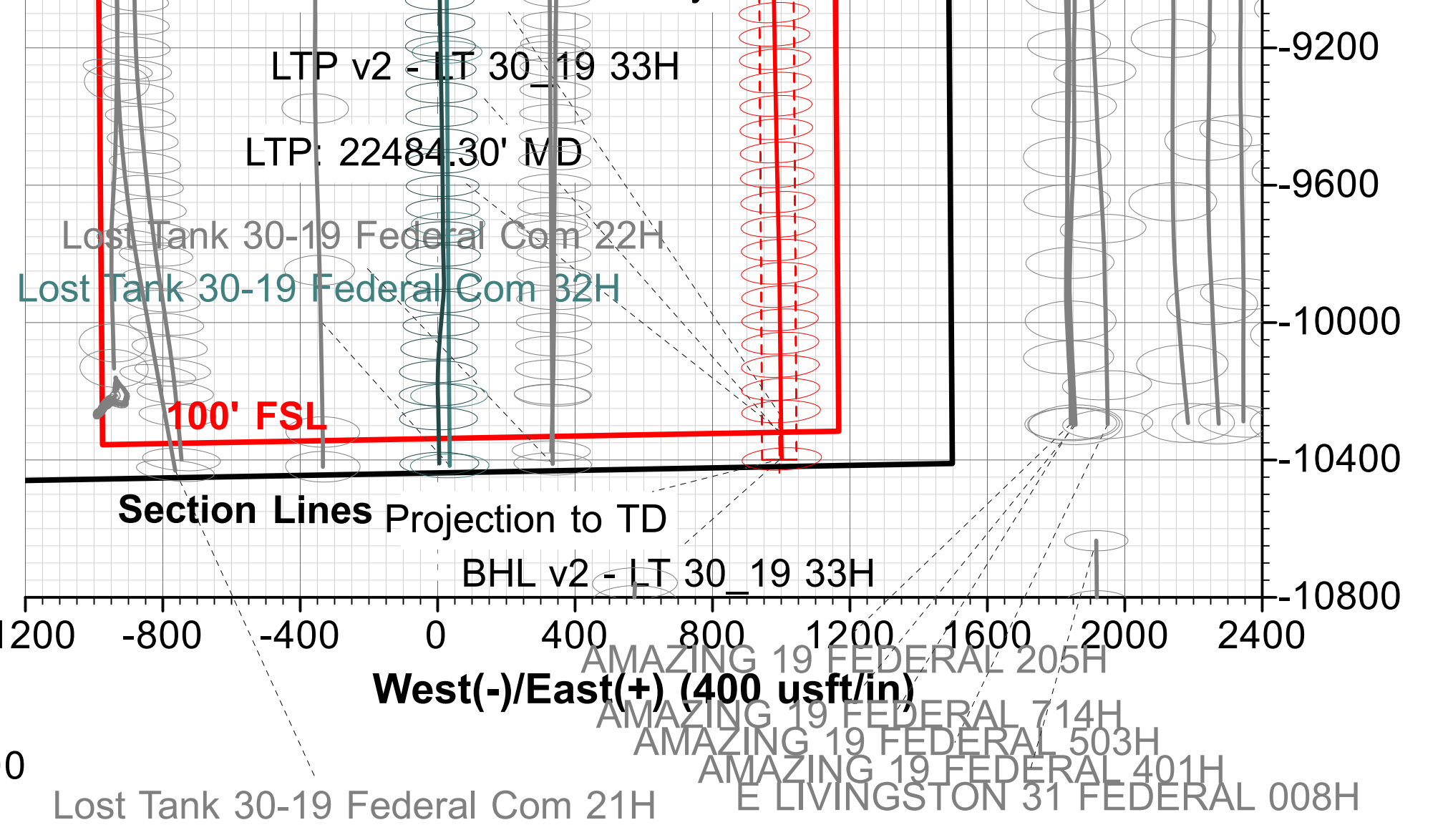
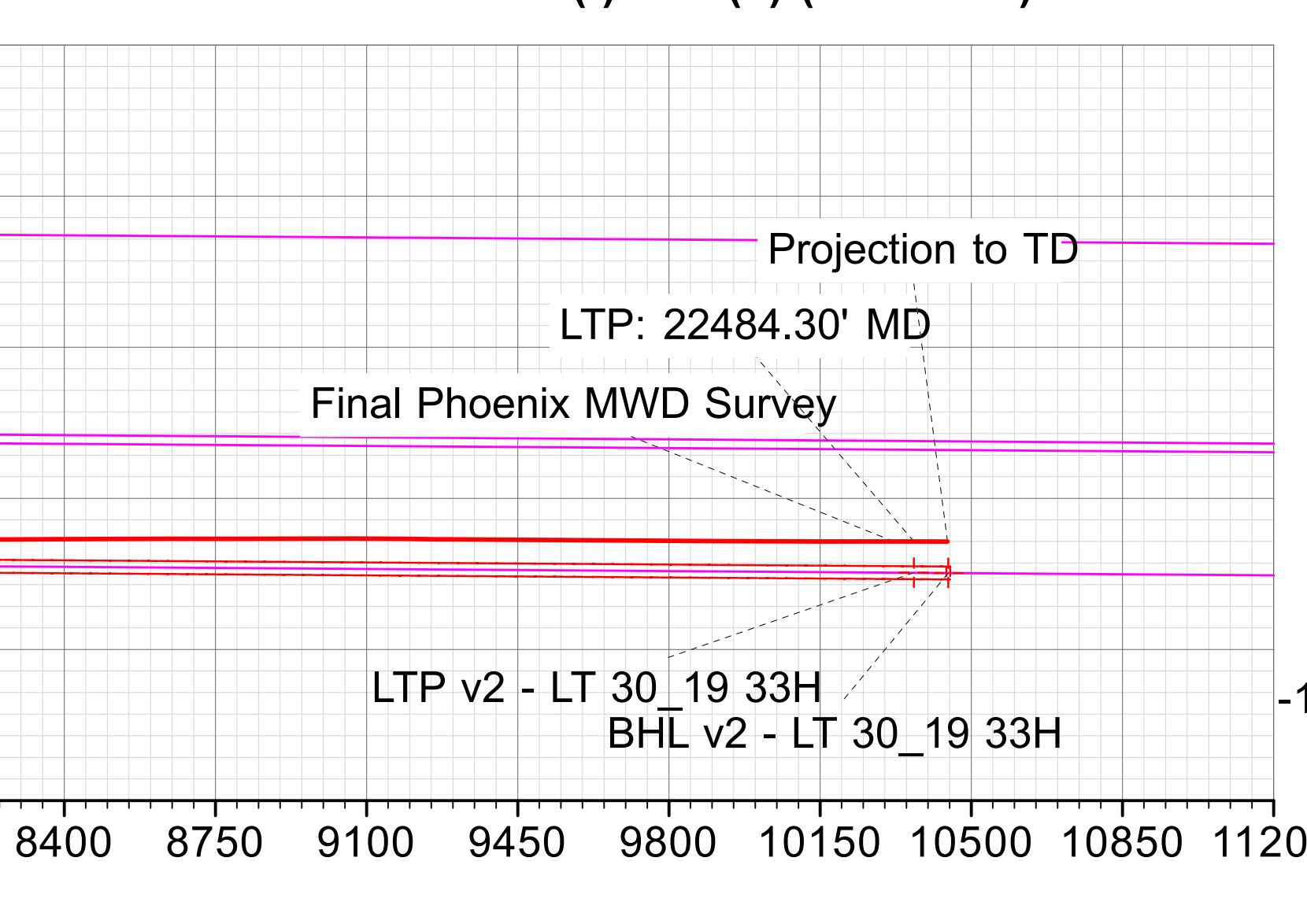
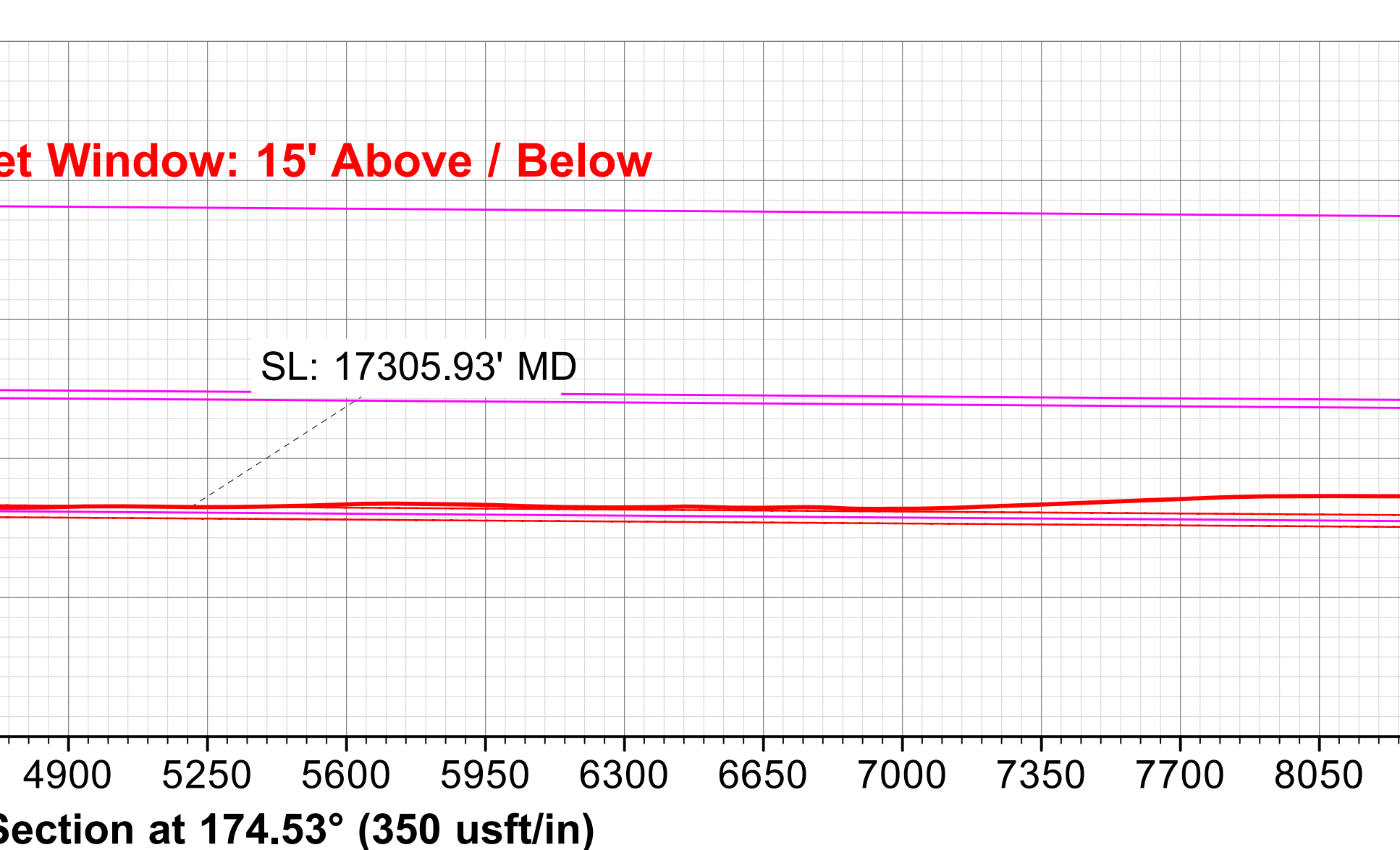
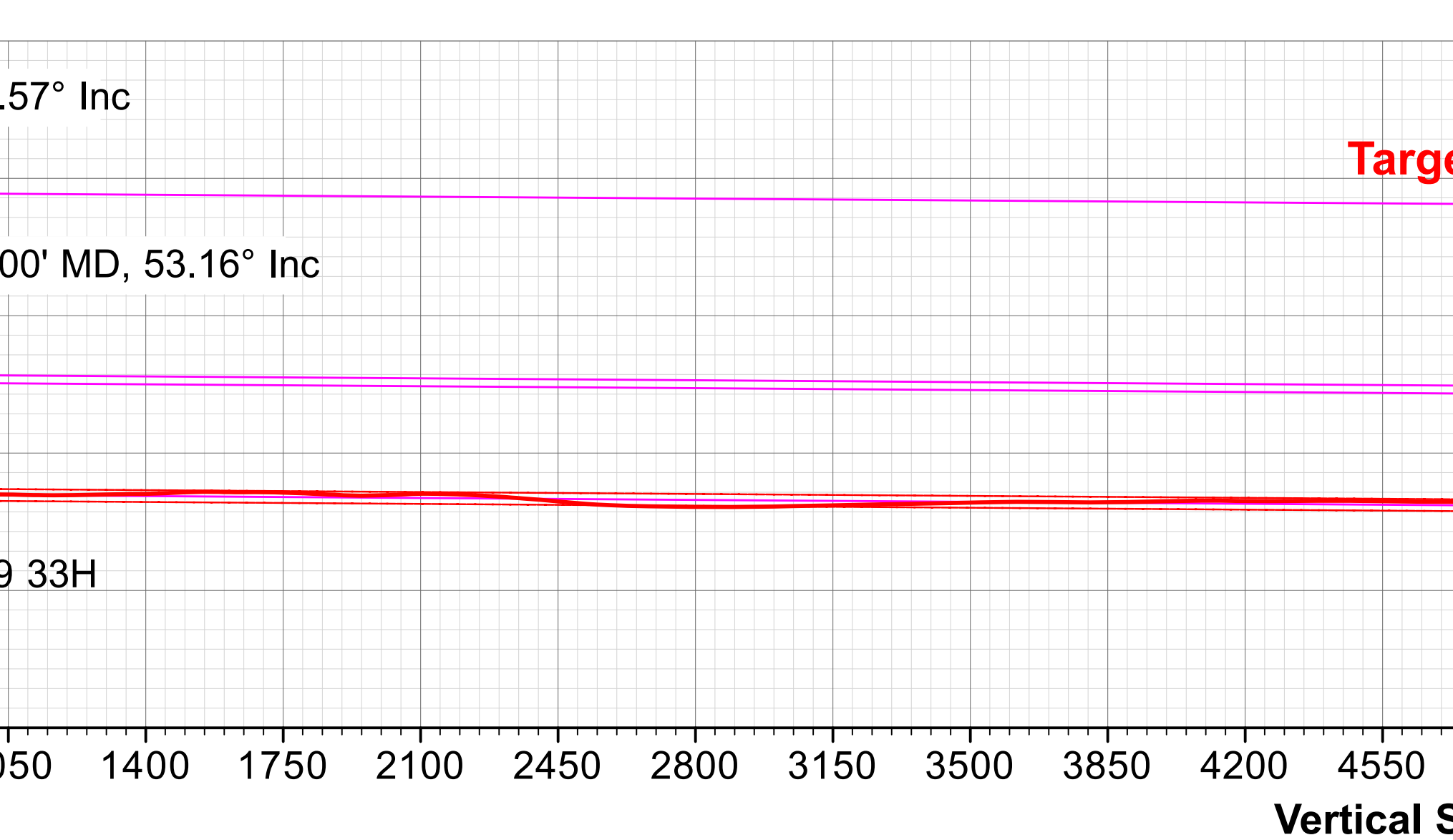
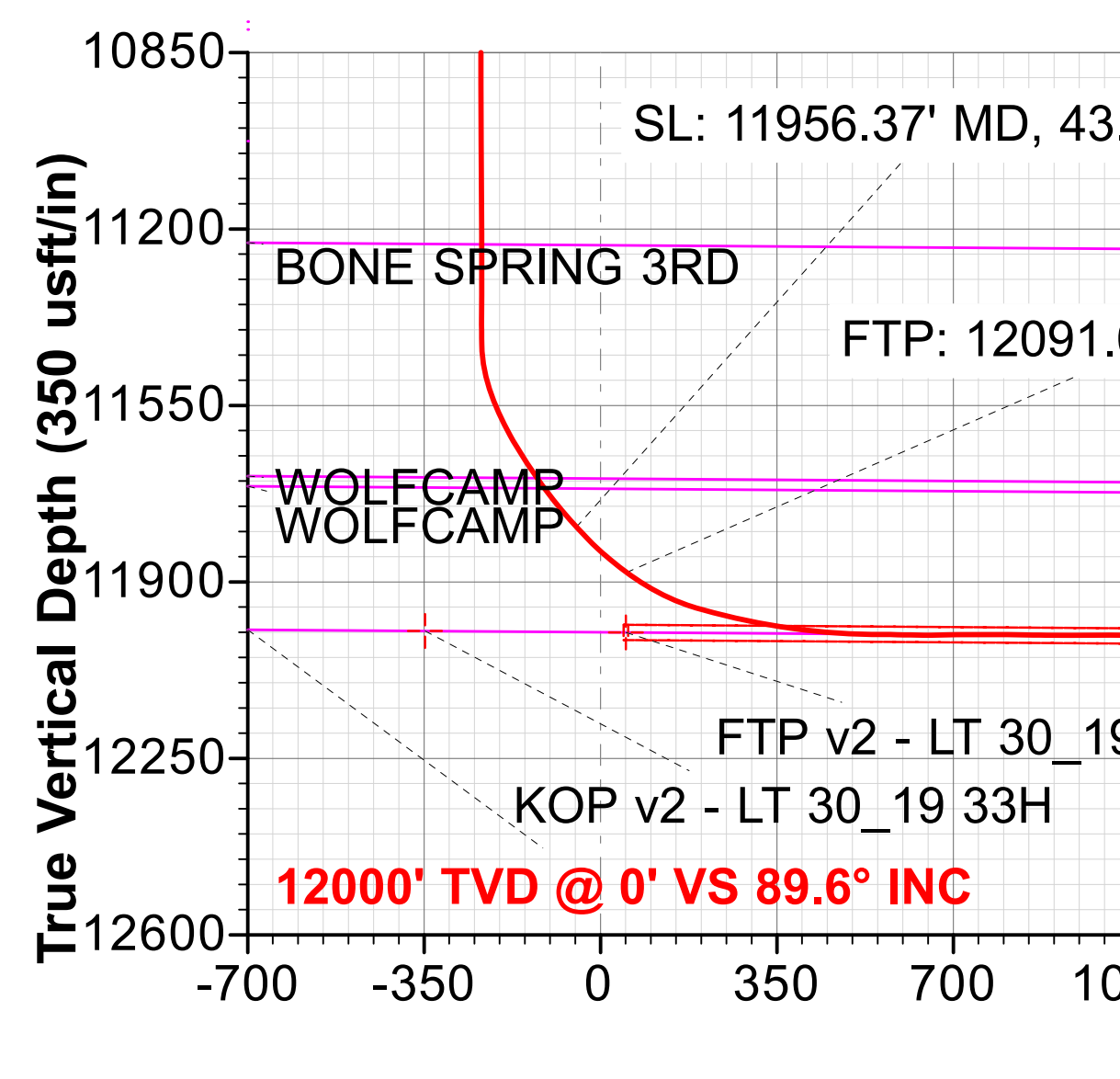


Azimuths to Grid North
 True North: -0.33°
 Magnetic North: 6.21°
Magnetic Field
 Strength: 47589.9nT
 Dip Angle: 59.99°
 Date: 5/13/2024
 Model: IFR



WELL DETAILS									
		Ground Level:		3613.20					
+N/-S	+E/-W	Northing	Easting	Latitude		Longitude			
0.00	0.00	503943.92	731128.32	32° 23' 2.081444 N		103° 43' 6.638710 W			
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
139.00	0.58	275.13	139.00	0.06	-0.67	-0.12	0.67	First Phoenix MWD Survey	
11956.37	43.57	177.98	11791.44	138.49	947.11	-47.66	1290.00	SL: 11956.37' MD, 43.57° Inc	
12091.00	53.16	178.91	11881.24	38.51	949.02	52.05	1390.00	FTP: 12091.00' MD, 53.16° Inc	
17305.93	89.22	179.83	12022.37	-5142.89	933.60	5208.42	6580.40	SL: 17305.93' MD	
22437.00	89.83	179.04	11999.96	-10272.00	999.90	10320.54	11710.50	Final Phoenix MWD Survey	
22484.30	89.83	179.04	12000.10	-10319.30	1000.69	10367.70	11757.80	LTP: 22484.30' MD	
22562.00	89.83	179.04	12000.33	-10396.99	1002.00	10445.15	11835.50	Projection to TD	
FORMATION TOP DETAILS									
TVDPath	MDPath	Formation							
841.16	841.19	RUSTLER							
1133.14	1133.19	SALADO							
2832.09	2833.34	CASTILE							
4607.04	4609.58	DELAWARE							
4673.03	4675.60	BELL CANYON							
5521.86	5525.72	CHERRY CANYON							
6739.41	6781.50	BRUSHY CANYON							
8501.54	8604.76	BONE SPRING							
9580.47	9691.00	BONE SPRING 1ST							
10221.51	10332.27	BONE SPRING 2ND							
11230.55	11341.51	BONE SPRING 3RD							
11694.01	11815.59	WOLFCAMP							
11714.09	11838.47	WOLFCAMP							
12002.31	12435.88	12000' TVD @ 0° VS 89.6° INC							
Map System: US State Plane 1983									
Datum: North American Datum 1983									
Ellipsoid: GRS 1980									
Zone Name: New Mexico Eastern Zone									
Local Origin: Well Lost Tank 30-19 Federal Com 33H, Grid North									
Latitude: 32° 23' 2.081444 N									
Longitude: 103° 43' 6.638710 W									
Grid East: 731128.32									
Grid North: 503943.92									
Scale Factor: 1.000									
Geomagnetic Model: IFR									
Sample Date: 13-May-24									
Magnetic Declination: 6.537°									
Dip Angle from Horizontal: 59.995°									
Magnetic Field Strength: 47589.9000000nT									
To convert a Magnetic Direction to a Grid Direction, Add 6.208°									
To convert a Magnetic Direction to a True Direction, Add 6.537° East									
To convert a True Direction to a Grid Direction, Subtract 0.329°									

3RD



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



OXY USA INC.

**Lea County, NM (NAD83-NME)
Lost Tank 30-19
Lost Tank 30-19 Federal Com 33H
3002548464
OH / 74695**

Design: Surveys (Citadel 3)

Standard Survey Report

21 June, 2024



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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 33H		
Well Position	+N/-S	0.00 usft	Northing: 503,943.92 usft
	+E/-W	0.00 usft	Easting: 731,128.32 usft
Position Uncertainty	2.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.329 °	Ground Level:	3,613.20 usft

Wellbore	OH / 74695				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	5/13/2024	6.537	59.995	47,589.90000000

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	174.53	

Survey Program	Date	6/21/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
24.00	1,059.08	Phoenix MWD Surveys - Surface - SQC (C	A009Mc_MWD+IFR1+SA	MWD+IFR1+Sag	
1,073.00	11,419.40	Phoenix MWD Surveys - Int - SQC (OH / 7	SQC_C705Mb_MWD+IFF	MWD+IFR1+Sag+FDIR	
11,433.00	22,562.00	Phoenix MWD Survey - 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	0.18	274.62	41.70	0.00	-0.03	0.00	1.02	1.02	0.00	
55.60	0.23	274.69	55.60	0.01	-0.08	-0.01	0.36	0.36	0.50	
69.50	0.29	274.76	69.50	0.01	-0.14	-0.02	0.43	0.43	0.50	
83.40	0.35	274.84	83.40	0.02	-0.22	-0.04	0.43	0.43	0.58	
97.30	0.41	274.91	97.30	0.03	-0.31	-0.06	0.43	0.43	0.50	
111.20	0.47	274.98	111.20	0.04	-0.42	-0.07	0.43	0.43	0.50	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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	0.53	275.06	125.10	0.05	-0.54	-0.10	0.43	0.43	0.58
139.00	0.58	275.13	139.00	0.06	-0.67	-0.12	0.36	0.36	0.50
First Phoenix MWD Survey									
153.67	0.57	279.64	153.67	0.08	-0.82	-0.15	0.32	-0.07	30.74
168.33	0.56	284.38	168.33	0.11	-0.96	-0.20	0.33	-0.07	32.33
183.00	0.55	289.32	183.00	0.15	-1.09	-0.25	0.33	-0.07	33.67
197.67	0.55	294.38	197.66	0.20	-1.22	-0.32	0.33	0.00	34.49
212.33	0.55	299.48	212.32	0.26	-1.35	-0.39	0.33	0.00	34.79
227.00	0.55	304.55	226.99	0.34	-1.47	-0.48	0.33	0.00	34.56
241.29	0.55	301.22	241.28	0.41	-1.58	-0.56	0.22	0.00	-23.30
255.57	0.55	297.91	255.56	0.48	-1.70	-0.64	0.22	0.00	-23.18
269.86	0.56	294.66	269.85	0.54	-1.83	-0.71	0.23	0.07	-22.74
284.14	0.71	345.01	284.13	0.66	-1.91	-0.84	3.90	1.05	352.59
298.43	0.68	343.71	298.42	0.82	-1.96	-1.01	0.24	-0.21	-9.10
312.71	0.65	342.29	312.70	0.98	-2.01	-1.17	0.24	-0.21	-9.94
327.00	0.62	340.74	326.99	1.13	-2.06	-1.32	0.24	-0.21	-10.85
340.43	0.62	340.73	340.42	1.27	-2.11	-1.46	0.00	0.00	-0.07
353.86	0.62	340.72	353.85	1.41	-2.15	-1.60	0.00	0.00	-0.07
367.29	0.61	340.71	367.28	1.54	-2.20	-1.74	0.07	-0.07	-0.07
380.71	0.61	340.70	380.69	1.68	-2.25	-1.88	0.00	0.00	-0.07
394.14	0.60	340.70	394.12	1.81	-2.30	-2.02	0.07	-0.07	0.00
407.57	0.60	340.69	407.55	1.94	-2.34	-2.16	0.00	0.00	-0.07
421.00	0.60	340.69	420.98	2.08	-2.39	-2.29	0.00	0.00	0.00
434.57	0.59	340.74	434.55	2.21	-2.44	-2.43	0.07	-0.07	0.37
448.14	0.58	340.79	448.12	2.34	-2.48	-2.57	0.07	-0.07	0.37
461.71	0.57	340.84	461.69	2.47	-2.53	-2.70	0.07	-0.07	0.37
475.29	0.57	340.90	475.27	2.60	-2.57	-2.83	0.00	0.00	0.44
488.86	0.56	340.96	488.84	2.72	-2.61	-2.96	0.07	-0.07	0.44
502.43	0.55	341.02	502.41	2.85	-2.66	-3.09	0.07	-0.07	0.44
516.00	0.55	341.09	515.98	2.97	-2.70	-3.21	0.00	0.00	0.52
529.57	0.53	341.71	529.55	3.09	-2.74	-3.34	0.15	-0.15	4.57
543.14	0.51	342.37	543.12	3.21	-2.78	-3.46	0.15	-0.15	4.86
556.71	0.49	343.09	556.69	3.32	-2.81	-3.57	0.15	-0.15	5.31
570.29	0.47	343.86	570.27	3.43	-2.85	-3.69	0.15	-0.15	5.67
583.86	0.46	344.70	583.84	3.54	-2.88	-3.79	0.09	-0.07	6.19
597.43	0.44	345.59	597.40	3.64	-2.90	-3.90	0.16	-0.15	6.56
611.00	0.42	346.57	610.97	3.74	-2.93	-4.00	0.16	-0.15	7.22
624.57	0.43	343.78	624.54	3.84	-2.95	-4.10	0.17	0.07	-20.56
638.14	0.44	341.08	638.11	3.93	-2.98	-4.20	0.17	0.07	-19.90
651.71	0.45	338.49	651.68	4.03	-3.02	-4.30	0.17	0.07	-19.09
665.29	0.46	336.01	665.26	4.13	-3.06	-4.41	0.16	0.07	-18.26
678.86	0.47	333.64	678.83	4.23	-3.11	-4.51	0.16	0.07	-17.46
692.43	0.48	331.39	692.40	4.33	-3.16	-4.61	0.16	0.07	-16.58



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
706.00	0.49	329.26	705.97	4.43	-3.22	-4.72	0.15	0.07	-15.70
719.43	0.50	329.28	719.40	4.53	-3.28	-4.82	0.07	0.07	0.15
732.86	0.50	329.30	732.83	4.63	-3.34	-4.93	0.00	0.00	0.15
746.29	0.50	329.33	746.26	4.73	-3.40	-5.03	0.00	0.00	0.22
759.71	0.50	329.36	759.68	4.83	-3.46	-5.14	0.00	0.00	0.22
773.14	0.51	329.40	773.11	4.94	-3.52	-5.25	0.07	0.07	0.30
786.57	0.51	329.45	786.54	5.04	-3.58	-5.36	0.00	0.00	0.37
800.00	0.51	329.50	799.97	5.14	-3.64	-5.46	0.00	0.00	0.37
813.14	0.53	330.57	813.11	5.24	-3.70	-5.57	0.17	0.15	8.14
826.29	0.54	331.59	826.26	5.35	-3.76	-5.69	0.11	0.08	7.76
839.43	0.56	332.56	839.40	5.46	-3.82	-5.80	0.17	0.15	7.38
852.57	0.58	333.48	852.54	5.58	-3.88	-5.92	0.17	0.15	7.00
865.71	0.59	334.36	865.67	5.70	-3.93	-6.05	0.10	0.08	6.70
878.86	0.61	335.19	878.82	5.83	-3.99	-6.18	0.17	0.15	6.31
892.00	0.63	335.97	891.96	5.95	-4.05	-6.31	0.17	0.15	5.94
905.92	0.59	336.48	905.88	6.09	-4.11	-6.45	0.29	-0.29	3.66
919.85	0.56	337.05	919.81	6.22	-4.17	-6.59	0.22	-0.22	4.09
933.77	0.53	337.69	933.73	6.34	-4.22	-6.71	0.22	-0.22	4.60
947.69	0.50	338.40	947.65	6.46	-4.27	-6.83	0.22	-0.22	5.10
961.62	0.48	339.21	961.58	6.57	-4.31	-6.95	0.15	-0.14	5.81
975.54	0.45	340.12	975.50	6.67	-4.35	-7.06	0.22	-0.22	6.54
989.46	0.42	341.17	989.42	6.77	-4.38	-7.16	0.22	-0.22	7.54
1,003.38	0.39	342.37	1,003.34	6.87	-4.41	-7.26	0.22	-0.22	8.62
1,017.31	0.36	343.76	1,017.27	6.95	-4.44	-7.35	0.23	-0.22	9.98
1,031.23	0.33	345.40	1,031.19	7.03	-4.46	-7.43	0.23	-0.22	11.78
1,045.15	0.30	347.33	1,045.11	7.11	-4.48	-7.50	0.23	-0.22	13.86
1,059.08	0.28	349.63	1,059.04	7.18	-4.49	-7.57	0.17	-0.14	16.51
1,073.00	0.25	352.42	1,072.96	7.24	-4.50	-7.64	0.23	-0.22	20.04
1,086.43	0.26	354.97	1,086.39	7.30	-4.51	-7.70	0.11	0.07	18.99
1,099.86	0.27	357.36	1,099.82	7.36	-4.52	-7.76	0.11	0.07	17.80
1,113.29	0.33	10.29	1,113.25	7.43	-4.51	-7.83	0.67	0.45	96.28
1,126.71	0.48	23.80	1,126.67	7.52	-4.48	-7.91	1.32	1.12	100.67
1,140.14	0.49	24.84	1,140.10	7.63	-4.43	-8.01	0.10	0.07	7.74
1,153.57	0.50	25.83	1,153.53	7.73	-4.38	-8.11	0.10	0.07	7.37
1,167.00	0.89	48.99	1,166.95	7.85	-4.28	-8.22	3.52	2.90	172.45
1,180.57	1.64	60.17	1,180.52	8.02	-4.03	-8.37	5.79	5.53	82.39
1,194.14	1.67	60.46	1,194.09	8.21	-3.69	-8.53	0.23	0.22	2.14
1,207.71	1.70	60.77	1,207.65	8.41	-3.34	-8.69	0.23	0.22	2.28
1,221.29	1.73	61.09	1,221.22	8.61	-2.99	-8.85	0.23	0.22	2.36
1,234.86	1.77	61.41	1,234.79	8.80	-2.62	-9.01	0.30	0.29	2.36
1,248.43	1.81	61.73	1,248.35	9.01	-2.25	-9.18	0.30	0.29	2.36
1,262.00	1.85	62.02	1,261.91	9.21	-1.87	-9.35	0.30	0.29	2.14
1,275.57	1.89	62.39	1,275.48	9.42	-1.48	-9.51	0.31	0.29	2.73
1,289.14	1.93	62.74	1,289.04	9.63	-1.08	-9.68	0.31	0.29	2.58



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
1,302.71	1.98	63.06	1,302.60	9.84	-0.66	-9.85	0.38	0.37	2.36
1,316.29	2.02	63.34	1,316.17	10.05	-0.24	-10.03	0.30	0.29	2.06
1,329.86	2.06	63.54	1,329.73	10.27	0.19	-10.20	0.30	0.29	1.47
1,343.43	2.10	63.65	1,343.30	10.48	0.63	-10.38	0.30	0.29	0.81
1,357.00	2.13	63.63	1,356.86	10.71	1.08	-10.56	0.22	0.22	-0.15
1,370.57	2.15	63.38	1,370.42	10.93	1.53	-10.74	0.16	0.15	-1.84
1,384.14	2.16	63.01	1,383.98	11.16	1.99	-10.92	0.13	0.07	-2.73
1,397.71	2.17	62.55	1,397.54	11.40	2.45	-11.11	0.15	0.07	-3.39
1,411.29	2.17	62.03	1,411.11	11.64	2.90	-11.31	0.14	0.00	-3.83
1,424.86	2.17	61.48	1,424.67	11.88	3.35	-11.51	0.15	0.00	-4.05
1,438.43	2.17	60.90	1,438.23	12.13	3.80	-11.71	0.16	0.00	-4.27
1,452.00	2.17	60.29	1,451.79	12.38	4.25	-11.92	0.17	0.00	-4.50
1,465.57	2.17	59.67	1,465.35	12.64	4.70	-12.13	0.17	0.00	-4.57
1,479.14	2.16	59.05	1,478.91	12.90	5.14	-12.35	0.19	-0.07	-4.57
1,492.71	2.16	58.42	1,492.47	13.16	5.57	-12.57	0.17	0.00	-4.64
1,506.29	2.15	57.82	1,506.04	13.43	6.01	-12.80	0.18	-0.07	-4.42
1,519.86	2.15	57.25	1,519.60	13.71	6.44	-13.03	0.16	0.00	-4.20
1,533.43	2.15	56.72	1,533.16	13.98	6.86	-13.27	0.15	0.00	-3.91
1,547.00	2.14	56.25	1,546.72	14.26	7.29	-13.51	0.15	-0.07	-3.46
1,560.57	2.14	55.88	1,560.28	14.55	7.71	-13.75	0.10	0.00	-2.73
1,574.14	2.14	55.61	1,573.84	14.83	8.13	-13.99	0.07	0.00	-1.99
1,587.71	2.13	55.44	1,587.40	15.12	8.54	-14.24	0.09	-0.07	-1.25
1,601.29	2.13	55.43	1,600.97	15.41	8.96	-14.48	0.00	0.00	-0.07
1,614.86	2.12	55.62	1,614.53	15.69	9.37	-14.73	0.09	-0.07	1.40
1,628.43	2.12	56.09	1,628.10	15.97	9.79	-14.97	0.13	0.00	3.46
1,642.00	2.10	56.99	1,641.66	16.25	10.21	-15.20	0.29	-0.15	6.63
1,655.43	2.09	58.54	1,655.08	16.51	10.62	-15.42	0.43	-0.07	11.54
1,668.86	2.07	60.51	1,668.50	16.76	11.04	-15.63	0.55	-0.15	14.67
1,682.29	2.05	62.74	1,681.92	16.99	11.47	-15.82	0.62	-0.15	16.60
1,695.71	2.04	65.11	1,695.33	17.20	11.90	-15.99	0.63	-0.07	17.66
1,709.14	2.03	67.49	1,708.75	17.39	12.33	-16.13	0.63	-0.07	17.72
1,722.57	2.03	69.76	1,722.17	17.56	12.78	-16.26	0.60	0.00	16.90
1,736.00	2.03	71.74	1,735.60	17.72	13.22	-16.38	0.52	0.00	14.74
1,749.57	2.24	94.29	1,749.16	17.77	13.72	-16.39	6.34	1.55	166.18
1,763.14	2.25	95.40	1,762.72	17.73	14.25	-16.29	0.33	0.07	8.18
1,776.71	2.26	96.31	1,776.28	17.67	14.78	-16.19	0.27	0.07	6.71
1,790.29	2.27	97.08	1,789.84	17.61	15.31	-16.07	0.24	0.07	5.67
1,803.86	2.28	97.74	1,803.40	17.54	15.85	-15.95	0.21	0.07	4.86
1,817.43	2.30	98.31	1,816.96	17.47	16.38	-15.83	0.22	0.15	4.20
1,831.00	2.31	98.79	1,830.52	17.39	16.92	-15.69	0.16	0.07	3.54
1,844.57	2.32	99.21	1,844.08	17.30	17.46	-15.56	0.15	0.07	3.10
1,858.14	2.34	99.57	1,857.64	17.21	18.01	-15.42	0.18	0.15	2.65
1,871.71	2.35	99.88	1,871.20	17.12	18.55	-15.27	0.12	0.07	2.28



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
1,885.29	2.36	100.15	1,884.77	17.02	19.10	-15.12	0.11	0.07	1.99
1,898.86	2.37	100.41	1,898.33	16.92	19.66	-14.97	0.11	0.07	1.92
1,912.43	2.39	100.66	1,911.88	16.82	20.21	-14.81	0.17	0.15	1.84
1,926.00	2.40	100.91	1,925.44	16.71	20.77	-14.66	0.11	0.07	1.84
1,939.57	2.41	101.17	1,939.00	16.60	21.33	-14.49	0.11	0.07	1.92
1,953.14	2.43	101.44	1,952.56	16.49	21.89	-14.33	0.17	0.15	1.99
1,966.71	2.44	101.70	1,966.12	16.37	22.45	-14.16	0.11	0.07	1.92
1,980.29	2.45	101.94	1,979.68	16.25	23.02	-13.99	0.11	0.07	1.77
1,993.86	2.47	102.15	1,993.24	16.13	23.59	-13.81	0.16	0.15	1.55
2,007.43	2.48	102.34	2,006.80	16.01	24.16	-13.63	0.10	0.07	1.40
2,021.00	2.49	102.48	2,020.36	15.88	24.74	-13.45	0.09	0.07	1.03
2,034.57	2.50	102.56	2,033.91	15.75	25.31	-13.27	0.08	0.07	0.59
2,048.14	2.51	102.60	2,047.47	15.62	25.89	-13.09	0.07	0.07	0.29
2,061.71	2.52	102.60	2,061.03	15.49	26.47	-12.90	0.07	0.07	0.00
2,075.29	2.52	102.57	2,074.59	15.36	27.06	-12.72	0.01	0.00	-0.22
2,088.86	2.53	102.51	2,088.15	15.23	27.64	-12.53	0.08	0.07	-0.44
2,102.43	2.54	102.42	2,101.71	15.11	28.23	-12.35	0.08	0.07	-0.66
2,116.00	2.54	102.31	2,115.26	14.98	28.81	-12.16	0.04	0.00	-0.81
2,129.57	2.55	102.16	2,128.82	14.85	29.40	-11.98	0.09	0.07	-1.11
2,143.14	2.55	101.98	2,142.38	14.72	29.99	-11.80	0.06	0.00	-1.33
2,156.71	2.55	101.80	2,155.93	14.60	30.58	-11.62	0.06	0.00	-1.33
2,170.29	2.56	101.62	2,169.50	14.48	31.18	-11.44	0.09	0.07	-1.33
2,183.86	2.56	101.46	2,183.06	14.35	31.77	-11.26	0.05	0.00	-1.18
2,197.43	2.57	101.33	2,196.61	14.23	32.36	-11.09	0.09	0.07	-0.96
2,211.00	2.58	101.27	2,210.17	14.11	32.96	-10.91	0.08	0.07	-0.44
2,224.57	2.60	101.32	2,223.73	13.99	33.56	-10.73	0.15	0.15	0.37
2,238.14	2.63	101.43	2,237.28	13.87	34.17	-10.55	0.22	0.22	0.81
2,251.71	2.65	101.57	2,250.84	13.75	34.78	-10.37	0.15	0.15	1.03
2,265.29	2.67	101.73	2,264.40	13.62	35.40	-10.19	0.16	0.15	1.18
2,278.86	2.69	101.88	2,277.96	13.49	36.02	-10.00	0.16	0.15	1.11
2,292.43	2.70	102.02	2,291.51	13.36	36.65	-9.81	0.09	0.07	1.03
2,306.00	2.71	102.15	2,305.07	13.22	37.27	-9.61	0.09	0.07	0.96
2,319.57	2.70	102.26	2,318.62	13.09	37.90	-9.42	0.08	-0.07	0.81
2,333.14	2.67	102.33	2,332.18	12.95	38.52	-9.23	0.22	-0.22	0.52
2,346.71	2.65	102.33	2,345.73	12.82	39.13	-9.03	0.15	-0.15	0.00
2,360.29	2.62	102.24	2,359.30	12.69	39.74	-8.84	0.22	-0.22	-0.66
2,373.86	2.60	102.01	2,372.85	12.56	40.35	-8.66	0.17	-0.15	-1.69
2,387.43	2.58	101.59	2,386.41	12.43	40.95	-8.47	0.20	-0.15	-3.10
2,401.00	2.22	85.21	2,399.97	12.39	41.51	-8.38	5.68	-2.65	-120.71
2,414.57	2.16	78.98	2,413.53	12.46	42.02	-8.40	1.81	-0.44	-45.91
2,428.14	2.19	77.42	2,427.09	12.57	42.53	-8.46	0.49	0.22	-11.50
2,441.71	2.22	75.69	2,440.65	12.69	43.03	-8.53	0.54	0.22	-12.75
2,455.29	2.25	73.86	2,454.22	12.83	43.55	-8.62	0.57	0.22	-13.48



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
2,468.86	2.28	71.99	2,467.78	12.99	44.06	-8.73	0.59	0.22	-13.78
2,482.43	2.29	70.09	2,481.34	13.16	44.57	-8.86	0.56	0.07	-14.00
2,496.00	2.29	68.13	2,494.90	13.35	45.08	-9.00	0.58	0.00	-14.44
2,509.57	2.25	66.25	2,508.46	13.56	45.57	-9.16	0.62	-0.29	-13.85
2,523.14	2.18	64.32	2,522.02	13.78	46.05	-9.33	0.75	-0.52	-14.22
2,536.71	2.10	62.27	2,535.58	14.01	46.50	-9.52	0.82	-0.59	-15.11
2,550.29	2.02	60.05	2,549.15	14.25	46.93	-9.71	0.83	-0.59	-16.35
2,563.86	1.94	57.60	2,562.71	14.49	47.33	-9.91	0.86	-0.59	-18.05
2,577.43	1.86	54.87	2,576.27	14.74	47.70	-10.13	0.89	-0.59	-20.12
2,591.00	1.78	51.80	2,589.83	14.99	48.05	-10.35	0.93	-0.59	-22.62
2,604.57	1.65	47.04	2,603.40	15.26	48.36	-10.58	1.42	-0.96	-35.08
2,618.14	1.60	40.79	2,616.96	15.53	48.62	-10.83	1.36	-0.37	-46.06
2,631.71	1.55	37.01	2,630.53	15.82	48.86	-11.10	0.85	-0.37	-27.86
2,645.29	1.51	33.15	2,644.10	16.12	49.07	-11.37	0.81	-0.29	-28.42
2,658.86	1.48	29.43	2,657.67	16.42	49.25	-11.66	0.75	-0.22	-27.41
2,672.43	1.46	26.11	2,671.23	16.73	49.41	-11.95	0.64	-0.15	-24.47
2,686.00	1.45	23.55	2,684.80	17.04	49.56	-12.25	0.48	-0.07	-18.87
2,699.57	1.43	22.41	2,698.37	17.36	49.69	-12.55	0.26	-0.15	-8.40
2,713.14	1.43	22.03	2,711.93	17.67	49.82	-12.85	0.07	0.00	-2.80
2,726.71	1.44	22.17	2,725.50	17.99	49.95	-13.15	0.08	0.07	1.03
2,740.29	1.46	22.63	2,739.07	18.30	50.08	-13.45	0.17	0.15	3.39
2,753.86	1.48	23.31	2,752.64	18.62	50.21	-13.76	0.20	0.15	5.01
2,767.43	1.50	24.11	2,766.20	18.95	50.36	-14.07	0.21	0.15	5.90
2,781.00	1.53	24.95	2,779.77	19.27	50.50	-14.38	0.28	0.22	6.19
2,794.57	1.47	21.50	2,793.33	19.60	50.64	-14.69	0.80	-0.44	-25.42
2,808.14	1.50	22.91	2,806.90	19.93	50.78	-15.00	0.35	0.22	10.39
2,821.71	1.54	24.33	2,820.46	20.26	50.92	-15.31	0.40	0.29	10.46
2,835.29	1.58	25.70	2,834.04	20.59	51.08	-15.63	0.40	0.29	10.09
2,848.86	1.63	26.97	2,847.60	20.93	51.25	-15.95	0.45	0.37	9.36
2,862.43	1.68	28.10	2,861.17	21.28	51.43	-16.28	0.44	0.37	8.33
2,876.00	1.74	29.00	2,874.73	21.63	51.62	-16.62	0.48	0.44	6.63
2,889.57	1.80	29.96	2,888.30	22.00	51.83	-16.96	0.49	0.44	7.07
2,903.14	1.87	30.76	2,901.86	22.37	52.05	-17.31	0.55	0.52	5.90
2,916.71	1.94	31.43	2,915.42	22.76	52.28	-17.68	0.54	0.52	4.94
2,930.29	2.01	32.02	2,928.99	23.16	52.53	-18.05	0.54	0.52	4.34
2,943.86	2.09	32.53	2,942.56	23.57	52.79	-18.43	0.60	0.59	3.76
2,957.43	2.17	32.97	2,956.12	23.99	53.06	-18.83	0.60	0.59	3.24
2,971.00	2.25	33.34	2,969.68	24.43	53.35	-19.24	0.60	0.59	2.73
2,984.57	2.33	33.77	2,983.23	24.88	53.65	-19.66	0.60	0.59	3.17
2,998.14	2.40	34.17	2,996.79	25.35	53.96	-20.09	0.53	0.52	2.95
3,011.71	2.41	35.14	3,010.35	25.82	54.28	-20.53	0.31	0.07	7.15
3,025.29	2.48	35.54	3,023.92	26.29	54.62	-20.97	0.53	0.52	2.95
3,038.86	2.53	35.99	3,037.48	26.77	54.96	-21.41	0.40	0.37	3.32
3,052.43	2.57	36.53	3,051.03	27.26	55.32	-21.86	0.34	0.29	3.98



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
3,066.00	2.57	37.24	3,064.59	27.74	55.69	-22.31	0.23	0.00	5.23
3,079.57	2.53	38.20	3,078.15	28.22	56.06	-22.75	0.43	-0.29	7.07
3,093.14	2.46	39.35	3,091.70	28.68	56.42	-23.18	0.63	-0.52	8.47
3,106.71	2.54	41.72	3,105.26	29.13	56.81	-23.59	0.96	0.59	17.46
3,120.29	2.45	43.07	3,118.83	29.57	57.21	-23.98	0.79	-0.66	9.94
3,133.86	2.36	44.46	3,132.38	29.98	57.60	-24.36	0.79	-0.66	10.24
3,147.43	2.28	45.79	3,145.94	30.37	57.99	-24.70	0.71	-0.59	9.80
3,161.00	2.01	47.61	3,159.50	30.71	58.36	-25.02	2.05	-1.99	13.41
3,174.57	1.03	65.86	3,173.07	30.92	58.65	-25.20	7.97	-7.22	134.49
3,188.14	0.87	71.69	3,186.64	31.01	58.86	-25.26	1.38	-1.18	42.96
3,201.71	0.85	71.50	3,200.21	31.07	59.05	-25.31	0.15	-0.15	-1.40
3,215.29	0.84	70.86	3,213.78	31.14	59.24	-25.35	0.10	-0.07	-4.71
3,228.86	0.84	70.00	3,227.35	31.20	59.43	-25.40	0.09	0.00	-6.34
3,242.43	0.84	69.13	3,240.92	31.27	59.61	-25.45	0.09	0.00	-6.41
3,256.00	0.85	68.49	3,254.49	31.34	59.80	-25.51	0.10	0.07	-4.72
3,269.57	0.85	70.02	3,268.06	31.42	59.99	-25.56	0.17	0.00	11.27
3,283.14	0.85	71.55	3,281.63	31.48	60.18	-25.61	0.17	0.00	11.27
3,296.71	0.85	73.06	3,295.20	31.54	60.37	-25.65	0.17	0.00	11.13
3,310.29	0.85	74.56	3,308.77	31.60	60.56	-25.69	0.16	0.00	11.05
3,323.86	0.85	76.05	3,322.34	31.65	60.76	-25.72	0.16	0.00	10.98
3,337.43	0.86	77.52	3,335.91	31.70	60.96	-25.75	0.18	0.07	10.83
3,351.00	0.86	78.97	3,349.48	31.74	61.15	-25.77	0.16	0.00	10.69
3,364.57	0.82	80.61	3,363.05	31.77	61.35	-25.79	0.34	-0.29	12.09
3,378.14	0.78	82.39	3,376.62	31.80	61.54	-25.80	0.35	-0.29	13.12
3,391.71	0.74	84.35	3,390.19	31.82	61.72	-25.80	0.35	-0.29	14.44
3,405.29	0.71	86.49	3,403.76	31.84	61.89	-25.80	0.30	-0.22	15.76
3,418.86	0.67	88.85	3,417.33	31.84	62.05	-25.79	0.36	-0.29	17.39
3,432.43	0.64	91.45	3,430.90	31.84	62.21	-25.77	0.31	-0.22	19.16
3,446.00	0.61	94.32	3,444.47	31.84	62.35	-25.75	0.32	-0.22	21.15
3,459.43	0.59	95.83	3,457.90	31.82	62.49	-25.73	0.19	-0.15	11.24
3,472.86	0.58	97.39	3,471.33	31.81	62.63	-25.70	0.14	-0.07	11.62
3,486.29	0.57	99.00	3,484.76	31.79	62.76	-25.67	0.14	-0.07	11.99
3,499.71	0.56	100.67	3,498.18	31.77	62.89	-25.63	0.14	-0.07	12.44
3,513.14	0.55	102.40	3,511.61	31.74	63.02	-25.59	0.15	-0.07	12.88
3,526.57	0.53	104.19	3,525.04	31.71	63.14	-25.55	0.19	-0.15	13.33
3,540.00	0.52	106.04	3,538.47	31.68	63.26	-25.51	0.15	-0.07	13.78
3,553.57	0.63	107.32	3,552.04	31.64	63.39	-25.46	0.82	0.81	9.43
3,567.14	0.74	108.22	3,565.61	31.59	63.55	-25.39	0.81	0.81	6.63
3,580.71	0.85	108.88	3,579.17	31.53	63.73	-25.32	0.81	0.81	4.86
3,594.29	0.96	109.38	3,592.75	31.46	63.93	-25.23	0.81	0.81	3.68
3,607.86	1.07	109.77	3,606.32	31.38	64.16	-25.13	0.81	0.81	2.87
3,621.43	1.18	110.08	3,619.89	31.29	64.41	-25.01	0.81	0.81	2.28
3,635.00	1.29	110.34	3,633.45	31.19	64.68	-24.88	0.81	0.81	1.92



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
3,648.57	1.44	112.35	3,647.02	31.07	64.98	-24.74	1.16	1.11	14.81
3,662.14	1.61	114.20	3,660.59	30.93	65.31	-24.56	1.30	1.25	13.63
3,675.71	1.79	115.79	3,674.15	30.76	65.68	-24.36	1.37	1.33	11.72
3,689.29	1.98	117.09	3,687.72	30.56	66.08	-24.12	1.43	1.40	9.57
3,702.86	2.17	118.10	3,701.28	30.33	66.51	-23.86	1.43	1.40	7.44
3,716.43	2.38	118.81	3,714.84	30.07	66.99	-23.56	1.56	1.55	5.23
3,730.00	2.59	119.22	3,728.40	29.79	67.50	-23.22	1.55	1.55	3.02
3,743.57	2.80	119.85	3,741.96	29.47	68.06	-22.86	1.56	1.55	4.64
3,757.14	3.02	120.25	3,755.51	29.13	68.65	-22.46	1.63	1.62	2.95
3,770.71	3.23	120.50	3,769.06	28.75	69.29	-22.02	1.55	1.55	1.84
3,784.29	3.42	120.61	3,782.61	28.35	69.97	-21.56	1.40	1.40	0.81
3,797.86	3.60	120.61	3,796.16	27.93	70.68	-21.07	1.33	1.33	0.00
3,811.43	3.74	120.47	3,809.70	27.49	71.43	-20.56	1.03	1.03	-1.03
3,825.00	3.84	120.14	3,823.24	27.03	72.21	-20.04	0.75	0.74	-2.43
3,838.57	3.85	119.48	3,836.78	26.58	73.00	-19.51	0.33	0.07	-4.86
3,852.14	3.81	118.67	3,850.32	26.14	73.79	-19.00	0.50	-0.29	-5.97
3,865.71	3.74	117.75	3,863.86	25.72	74.58	-18.50	0.68	-0.52	-6.78
3,879.29	3.67	116.79	3,877.41	25.32	75.36	-18.03	0.69	-0.52	-7.07
3,892.86	3.59	115.84	3,890.96	24.94	76.13	-17.57	0.74	-0.59	-7.00
3,906.43	3.52	115.00	3,904.50	24.58	76.89	-17.14	0.64	-0.52	-6.19
3,920.00	3.20	110.63	3,918.05	24.27	77.62	-16.76	3.02	-2.36	-32.20
3,933.57	2.51	96.26	3,931.60	24.10	78.27	-16.54	7.29	-5.08	-105.90
3,947.14	2.05	79.04	3,945.16	24.11	78.80	-16.50	6.04	-3.39	-126.90
3,960.71	1.75	56.52	3,958.72	24.27	79.21	-16.62	5.88	-2.21	-165.95
3,974.29	1.81	57.26	3,972.30	24.50	79.57	-16.82	0.47	0.44	5.45
3,987.86	1.88	58.29	3,985.86	24.74	79.93	-17.01	0.57	0.52	7.59
4,001.43	1.95	59.67	3,999.42	24.97	80.32	-17.21	0.62	0.52	10.17
4,015.00	2.00	61.53	4,012.98	25.20	80.73	-17.40	0.60	0.37	13.71
4,028.57	2.06	63.87	4,026.54	25.42	81.16	-17.58	0.75	0.44	17.24
4,042.14	2.12	66.64	4,040.10	25.63	81.61	-17.74	0.87	0.44	20.41
4,055.71	2.19	69.59	4,053.67	25.82	82.08	-17.88	0.97	0.52	21.74
4,069.29	2.26	72.52	4,067.24	25.99	82.58	-18.01	0.98	0.52	21.58
4,082.86	2.34	75.25	4,080.79	26.14	83.10	-18.11	1.00	0.59	20.12
4,096.43	2.44	77.64	4,094.35	26.27	83.65	-18.19	1.04	0.74	17.61
4,110.00	2.55	79.52	4,107.91	26.39	84.23	-18.25	1.01	0.81	13.85
4,123.43	2.64	81.72	4,121.33	26.49	84.83	-18.29	1.00	0.67	16.38
4,136.86	2.75	83.57	4,134.74	26.57	85.46	-18.31	1.04	0.82	13.78
4,150.29	2.87	85.14	4,148.15	26.63	86.11	-18.31	1.06	0.89	11.69
4,163.71	2.99	86.47	4,161.56	26.68	86.80	-18.29	1.03	0.89	9.91
4,177.14	3.11	87.59	4,174.97	26.72	87.51	-18.26	1.00	0.89	8.34
4,190.57	3.23	88.52	4,188.38	26.74	88.25	-18.22	0.97	0.89	6.92
4,204.00	3.33	89.24	4,201.79	26.76	89.02	-18.16	0.81	0.74	5.36
4,217.57	3.41	89.83	4,215.33	26.77	89.82	-18.09	0.64	0.59	4.35



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
4,231.14	3.47	90.25	4,228.88	26.77	90.63	-18.01	0.48	0.44	3.10
4,244.71	3.53	90.57	4,242.42	26.76	91.46	-17.93	0.46	0.44	2.36
4,258.29	3.58	90.82	4,255.98	26.75	92.30	-17.84	0.39	0.37	1.84
4,271.86	3.63	91.02	4,269.52	26.74	93.16	-17.74	0.38	0.37	1.47
4,285.43	3.68	91.17	4,283.06	26.72	94.02	-17.64	0.38	0.37	1.11
4,299.00	3.20	83.30	4,296.61	26.75	94.83	-17.60	4.95	-3.54	-58.00
4,312.57	2.49	66.70	4,310.16	26.92	95.48	-17.70	7.96	-5.23	-122.33
4,326.14	1.90	38.90	4,323.72	27.21	95.89	-17.95	8.84	-4.35	-204.86
4,339.71	1.88	31.30	4,337.28	27.57	96.15	-18.29	1.85	-0.15	-56.01
4,353.29	1.97	31.56	4,350.86	27.96	96.39	-18.65	0.67	0.66	1.91
4,366.86	2.05	31.63	4,364.42	28.37	96.64	-19.03	0.59	0.59	0.52
4,380.43	2.11	31.45	4,377.98	28.79	96.89	-19.43	0.44	0.44	-1.33
4,394.00	2.15	30.89	4,391.54	29.22	97.15	-19.83	0.33	0.29	-4.13
4,407.57	2.14	29.76	4,405.10	29.66	97.41	-20.24	0.32	-0.07	-8.33
4,421.14	2.09	28.38	4,418.66	30.09	97.65	-20.66	0.53	-0.37	-10.17
4,434.71	2.03	26.81	4,432.22	30.53	97.88	-21.07	0.61	-0.44	-11.57
4,448.29	1.96	25.12	4,445.79	30.95	98.09	-21.47	0.67	-0.52	-12.44
4,461.86	1.90	23.38	4,459.36	31.37	98.28	-21.87	0.62	-0.44	-12.82
4,475.43	1.84	21.75	4,472.92	31.78	98.45	-22.26	0.59	-0.44	-12.01
4,489.00	1.22	5.50	4,486.48	32.12	98.54	-22.59	5.53	-4.57	-119.75
4,502.57	0.90	303.81	4,500.05	32.33	98.47	-22.80	8.26	-2.36	-454.61
4,516.14	1.07	288.00	4,513.62	32.42	98.26	-22.92	2.35	1.25	-116.51
4,529.71	1.15	285.44	4,527.19	32.50	98.00	-23.02	0.69	0.59	-18.87
4,543.29	1.22	283.20	4,540.76	32.57	97.73	-23.11	0.62	0.52	-16.49
4,556.86	1.30	281.23	4,554.33	32.63	97.44	-23.20	0.67	0.59	-14.52
4,570.43	1.38	279.49	4,567.90	32.69	97.13	-23.29	0.66	0.59	-12.82
4,584.00	1.46	277.95	4,581.46	32.74	96.80	-23.37	0.65	0.59	-11.35
4,597.57	1.49	277.47	4,595.03	32.79	96.45	-23.45	0.24	0.22	-3.54
4,611.14	1.51	276.96	4,608.59	32.83	96.10	-23.53	0.18	0.15	-3.76
4,624.71	1.54	276.46	4,622.16	32.87	95.74	-23.61	0.24	0.22	-3.68
4,638.29	1.57	275.99	4,635.73	32.91	95.37	-23.68	0.24	0.22	-3.46
4,651.86	1.60	275.57	4,649.30	32.95	95.00	-23.75	0.24	0.22	-3.10
4,665.43	1.63	275.24	4,662.86	32.99	94.62	-23.83	0.23	0.22	-2.43
4,679.00	1.66	275.02	4,676.43	33.02	94.23	-23.90	0.23	0.22	-1.62
4,692.57	1.69	274.96	4,689.99	33.06	93.84	-23.97	0.22	0.22	-0.44
4,706.14	1.71	275.01	4,703.56	33.09	93.43	-24.04	0.15	0.15	0.37
4,719.71	1.73	275.10	4,717.12	33.13	93.03	-24.12	0.15	0.15	0.66
4,733.29	1.75	275.22	4,730.69	33.16	92.62	-24.19	0.15	0.15	0.88
4,746.86	1.77	275.31	4,744.26	33.20	92.20	-24.27	0.15	0.15	0.66
4,760.43	1.79	275.34	4,757.82	33.24	91.78	-24.35	0.15	0.15	0.22
4,774.00	1.81	275.25	4,771.38	33.28	91.36	-24.43	0.15	0.15	-0.66
4,787.57	1.82	274.96	4,784.95	33.32	90.93	-24.51	0.10	0.07	-2.14
4,801.14	1.83	274.59	4,798.51	33.36	90.50	-24.58	0.11	0.07	-2.73
4,814.71	1.84	274.23	4,812.07	33.39	90.07	-24.66	0.11	0.07	-2.65



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
4,828.29	1.85	273.97	4,825.65	33.42	89.63	-24.73	0.10	0.07	-1.91
4,841.86	1.85	273.91	4,839.21	33.45	89.19	-24.80	0.01	0.00	-0.44
4,855.43	1.84	274.18	4,852.77	33.48	88.76	-24.88	0.10	-0.07	1.99
4,869.00	1.81	274.98	4,866.34	33.52	88.33	-24.95	0.29	-0.22	5.90
4,882.43	1.77	276.67	4,879.76	33.56	87.91	-25.03	0.49	-0.30	12.58
4,895.86	1.73	278.96	4,893.18	33.61	87.50	-25.13	0.60	-0.30	17.05
4,909.29	1.68	281.69	4,906.61	33.68	87.11	-25.24	0.71	-0.37	20.33
4,922.71	1.63	284.67	4,920.02	33.77	86.73	-25.36	0.74	-0.37	22.21
4,936.14	1.59	287.69	4,933.45	33.88	86.37	-25.50	0.70	-0.30	22.49
4,949.57	1.57	290.45	4,946.87	34.00	86.02	-25.65	0.59	-0.15	20.55
4,963.00	1.36	299.99	4,960.30	34.14	85.71	-25.82	2.39	-1.56	71.03
4,976.57	1.09	343.30	4,973.86	34.35	85.53	-26.04	6.91	-1.99	319.16
4,990.14	1.21	354.23	4,987.43	34.61	85.48	-26.31	1.84	0.88	80.55
5,003.71	1.24	353.89	5,001.00	34.90	85.45	-26.60	0.23	0.22	-2.51
5,017.29	1.27	353.16	5,014.57	35.20	85.42	-26.90	0.25	0.22	-5.38
5,030.86	1.31	352.28	5,028.14	35.50	85.38	-27.21	0.33	0.29	-6.48
5,044.43	1.34	351.41	5,041.71	35.81	85.34	-27.52	0.27	0.22	-6.41
5,058.00	1.38	350.66	5,055.27	36.13	85.29	-27.84	0.32	0.29	-5.53
5,071.57	1.40	350.07	5,068.84	36.45	85.23	-28.17	0.18	0.15	-4.35
5,085.14	1.42	349.67	5,082.41	36.78	85.17	-28.50	0.16	0.15	-2.95
5,098.71	1.43	349.41	5,095.97	37.11	85.11	-28.84	0.09	0.07	-1.92
5,112.29	1.45	349.27	5,109.55	37.45	85.05	-29.18	0.15	0.15	-1.03
5,125.86	1.46	349.27	5,123.11	37.79	84.98	-29.52	0.07	0.07	0.00
5,139.43	1.48	349.41	5,136.68	38.13	84.92	-29.87	0.15	0.15	1.03
5,153.00	1.50	349.74	5,150.24	38.48	84.85	-30.22	0.16	0.15	2.43
5,166.57	1.53	350.28	5,163.81	38.83	84.79	-30.58	0.24	0.22	3.98
5,180.14	1.56	350.96	5,177.37	39.19	84.73	-30.94	0.26	0.22	5.01
5,193.71	1.60	351.68	5,190.94	39.56	84.68	-31.32	0.33	0.29	5.31
5,207.29	1.64	352.38	5,204.51	39.94	84.62	-31.70	0.33	0.29	5.15
5,220.86	1.69	353.01	5,218.08	40.33	84.57	-32.09	0.39	0.37	4.64
5,234.43	1.73	353.50	5,231.64	40.73	84.53	-32.50	0.31	0.29	3.61
5,248.00	1.98	12.30	5,245.20	41.17	84.55	-32.93	4.82	1.84	138.54
5,261.57	2.72	26.54	5,258.76	41.68	84.75	-33.42	6.91	5.45	104.94
5,275.14	3.08	28.91	5,272.32	42.29	85.07	-34.00	2.80	2.65	17.46
5,288.71	3.13	28.61	5,285.87	42.94	85.42	-34.61	0.39	0.37	-2.21
5,302.29	3.18	28.27	5,299.43	43.59	85.78	-35.23	0.39	0.37	-2.50
5,315.86	3.24	27.98	5,312.97	44.26	86.13	-35.86	0.46	0.44	-2.14
5,329.43	3.31	27.84	5,326.52	44.95	86.50	-36.51	0.52	0.52	-1.03
5,343.00	3.84	30.97	5,340.07	45.68	86.91	-37.20	4.16	3.91	23.07
5,356.57	4.38	34.78	5,353.60	46.50	87.44	-37.96	4.46	3.98	28.08
5,370.14	4.50	35.17	5,367.13	47.36	88.05	-38.76	0.91	0.88	2.87
5,383.71	4.64	35.64	5,380.66	48.24	88.67	-39.58	1.07	1.03	3.46
5,397.29	4.78	36.15	5,394.19	49.15	89.33	-40.41	1.08	1.03	3.76



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
5,410.86	4.93	36.65	5,407.71	50.07	90.01	-41.27	1.15	1.11	3.68
5,424.43	5.07	37.13	5,421.23	51.02	90.72	-42.14	1.08	1.03	3.54
5,438.00	5.63	42.10	5,434.74	51.99	91.53	-43.03	5.35	4.13	36.62
5,451.57	6.44	47.24	5,448.24	53.00	92.53	-43.94	7.17	5.97	37.88
5,465.14	6.66	48.13	5,461.72	54.04	93.68	-44.87	1.79	1.62	6.56
5,478.71	6.77	48.46	5,475.19	55.10	94.86	-45.81	0.86	0.81	2.43
5,492.29	6.88	48.81	5,488.68	56.16	96.07	-46.76	0.87	0.81	2.58
5,505.86	6.99	49.21	5,502.15	57.24	97.31	-47.71	0.89	0.81	2.95
5,519.43	7.12	49.69	5,515.62	58.32	98.57	-48.67	1.05	0.96	3.54
5,533.00	7.25	50.29	5,529.08	59.41	99.87	-49.63	1.11	0.96	4.42
5,546.57	7.52	51.40	5,542.54	60.51	101.23	-50.60	2.25	1.99	8.18
5,560.14	7.80	52.48	5,555.99	61.63	102.65	-51.57	2.32	2.06	7.96
5,573.71	7.99	53.48	5,569.43	62.75	104.14	-52.55	1.73	1.40	7.37
5,587.29	8.19	54.50	5,582.87	63.87	105.69	-53.52	1.81	1.47	7.51
5,600.86	8.39	55.47	5,596.30	64.99	107.29	-54.48	1.80	1.47	7.15
5,614.43	8.60	56.36	5,609.72	66.12	108.95	-55.44	1.83	1.55	6.56
5,628.00	8.80	57.10	5,623.14	67.24	110.66	-56.40	1.69	1.47	5.45
5,641.57	9.36	59.85	5,636.54	68.36	112.49	-57.34	5.22	4.13	20.27
5,655.14	9.21	64.18	5,649.93	69.39	114.42	-58.18	5.26	-1.11	31.91
5,668.71	9.24	66.68	5,663.32	70.29	116.40	-58.89	2.96	0.22	18.42
5,682.29	9.47	67.02	5,676.72	71.16	118.43	-59.56	1.74	1.69	2.50
5,695.86	9.70	67.32	5,690.10	72.04	120.51	-60.23	1.73	1.69	2.21
5,709.43	9.94	67.61	5,703.47	72.92	122.65	-60.91	1.81	1.77	2.14
5,723.00	10.20	67.90	5,716.83	73.82	124.85	-61.60	1.95	1.92	2.14
5,736.57	10.54	68.13	5,730.18	74.74	127.11	-62.29	2.52	2.51	1.69
5,750.14	11.05	68.60	5,743.51	75.67	129.47	-63.00	3.81	3.76	3.46
5,763.71	11.42	69.39	5,756.82	76.62	131.94	-63.71	2.95	2.73	5.82
5,777.29	11.75	69.75	5,770.13	77.57	134.50	-64.41	2.49	2.43	2.65
5,790.86	12.10	70.09	5,783.40	78.54	137.13	-65.12	2.63	2.58	2.51
5,804.43	12.46	70.38	5,796.66	79.51	139.85	-65.83	2.69	2.65	2.14
5,818.00	12.81	70.62	5,809.90	80.50	142.65	-66.55	2.61	2.58	1.77
5,831.57	13.24	70.90	5,823.12	81.51	145.53	-67.28	3.20	3.17	2.06
5,845.14	13.88	71.45	5,836.32	82.54	148.54	-68.01	4.81	4.72	4.05
5,858.71	14.35	70.73	5,849.48	83.61	151.68	-68.78	3.70	3.46	-5.31
5,872.29	14.71	70.77	5,862.62	84.73	154.89	-69.60	2.65	2.65	0.29
5,885.86	15.07	70.81	5,875.74	85.88	158.18	-70.42	2.65	2.65	0.29
5,899.43	15.41	70.87	5,888.83	87.05	161.55	-71.27	2.51	2.51	0.44
5,913.00	15.70	70.98	5,901.90	88.24	164.99	-72.13	2.15	2.14	0.81
5,926.57	15.91	71.17	5,914.96	89.44	168.49	-72.99	1.59	1.55	1.40
5,940.14	16.06	71.41	5,928.00	90.64	172.03	-73.84	1.21	1.11	1.77
5,953.71	16.18	71.69	5,941.04	91.83	175.60	-74.69	1.05	0.88	2.06
5,967.29	16.26	71.98	5,954.08	93.01	179.21	-75.52	0.84	0.59	2.14
5,980.86	16.32	72.28	5,967.11	94.18	182.83	-76.34	0.76	0.44	2.21



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
5,994.43	16.36	72.58	5,980.13	95.33	186.47	-77.14	0.69	0.29	2.21
6,008.00	16.23	73.09	5,993.15	96.46	190.11	-77.91	1.42	-0.96	3.76
6,021.43	16.04	73.66	6,006.05	97.52	193.68	-78.63	1.84	-1.41	4.24
6,034.86	15.98	73.89	6,018.96	98.56	197.24	-79.33	0.65	-0.45	1.71
6,048.29	15.89	74.12	6,031.88	99.58	200.78	-80.00	0.82	-0.67	1.71
6,061.71	15.80	74.33	6,044.79	100.57	204.31	-80.66	0.80	-0.67	1.56
6,075.14	15.71	74.53	6,057.71	101.55	207.82	-81.30	0.78	-0.67	1.49
6,088.57	15.64	74.70	6,070.64	102.51	211.32	-81.92	0.62	-0.52	1.27
6,102.00	15.43	74.85	6,083.58	103.46	214.79	-82.53	1.59	-1.56	1.12
6,115.71	14.23	75.12	6,096.84	104.37	218.18	-83.11	8.77	-8.75	1.97
6,129.43	13.89	74.44	6,110.14	105.24	221.40	-83.68	2.76	-2.48	-4.96
6,143.14	13.98	74.37	6,123.45	106.13	224.58	-84.26	0.67	0.66	-0.51
6,156.86	14.09	74.27	6,136.76	107.03	227.78	-84.85	0.82	0.80	-0.73
6,170.57	14.21	74.17	6,150.06	107.94	231.01	-85.45	0.89	0.88	-0.73
6,184.29	14.32	74.09	6,163.35	108.86	234.26	-86.06	0.81	0.80	-0.58
6,198.00	14.42	74.05	6,176.63	109.80	237.53	-86.68	0.73	0.73	-0.29
6,211.57	14.50	74.09	6,189.77	110.73	240.79	-87.29	0.59	0.59	0.29
6,225.14	14.56	74.18	6,202.91	111.66	244.06	-87.91	0.47	0.44	0.66
6,238.71	14.61	74.29	6,216.04	112.59	247.35	-88.52	0.42	0.37	0.81
6,252.29	14.66	74.43	6,229.18	113.51	250.66	-89.12	0.45	0.37	1.03
6,265.86	14.70	74.57	6,242.31	114.43	253.97	-89.72	0.39	0.29	1.03
6,279.43	14.74	74.72	6,255.43	115.34	257.30	-90.32	0.41	0.29	1.11
6,293.00	14.78	74.86	6,268.56	116.25	260.63	-90.90	0.39	0.29	1.03
6,306.43	14.82	74.97	6,281.54	117.14	263.94	-91.47	0.36	0.30	0.82
6,319.86	14.86	75.08	6,294.52	118.03	267.27	-92.04	0.36	0.30	0.82
6,333.29	14.90	75.18	6,307.50	118.92	270.60	-92.61	0.35	0.30	0.74
6,346.71	14.95	75.28	6,320.47	119.80	273.94	-93.16	0.42	0.37	0.75
6,360.14	15.00	75.38	6,333.44	120.68	277.30	-93.72	0.42	0.37	0.74
6,373.57	15.06	75.48	6,346.41	121.55	280.67	-94.27	0.49	0.45	0.74
6,387.00	15.14	75.59	6,359.38	122.43	284.06	-94.82	0.63	0.60	0.82
6,400.57	15.24	75.71	6,372.48	123.31	287.50	-95.37	0.77	0.74	0.88
6,414.14	15.36	75.84	6,385.56	124.19	290.97	-95.91	0.92	0.88	0.96
6,427.71	15.49	75.97	6,398.65	125.07	294.47	-96.45	0.99	0.96	0.96
6,441.29	15.62	76.11	6,411.73	125.95	298.01	-96.99	1.00	0.96	1.03
6,454.86	15.75	76.25	6,424.79	126.82	301.57	-97.53	1.00	0.96	1.03
6,468.43	15.89	76.39	6,437.85	127.70	305.16	-98.05	1.07	1.03	1.03
6,482.00	16.02	76.54	6,450.90	128.57	308.79	-98.58	1.01	0.96	1.11
6,495.57	16.14	76.70	6,463.94	129.44	312.45	-99.10	0.94	0.88	1.18
6,509.14	16.25	76.87	6,476.97	130.31	316.13	-99.61	0.88	0.81	1.25
6,522.71	16.36	77.03	6,489.99	131.17	319.84	-100.11	0.88	0.81	1.18
6,536.29	16.47	77.18	6,503.02	132.02	323.58	-100.60	0.87	0.81	1.10
6,549.86	16.58	77.29	6,516.03	132.88	327.35	-101.09	0.84	0.81	0.81
6,563.43	16.69	77.36	6,529.03	133.73	331.14	-101.58	0.82	0.81	0.52
6,577.00	16.46	77.39	6,542.04	134.57	334.92	-102.06	1.70	-1.69	0.22



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
6,590.57	15.60	77.07	6,555.08	135.40	338.57	-102.54	6.37	-6.34	-2.36
6,604.14	14.62	75.24	6,568.18	136.25	342.01	-103.05	8.03	-7.22	-13.49
6,617.71	14.59	74.72	6,581.31	137.13	345.31	-103.62	0.99	-0.22	-3.83
6,631.29	14.73	74.33	6,594.45	138.05	348.62	-104.22	1.26	1.03	-2.87
6,644.86	14.88	73.90	6,607.57	139.00	351.96	-104.85	1.37	1.11	-3.17
6,658.43	15.01	73.48	6,620.68	139.98	355.32	-105.51	1.25	0.96	-3.10
6,672.00	15.13	73.10	6,633.78	141.00	358.70	-106.19	1.15	0.88	-2.80
6,685.57	15.21	72.79	6,646.88	142.04	362.09	-106.91	0.84	0.59	-2.28
6,699.14	15.27	72.54	6,659.97	143.10	365.50	-107.64	0.66	0.44	-1.84
6,712.71	15.31	72.32	6,673.06	144.18	368.91	-108.39	0.52	0.29	-1.62
6,726.29	15.34	72.10	6,686.16	145.28	372.32	-109.16	0.48	0.22	-1.62
6,739.86	15.35	71.89	6,699.24	146.39	375.74	-109.94	0.42	0.07	-1.55
6,753.43	15.35	71.65	6,712.33	147.51	379.15	-110.73	0.47	0.00	-1.77
6,767.00	15.06	71.04	6,725.43	148.65	382.52	-111.54	2.44	-2.14	-4.50
6,780.57	14.45	69.96	6,738.55	149.80	385.78	-112.38	4.93	-4.50	-7.96
6,794.14	14.30	69.75	6,751.69	150.96	388.94	-113.23	1.17	-1.11	-1.55
6,807.71	14.20	69.23	6,764.85	152.13	392.07	-114.10	1.20	-0.74	-3.83
6,821.29	14.09	68.69	6,778.01	153.32	395.17	-114.99	1.27	-0.81	-3.98
6,834.86	13.99	68.16	6,791.18	154.54	398.23	-115.91	1.20	-0.74	-3.91
6,848.43	13.91	67.68	6,804.35	155.77	401.26	-116.84	1.04	-0.59	-3.54
6,862.00	13.87	67.30	6,817.52	157.01	404.27	-117.80	0.73	-0.29	-2.80
6,875.57	13.89	67.09	6,830.69	158.27	407.27	-118.77	0.40	0.15	-1.55
6,889.14	13.95	66.99	6,843.87	159.55	410.28	-119.75	0.48	0.44	-0.74
6,902.71	14.03	66.95	6,857.03	160.83	413.30	-120.74	0.59	0.59	-0.29
6,916.29	14.13	66.95	6,870.21	162.12	416.34	-121.74	0.74	0.74	0.00
6,929.86	14.23	66.96	6,883.36	163.43	419.40	-122.74	0.74	0.74	0.07
6,943.43	14.31	66.97	6,896.51	164.73	422.48	-123.75	0.59	0.59	0.07
6,957.00	14.38	66.95	6,909.66	166.05	425.57	-124.76	0.52	0.52	-0.15
6,970.57	14.41	66.89	6,922.80	167.37	428.67	-125.79	0.25	0.22	-0.44
6,984.14	14.41	66.80	6,935.95	168.70	431.78	-126.81	0.17	0.00	-0.66
6,997.71	14.40	66.70	6,949.09	170.03	434.88	-127.84	0.20	-0.07	-0.74
7,011.29	14.38	66.58	6,962.24	171.37	437.98	-128.88	0.26	-0.15	-0.88
7,024.86	14.37	66.45	6,975.39	172.71	441.07	-129.92	0.25	-0.07	-0.96
7,038.43	14.37	66.33	6,988.54	174.06	444.15	-130.97	0.22	0.00	-0.88
7,052.00	14.38	66.21	7,001.68	175.42	447.24	-132.03	0.23	0.07	-0.88
7,065.57	14.42	66.11	7,014.82	176.78	450.32	-133.09	0.35	0.29	-0.74
7,079.14	14.48	66.01	7,027.96	178.16	453.42	-134.16	0.48	0.44	-0.74
7,092.71	14.56	65.91	7,041.10	179.54	456.53	-135.25	0.62	0.59	-0.74
7,106.29	14.64	65.80	7,054.24	180.94	459.65	-136.34	0.62	0.59	-0.81
7,119.86	14.72	65.69	7,067.37	182.36	462.79	-137.45	0.62	0.59	-0.81
7,133.43	14.81	65.57	7,080.49	183.78	465.94	-138.57	0.70	0.66	-0.88
7,147.00	14.89	65.42	7,093.61	185.23	469.10	-139.71	0.65	0.59	-1.11
7,160.57	14.96	65.23	7,106.72	186.68	472.28	-140.86	0.63	0.52	-1.40



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)	
7,174.14	15.04	65.03	7,119.83	188.16	475.46	-142.02	0.70	0.59	-1.47	
7,187.71	15.10	64.82	7,132.93	189.66	478.66	-143.21	0.60	0.44	-1.55	
7,201.29	15.16	64.62	7,146.04	191.17	481.86	-144.41	0.59	0.44	-1.47	
7,214.86	15.22	64.44	7,159.14	192.70	485.07	-145.63	0.56	0.44	-1.33	
7,228.43	15.27	64.29	7,172.23	194.24	488.29	-146.86	0.47	0.37	-1.11	
7,242.00	15.31	64.20	7,185.32	195.80	491.51	-148.10	0.34	0.29	-0.66	
7,255.57	15.34	64.19	7,198.41	197.36	494.74	-149.34	0.22	0.22	-0.07	
7,269.14	15.36	64.24	7,211.49	198.92	497.98	-150.59	0.18	0.15	0.37	
7,282.71	15.37	64.31	7,224.58	200.48	501.22	-151.84	0.16	0.07	0.52	
7,296.29	15.37	64.39	7,237.67	202.04	504.46	-153.08	0.16	0.00	0.59	
7,309.86	15.38	64.46	7,250.76	203.59	507.71	-154.31	0.16	0.07	0.52	
7,323.43	15.38	64.51	7,263.84	205.14	510.95	-155.55	0.10	0.00	0.37	
7,337.00	15.06	64.84	7,276.93	206.67	514.17	-156.76	2.44	-2.36	2.43	
7,350.57	14.32	65.38	7,290.06	208.12	517.30	-157.90	5.55	-5.45	3.98	
7,364.14	13.31	66.62	7,303.24	209.44	520.26	-158.93	7.76	-7.44	9.14	
7,377.71	12.98	67.04	7,316.45	210.65	523.09	-159.87	2.53	-2.43	3.10	
7,391.29	12.94	66.76	7,329.69	211.84	525.89	-160.80	0.55	-0.29	-2.06	
7,404.86	12.91	66.47	7,342.91	213.05	528.68	-161.73	0.53	-0.22	-2.14	
7,418.43	12.88	66.19	7,356.14	214.27	531.45	-162.68	0.51	-0.22	-2.06	
7,432.00	12.87	65.96	7,369.37	215.49	534.22	-163.63	0.38	-0.07	-1.69	
7,445.57	12.90	65.83	7,382.60	216.73	536.98	-164.60	0.31	0.22	-0.96	
7,459.14	12.96	65.75	7,395.82	217.97	539.75	-165.58	0.46	0.44	-0.59	
7,472.71	13.04	65.71	7,409.05	219.23	542.53	-166.56	0.59	0.59	-0.29	
7,486.29	13.12	65.71	7,422.27	220.49	545.33	-167.55	0.59	0.59	0.00	
7,499.86	13.21	65.72	7,435.49	221.76	548.15	-168.55	0.66	0.66	0.07	
7,513.43	13.30	65.75	7,448.70	223.04	550.99	-169.55	0.67	0.66	0.22	
7,527.00	13.39	65.79	7,461.90	224.33	553.84	-170.56	0.67	0.66	0.29	
7,540.43	13.38	64.85	7,474.96	225.63	556.67	-171.58	1.62	-0.07	-7.00	
7,553.86	13.46	64.91	7,488.03	226.95	559.49	-172.63	0.60	0.60	0.45	
7,567.29	13.54	64.98	7,501.09	228.28	562.33	-173.68	0.61	0.60	0.52	
7,580.71	13.62	65.05	7,514.13	229.61	565.19	-174.74	0.61	0.60	0.52	
7,594.14	13.70	65.10	7,527.18	230.94	568.06	-175.79	0.60	0.60	0.37	
7,607.57	13.77	65.14	7,540.23	232.28	570.95	-176.85	0.53	0.52	0.30	
7,621.00	13.85	65.14	7,553.27	233.63	573.86	-177.92	0.60	0.60	0.00	
7,634.57	13.93	65.09	7,566.44	235.00	576.82	-179.00	0.60	0.59	-0.37	
7,648.14	14.00	65.01	7,579.61	236.38	579.79	-180.09	0.54	0.52	-0.59	
7,661.71	14.08	64.91	7,592.78	237.78	582.77	-181.19	0.62	0.59	-0.74	
7,675.29	14.16	64.80	7,605.95	239.19	585.77	-182.31	0.62	0.59	-0.81	
7,688.86	14.24	64.68	7,619.10	240.61	588.78	-183.44	0.63	0.59	-0.88	
7,702.43	14.33	64.56	7,632.25	242.04	591.81	-184.58	0.70	0.66	-0.88	
7,716.00	14.43	64.44	7,645.40	243.49	594.85	-185.73	0.77	0.74	-0.88	
7,729.57	14.55	64.32	7,658.53	244.96	597.91	-186.90	0.91	0.88	-0.88	
7,743.14	14.67	64.20	7,671.67	246.45	600.99	-188.09	0.91	0.88	-0.88	



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
7,756.71	14.80	64.09	7,684.79	247.95	604.10	-189.29	0.98	0.96	-0.81
7,770.29	14.93	64.00	7,697.91	249.48	607.23	-190.51	0.97	0.96	-0.66
7,783.86	15.06	63.91	7,711.02	251.02	610.38	-191.75	0.97	0.96	-0.66
7,797.43	15.19	63.85	7,724.12	252.58	613.56	-192.99	0.96	0.96	-0.44
7,811.00	15.30	63.80	7,737.21	254.15	616.77	-194.26	0.82	0.81	-0.37
7,824.57	15.39	63.79	7,750.30	255.74	619.99	-195.53	0.66	0.66	-0.07
7,838.14	15.47	63.80	7,763.38	257.33	623.23	-196.81	0.59	0.59	0.07
7,851.71	15.55	63.82	7,776.46	258.93	626.48	-198.09	0.59	0.59	0.15
7,865.29	15.62	63.85	7,789.54	260.54	629.76	-199.38	0.52	0.52	0.22
7,878.86	15.68	63.89	7,802.61	262.15	633.04	-200.67	0.45	0.44	0.29
7,892.43	15.74	63.93	7,815.67	263.77	636.34	-201.97	0.45	0.44	0.29
7,906.00	15.97	64.58	7,828.72	265.38	639.68	-203.25	2.14	1.69	4.79
7,919.57	15.99	66.23	7,841.77	266.94	643.08	-204.47	3.35	0.15	12.16
7,933.14	15.72	68.78	7,854.82	268.35	646.50	-205.56	5.51	-1.99	18.79
7,946.71	15.65	69.34	7,867.89	269.66	649.93	-206.54	1.23	-0.52	4.13
7,960.29	15.70	69.34	7,880.96	270.96	653.36	-207.50	0.37	0.37	0.00
7,973.86	15.76	69.35	7,894.02	272.26	656.81	-208.47	0.44	0.44	0.07
7,987.43	15.82	69.39	7,907.08	273.56	660.26	-209.43	0.45	0.44	0.29
8,001.00	15.88	69.46	7,920.14	274.86	663.73	-210.40	0.46	0.44	0.52
8,014.57	15.96	69.59	7,933.18	276.16	667.22	-211.36	0.65	0.59	0.96
8,028.14	16.04	69.77	7,946.23	277.46	670.73	-212.32	0.69	0.59	1.33
8,041.71	16.12	69.97	7,959.27	278.76	674.26	-213.27	0.72	0.59	1.47
8,055.29	16.19	70.19	7,972.31	280.04	677.81	-214.22	0.68	0.52	1.62
8,068.86	16.26	70.43	7,985.34	281.32	681.38	-215.15	0.71	0.52	1.77
8,082.43	16.30	70.68	7,998.37	282.59	684.97	-216.07	0.59	0.29	1.84
8,096.00	16.10	71.87	8,011.40	283.80	688.55	-216.93	2.86	-1.47	8.77
8,109.57	15.89	73.07	8,024.44	284.93	692.12	-217.72	2.89	-1.55	8.84
8,123.14	15.78	73.30	8,037.50	286.00	695.66	-218.44	0.93	-0.81	1.69
8,136.71	15.68	73.64	8,050.56	287.05	699.19	-219.15	1.00	-0.74	2.51
8,150.29	15.58	73.99	8,063.64	288.07	702.70	-219.83	1.01	-0.74	2.58
8,163.86	15.48	74.34	8,076.71	289.06	706.20	-220.49	1.01	-0.74	2.58
8,177.43	15.41	74.67	8,089.79	290.02	709.68	-221.12	0.83	-0.52	2.43
8,191.00	15.40	74.96	8,102.88	290.97	713.16	-221.72	0.57	-0.07	2.14
8,204.57	15.47	75.19	8,115.96	291.90	716.65	-222.32	0.69	0.52	1.69
8,218.14	15.59	75.38	8,129.03	292.82	720.16	-222.90	0.96	0.88	1.40
8,231.71	15.74	75.54	8,142.10	293.74	723.71	-223.48	1.15	1.11	1.18
8,245.29	15.90	75.68	8,155.16	294.66	727.29	-224.05	1.21	1.18	1.03
8,258.86	16.07	75.80	8,168.21	295.58	730.92	-224.62	1.28	1.25	0.88
8,272.43	16.23	75.91	8,181.24	296.50	734.58	-225.19	1.20	1.18	0.81
8,286.00	16.37	76.01	8,194.27	297.43	738.27	-225.76	1.05	1.03	0.74
8,299.57	16.46	76.09	8,207.28	298.35	741.99	-226.33	0.68	0.66	0.59
8,313.14	16.53	76.16	8,220.29	299.28	745.73	-226.89	0.54	0.52	0.52
8,326.71	16.58	76.23	8,233.30	300.20	749.49	-227.45	0.40	0.37	0.52
8,340.29	16.62	76.30	8,246.32	301.12	753.26	-228.01	0.33	0.29	0.52



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
8,353.86	16.65	76.37	8,259.32	302.04	757.03	-228.56	0.27	0.22	0.52
8,367.43	16.69	76.43	8,272.32	302.95	760.82	-229.12	0.32	0.29	0.44
8,381.00	16.33	76.75	8,285.33	303.85	764.57	-229.65	2.74	-2.65	2.36
8,394.57	15.49	77.21	8,298.38	304.69	768.19	-230.14	6.26	-6.19	3.39
8,408.14	14.82	76.91	8,311.48	305.48	771.65	-230.60	4.97	-4.94	-2.21
8,421.71	14.55	76.29	8,324.60	306.28	774.99	-231.07	2.30	-1.99	-4.57
8,435.29	14.69	76.28	8,337.74	307.09	778.32	-231.57	1.03	1.03	-0.07
8,448.86	14.83	76.25	8,350.87	307.91	781.68	-232.06	1.03	1.03	-0.22
8,462.43	14.97	76.24	8,363.98	308.74	785.07	-232.57	1.03	1.03	-0.07
8,476.00	15.08	76.28	8,377.09	309.58	788.49	-233.07	0.81	0.81	0.29
8,489.57	15.15	76.39	8,390.19	310.41	791.93	-233.58	0.56	0.52	0.81
8,503.14	15.18	76.54	8,403.28	311.24	795.38	-234.08	0.36	0.22	1.11
8,516.71	15.18	76.74	8,416.38	312.06	798.84	-234.56	0.39	0.00	1.47
8,530.29	15.17	76.95	8,429.49	312.87	802.30	-235.04	0.41	-0.07	1.55
8,543.86	15.14	77.18	8,442.58	313.67	805.76	-235.50	0.50	-0.22	1.69
8,557.43	15.09	77.42	8,455.68	314.44	809.21	-235.95	0.59	-0.37	1.77
8,571.00	14.65	77.60	8,468.80	315.20	812.61	-236.37	3.26	-3.24	1.33
8,584.57	13.74	76.85	8,481.96	315.93	815.85	-236.79	6.84	-6.71	-5.53
8,598.14	12.90	75.00	8,495.16	316.69	818.88	-237.26	6.94	-6.19	-13.63
8,611.71	12.61	75.80	8,508.40	317.45	821.78	-237.74	2.50	-2.14	5.90
8,625.29	12.45	76.12	8,521.65	318.16	824.64	-238.18	1.28	-1.18	2.36
8,638.86	12.27	76.47	8,534.91	318.85	827.46	-238.59	1.44	-1.33	2.58
8,652.43	12.10	76.86	8,548.17	319.51	830.25	-238.99	1.39	-1.25	2.87
8,666.00	11.83	76.81	8,561.45	320.15	832.99	-239.36	1.99	-1.99	-0.37
8,679.43	11.40	76.10	8,574.60	320.78	835.62	-239.74	3.37	-3.20	-5.29
8,692.86	10.86	76.03	8,587.78	321.41	838.14	-240.12	4.02	-4.02	-0.52
8,706.29	10.63	76.15	8,600.97	322.01	840.57	-240.49	1.72	-1.71	0.89
8,719.71	10.42	77.20	8,614.17	322.58	842.95	-240.83	2.12	-1.56	7.82
8,733.14	10.21	78.35	8,627.38	323.08	845.30	-241.11	2.19	-1.56	8.56
8,746.57	9.99	79.53	8,640.60	323.54	847.61	-241.34	2.25	-1.64	8.79
8,760.00	9.77	80.68	8,653.83	323.93	849.88	-241.52	2.20	-1.64	8.56
8,773.57	9.53	81.58	8,667.21	324.28	852.13	-241.65	2.09	-1.77	6.63
8,787.14	9.28	82.37	8,680.60	324.59	854.33	-241.75	2.07	-1.84	5.82
8,800.71	9.04	83.08	8,694.00	324.87	856.47	-241.82	1.95	-1.77	5.23
8,814.29	8.79	83.73	8,707.41	325.11	858.56	-241.86	1.98	-1.84	4.79
8,827.86	8.55	84.33	8,720.83	325.32	860.59	-241.88	1.89	-1.77	4.42
8,841.43	8.31	84.85	8,734.25	325.51	862.57	-241.88	1.86	-1.77	3.83
8,855.00	8.08	85.28	8,747.68	325.68	864.50	-241.86	1.75	-1.69	3.17
8,868.57	8.07	86.64	8,761.12	325.81	866.40	-241.81	1.41	-0.07	10.02
8,882.14	7.87	86.77	8,774.56	325.92	868.28	-241.74	1.48	-1.47	0.96
8,895.71	7.67	86.80	8,788.00	326.02	870.11	-241.67	1.47	-1.47	0.22
8,909.29	7.48	86.74	8,801.46	326.12	871.90	-241.60	1.40	-1.40	-0.44
8,922.86	7.30	86.61	8,814.92	326.22	873.64	-241.54	1.33	-1.33	-0.96



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
8,936.43	7.12	86.40	8,828.38	326.33	875.34	-241.48	1.34	-1.33	-1.55
8,950.00	6.96	86.11	8,841.85	326.44	877.00	-241.43	1.21	-1.18	-2.14
8,963.57	6.80	85.82	8,855.32	326.55	878.62	-241.39	1.21	-1.18	-2.14
8,977.14	6.66	85.45	8,868.80	326.67	880.21	-241.36	1.08	-1.03	-2.73
8,990.71	6.53	85.02	8,882.28	326.80	881.76	-241.34	1.02	-0.96	-3.17
9,004.29	6.40	84.54	8,895.77	326.94	883.28	-241.33	1.04	-0.96	-3.53
9,017.86	6.29	84.02	8,909.26	327.09	884.78	-241.34	0.91	-0.81	-3.83
9,031.43	6.18	83.45	8,922.75	327.25	886.24	-241.36	0.93	-0.81	-4.20
9,045.00	6.08	82.87	8,936.24	327.42	887.68	-241.39	0.87	-0.74	-4.27
9,058.57	5.99	82.36	8,949.74	327.61	889.10	-241.44	0.77	-0.66	-3.76
9,072.14	5.90	81.85	8,963.23	327.80	890.49	-241.50	0.77	-0.66	-3.76
9,085.71	5.83	81.35	8,976.73	328.00	891.86	-241.57	0.64	-0.52	-3.68
9,099.29	5.76	80.86	8,990.24	328.21	893.21	-241.65	0.63	-0.52	-3.61
9,112.86	5.70	80.39	9,003.75	328.43	894.55	-241.74	0.56	-0.44	-3.46
9,126.43	5.64	79.98	9,017.25	328.66	895.87	-241.85	0.53	-0.44	-3.02
9,140.00	5.58	79.67	9,030.76	328.90	897.18	-241.96	0.50	-0.44	-2.28
9,153.43	5.53	79.57	9,044.12	329.13	898.46	-242.07	0.38	-0.37	-0.74
9,166.86	5.49	79.56	9,057.49	329.36	899.72	-242.18	0.30	-0.30	-0.07
9,180.29	5.44	79.60	9,070.86	329.60	900.98	-242.29	0.37	-0.37	0.30
9,193.71	5.39	79.63	9,084.22	329.82	902.23	-242.40	0.37	-0.37	0.22
9,207.14	5.32	79.61	9,097.59	330.05	903.46	-242.50	0.52	-0.52	-0.15
9,220.57	5.25	79.49	9,110.96	330.27	904.68	-242.61	0.53	-0.52	-0.89
9,234.00	5.15	79.20	9,124.34	330.50	905.87	-242.72	0.77	-0.74	-2.16
9,247.57	5.02	78.56	9,137.85	330.73	907.05	-242.84	1.05	-0.96	-4.72
9,261.14	4.86	77.70	9,151.37	330.97	908.20	-242.97	1.30	-1.18	-6.34
9,274.71	4.70	76.66	9,164.90	331.22	909.30	-243.12	1.34	-1.18	-7.66
9,288.29	4.53	75.51	9,178.43	331.48	910.36	-243.28	1.43	-1.25	-8.47
9,301.86	4.36	74.28	9,191.96	331.76	911.38	-243.45	1.44	-1.25	-9.06
9,315.43	4.20	73.06	9,205.49	332.04	912.35	-243.64	1.36	-1.18	-8.99
9,329.00	4.05	71.95	9,219.03	332.34	913.28	-243.85	1.25	-1.11	-8.18
9,342.57	3.92	71.40	9,232.57	332.63	914.17	-244.06	1.00	-0.96	-4.05
9,356.14	3.80	71.07	9,246.11	332.93	915.04	-244.27	0.90	-0.88	-2.43
9,369.71	3.70	70.89	9,259.65	333.22	915.88	-244.47	0.74	-0.74	-1.33
9,383.29	3.60	70.84	9,273.20	333.50	916.69	-244.68	0.74	-0.74	-0.37
9,396.86	3.51	70.92	9,286.74	333.78	917.49	-244.88	0.66	-0.66	0.59
9,410.43	3.42	71.12	9,300.29	334.04	918.27	-245.07	0.67	-0.66	1.47
9,424.00	3.35	71.47	9,313.83	334.30	919.02	-245.25	0.54	-0.52	2.58
9,437.57	3.28	71.97	9,327.38	334.55	919.77	-245.43	0.56	-0.52	3.68
9,451.14	3.21	72.61	9,340.93	334.78	920.50	-245.59	0.58	-0.52	4.72
9,464.71	3.15	73.34	9,354.48	335.00	921.22	-245.74	0.53	-0.44	5.38
9,478.29	3.09	74.12	9,368.04	335.21	921.93	-245.88	0.54	-0.44	5.74
9,491.86	3.03	74.93	9,381.59	335.40	922.63	-246.00	0.54	-0.44	5.97
9,505.43	2.96	75.73	9,395.14	335.58	923.31	-246.12	0.60	-0.52	5.90



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
9,519.00	2.88	76.47	9,408.69	335.75	923.99	-246.22	0.65	-0.59	5.45
9,532.57	2.78	76.85	9,422.25	335.90	924.64	-246.31	0.75	-0.74	2.80
9,546.14	2.66	77.11	9,435.80	336.05	925.26	-246.40	0.89	-0.88	1.92
9,559.71	2.54	77.32	9,449.36	336.18	925.86	-246.47	0.89	-0.88	1.55
9,573.29	2.42	77.54	9,462.92	336.31	926.44	-246.55	0.89	-0.88	1.62
9,586.86	2.30	77.83	9,476.48	336.43	926.98	-246.61	0.89	-0.88	2.14
9,600.43	2.20	78.28	9,490.04	336.54	927.51	-246.67	0.75	-0.74	3.32
9,614.00	2.11	79.00	9,503.60	336.64	928.01	-246.73	0.69	-0.66	5.31
9,627.57	2.05	80.17	9,517.16	336.73	928.49	-246.77	0.54	-0.44	8.62
9,641.14	2.02	81.63	9,530.73	336.80	928.97	-246.80	0.44	-0.22	10.76
9,654.71	1.99	83.27	9,544.29	336.87	929.44	-246.82	0.48	-0.22	12.09
9,668.29	1.98	85.00	9,557.86	336.92	929.90	-246.82	0.45	-0.07	12.74
9,681.86	1.97	86.78	9,571.42	336.95	930.37	-246.81	0.46	-0.07	13.12
9,695.43	1.97	88.55	9,584.98	336.97	930.84	-246.78	0.45	0.00	13.04
9,709.00	1.97	90.29	9,598.55	336.97	931.30	-246.74	0.44	0.00	12.82
9,722.57	1.95	91.90	9,612.11	336.96	931.77	-246.69	0.43	-0.15	11.86
9,736.14	1.93	93.45	9,625.67	336.94	932.23	-246.63	0.41	-0.15	11.42
9,749.71	1.91	94.95	9,639.23	336.91	932.68	-246.55	0.40	-0.15	11.05
9,763.29	1.89	96.38	9,652.80	336.86	933.13	-246.46	0.38	-0.15	10.53
9,776.86	1.87	97.73	9,666.37	336.81	933.57	-246.37	0.36	-0.15	9.95
9,790.43	1.85	98.97	9,679.93	336.75	934.00	-246.26	0.33	-0.15	9.14
9,804.00	1.82	100.05	9,693.49	336.67	934.43	-246.15	0.34	-0.22	7.96
9,817.57	1.79	100.76	9,707.06	336.60	934.85	-246.03	0.28	-0.22	5.23
9,831.14	1.75	101.30	9,720.62	336.52	935.27	-245.91	0.32	-0.29	3.98
9,844.71	1.71	101.72	9,734.18	336.44	935.67	-245.79	0.31	-0.29	3.10
9,858.29	1.68	102.07	9,747.76	336.35	936.06	-245.67	0.23	-0.22	2.58
9,871.86	1.64	102.40	9,761.32	336.27	936.44	-245.55	0.30	-0.29	2.43
9,885.43	1.61	102.76	9,774.89	336.19	936.82	-245.43	0.23	-0.22	2.65
9,899.00	1.58	103.21	9,788.45	336.10	937.19	-245.32	0.24	-0.22	3.32
9,912.57	1.56	103.90	9,802.02	336.01	937.55	-245.19	0.20	-0.15	5.08
9,926.14	1.56	104.68	9,815.58	335.92	937.91	-245.07	0.16	0.00	5.75
9,939.71	1.55	105.53	9,829.15	335.83	938.26	-244.94	0.19	-0.07	6.26
9,953.29	1.55	106.40	9,842.72	335.73	938.62	-244.81	0.17	0.00	6.41
9,966.86	1.55	107.29	9,856.29	335.62	938.97	-244.67	0.18	0.00	6.56
9,980.43	1.55	108.18	9,869.85	335.51	939.32	-244.52	0.18	0.00	6.56
9,994.00	1.56	109.09	9,883.42	335.39	939.67	-244.37	0.20	0.07	6.71
10,007.43	1.57	110.03	9,896.84	335.27	940.01	-244.22	0.21	0.07	7.00
10,020.86	1.58	110.95	9,910.27	335.14	940.36	-244.05	0.20	0.07	6.85
10,034.29	1.59	111.82	9,923.69	335.00	940.70	-243.89	0.19	0.07	6.48
10,047.71	1.59	112.60	9,937.11	334.86	941.05	-243.71	0.16	0.00	5.81
10,061.14	1.60	113.25	9,950.53	334.72	941.39	-243.54	0.15	0.07	4.84
10,074.57	1.60	113.72	9,963.96	334.57	941.74	-243.35	0.10	0.00	3.50
10,088.00	1.58	113.94	9,977.38	334.42	942.08	-243.17	0.16	-0.15	1.64
10,101.57	1.56	113.74	9,990.95	334.27	942.42	-242.99	0.15	-0.15	-1.47



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
10,115.14	1.52	113.26	10,004.51	334.12	942.75	-242.81	0.31	-0.29	-3.54
10,128.71	1.48	112.56	10,018.08	333.98	943.08	-242.64	0.32	-0.29	-5.16
10,142.29	1.43	111.71	10,031.65	333.85	943.40	-242.49	0.40	-0.37	-6.26
10,155.86	1.38	110.77	10,045.22	333.73	943.71	-242.34	0.41	-0.37	-6.93
10,169.43	1.33	109.79	10,058.78	333.62	944.01	-242.20	0.41	-0.37	-7.22
10,183.00	1.28	108.89	10,072.35	333.52	944.30	-242.07	0.40	-0.37	-6.63
10,197.62	1.23	108.56	10,086.97	333.41	944.60	-241.94	0.35	-0.34	-2.26
10,212.23	1.18	108.43	10,101.57	333.32	944.89	-241.81	0.34	-0.34	-0.89
10,226.85	1.13	108.43	10,116.19	333.22	945.17	-241.69	0.34	-0.34	0.00
10,241.46	1.08	108.50	10,130.80	333.13	945.44	-241.58	0.34	-0.34	0.48
10,256.08	1.03	108.62	10,145.42	333.05	945.70	-241.47	0.34	-0.34	0.82
10,270.69	0.98	108.76	10,160.02	332.97	945.94	-241.36	0.34	-0.34	0.96
10,285.31	0.94	108.90	10,174.64	332.89	946.17	-241.26	0.27	-0.27	0.96
10,299.92	0.89	109.04	10,189.25	332.81	946.39	-241.16	0.34	-0.34	0.96
10,314.54	0.85	109.16	10,203.87	332.74	946.60	-241.07	0.27	-0.27	0.82
10,329.15	0.80	109.26	10,218.48	332.67	946.80	-240.98	0.34	-0.34	0.68
10,343.77	0.76	109.32	10,233.09	332.60	946.99	-240.90	0.27	-0.27	0.41
10,358.38	0.72	109.35	10,247.70	332.54	947.17	-240.82	0.27	-0.27	0.21
10,373.00	0.69	109.32	10,262.32	332.48	947.34	-240.75	0.21	-0.21	-0.21
10,386.57	0.68	114.64	10,275.89	332.42	947.49	-240.67	0.47	-0.07	39.20
10,400.14	0.69	119.98	10,289.46	332.35	947.63	-240.58	0.48	0.07	39.35
10,413.71	0.69	125.24	10,303.03	332.26	947.77	-240.48	0.47	0.00	38.76
10,427.29	0.70	130.35	10,316.61	332.16	947.90	-240.37	0.46	0.07	37.63
10,440.86	0.72	135.24	10,330.18	332.04	948.02	-240.25	0.47	0.15	36.04
10,454.43	0.75	139.86	10,343.75	331.92	948.14	-240.11	0.49	0.22	34.05
10,468.00	0.77	144.17	10,357.31	331.77	948.25	-239.95	0.45	0.15	31.76
10,482.62	0.78	144.83	10,371.93	331.61	948.36	-239.78	0.09	0.07	4.51
10,497.23	0.78	145.47	10,386.54	331.45	948.48	-239.61	0.06	0.00	4.38
10,511.85	0.79	146.11	10,401.16	331.28	948.59	-239.43	0.09	0.07	4.38
10,526.46	0.79	146.73	10,415.77	331.12	948.70	-239.26	0.06	0.00	4.24
10,541.08	0.80	147.34	10,430.39	330.95	948.81	-239.08	0.09	0.07	4.17
10,555.69	0.80	147.94	10,445.00	330.77	948.92	-238.90	0.06	0.00	4.11
10,570.31	0.81	148.53	10,459.62	330.60	949.03	-238.71	0.09	0.07	4.04
10,584.92	0.81	149.11	10,474.22	330.42	949.14	-238.53	0.06	0.00	3.97
10,599.54	0.82	149.67	10,488.84	330.24	949.24	-238.34	0.09	0.07	3.83
10,614.15	0.82	150.23	10,503.45	330.06	949.35	-238.15	0.05	0.00	3.83
10,628.77	0.83	150.78	10,518.07	329.88	949.45	-237.95	0.09	0.07	3.76
10,643.38	0.83	151.31	10,532.68	329.69	949.55	-237.76	0.05	0.00	3.63
10,658.00	0.84	151.84	10,547.30	329.51	949.65	-237.56	0.09	0.07	3.63
10,671.57	0.73	154.18	10,560.86	329.34	949.74	-237.39	0.84	-0.81	17.24
10,685.14	0.63	157.26	10,574.43	329.19	949.81	-237.24	0.78	-0.74	22.70
10,698.71	0.54	161.47	10,588.00	329.07	949.85	-237.11	0.73	-0.66	31.02
10,712.29	0.44	167.47	10,601.58	328.95	949.89	-236.99	0.83	-0.74	44.18



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
10,725.86	0.36	176.49	10,615.15	328.86	949.90	-236.90	0.75	-0.59	66.47
10,739.43	0.29	190.54	10,628.72	328.78	949.90	-236.82	0.78	-0.52	103.54
10,753.00	0.24	211.63	10,642.29	328.73	949.88	-236.77	0.80	-0.37	155.42
10,766.57	0.23	226.03	10,655.86	328.68	949.84	-236.73	0.44	-0.07	106.12
10,780.14	0.24	240.79	10,669.43	328.65	949.80	-236.70	0.45	0.07	108.77
10,793.71	0.26	254.13	10,683.00	328.63	949.74	-236.68	0.45	0.15	98.31
10,807.29	0.29	265.11	10,696.58	328.62	949.68	-236.68	0.45	0.22	80.85
10,820.86	0.33	273.71	10,710.15	328.62	949.60	-236.68	0.45	0.29	63.38
10,834.43	0.37	280.36	10,723.72	328.63	949.52	-236.70	0.42	0.29	49.01
10,848.00	0.42	285.53	10,737.29	328.65	949.43	-236.73	0.45	0.37	38.10
10,861.43	0.49	282.43	10,750.72	328.67	949.33	-236.77	0.55	0.52	-23.08
10,874.86	0.56	280.10	10,764.15	328.70	949.21	-236.80	0.54	0.52	-17.35
10,888.29	0.63	278.30	10,777.58	328.72	949.07	-236.84	0.54	0.52	-13.40
10,901.71	0.70	276.87	10,791.00	328.74	948.92	-236.87	0.54	0.52	-10.66
10,915.14	0.77	275.70	10,804.43	328.76	948.74	-236.91	0.53	0.52	-8.71
10,928.57	0.84	274.74	10,817.86	328.78	948.56	-236.94	0.53	0.52	-7.15
10,942.00	0.91	273.94	10,831.28	328.79	948.35	-236.98	0.53	0.52	-5.96
10,955.57	0.98	271.50	10,844.85	328.80	948.13	-237.01	0.59	0.52	-17.98
10,969.14	1.04	269.38	10,858.42	328.80	947.89	-237.03	0.52	0.44	-15.62
10,982.71	1.11	267.52	10,871.99	328.80	947.63	-237.05	0.58	0.52	-13.71
10,996.29	1.18	265.88	10,885.56	328.78	947.36	-237.06	0.57	0.52	-12.08
11,009.86	1.25	264.43	10,899.13	328.76	947.08	-237.06	0.56	0.52	-10.69
11,023.43	1.32	263.15	10,912.70	328.72	946.77	-237.06	0.56	0.52	-9.43
11,037.00	1.39	262.00	10,926.26	328.68	946.46	-237.05	0.55	0.52	-8.47
11,051.62	1.43	260.69	10,940.88	328.63	946.10	-237.03	0.35	0.27	-8.96
11,066.23	1.46	259.32	10,955.49	328.56	945.74	-237.00	0.31	0.21	-9.38
11,080.85	1.50	257.95	10,970.10	328.49	945.37	-236.96	0.37	0.27	-9.37
11,095.46	1.55	256.62	10,984.71	328.40	944.99	-236.91	0.42	0.34	-9.10
11,110.08	1.59	255.34	10,999.32	328.31	944.60	-236.85	0.36	0.27	-8.76
11,124.69	1.64	254.12	11,013.92	328.20	944.20	-236.78	0.42	0.34	-8.35
11,139.31	1.68	252.98	11,028.54	328.08	943.80	-236.70	0.35	0.27	-7.80
11,153.92	1.73	251.92	11,043.14	327.95	943.38	-236.61	0.40	0.34	-7.26
11,168.54	1.77	250.97	11,057.75	327.80	942.96	-236.51	0.34	0.27	-6.50
11,183.15	1.81	250.14	11,072.36	327.65	942.53	-236.40	0.33	0.27	-5.68
11,197.77	1.84	249.47	11,086.97	327.49	942.09	-236.28	0.25	0.21	-4.58
11,212.38	1.86	249.01	11,101.57	327.32	941.65	-236.15	0.17	0.14	-3.15
11,227.00	1.86	248.84	11,116.18	327.15	941.21	-236.03	0.04	0.00	-1.16
11,241.00	1.83	249.39	11,130.18	326.99	940.79	-235.91	0.25	-0.21	3.93
11,255.00	1.80	250.46	11,144.17	326.84	940.37	-235.79	0.32	-0.21	7.64
11,269.00	1.76	251.98	11,158.16	326.70	939.96	-235.69	0.44	-0.29	10.86
11,283.00	1.75	253.94	11,172.16	326.58	939.55	-235.61	0.43	-0.07	14.00
11,297.00	1.77	256.30	11,186.15	326.46	939.13	-235.54	0.54	0.14	16.86
11,310.60	1.84	259.33	11,199.74	326.37	938.71	-235.49	0.87	0.51	22.28



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
11,324.20	1.94	262.43	11,213.34	326.30	938.27	-235.46	1.05	0.74	22.79
11,337.80	2.07	265.30	11,226.93	326.25	937.80	-235.45	1.21	0.96	21.10
11,351.40	2.22	267.77	11,240.52	326.22	937.29	-235.47	1.30	1.10	18.16
11,365.00	2.37	269.77	11,254.11	326.21	936.75	-235.51	1.25	1.10	14.71
11,378.60	2.54	271.29	11,267.70	326.22	936.16	-235.57	1.34	1.25	11.18
11,392.20	2.69	272.29	11,281.28	326.24	935.54	-235.65	1.15	1.10	7.35
11,405.80	2.84	272.73	11,294.87	326.27	934.89	-235.74	1.11	1.10	3.24
11,419.40	2.98	272.52	11,308.45	326.30	934.20	-235.84	1.03	1.03	-1.54
11,433.00	3.09	271.46	11,322.03	326.32	933.48	-235.93	0.91	0.81	-7.79
11,446.57	3.20	269.60	11,335.58	326.33	932.73	-236.01	1.11	0.81	-13.71
11,460.14	3.30	266.96	11,349.13	326.31	931.97	-236.06	1.33	0.74	-19.45
11,473.71	3.40	263.87	11,362.67	326.24	931.18	-236.07	1.52	0.74	-22.77
11,487.29	3.51	260.48	11,376.23	326.13	930.37	-236.04	1.71	0.81	-24.96
11,500.86	3.61	256.91	11,389.77	325.96	929.54	-235.95	1.79	0.74	-26.31
11,514.43	3.72	253.18	11,403.31	325.74	928.70	-235.81	1.93	0.81	-27.49
11,528.00	3.43	255.45	11,416.86	325.51	927.89	-235.66	2.38	-2.14	16.73
11,541.43	3.64	233.57	11,430.26	325.16	927.16	-235.38	10.10	1.56	-162.92
11,554.86	5.00	204.61	11,443.66	324.37	926.57	-234.65	18.83	10.13	-215.64
11,568.29	7.10	190.72	11,457.01	323.02	926.17	-233.35	18.95	15.64	-103.43
11,581.71	9.26	187.29	11,470.29	321.14	925.88	-231.50	16.49	16.10	-25.56
11,595.14	11.47	182.71	11,483.50	318.73	925.68	-229.12	17.55	16.46	-34.10
11,608.57	13.87	180.06	11,496.61	315.79	925.61	-226.20	18.38	17.87	-19.73
11,622.00	16.06	180.27	11,509.58	312.32	925.60	-222.75	16.31	16.31	1.56
11,635.57	18.48	179.59	11,522.54	308.29	925.61	-218.74	17.90	17.83	-5.01
11,649.14	20.85	178.17	11,535.32	303.73	925.70	-214.18	17.82	17.46	-10.46
11,662.71	23.18	177.51	11,547.90	298.64	925.90	-209.10	17.27	17.17	-4.86
11,676.29	25.08	175.57	11,560.29	293.10	926.23	-203.56	15.16	13.99	-14.29
11,689.86	25.77	172.73	11,572.54	287.31	926.83	-197.73	10.32	5.08	-20.93
11,703.43	25.46	171.37	11,584.78	281.50	927.64	-191.87	4.90	-2.28	-10.02
11,717.00	26.76	171.59	11,596.97	275.59	928.53	-185.91	9.61	9.58	1.62
11,730.57	28.63	171.70	11,608.98	269.35	929.44	-179.61	13.79	13.78	0.81
11,744.14	30.55	170.53	11,620.78	262.73	930.48	-172.92	14.77	14.15	-8.62
11,757.71	32.24	169.57	11,632.36	255.77	931.70	-165.88	12.99	12.45	-7.07
11,771.29	32.26	169.22	11,643.85	248.65	933.04	-158.66	1.38	0.15	-2.58
11,784.86	32.31	168.92	11,655.32	241.53	934.41	-151.44	1.24	0.37	-2.21
11,798.43	32.36	168.64	11,666.79	234.41	935.82	-144.22	1.16	0.37	-2.06
11,812.00	33.13	168.90	11,678.20	227.21	937.25	-136.92	5.77	5.67	1.92
11,825.57	34.81	169.78	11,689.45	219.76	938.65	-129.37	12.90	12.38	6.48
11,839.14	36.67	171.20	11,700.47	211.95	939.96	-121.46	15.01	13.71	10.46
11,852.71	37.84	173.25	11,711.27	203.81	941.07	-113.25	12.57	8.62	15.11
11,866.29	37.84	173.05	11,721.99	195.54	942.06	-104.93	0.90	0.00	-1.47
11,879.86	37.84	172.86	11,732.71	187.27	943.08	-96.60	0.86	0.00	-1.40
11,893.43	37.90	172.94	11,743.42	179.01	944.11	-88.28	0.57	0.44	0.59
11,907.00	38.38	174.48	11,754.09	170.68	945.03	-79.90	7.85	3.54	11.35



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
11,920.57	39.31	175.49	11,764.66	162.20	945.77	-71.39	8.29	6.85	7.44
11,934.14	41.03	176.38	11,775.03	153.47	946.39	-62.64	13.36	12.68	6.56
11,947.71	42.85	177.52	11,785.13	144.41	946.87	-53.58	14.54	13.41	8.40
11,956.37	43.57	177.98	11,791.44	138.49	947.11	-47.66	9.06	8.32	5.27
SL: 11956.37' MD, 43.57° Inc									
11,961.29	43.98	178.23	11,794.99	135.09	947.22	-44.26	9.06	8.33	5.16
11,974.86	43.73	178.40	11,804.78	125.69	947.50	-34.88	2.04	-1.84	1.25
11,988.43	44.36	178.67	11,814.53	116.26	947.74	-25.47	4.84	4.64	1.99
12,002.00	45.71	179.60	11,824.12	106.66	947.88	-15.90	11.07	9.95	6.85
12,015.57	46.99	180.29	11,833.49	96.84	947.89	-6.12	10.12	9.43	5.08
12,029.14	48.53	179.19	11,842.61	86.79	947.94	3.88	12.84	11.35	-8.11
12,042.71	50.47	178.96	11,851.42	76.48	948.10	14.17	14.35	14.30	-1.69
12,056.29	51.50	178.34	11,859.97	65.93	948.35	24.69	8.37	7.58	-4.57
12,069.86	52.19	178.69	11,868.35	55.26	948.63	35.34	5.47	5.08	2.58
12,083.43	52.33	178.53	11,876.66	44.53	948.89	46.04	1.39	1.03	-1.18
12,091.00	53.16	178.91	11,881.24	38.51	949.02	52.05	11.60	10.90	4.98
FTP: 12091.00' MD, 53.16° Inc									
12,097.00	53.81	179.20	11,884.81	33.69	949.10	56.86	11.60	10.91	4.88
12,110.57	55.75	180.19	11,892.64	22.60	949.16	67.90	15.49	14.30	7.30
12,124.14	57.78	179.70	11,900.08	11.25	949.17	79.20	15.26	14.96	-3.61
12,137.71	59.88	179.73	11,907.10	-0.36	949.23	90.76	15.48	15.48	0.22
12,151.29	60.50	179.57	11,913.85	-12.14	949.30	102.49	4.68	4.57	-1.18
12,164.86	61.63	178.76	11,920.41	-24.01	949.48	114.33	9.83	8.33	-5.97
12,178.43	63.36	178.14	11,926.68	-36.04	949.80	126.34	13.38	12.75	-4.57
12,192.00	65.29	178.10	11,932.56	-48.27	950.20	138.55	14.23	14.22	-0.29
12,205.57	67.40	178.36	11,938.00	-60.69	950.59	150.95	15.65	15.55	1.92
12,219.14	69.59	178.60	11,942.98	-73.31	950.92	163.54	16.22	16.14	1.77
12,232.71	71.71	178.61	11,947.48	-86.11	951.23	176.31	15.62	15.62	0.07
12,246.29	73.92	179.21	11,951.49	-99.08	951.48	189.25	16.81	16.27	4.42
12,259.86	74.83	178.87	11,955.14	-112.15	951.70	202.28	7.13	6.71	-2.51
12,273.43	74.95	178.45	11,958.68	-125.24	952.01	215.34	3.12	0.88	-3.10
12,287.00	75.06	178.07	11,962.19	-138.35	952.40	228.42	2.82	0.81	-2.80
12,300.43	75.47	178.26	11,965.61	-151.33	952.82	241.39	3.35	3.05	1.41
12,313.86	76.44	179.22	11,968.87	-164.35	953.11	254.38	10.01	7.22	7.15
12,327.29	77.32	180.24	11,971.91	-177.43	953.17	267.40	9.88	6.55	7.59
12,340.71	78.56	181.73	11,974.72	-190.55	952.94	280.44	14.26	9.24	11.10
12,354.14	79.62	182.04	11,977.26	-203.73	952.51	293.52	8.21	7.89	2.31
12,367.57	79.64	182.06	11,979.68	-216.93	952.03	306.62	0.21	0.15	0.15
12,381.00	79.67	182.06	11,982.09	-230.14	951.56	319.72	0.22	0.22	0.00
12,394.57	79.46	181.84	11,984.55	-243.48	951.11	332.95	2.22	-1.55	-1.62
12,408.14	79.45	181.31	11,987.03	-256.81	950.74	346.19	3.84	-0.07	-3.91
12,421.71	80.29	180.31	11,989.42	-270.17	950.55	359.47	9.54	6.19	-7.37
12,435.29	82.43	180.07	11,991.46	-283.59	950.51	372.83	15.86	15.76	-1.77



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
12,448.86	83.70	180.05	11,993.10	-297.06	950.49	386.24	9.36	9.36	-0.15
12,462.43	83.85	179.93	11,994.57	-310.55	950.49	399.67	1.41	1.11	-0.88
12,476.00	84.04	179.86	11,996.00	-324.05	950.52	413.10	1.49	1.40	-0.52
12,489.57	84.26	179.88	11,997.38	-337.55	950.55	426.54	1.63	1.62	0.15
12,503.14	84.50	179.94	11,998.71	-351.05	950.57	439.99	1.82	1.77	0.44
12,516.71	84.73	180.02	11,999.98	-364.56	950.58	453.44	1.79	1.69	0.59
12,530.29	84.93	180.07	12,001.21	-378.09	950.56	466.90	1.52	1.47	0.37
12,543.86	85.59	180.58	12,002.33	-391.61	950.49	480.35	6.14	4.86	3.76
12,557.43	87.02	180.81	12,003.20	-405.15	950.32	493.82	10.67	10.54	1.69
12,571.00	88.97	180.53	12,003.68	-418.71	950.17	507.30	14.52	14.37	-2.06
12,584.57	89.58	180.52	12,003.85	-432.28	950.04	520.80	4.50	4.50	-0.07
12,598.14	89.44	180.26	12,003.97	-445.85	949.95	534.29	2.18	-1.03	-1.92
12,611.71	89.27	179.97	12,004.12	-459.42	949.92	547.80	2.48	-1.25	-2.14
12,625.29	89.10	179.70	12,004.31	-473.00	949.96	561.32	2.35	-1.25	-1.99
12,638.86	88.96	179.48	12,004.54	-486.56	950.06	574.83	1.92	-1.03	-1.62
12,652.43	88.86	179.33	12,004.80	-500.13	950.20	588.35	1.33	-0.74	-1.11
12,666.00	88.86	179.32	12,005.07	-513.70	950.36	601.87	0.07	0.00	-0.07
12,679.43	89.02	179.55	12,005.32	-527.12	950.49	615.25	2.09	1.19	1.71
12,692.86	88.94	179.61	12,005.56	-540.55	950.59	628.63	0.74	-0.60	0.45
12,706.29	89.14	179.52	12,005.78	-553.98	950.69	642.00	1.63	1.49	-0.67
12,719.71	90.60	179.47	12,005.81	-567.40	950.81	655.37	10.89	10.88	-0.37
12,733.14	90.87	179.80	12,005.64	-580.83	950.89	668.75	3.17	2.01	2.46
12,746.57	91.10	180.06	12,005.41	-594.25	950.91	682.12	2.58	1.71	1.94
12,760.00	91.22	180.10	12,005.14	-607.68	950.89	695.48	0.94	0.89	0.30
12,773.57	91.12	179.74	12,004.86	-621.25	950.91	708.99	2.75	-0.74	-2.65
12,787.14	90.89	179.13	12,004.62	-634.82	951.05	722.51	4.80	-1.69	-4.50
12,800.71	90.59	178.38	12,004.45	-648.38	951.34	736.04	5.95	-2.21	-5.53
12,814.29	90.27	177.55	12,004.35	-661.95	951.82	749.59	6.55	-2.36	-6.11
12,827.86	89.95	176.72	12,004.32	-675.51	952.50	763.15	6.56	-2.36	-6.12
12,841.43	89.69	175.94	12,004.36	-689.05	953.37	776.71	6.06	-1.92	-5.75
12,855.00	89.15	175.90	12,004.50	-702.58	954.33	790.28	3.99	-3.98	-0.29
12,868.57	89.09	175.34	12,004.71	-716.11	955.37	803.84	4.15	-0.44	-4.13
12,882.14	89.09	174.84	12,004.92	-729.63	956.53	817.41	3.68	0.00	-3.68
12,895.71	89.13	174.36	12,005.13	-743.14	957.81	830.98	3.55	0.29	-3.54
12,909.29	89.20	173.90	12,005.33	-756.64	959.20	844.56	3.43	0.52	-3.39
12,922.86	89.29	173.44	12,005.51	-770.13	960.69	858.13	3.45	0.66	-3.39
12,936.43	89.40	172.96	12,005.67	-783.60	962.30	871.69	3.63	0.81	-3.54
12,950.00	89.52	172.45	12,005.79	-797.06	964.02	885.25	3.86	0.88	-3.76
12,963.57	89.65	171.88	12,005.89	-810.51	965.87	898.81	4.31	0.96	-4.20
12,977.14	89.79	171.26	12,005.96	-823.93	967.86	912.36	4.68	1.03	-4.57
12,990.71	89.92	170.63	12,005.99	-837.33	970.00	925.91	4.74	0.96	-4.64
13,004.29	90.04	169.99	12,006.00	-850.72	972.28	939.45	4.79	0.88	-4.71
13,017.86	90.14	169.35	12,005.98	-864.07	974.72	952.97	4.77	0.74	-4.72
13,031.43	90.20	168.71	12,005.94	-877.39	977.30	966.48	4.74	0.44	-4.72



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
13,045.00	90.20	168.10	12,005.89	-890.68	980.03	979.97	4.50	0.00	-4.50
13,058.43	90.42	168.97	12,005.82	-903.84	982.70	993.33	6.68	1.64	6.48
13,071.86	90.33	170.30	12,005.73	-917.05	985.11	1,006.71	9.93	-0.67	9.90
13,085.29	90.31	171.01	12,005.65	-930.31	987.29	1,020.11	5.29	-0.15	5.29
13,098.71	89.86	170.23	12,005.63	-943.55	989.48	1,033.49	6.71	-3.35	-5.81
13,112.14	89.36	169.42	12,005.72	-956.76	991.85	1,046.88	7.09	-3.72	-6.03
13,125.57	88.90	168.67	12,005.93	-969.95	994.40	1,060.25	6.55	-3.43	-5.58
13,139.00	88.48	168.69	12,006.24	-983.11	997.04	1,073.60	3.13	-3.13	0.15
13,152.57	88.29	169.65	12,006.62	-996.44	999.59	1,087.11	7.21	-1.40	7.07
13,166.14	88.62	171.08	12,006.98	-1,009.81	1,001.86	1,100.64	10.81	2.43	10.54
13,179.71	89.23	172.41	12,007.24	-1,023.24	1,003.81	1,114.19	10.78	4.50	9.80
13,193.29	89.46	173.55	12,007.39	-1,036.71	1,005.47	1,127.76	8.56	1.69	8.39
13,206.86	89.66	173.49	12,007.50	-1,050.20	1,007.00	1,141.33	1.54	1.47	-0.44
13,220.43	89.89	172.86	12,007.55	-1,063.67	1,008.61	1,154.89	4.94	1.69	-4.64
13,234.00	90.07	174.11	12,007.56	-1,077.15	1,010.15	1,168.46	9.31	1.33	9.21
13,247.57	90.20	174.97	12,007.52	-1,090.66	1,011.44	1,182.03	6.41	0.96	6.34
13,261.14	90.36	175.77	12,007.46	-1,104.19	1,012.54	1,195.60	6.01	1.18	5.90
13,274.71	90.52	176.64	12,007.35	-1,117.73	1,013.43	1,209.16	6.52	1.18	6.41
13,288.29	90.66	177.50	12,007.21	-1,131.29	1,014.13	1,222.73	6.42	1.03	6.33
13,301.86	90.77	178.22	12,007.04	-1,144.85	1,014.64	1,236.28	5.37	0.81	5.31
13,315.43	91.62	179.23	12,006.76	-1,158.41	1,014.94	1,249.81	9.73	6.26	7.44
13,329.00	91.37	179.98	12,006.41	-1,171.97	1,015.03	1,263.32	5.82	-1.84	5.53
13,342.57	91.27	181.11	12,006.09	-1,185.54	1,014.90	1,276.81	8.36	-0.74	8.33
13,356.14	91.43	181.66	12,005.77	-1,199.10	1,014.57	1,290.28	4.22	1.18	4.05
13,369.71	91.25	181.26	12,005.46	-1,212.66	1,014.23	1,303.75	3.23	-1.33	-2.95
13,383.29	91.06	180.78	12,005.18	-1,226.24	1,013.99	1,317.24	3.80	-1.40	-3.53
13,396.86	90.87	180.28	12,004.96	-1,239.81	1,013.86	1,330.73	3.94	-1.40	-3.68
13,410.43	90.72	179.83	12,004.77	-1,253.37	1,013.85	1,344.24	3.50	-1.11	-3.32
13,424.00	90.65	179.50	12,004.60	-1,266.94	1,013.93	1,357.75	2.49	-0.52	-2.43
13,437.57	90.72	179.40	12,004.44	-1,280.51	1,014.06	1,371.27	0.90	0.52	-0.74
13,451.14	90.87	179.44	12,004.25	-1,294.08	1,014.20	1,384.79	1.14	1.11	0.29
13,464.71	91.11	179.86	12,004.02	-1,307.65	1,014.28	1,398.30	3.56	1.77	3.10
13,478.29	91.50	181.11	12,003.71	-1,321.22	1,014.16	1,411.81	9.64	2.87	9.20
13,491.86	91.78	181.90	12,003.32	-1,334.78	1,013.81	1,425.27	6.17	2.06	5.82
13,505.43	92.00	182.13	12,002.87	-1,348.34	1,013.33	1,438.72	2.34	1.62	1.69
13,519.00	92.21	182.35	12,002.38	-1,361.89	1,012.80	1,452.16	2.24	1.55	1.62
13,532.57	92.37	182.53	12,001.83	-1,375.43	1,012.22	1,465.59	1.77	1.18	1.33
13,546.14	92.49	182.70	12,001.26	-1,388.98	1,011.60	1,479.01	1.53	0.88	1.25
13,559.71	92.59	182.85	12,000.66	-1,402.52	1,010.95	1,492.43	1.33	0.74	1.11
13,573.29	92.68	182.99	12,000.03	-1,416.07	1,010.26	1,505.85	1.22	0.66	1.03
13,586.86	92.27	183.23	11,999.45	-1,429.60	1,009.52	1,519.25	3.50	-3.02	1.77
13,600.43	91.32	183.75	11,999.02	-1,443.14	1,008.70	1,532.65	7.98	-7.00	3.83
13,614.00	89.80	184.24	11,998.89	-1,456.68	1,007.75	1,546.03	11.77	-11.20	3.61



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
13,627.57	89.16	184.41	11,999.01	-1,470.21	1,006.73	1,559.41	4.88	-4.72	1.25
13,641.14	89.24	184.65	11,999.20	-1,483.74	1,005.66	1,572.77	1.86	0.59	1.77
13,654.71	89.32	184.90	11,999.37	-1,497.26	1,004.53	1,586.12	1.93	0.59	1.84
13,668.29	89.40	185.17	11,999.52	-1,510.78	1,003.33	1,599.47	2.07	0.59	1.99
13,681.86	89.48	185.43	11,999.66	-1,524.30	1,002.08	1,612.80	2.00	0.59	1.92
13,695.43	89.57	185.69	11,999.77	-1,537.80	1,000.77	1,626.12	2.03	0.66	1.92
13,709.00	89.66	185.92	11,999.86	-1,551.30	999.39	1,639.43	1.82	0.66	1.69
13,722.57	89.77	186.11	11,999.93	-1,564.80	997.97	1,652.73	1.62	0.81	1.40
13,736.14	89.87	186.27	11,999.97	-1,578.29	996.51	1,666.02	1.39	0.74	1.18
13,749.71	89.97	186.42	11,999.99	-1,591.77	995.01	1,679.30	1.33	0.74	1.11
13,763.29	90.06	186.54	11,999.99	-1,605.27	993.48	1,692.59	1.10	0.66	0.88
13,776.86	90.13	186.66	11,999.96	-1,618.75	991.92	1,705.86	1.02	0.52	0.88
13,790.43	89.15	185.67	12,000.05	-1,632.24	990.46	1,719.15	10.27	-7.22	-7.30
13,804.00	88.32	183.94	12,000.35	-1,645.76	989.32	1,732.50	14.14	-6.12	-12.75
13,817.57	88.10	183.60	12,000.77	-1,659.29	988.43	1,745.89	2.98	-1.62	-2.51
13,831.14	88.03	183.65	12,001.23	-1,672.83	987.57	1,759.28	0.63	-0.52	0.37
13,844.71	87.94	183.70	12,001.71	-1,686.36	986.70	1,772.67	0.76	-0.66	0.37
13,858.29	87.83	183.74	12,002.21	-1,699.90	985.82	1,786.06	0.86	-0.81	0.29
13,871.86	87.72	183.78	12,002.74	-1,713.43	984.93	1,799.45	0.86	-0.81	0.29
13,885.43	87.62	183.82	12,003.29	-1,726.96	984.04	1,812.83	0.79	-0.74	0.29
13,899.00	87.52	183.88	12,003.86	-1,740.49	983.13	1,826.21	0.86	-0.74	0.44
13,912.57	87.43	183.95	12,004.46	-1,754.01	982.20	1,839.58	0.84	-0.66	0.52
13,926.14	87.37	184.04	12,005.08	-1,767.54	981.26	1,852.96	0.80	-0.44	0.66
13,939.71	87.32	184.15	12,005.70	-1,781.06	980.29	1,866.32	0.89	-0.37	0.81
13,953.29	87.30	184.30	12,006.34	-1,794.59	979.29	1,879.69	1.11	-0.15	1.10
13,966.86	87.32	184.49	12,006.98	-1,808.10	978.25	1,893.05	1.41	0.15	1.40
13,980.43	87.39	184.75	12,007.60	-1,821.61	977.16	1,906.40	1.98	0.52	1.92
13,994.00	87.96	185.24	12,008.16	-1,835.12	975.98	1,919.73	5.54	4.20	3.61
14,007.57	89.13	186.22	12,008.50	-1,848.62	974.62	1,933.04	11.25	8.62	7.22
14,021.14	89.71	187.00	12,008.64	-1,862.10	973.06	1,946.31	7.16	4.27	5.75
14,034.71	90.23	187.85	12,008.64	-1,875.55	971.31	1,959.53	7.34	3.83	6.26
14,048.29	90.80	188.74	12,008.52	-1,888.99	969.35	1,972.72	7.78	4.20	6.55
14,061.86	91.34	189.61	12,008.27	-1,902.38	967.18	1,985.85	7.54	3.98	6.41
14,075.43	91.81	190.36	12,007.90	-1,915.74	964.83	1,998.92	6.52	3.46	5.53
14,089.00	92.14	190.91	12,007.43	-1,929.07	962.33	2,011.95	4.72	2.43	4.05
14,102.57	92.48	190.51	12,006.88	-1,942.39	959.81	2,024.98	3.87	2.51	-2.95
14,116.14	92.74	189.16	12,006.26	-1,955.75	957.49	2,038.05	10.12	1.92	-9.95
14,129.71	92.72	187.91	12,005.62	-1,969.15	955.48	2,051.20	9.20	-0.15	-9.21
14,143.29	92.32	187.42	12,005.02	-1,982.60	953.67	2,064.42	4.66	-2.95	-3.61
14,156.86	91.85	186.84	12,004.53	-1,996.06	951.99	2,077.65	5.50	-3.46	-4.27
14,170.43	91.36	186.25	12,004.15	-2,009.53	950.44	2,090.92	5.65	-3.61	-4.35
14,184.00	90.91	185.77	12,003.88	-2,023.02	949.02	2,104.21	4.85	-3.32	-3.54
14,197.43	90.31	185.02	12,003.73	-2,036.39	947.76	2,117.40	7.15	-4.47	-5.58



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
14,210.86	89.40	183.76	12,003.77	-2,049.78	946.73	2,130.63	11.57	-6.78	-9.38
14,224.29	88.64	182.45	12,004.00	-2,063.19	946.01	2,143.91	11.28	-5.66	-9.75
14,237.71	88.39	181.02	12,004.35	-2,076.60	945.60	2,157.22	10.81	-1.86	-10.66
14,251.14	88.19	180.51	12,004.75	-2,090.02	945.42	2,170.57	4.08	-1.49	-3.80
14,264.57	88.02	180.74	12,005.19	-2,103.45	945.27	2,183.91	2.13	-1.27	1.71
14,278.00	87.83	180.94	12,005.68	-2,116.87	945.08	2,197.25	2.05	-1.41	1.49
14,291.57	87.62	180.98	12,006.22	-2,130.42	944.85	2,210.73	1.58	-1.55	0.29
14,305.14	87.39	180.93	12,006.81	-2,143.98	944.62	2,224.20	1.73	-1.69	-0.37
14,318.71	87.16	180.82	12,007.45	-2,157.53	944.42	2,237.67	1.88	-1.69	-0.81
14,332.29	86.93	180.68	12,008.15	-2,171.09	944.24	2,251.15	1.98	-1.69	-1.03
14,345.86	86.70	180.51	12,008.91	-2,184.64	944.10	2,264.63	2.11	-1.69	-1.25
14,359.43	86.47	180.33	12,009.71	-2,198.19	944.00	2,278.10	2.15	-1.69	-1.33
14,373.00	86.24	180.17	12,010.58	-2,211.73	943.94	2,291.58	2.06	-1.69	-1.18
14,386.57	86.03	180.03	12,011.49	-2,225.27	943.92	2,305.05	1.86	-1.55	-1.03
14,400.14	85.83	179.90	12,012.45	-2,238.80	943.92	2,318.53	1.76	-1.47	-0.96
14,413.71	85.63	179.79	12,013.46	-2,252.34	943.96	2,332.00	1.68	-1.47	-0.81
14,427.29	85.45	179.68	12,014.52	-2,265.87	944.02	2,345.48	1.55	-1.33	-0.81
14,440.86	85.28	179.59	12,015.62	-2,279.40	944.11	2,358.96	1.42	-1.25	-0.66
14,454.43	85.08	179.91	12,016.76	-2,292.92	944.17	2,372.42	2.77	-1.47	2.36
14,468.00	84.86	180.18	12,017.95	-2,306.44	944.16	2,385.88	2.56	-1.62	1.99
14,571.00	85.05	180.45	12,027.01	-2,409.04	943.59	2,487.96	0.32	0.18	0.26
14,665.00	87.81	180.32	12,032.86	-2,502.85	942.96	2,581.28	2.94	2.94	-0.14
14,760.00	89.07	181.54	12,035.44	-2,597.79	941.42	2,675.65	1.85	1.33	1.28
14,855.00	89.01	181.82	12,037.04	-2,692.74	938.64	2,769.89	0.30	-0.06	0.29
14,950.00	90.25	182.19	12,037.65	-2,787.68	935.31	2,864.08	1.36	1.31	0.39
15,045.00	91.04	182.21	12,036.58	-2,882.60	931.67	2,958.23	0.83	0.83	0.02
15,139.00	90.59	180.63	12,035.24	-2,976.56	929.34	3,051.54	1.75	-0.48	-1.68
15,234.00	91.33	178.47	12,033.65	-3,071.54	930.08	3,146.16	2.40	0.78	-2.27
15,329.00	91.26	181.05	12,031.50	-3,166.50	930.48	3,240.73	2.72	-0.07	2.72
15,424.00	91.03	180.59	12,029.61	-3,261.47	929.12	3,335.14	0.54	-0.24	-0.48
15,519.00	90.92	180.44	12,027.99	-3,356.46	928.27	3,429.61	0.20	-0.12	-0.16
15,613.00	91.80	181.39	12,025.76	-3,450.42	926.77	3,523.00	1.38	0.94	1.01
15,708.00	89.75	181.39	12,024.47	-3,545.37	924.46	3,617.30	2.16	-2.16	0.00
15,803.00	89.50	181.41	12,025.09	-3,640.34	922.14	3,711.62	0.26	-0.26	0.02
15,898.00	89.79	181.70	12,025.68	-3,735.31	919.57	3,805.91	0.43	0.31	0.31
15,993.00	90.78	179.97	12,025.21	-3,830.29	918.18	3,900.33	2.10	1.04	-1.82
16,087.00	92.07	179.96	12,022.87	-3,924.26	918.24	3,993.87	1.37	1.37	-0.01
16,182.00	89.98	178.64	12,021.17	-4,019.23	919.40	4,088.52	2.60	-2.20	-1.39
16,277.00	88.89	178.52	12,022.11	-4,114.19	921.75	4,183.28	1.15	-1.15	-0.13
16,372.00	90.37	178.54	12,022.72	-4,209.16	924.19	4,278.05	1.56	1.56	0.02
16,467.00	90.40	179.65	12,022.09	-4,304.14	925.69	4,372.74	1.17	0.03	1.17
16,562.00	89.57	180.20	12,022.11	-4,399.14	925.82	4,467.32	1.05	-0.87	0.58
16,656.00	89.12	180.55	12,023.18	-4,493.13	925.20	4,560.83	0.61	-0.48	0.37
16,751.00	89.76	180.20	12,024.11	-4,588.13	924.58	4,655.33	0.77	0.67	-0.37



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
16,846.00	89.86	179.68	12,024.43	-4,683.13	924.68	4,749.90	0.56	0.11	-0.55
16,941.00	91.25	178.54	12,023.51	-4,778.11	926.15	4,844.59	1.89	1.46	-1.20
17,036.00	91.72	178.01	12,021.05	-4,873.03	929.01	4,939.36	0.75	0.49	-0.56
17,130.00	89.05	178.69	12,020.41	-4,966.98	931.72	5,033.14	2.93	-2.84	0.72
17,225.00	89.60	179.56	12,021.53	-5,061.96	933.17	5,127.83	1.08	0.58	0.92
17,305.93	89.22	179.83	12,022.37	-5,142.89	933.60	5,208.42	0.58	-0.47	0.34
SL: 17305.93' MD									
17,320.00	89.15	179.88	12,022.57	-5,156.95	933.63	5,222.43	0.58	-0.47	0.34
17,415.00	91.08	178.30	12,022.38	-5,251.93	935.14	5,317.12	2.63	2.03	-1.66
17,509.00	90.73	178.10	12,020.89	-5,345.88	938.09	5,410.92	0.43	-0.37	-0.21
17,604.00	91.68	178.84	12,018.90	-5,440.82	940.63	5,505.67	1.27	1.00	0.78
17,699.00	92.02	178.89	12,015.83	-5,535.75	942.51	5,600.35	0.36	0.36	0.05
17,794.00	90.22	178.77	12,013.97	-5,630.71	944.45	5,695.06	1.90	-1.89	-0.13
17,888.00	88.97	178.44	12,014.64	-5,724.68	946.74	5,788.82	1.38	-1.33	-0.35
17,983.00	89.48	178.96	12,015.92	-5,819.64	948.89	5,883.56	0.77	0.54	0.55
18,078.00	88.08	177.39	12,017.95	-5,914.57	951.92	5,978.34	2.21	-1.47	-1.65
18,173.00	88.80	177.54	12,020.53	-6,009.44	956.12	6,073.18	0.77	0.76	0.16
18,268.00	88.51	178.85	12,022.76	-6,104.36	959.11	6,167.96	1.41	-0.31	1.38
18,362.00	90.23	179.81	12,023.79	-6,198.35	960.21	6,261.62	2.10	1.83	1.02
18,457.00	91.19	178.19	12,022.62	-6,293.32	961.87	6,356.32	1.98	1.01	-1.71
18,552.00	90.22	178.30	12,021.45	-6,388.27	964.77	6,451.11	1.03	-1.02	0.12
18,647.00	87.63	178.03	12,023.23	-6,483.19	967.82	6,545.90	2.74	-2.73	-0.28
18,742.00	91.10	179.17	12,024.28	-6,578.14	970.14	6,640.64	3.84	3.65	1.20
18,836.00	90.58	178.65	12,022.91	-6,672.12	971.92	6,734.35	0.78	-0.55	-0.55
18,931.00	87.17	178.75	12,024.77	-6,767.06	974.08	6,829.07	3.59	-3.59	0.11
18,944.71	87.58	179.02	12,025.40	-6,780.75	974.35	6,842.73	3.58	2.99	1.97
18,958.43	87.96	179.28	12,025.93	-6,794.46	974.55	6,856.39	3.36	2.77	1.90
18,972.14	88.39	179.56	12,026.37	-6,808.16	974.69	6,870.04	3.74	3.14	2.04
18,985.86	88.82	179.84	12,026.70	-6,821.88	974.76	6,883.70	3.74	3.13	2.04
18,999.57	89.25	180.09	12,026.93	-6,835.59	974.77	6,897.35	3.63	3.14	1.82
19,013.29	89.64	180.30	12,027.07	-6,849.31	974.72	6,911.00	3.23	2.84	1.53
19,027.00	89.96	180.43	12,027.11	-6,863.02	974.63	6,924.64	2.52	2.33	0.95
19,040.57	90.15	180.41	12,027.10	-6,876.59	974.53	6,938.14	1.41	1.40	-0.15
19,054.14	90.26	180.32	12,027.05	-6,890.15	974.45	6,951.64	1.05	0.81	-0.66
19,067.71	90.33	180.18	12,026.98	-6,903.72	974.39	6,965.14	1.15	0.52	-1.03
19,081.29	90.38	180.02	12,026.90	-6,917.30	974.36	6,978.66	1.23	0.37	-1.18
19,094.86	90.42	179.87	12,026.80	-6,930.87	974.38	6,992.17	1.14	0.29	-1.11
19,108.43	90.45	179.92	12,026.70	-6,944.44	974.40	7,005.68	0.43	0.22	0.37
19,122.00	90.45	180.12	12,026.59	-6,958.01	974.40	7,019.19	1.47	0.00	1.47
19,135.43	90.37	180.16	12,026.50	-6,971.44	974.37	7,032.55	0.67	-0.60	0.30
19,148.86	90.57	180.21	12,026.39	-6,984.87	974.32	7,045.92	1.54	1.49	0.37
19,162.29	90.81	180.26	12,026.23	-6,998.30	974.27	7,059.28	1.83	1.79	0.37
19,175.71	91.06	180.30	12,026.01	-7,011.72	974.20	7,072.63	1.89	1.86	0.30



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
19,189.14	91.30	180.37	12,025.73	-7,025.15	974.12	7,085.99	1.86	1.79	0.52
19,202.57	91.48	180.74	12,025.41	-7,038.57	973.99	7,099.34	3.06	1.34	2.76
19,216.00	91.62	180.99	12,025.04	-7,052.00	973.79	7,112.68	2.13	1.04	1.86
19,229.57	91.77	181.15	12,024.64	-7,065.56	973.54	7,126.16	1.62	1.11	1.18
19,243.14	92.17	181.27	12,024.17	-7,079.12	973.25	7,139.63	3.08	2.95	0.88
19,256.71	92.31	181.24	12,023.64	-7,092.67	972.95	7,153.10	1.06	1.03	-0.22
19,270.29	92.35	181.10	12,023.09	-7,106.24	972.68	7,166.57	1.07	0.29	-1.03
19,283.86	92.38	180.94	12,022.53	-7,119.79	972.43	7,180.04	1.20	0.22	-1.18
19,297.43	92.37	180.83	12,021.97	-7,133.35	972.23	7,193.52	0.81	-0.07	-0.81
19,311.00	92.16	181.01	12,021.43	-7,146.91	972.01	7,207.00	2.04	-1.55	1.33
19,324.57	92.03	181.04	12,020.94	-7,160.47	971.77	7,220.47	0.98	-0.96	0.22
19,338.14	91.96	180.89	12,020.46	-7,174.03	971.54	7,233.95	1.22	-0.52	-1.11
19,351.71	91.94	180.74	12,020.00	-7,187.59	971.34	7,247.43	1.11	-0.15	-1.11
19,365.29	91.93	180.58	12,019.54	-7,201.16	971.19	7,260.92	1.18	-0.07	-1.18
19,378.86	91.93	180.43	12,019.09	-7,214.72	971.07	7,274.41	1.10	0.00	-1.11
19,392.43	91.98	180.35	12,018.62	-7,228.28	970.98	7,287.90	0.69	0.37	-0.59
19,406.00	92.05	180.29	12,018.15	-7,241.84	970.90	7,301.39	0.68	0.52	-0.44
19,419.57	92.11	180.32	12,017.65	-7,255.41	970.83	7,314.89	0.49	0.44	0.22
19,433.14	92.18	180.39	12,017.15	-7,268.97	970.74	7,328.38	0.73	0.52	0.52
19,446.71	92.23	180.47	12,016.62	-7,282.53	970.64	7,341.86	0.69	0.37	0.59
19,460.29	92.28	180.56	12,016.09	-7,296.09	970.52	7,355.36	0.76	0.37	0.66
19,473.86	92.33	180.66	12,015.54	-7,309.65	970.38	7,368.84	0.82	0.37	0.74
19,487.43	92.37	180.75	12,014.99	-7,323.21	970.21	7,382.32	0.73	0.29	0.66
19,501.00	92.27	180.84	12,014.44	-7,336.77	970.02	7,395.80	0.99	-0.74	0.66
19,514.57	92.31	180.92	12,013.90	-7,350.32	969.81	7,409.28	0.66	0.29	0.59
19,528.14	92.49	180.98	12,013.33	-7,363.88	969.59	7,422.75	1.40	1.33	0.44
19,541.71	92.48	181.05	12,012.74	-7,377.44	969.35	7,436.22	0.52	-0.07	0.52
19,555.29	92.47	181.08	12,012.15	-7,391.00	969.10	7,449.70	0.23	-0.07	0.22
19,568.86	92.47	181.12	12,011.57	-7,404.56	968.83	7,463.17	0.29	0.00	0.29
19,582.43	92.39	181.09	12,010.99	-7,418.11	968.57	7,476.64	0.63	-0.59	-0.22
19,596.00	92.23	180.99	12,010.45	-7,431.67	968.33	7,490.11	1.39	-1.18	-0.74
19,609.43	92.27	181.00	12,009.92	-7,445.09	968.09	7,503.44	0.31	0.30	0.07
19,622.86	92.29	180.98	12,009.38	-7,458.50	967.86	7,516.78	0.21	0.15	-0.15
19,636.29	92.29	180.94	12,008.85	-7,471.92	967.64	7,530.11	0.30	0.00	-0.30
19,649.71	92.29	180.90	12,008.31	-7,485.33	967.42	7,543.44	0.30	0.00	-0.30
19,663.14	92.30	180.87	12,007.77	-7,498.75	967.22	7,556.78	0.24	0.07	-0.22
19,676.57	92.13	180.77	12,007.26	-7,512.16	967.02	7,570.12	1.47	-1.27	-0.74
19,690.00	91.96	180.68	12,006.78	-7,525.58	966.85	7,583.46	1.43	-1.27	-0.67
19,703.57	92.04	180.72	12,006.30	-7,539.15	966.69	7,596.94	0.66	0.59	0.29
19,717.14	92.13	180.76	12,005.81	-7,552.71	966.51	7,610.42	0.73	0.66	0.29
19,730.71	92.15	180.71	12,005.30	-7,566.26	966.34	7,623.90	0.40	0.15	-0.37
19,744.29	92.21	180.66	12,004.79	-7,579.83	966.18	7,637.40	0.57	0.44	-0.37
19,757.86	92.25	180.63	12,004.26	-7,593.39	966.02	7,650.88	0.37	0.29	-0.22
19,771.43	92.19	180.62	12,003.73	-7,606.95	965.88	7,664.36	0.45	-0.44	-0.07



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
19,785.00	92.26	180.44	12,003.20	-7,620.51	965.75	7,677.85	1.42	0.52	-1.33
19,798.57	92.31	180.34	12,002.66	-7,634.07	965.66	7,691.34	0.82	0.37	-0.74
19,812.14	92.28	180.25	12,002.12	-7,647.63	965.59	7,704.83	0.70	-0.22	-0.66
19,825.71	92.25	180.28	12,001.58	-7,661.19	965.53	7,718.32	0.31	-0.22	0.22
19,839.29	92.20	180.33	12,001.06	-7,674.76	965.45	7,731.82	0.52	-0.37	0.37
19,852.86	92.14	180.37	12,000.54	-7,688.32	965.37	7,745.31	0.53	-0.44	0.29
19,866.43	92.16	180.39	12,000.03	-7,701.88	965.28	7,758.80	0.21	0.15	0.15
19,880.00	92.19	180.40	11,999.52	-7,715.44	965.19	7,772.29	0.23	0.22	0.07
19,893.57	92.09	180.45	11,999.01	-7,729.00	965.09	7,785.78	0.82	-0.74	0.37
19,907.14	91.97	180.41	11,998.53	-7,742.56	964.98	7,799.27	0.93	-0.88	-0.29
19,920.71	91.87	180.25	11,998.08	-7,756.12	964.91	7,812.76	1.39	-0.74	-1.18
19,934.29	91.76	180.09	11,997.65	-7,769.69	964.87	7,826.27	1.43	-0.81	-1.18
19,947.86	91.67	179.97	11,997.24	-7,783.26	964.86	7,839.77	1.11	-0.66	-0.88
19,961.43	91.58	179.90	11,996.86	-7,796.82	964.87	7,853.28	0.84	-0.66	-0.52
19,975.00	91.50	179.83	11,996.49	-7,810.39	964.91	7,866.78	0.78	-0.59	-0.52
19,988.57	91.33	179.80	11,996.16	-7,823.95	964.95	7,880.29	1.27	-1.25	-0.22
20,002.14	91.06	179.79	11,995.87	-7,837.52	965.00	7,893.80	1.99	-1.99	-0.07
20,015.71	90.80	179.82	11,995.65	-7,851.09	965.04	7,907.31	1.93	-1.92	0.22
20,029.29	90.56	179.84	11,995.49	-7,864.67	965.09	7,920.83	1.77	-1.77	0.15
20,042.86	90.32	179.87	11,995.39	-7,878.24	965.12	7,934.34	1.78	-1.77	0.22
20,056.43	90.22	179.90	11,995.32	-7,891.81	965.15	7,947.85	0.77	-0.74	0.22
20,070.00	90.30	179.96	11,995.26	-7,905.38	965.16	7,961.36	0.74	0.59	0.44
20,083.57	90.31	180.06	11,995.19	-7,918.95	965.16	7,974.87	0.74	0.07	0.74
20,097.14	90.31	180.16	11,995.12	-7,932.52	965.13	7,988.38	0.74	0.00	0.74
20,110.71	90.28	180.24	11,995.05	-7,946.09	965.09	8,001.88	0.63	-0.22	0.59
20,124.29	90.24	180.33	11,994.98	-7,959.67	965.02	8,015.39	0.73	-0.29	0.66
20,137.86	90.20	180.40	11,994.93	-7,973.24	964.93	8,028.89	0.59	-0.29	0.52
20,151.43	90.15	180.41	11,994.89	-7,986.80	964.84	8,042.39	0.38	-0.37	0.07
20,165.00	90.05	180.20	11,994.87	-8,000.37	964.77	8,055.89	1.71	-0.74	-1.55
20,178.57	90.00	180.12	11,994.86	-8,013.94	964.73	8,069.40	0.70	-0.37	-0.59
20,192.14	89.96	180.08	11,994.87	-8,027.51	964.70	8,082.90	0.42	-0.29	-0.29
20,205.71	89.92	179.99	11,994.88	-8,041.08	964.70	8,096.41	0.73	-0.29	-0.66
20,219.29	89.87	179.90	11,994.91	-8,054.66	964.71	8,109.93	0.76	-0.37	-0.66
20,232.86	89.81	179.82	11,994.94	-8,068.23	964.74	8,123.44	0.74	-0.44	-0.59
20,246.43	89.74	179.74	11,995.00	-8,081.80	964.79	8,136.95	0.78	-0.52	-0.59
20,260.00	89.61	179.66	11,995.07	-8,095.37	964.86	8,150.47	1.12	-0.96	-0.59
20,273.43	89.47	179.59	11,995.18	-8,108.80	964.95	8,163.85	1.17	-1.04	-0.52
20,286.86	89.49	179.59	11,995.30	-8,122.23	965.05	8,177.22	0.15	0.15	0.00
20,300.29	89.58	179.61	11,995.41	-8,135.66	965.14	8,190.60	0.69	0.67	0.15
20,313.71	89.75	179.64	11,995.49	-8,149.08	965.23	8,203.97	1.29	1.27	0.22
20,327.14	89.94	179.68	11,995.53	-8,162.51	965.31	8,217.34	1.45	1.41	0.30
20,340.57	90.09	179.72	11,995.52	-8,175.94	965.38	8,230.72	1.16	1.12	0.30
20,354.00	90.09	179.78	11,995.50	-8,189.37	965.44	8,244.09	0.45	0.00	0.45



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
20,367.57	90.04	179.85	11,995.49	-8,202.94	965.48	8,257.61	0.63	-0.37	0.52
20,381.14	89.98	179.95	11,995.48	-8,216.51	965.51	8,271.12	0.86	-0.44	0.74
20,394.71	90.04	180.02	11,995.48	-8,230.08	965.51	8,284.62	0.68	0.44	0.52
20,408.29	90.13	180.06	11,995.46	-8,243.66	965.50	8,298.14	0.73	0.66	0.29
20,421.86	90.22	180.08	11,995.42	-8,257.23	965.48	8,311.65	0.68	0.66	0.15
20,435.43	90.30	180.10	11,995.36	-8,270.80	965.46	8,325.15	0.61	0.59	0.15
20,449.00	90.52	180.06	11,995.26	-8,284.37	965.44	8,338.66	1.65	1.62	-0.29
20,462.57	90.63	179.98	11,995.13	-8,297.94	965.44	8,352.17	1.00	0.81	-0.59
20,476.14	90.66	179.88	11,994.97	-8,311.51	965.46	8,365.68	0.77	0.22	-0.74
20,489.71	90.55	179.74	11,994.83	-8,325.08	965.50	8,379.19	1.31	-0.81	-1.03
20,503.29	90.53	179.53	11,994.70	-8,338.66	965.59	8,392.71	1.55	-0.15	-1.55
20,516.86	90.51	179.32	11,994.58	-8,352.23	965.72	8,406.23	1.55	-0.15	-1.55
20,530.43	90.42	179.19	11,994.47	-8,365.79	965.90	8,419.76	1.17	-0.66	-0.96
20,544.00	90.25	179.13	11,994.39	-8,379.36	966.10	8,433.28	1.33	-1.25	-0.44
20,558.62	90.24	178.99	11,994.33	-8,393.98	966.34	8,447.86	0.96	-0.07	-0.96
20,573.23	90.30	178.83	11,994.26	-8,408.59	966.62	8,462.42	1.17	0.41	-1.10
20,587.85	90.24	178.76	11,994.19	-8,423.20	966.92	8,477.00	0.63	-0.41	-0.48
20,602.46	90.18	178.70	11,994.14	-8,437.81	967.25	8,491.58	0.58	-0.41	-0.41
20,617.08	90.13	178.64	11,994.10	-8,452.43	967.59	8,506.16	0.53	-0.34	-0.41
20,631.69	90.17	178.53	11,994.06	-8,467.03	967.95	8,520.73	0.80	0.27	-0.75
20,646.31	90.18	178.42	11,994.01	-8,481.65	968.34	8,535.32	0.76	0.07	-0.75
20,660.92	90.15	178.37	11,993.97	-8,496.25	968.75	8,549.89	0.40	-0.21	-0.34
20,675.54	90.10	178.37	11,993.94	-8,510.86	969.16	8,564.48	0.34	-0.34	0.00
20,690.15	90.02	178.44	11,993.92	-8,525.47	969.57	8,579.06	0.73	-0.55	0.48
20,704.77	89.95	178.52	11,993.93	-8,540.08	969.96	8,593.64	0.73	-0.48	0.55
20,719.38	89.90	178.60	11,993.95	-8,554.69	970.32	8,608.22	0.65	-0.34	0.55
20,734.00	89.99	178.58	11,993.96	-8,569.30	970.68	8,622.80	0.63	0.62	-0.14
20,747.57	90.05	178.57	11,993.96	-8,582.87	971.02	8,636.34	0.45	0.44	-0.07
20,761.14	90.02	178.61	11,993.95	-8,596.44	971.35	8,649.87	0.37	-0.22	0.29
20,774.71	89.99	178.55	11,993.95	-8,610.00	971.69	8,663.41	0.49	-0.22	-0.44
20,788.29	89.95	178.45	11,993.95	-8,623.58	972.05	8,676.96	0.79	-0.29	-0.74
20,801.86	89.92	178.36	11,993.97	-8,637.14	972.42	8,690.49	0.70	-0.22	-0.66
20,815.43	89.92	178.38	11,993.99	-8,650.71	972.81	8,704.03	0.15	0.00	0.15
20,829.00	89.95	178.50	11,994.00	-8,664.27	973.18	8,717.57	0.91	0.22	0.88
20,842.57	90.02	178.65	11,994.01	-8,677.84	973.52	8,731.11	1.22	0.52	1.11
20,856.14	90.13	178.84	11,993.99	-8,691.40	973.81	8,744.64	1.62	0.81	1.40
20,869.71	90.19	178.94	11,993.95	-8,704.97	974.08	8,758.17	0.86	0.44	0.74
20,883.29	90.24	179.00	11,993.90	-8,718.55	974.32	8,771.71	0.58	0.37	0.44
20,896.86	90.28	179.06	11,993.84	-8,732.12	974.55	8,785.24	0.53	0.29	0.44
20,910.43	90.30	179.11	11,993.77	-8,745.69	974.77	8,798.77	0.40	0.15	0.37
20,924.00	90.28	179.16	11,993.70	-8,759.25	974.97	8,812.29	0.40	-0.15	0.37
20,937.57	90.25	179.17	11,993.64	-8,772.82	975.17	8,825.82	0.23	-0.22	0.07
20,951.14	90.22	179.17	11,993.58	-8,786.39	975.37	8,839.34	0.22	-0.22	0.00



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
20,964.71	90.15	179.20	11,993.54	-8,799.96	975.56	8,852.87	0.56	-0.52	0.22
20,978.29	90.08	179.24	11,993.51	-8,813.54	975.74	8,866.40	0.59	-0.52	0.29
20,991.86	90.00	179.27	11,993.50	-8,827.11	975.92	8,879.93	0.63	-0.59	0.22
21,005.43	90.02	179.27	11,993.50	-8,840.68	976.09	8,893.45	0.15	0.15	0.00
21,019.00	90.04	179.27	11,993.49	-8,854.24	976.27	8,906.98	0.15	0.15	0.00
21,032.57	89.99	179.27	11,993.49	-8,867.81	976.44	8,920.50	0.37	-0.37	0.00
21,046.14	90.02	179.26	11,993.49	-8,881.38	976.61	8,934.02	0.23	0.22	-0.07
21,059.71	90.06	179.22	11,993.48	-8,894.95	976.79	8,947.55	0.42	0.29	-0.29
21,073.29	90.09	179.19	11,993.46	-8,908.53	976.98	8,961.08	0.31	0.22	-0.22
21,086.86	90.13	179.16	11,993.43	-8,922.10	977.18	8,974.61	0.37	0.29	-0.22
21,100.43	90.12	179.18	11,993.41	-8,935.67	977.37	8,988.13	0.16	-0.07	0.15
21,114.00	90.11	179.20	11,993.38	-8,949.24	977.57	9,001.66	0.16	-0.07	0.15
21,127.43	90.09	179.19	11,993.35	-8,962.66	977.75	9,015.04	0.17	-0.15	-0.07
21,140.86	90.06	179.24	11,993.34	-8,976.09	977.94	9,028.43	0.43	-0.22	0.37
21,154.29	90.08	179.26	11,993.32	-8,989.52	978.11	9,041.81	0.21	0.15	0.15
21,167.71	90.13	179.23	11,993.30	-9,002.94	978.29	9,055.19	0.43	0.37	-0.22
21,181.14	90.16	179.21	11,993.26	-9,016.37	978.47	9,068.57	0.27	0.22	-0.15
21,194.57	90.12	179.20	11,993.23	-9,029.80	978.66	9,081.96	0.31	-0.30	-0.07
21,208.00	90.05	179.21	11,993.21	-9,043.23	978.85	9,095.34	0.53	-0.52	0.07
21,221.57	89.92	179.20	11,993.21	-9,056.79	979.04	9,108.87	0.96	-0.96	-0.07
21,235.14	89.73	179.18	11,993.25	-9,070.36	979.23	9,122.39	1.41	-1.40	-0.15
21,248.71	89.56	179.11	11,993.34	-9,083.93	979.43	9,135.92	1.35	-1.25	-0.52
21,262.29	89.39	179.05	11,993.46	-9,097.51	979.65	9,149.46	1.33	-1.25	-0.44
21,275.86	89.22	179.02	11,993.63	-9,111.08	979.88	9,162.98	1.27	-1.25	-0.22
21,289.43	89.15	179.00	11,993.82	-9,124.64	980.11	9,176.51	0.54	-0.52	-0.15
21,303.00	89.20	179.01	11,994.02	-9,138.21	980.35	9,190.04	0.38	0.37	0.07
21,316.57	89.17	179.07	11,994.21	-9,151.78	980.57	9,203.57	0.49	-0.22	0.44
21,330.14	89.21	179.06	11,994.40	-9,165.34	980.80	9,217.09	0.30	0.29	-0.07
21,343.71	89.27	178.98	11,994.58	-9,178.91	981.03	9,230.62	0.74	0.44	-0.59
21,357.29	89.34	178.90	11,994.75	-9,192.49	981.28	9,244.16	0.78	0.52	-0.59
21,370.86	89.42	178.81	11,994.89	-9,206.05	981.55	9,257.69	0.89	0.59	-0.66
21,384.43	89.53	178.84	11,995.02	-9,219.62	981.83	9,271.22	0.84	0.81	0.22
21,398.00	89.62	178.89	11,995.12	-9,233.19	982.10	9,284.75	0.76	0.66	0.37
21,411.57	89.60	178.92	11,995.21	-9,246.75	982.36	9,298.28	0.27	-0.15	0.22
21,425.14	89.57	178.95	11,995.31	-9,260.32	982.61	9,311.81	0.31	-0.22	0.22
21,438.71	89.54	178.93	11,995.41	-9,273.89	982.86	9,325.34	0.27	-0.22	-0.15
21,452.29	89.53	178.86	11,995.52	-9,287.47	983.12	9,338.88	0.52	-0.07	-0.52
21,465.86	89.53	178.80	11,995.63	-9,301.03	983.40	9,352.41	0.44	0.00	-0.44
21,479.43	89.55	178.78	11,995.74	-9,314.60	983.68	9,365.94	0.21	0.15	-0.15
21,493.00	89.61	178.75	11,995.84	-9,328.17	983.98	9,379.48	0.49	0.44	-0.22
21,506.57	89.64	178.73	11,995.93	-9,341.73	984.28	9,393.01	0.27	0.22	-0.15
21,520.14	89.67	178.74	11,996.01	-9,355.30	984.58	9,406.54	0.23	0.22	0.07
21,533.71	89.71	178.85	11,996.09	-9,368.86	984.86	9,420.08	0.86	0.29	0.81
21,547.29	89.75	178.95	11,996.15	-9,382.44	985.12	9,433.62	0.79	0.29	0.74



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
21,560.86	89.79	179.06	11,996.21	-9,396.01	985.36	9,447.14	0.86	0.29	0.81
21,574.43	89.81	179.10	11,996.25	-9,409.58	985.57	9,460.67	0.33	0.15	0.29
21,588.00	89.79	179.14	11,996.30	-9,423.15	985.78	9,474.20	0.33	-0.15	0.29
21,601.57	89.79	179.10	11,996.35	-9,436.71	985.99	9,487.72	0.29	0.00	-0.29
21,615.14	89.76	179.04	11,996.40	-9,450.28	986.21	9,501.25	0.49	-0.22	-0.44
21,628.71	89.73	178.97	11,996.46	-9,463.85	986.45	9,514.78	0.56	-0.22	-0.52
21,642.29	89.69	178.89	11,996.53	-9,477.43	986.70	9,528.32	0.66	-0.29	-0.59
21,655.86	89.65	178.82	11,996.61	-9,491.00	986.97	9,541.85	0.59	-0.29	-0.52
21,669.43	89.61	178.75	11,996.70	-9,504.56	987.26	9,555.38	0.59	-0.29	-0.52
21,683.00	89.61	178.77	11,996.79	-9,518.13	987.55	9,568.92	0.15	0.00	0.15
21,697.54	89.61	178.79	11,996.89	-9,532.66	987.86	9,583.42	0.14	0.00	0.14
21,712.08	89.61	178.84	11,996.99	-9,547.20	988.16	9,597.92	0.34	0.00	0.34
21,726.62	89.61	178.80	11,997.09	-9,561.74	988.46	9,612.41	0.28	0.00	-0.28
21,741.15	89.61	178.77	11,997.19	-9,576.26	988.77	9,626.90	0.21	0.00	-0.21
21,755.69	89.61	178.75	11,997.29	-9,590.80	989.09	9,641.40	0.14	0.00	-0.14
21,770.23	89.60	178.70	11,997.39	-9,605.34	989.41	9,655.91	0.35	-0.07	-0.34
21,784.77	89.53	178.68	11,997.50	-9,619.87	989.74	9,670.41	0.50	-0.48	-0.14
21,799.31	89.47	178.67	11,997.62	-9,634.41	990.08	9,684.91	0.42	-0.41	-0.07
21,813.85	89.49	178.62	11,997.75	-9,648.94	990.42	9,699.41	0.37	0.14	-0.34
21,828.38	89.52	178.59	11,997.88	-9,663.47	990.78	9,713.90	0.29	0.21	-0.21
21,842.92	89.54	178.56	11,998.00	-9,678.00	991.14	9,728.41	0.25	0.14	-0.21
21,857.46	89.56	178.59	11,998.11	-9,692.54	991.50	9,742.91	0.25	0.14	0.21
21,872.00	89.60	178.67	11,998.22	-9,707.07	991.85	9,757.41	0.62	0.28	0.55
21,885.57	89.62	178.75	11,998.31	-9,720.64	992.15	9,770.95	0.61	0.15	0.59
21,899.14	89.60	178.79	11,998.41	-9,734.21	992.44	9,784.48	0.33	-0.15	0.29
21,912.71	89.59	178.84	11,998.50	-9,747.77	992.72	9,798.01	0.38	-0.07	0.37
21,926.29	89.58	178.89	11,998.60	-9,761.35	992.99	9,811.55	0.38	-0.07	0.37
21,939.86	89.58	178.94	11,998.70	-9,774.92	993.25	9,825.08	0.37	0.00	0.37
21,953.43	89.60	179.03	11,998.80	-9,788.49	993.49	9,838.61	0.68	0.15	0.66
21,967.00	89.63	179.11	11,998.89	-9,802.05	993.71	9,852.14	0.63	0.22	0.59
21,980.57	89.56	179.12	11,998.98	-9,815.62	993.92	9,865.66	0.52	-0.52	0.07
21,994.14	89.62	179.09	11,999.08	-9,829.19	994.13	9,879.19	0.49	0.44	-0.22
22,007.71	89.69	179.04	11,999.16	-9,842.76	994.35	9,892.72	0.63	0.52	-0.37
22,021.29	89.77	178.99	11,999.23	-9,856.34	994.59	9,906.26	0.69	0.59	-0.37
22,034.86	89.85	178.94	11,999.27	-9,869.90	994.83	9,919.79	0.70	0.59	-0.37
22,048.43	89.85	178.88	11,999.31	-9,883.47	995.09	9,933.32	0.44	0.00	-0.44
22,062.00	89.69	178.79	11,999.36	-9,897.04	995.37	9,946.85	1.35	-1.18	-0.66
22,075.57	89.72	178.82	11,999.43	-9,910.60	995.65	9,960.38	0.31	0.22	0.22
22,089.14	89.78	178.91	11,999.49	-9,924.17	995.92	9,973.91	0.80	0.44	0.66
22,102.71	89.78	179.02	11,999.54	-9,937.74	996.16	9,987.44	0.81	0.00	0.81
22,116.29	89.77	179.15	11,999.60	-9,951.32	996.38	10,000.98	0.96	-0.07	0.96
22,129.86	89.78	179.28	11,999.65	-9,964.89	996.57	10,014.50	0.96	0.07	0.96
22,143.43	89.78	179.40	11,999.70	-9,978.45	996.72	10,028.02	0.88	0.00	0.88



Phoenix Survey Report



Company:	OXY USA INC.	Local Co-ordinate Reference:	Well Lost Tank 30-19 Federal Com 33H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	RKB @ 3637.20usft (Citadel 3)
Site:	Lost Tank 30-19	MD Reference:	RKB @ 3637.20usft (Citadel 3)
Well:	Lost Tank 30-19 Federal Com 33H	North Reference:	Grid
Wellbore:	OH / 74695	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)
22,157.00	89.78	179.49	11,999.75	-9,992.02	996.85	10,041.54	0.66	0.00	0.66
22,170.57	89.78	179.55	11,999.81	-10,005.59	996.97	10,055.06	0.44	0.00	0.44
22,184.14	89.77	179.58	11,999.86	-10,019.16	997.07	10,068.58	0.23	-0.07	0.22
22,197.71	89.81	179.57	11,999.91	-10,032.73	997.17	10,082.10	0.30	0.29	-0.07
22,211.29	89.85	179.55	11,999.95	-10,046.31	997.27	10,095.63	0.33	0.29	-0.15
22,224.86	89.89	179.53	11,999.98	-10,059.88	997.38	10,109.14	0.33	0.29	-0.15
22,238.43	89.92	179.60	12,000.00	-10,073.45	997.49	10,122.66	0.56	0.22	0.52
22,252.00	89.95	179.71	12,000.02	-10,087.02	997.57	10,136.18	0.84	0.22	0.81
22,265.43	90.00	179.71	12,000.02	-10,100.45	997.64	10,149.55	0.37	0.37	0.00
22,278.86	90.06	179.66	12,000.02	-10,113.88	997.71	10,162.93	0.58	0.45	-0.37
22,292.29	90.10	179.58	12,000.00	-10,127.31	997.80	10,176.31	0.67	0.30	-0.60
22,305.71	90.13	179.50	11,999.97	-10,140.73	997.91	10,189.67	0.64	0.22	-0.60
22,319.14	90.15	179.41	11,999.94	-10,154.16	998.03	10,203.05	0.69	0.15	-0.67
22,332.57	90.12	179.33	11,999.91	-10,167.59	998.18	10,216.44	0.64	-0.22	-0.60
22,346.00	90.01	179.23	11,999.89	-10,181.02	998.35	10,229.82	1.11	-0.82	-0.74
22,359.00	89.99	179.09	11,999.89	-10,194.02	998.54	10,242.78	1.09	-0.15	-1.08
22,372.00	89.94	178.92	11,999.90	-10,207.01	998.77	10,255.74	1.36	-0.38	-1.31
22,385.00	89.93	178.88	11,999.91	-10,220.01	999.02	10,268.70	0.32	-0.08	-0.31
22,398.00	89.95	178.97	11,999.93	-10,233.01	999.26	10,281.66	0.71	0.15	0.69
22,411.00	89.98	179.06	11,999.93	-10,246.01	999.48	10,294.62	0.73	0.23	0.69
22,424.00	89.97	179.11	11,999.94	-10,259.01	999.69	10,307.58	0.39	-0.08	0.38
22,437.00	89.83	179.04	11,999.96	-10,272.00	999.90	10,320.54	1.20	-1.08	-0.54
Final Phoenix MWD Survey									
22,484.30	89.83	179.04	12,000.10	-10,319.30	1,000.69	10,367.70	0.00	0.00	0.00
LTP: 22484.30' MD									
22,562.00	89.83	179.04	12,000.33	-10,396.99	1,002.00	10,445.15	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	0.06	-0.67	First Phoenix MWD Survey
11,956.37	11,791.44	138.49	947.11	SL: 11956.37' MD, 43.57° Inc
12,091.00	11,881.24	38.51	949.02	FTP: 12091.00' MD, 53.16° Inc
17,305.93	12,022.37	-5,142.89	933.60	SL: 17305.93' MD
22,437.00	11,999.96	-10,272.00	999.90	Final Phoenix MWD Survey
22,484.30	12,000.10	-10,319.30	1,000.69	LTP: 22484.30' MD
22,562.00	12,000.33	-10,396.99	1,002.00	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 33H	Property Code: 322423
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 25-48464
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	1370	W	LEA
BHL	N	30	22S	32E		22	S	2307	W	LEA

Section 3 – Completion Information

Date T.D. Reached 06/18/24	Total Measured Depth of Well 22562'MD	Acid Volume (bbls)	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 06/22/24	Plug-Back Measured Depth 22510'MD	Completion Fluid Used (bbls) 358701 BBL	Were Logs Ran (Y/N) Y
Completion Date 07/20/24	Perforations (MD and TVD) 12257'-22407'MD/11955'-12000'TVD	Completion Proppant Used (lbs) 25443904#	List Type of Logs Ran if applicable: CBL

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 374360	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 374360	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID: NA	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 374360	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 395448	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 1813
Date of Test 09/03/24	Choke Size	Flowing Tubing Pressure	Casing Pressure 1038
24 hr Oil (bbls) 4316	24 hr Gas (MCF) 7826	24 hr Water (bbls) 4483	Oil Gravity - API
Disposition of Gas: sold			

Section 6 – Pits

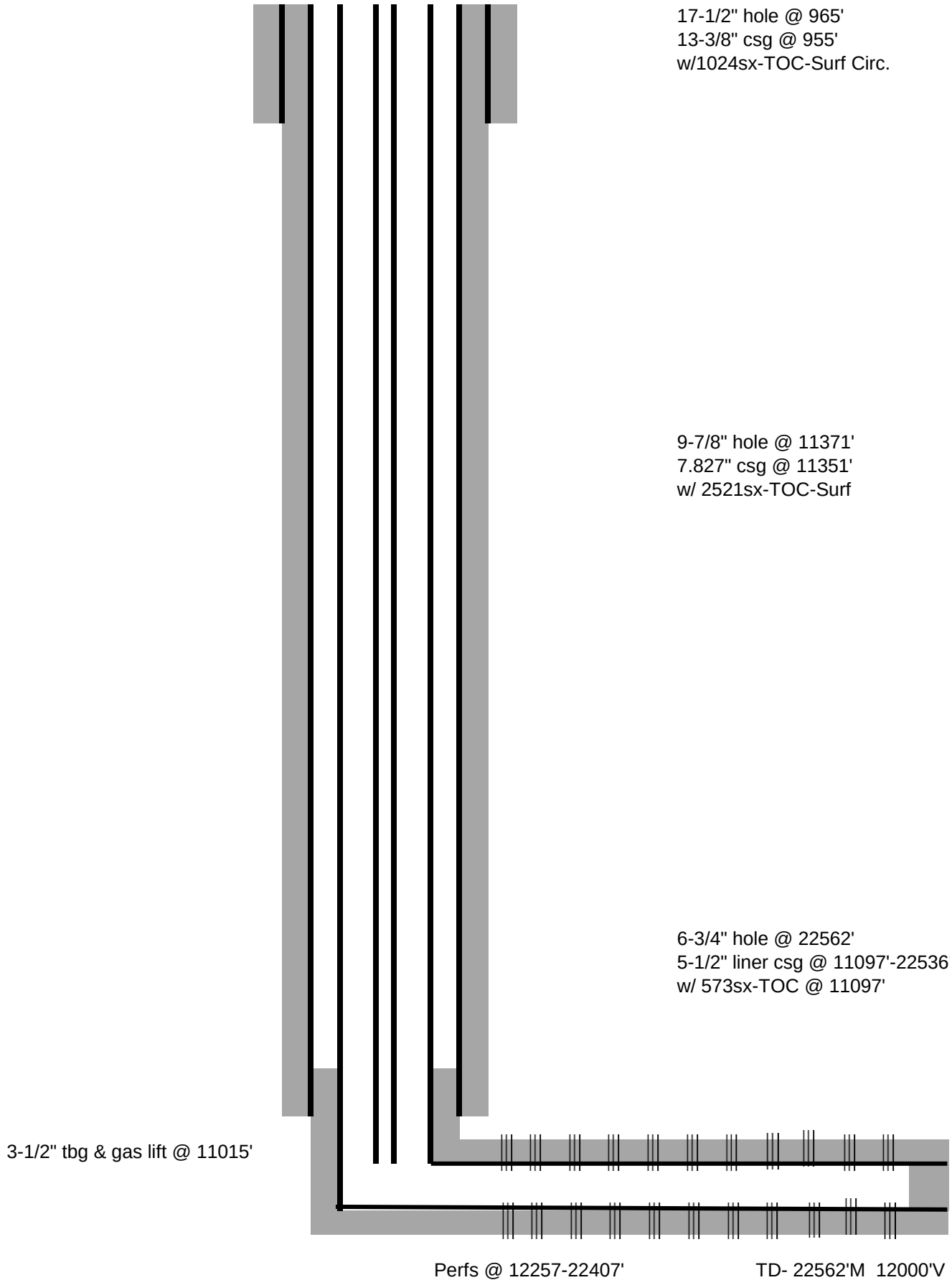
☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial: LAT: _____ LONG: _____

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	11875	11728	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	4630	4628	o/g				
T. Bell Canyon	4665	4663	o/g				
T. Cherry Canyon	5532	5528	o/g				
T. Brushy Canyon	6794	6752	o/g				
T. Bone Springs	8614	8510	o/g				
T. 1st BS Sand	9630	9520	o/g				
T. 2nd BS Carbonate							
T. 2nd BS Sand	10337	10227	o/g				
T. 3rd BS Carbonate							
T. 3rd BS Sand	11362	11251	o/g				

OXY USA Inc.
Lost Tank 30-19 Federal Com 33H
API No. 30-025-48464



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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 395559

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 395559
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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

CONDITIONS

Action 395559

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 395559
	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.	12/6/2024