

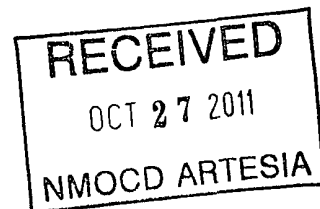
3D-D15-37957

OCCIDENTAL PERMIAN LTD.

Lost Tank Delaware, West
Eddy County, NM
Lost Tank 4 Federal #16
DH - Job #32D1110921

Survey: Actual

SDI Standard Survey Report



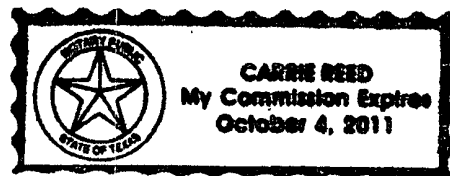
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notorized this date 17th of December, 2010.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Lost Tank 4 Federal #16
Project:	Lost Tank Delaware, West	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 4 Federal #16	North Reference:	Grid
Wellbore:	VH - Job #32K1110913	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110913	Database:	EDM-Regulatory

Project	Lost Tank Delaware, West		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Eddy County, NM		
Site Position:		Northing:	515,232.05 usft
From:	Lat/Long	Easting:	676,005.63 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 24' 54.705 N
		Longitude:	103° 45' 46.737 W
		Grid Convergence:	0.31 °

Well	Lost Tank 4 Federal #16, Directional		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 9.547 N
		Longitude:	103° 46' 39.726 W
		Ground Level:	0.0 usft

Wellbore	VH - Job #32K1110913				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	11/24/2010	(°)	(°)	(nT)
			7.75	60.37	48,827

Design	VH - Job #32K1110913			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	167.26

Survey Program	Date	12/17/2010		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
90.2	628.7	Actual (VH - Job #32K1110913)	Keeper	Keeper Surface Readout

Survey							
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
90.2	0.19	241.57	90.2	-0.1	-0.1	241.57	0.1
188.1	0.18	252.32	188.1	-0.2	-0.4	245.12	0.5
237.8	0.39	304.57	237.8	-0.1	-0.6	259.04	0.6
359.5	1.37	69.71	359.5	0.6	0.4	32.25	0.7
449.2	0.27	257.26	449.2	0.9	1.2	51.61	1.5
540.2	0.30	282.47	540.2	0.9	0.7	38.30	1.2
628.7	0.48	281.87	628.7	1.1	0.2	8.38	1.1

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Lost Tank 4 Federal #16
Project:	Lost Tank Delaware, West	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 4 Federal #16	North Reference:	Grid
Wellbore:	DH - Job #32D1110921	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1110921	Database:	EDM-Regulatory

Project	Lost Tank Delaware, West		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Eddy County, NM				
Site Position:		Northing:	515,232.05 usft	Latitude:	32° 24' 54.705 N
From:	Lat/Long	Easting:	676,005.63 usft	Longitude:	103° 45' 46.737 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.31 °

Well	Lost Tank 4 Federal #16, Directional					
Well Position	+N/-S	0.0 usft	Northing:	516,707.95 usft	Latitude:	32° 25' 9.547 N
	+E/-W	0.0 usft	Easting:	671,455.55 usft	Longitude:	103° 46' 39.726 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	DH - Job #32D1110921				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/25/2010	7.75	60.37	48,827

Design	DH - Job #32D1110921				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	628.7
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	167.26	

Survey Program	Date	12/17/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
90.2	628.7	Actual (VH - Job #32K1110913)	Keeper	Keeper Surface Readout	
747.0	8,430.0	Actual (DH - Job #32D1110921)	MWD	MWD	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
628.7	0.48	281.87	628.7	1.1	0.2	8.38	1.1
747.0	0.32	257.26	747.0	1.1	-0.6	329.49	1.3
852.0	0.27	314.31	852.0	1.2	-1.1	317.40	1.6
988.0	0.44	285.00	988.0	1.6	-1.8	310.36	2.4
1,123.0	0.48	251.38	1,123.0	1.5	-2.9	297.84	3.3
1,258.0	0.44	280.50	1,258.0	1.4	-3.9	290.08	4.2
1,393.0	0.61	256.37	1,393.0	1.4	-5.1	284.84	5.3
1,528.0	0.51	266.10	1,528.0	1.2	-6.4	280.14	6.5
1,663.0	0.46	252.39	1,662.9	0.9	-7.5	277.14	7.6
1,799.0	0.31	175.54	1,798.9	0.4	-8.0	272.95	8.1
1,934.0	0.37	173.02	1,933.9	-0.4	-8.0	267.25	8.0

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SDI Standard Survey Report

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Project:	Lost Tank Delaware, West	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 4 Federal #16	North Reference:	Grnd
Wellbore:	DH - Job #32D1110921	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1110921	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True-Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
2,069.0	0.65	109.93	2,068.9	-1.1	-7.2	261.48	7.3	
2,204.0	0.62	105.18	2,203.9	-1.5	-5.8	255.14	6.0	
2,339.0	0.77	84.91	2,338.9	-1.6	-4.2	248.46	4.5	
2,474.0	0.71	67.95	2,473.9	-1.2	-2.5	243.30	2.8	
2,609.0	0.82	52.98	2,608.9	-0.3	-0.9	249.40	1.0	
2,744.0	0.87	33.71	2,743.9	1.1	0.4	20.76	1.2	
2,880.0	0.88	10.17	2,879.9	3.0	1.2	21.47	3.2	
3,015.0	0.63	342.41	3,014.9	4.7	1.1	13.49	4.8	
3,150.0	0.32	30.81	3,149.9	5.7	1.1	10.83	5.8	
3,285.0	0.74	103.01	3,284.8	5.9	2.1	20.06	6.2	
3,420.0	1.13	133.29	3,419.8	4.7	4.0	39.80	6.2	
3,555.0	1.43	130.81	3,554.8	2.7	6.2	66.19	6.8	
3,690.0	1.72	120.77	3,689.7	0.6	9.2	86.29	9.2	
3,826.0	1.10	146.35	3,825.7	-1.5	11.7	97.47	11.8	
3,844.0	1.14	148.07	3,843.7	-1.8	11.9	98.75	12.0	
3,945.0	1.00	143.34	3,944.7	-3.4	12.9	104.67	13.4	
4,082.0	0.71	159.80	4,081.7	-5.1	13.9	110.24	14.9	
4,172.0	0.34	182.17	4,171.7	-5.9	14.1	112.78	15.3	
4,217.0	0.57	157.45	4,216.7	-6.3	14.2	113.82	15.5	
4,262.0	1.47	138.77	4,261.7	-6.9	14.7	115.22	16.2	
4,308.0	2.73	134.26	4,307.6	-8.1	15.9	117.13	17.8	
4,353.0	3.34	137.20	4,352.6	-9.8	17.5	119.32	20.1	
4,398.0	4.13	139.70	4,397.5	-12.0	19.4	121.74	22.9	
4,443.0	4.67	140.99	4,442.3	-14.7	21.7	124.16	26.2	
4,488.0	5.48	143.24	4,487.2	-17.8	24.1	126.52	30.0	
4,533.0	6.71	151.35	4,531.9	-21.9	26.6	129.38	34.5	
4,578.0	7.28	154.86	4,576.6	-26.8	29.1	132.59	39.5	
4,623.0	8.17	155.01	4,621.2	-32.2	31.7	135.50	45.2	
4,668.0	9.13	156.35	4,665.6	-38.4	34.5	138.10	51.6	
4,713.0	10.01	159.87	4,710.0	-45.3	37.2	140.61	58.7	
4,758.0	10.92	157.98	4,754.3	-53.0	40.2	142.82	66.5	
4,803.0	12.41	161.49	4,798.3	-61.5	43.3	144.85	75.2	
4,848.0	13.66	164.46	4,842.2	-71.2	46.3	146.99	84.9	
4,893.0	13.75	165.84	4,885.9	-81.5	49.0	148.99	95.1	
4,939.0	14.38	168.81	4,930.5	-92.4	51.4	150.90	105.8	
4,984.0	14.79	168.29	4,974.1	-103.5	53.7	152.59	116.6	
5,028.0	15.23	171.81	5,016.6	-114.7	55.7	154.12	127.5	
5,073.0	16.77	172.68	5,059.8	-127.0	57.3	155.71	139.4	
5,118.0	17.94	171.66	5,102.8	-140.3	59.2	157.14	152.3	
5,163.0	19.09	172.57	5,145.4	-154.5	61.1	158.42	166.1	
5,208.0	20.68	172.60	5,187.8	-169.7	63.1	159.60	181.0	
5,253.0	21.93	172.39	5,229.7	-185.9	65.2	160.66	197.0	
5,298.0	22.02	172.31	5,271.4	-202.6	67.5	161.58	213.5	
5,343.0	23.10	171.63	5,313.0	-219.7	69.9	162.35	230.5	

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Project:	Lost Tank Delaware, West	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 4 Federal #16	North Reference:	Grid
Wellbore:	DH - Job #32D1110921	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1110921	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,388.0	23.89	170.95	5,354.2	-237.4	72.6	162.99	248.2
5,434.0	25.10	171.22	5,396.1	-256.2	75.6	163.57	267.1
5,479.0	26.34	170.78	5,436.6	-275.5	78.6	164.07	286.5
5,524.0	27.37	169.81	5,476.8	-295.6	82.0	164.49	306.7
5,569.0	28.20	169.09	5,516.6	-316.2	85.9	164.80	327.6
5,614.0	29.41	167.66	5,556.0	-337.4	90.3	165.02	349.3
5,659.0	30.09	166.26	5,595.1	-359.2	95.3	165.14	371.6
5,704.0	30.72	166.18	5,633.9	-381.3	100.7	165.20	394.4
5,749.0	31.64	166.81	5,672.4	-403.9	106.2	165.27	417.7
5,794.0	32.07	167.99	5,710.6	-427.1	111.3	165.39	441.4
5,839.0	31.53	168.35	5,748.9	-450.3	116.2	165.53	465.1
5,884.0	31.18	168.68	5,787.3	-473.3	120.9	165.67	488.5
5,929.0	30.42	168.57	5,826.0	-495.9	125.4	165.81	511.5
5,974.0	30.28	170.47	5,864.8	-518.2	129.5	165.96	534.2
6,019.0	30.30	169.82	5,903.6	-540.6	133.4	166.13	556.8
6,064.0	30.84	169.08	5,942.4	-563.1	137.6	166.27	579.6
6,109.0	31.61	168.20	5,980.9	-585.9	142.2	166.36	603.0
6,154.0	32.62	168.20	6,019.0	-609.4	147.1	166.43	626.9
6,245.0	33.00	165.71	6,095.5	-657.4	158.2	166.47	676.2
6,335.0	33.62	166.06	6,170.7	-705.3	170.3	166.43	725.6
6,425.0	33.01	166.40	6,245.9	-753.3	182.1	166.41	775.0
6,515.0	32.84	166.91	6,321.4	-800.9	193.4	166.43	823.9
6,605.0	32.08	167.19	6,397.4	-848.0	204.2	166.46	872.2
6,695.0	31.06	167.93	6,474.1	-894.0	214.3	166.52	919.3
6,786.0	29.92	169.42	6,552.5	-939.3	223.4	166.62	965.5
6,831.0	29.59	168.51	6,591.5	-961.2	227.7	166.67	987.8
6,876.0	29.85	168.88	6,630.6	-983.1	232.1	166.72	1,010.1
6,921.0	30.59	169.10	6,669.5	-1,005.3	236.4	166.77	1,032.7
6,966.0	30.68	169.53	6,708.2	-1,027.8	240.6	166.82	1,055.6
7,012.0	30.81	169.27	6,747.8	-1,051.0	245.0	166.88	1,079.1
7,057.0	31.31	170.15	6,786.3	-1,073.8	249.1	166.94	1,102.3
7,102.0	31.85	170.59	6,824.6	-1,097.0	253.0	167.01	1,125.8
7,147.0	32.08	170.68	6,862.8	-1,120.5	256.9	167.09	1,149.6
7,237.0	33.43	169.38	6,938.5	-1,168.5	265.4	167.21	1,198.2
7,327.0	32.13	170.19	7,014.2	-1,216.4	274.0	167.31	1,246.9
7,417.0	31.71	170.82	7,090.6	-1,263.4	281.9	167.42	1,294.4
7,507.0	31.52	170.71	7,167.2	-1,309.9	289.4	167.54	1,341.5
7,599.0	31.83	171.20	7,245.5	-1,357.6	297.0	167.66	1,389.8
7,689.0	31.61	171.47	7,322.1	-1,404.4	304.2	167.78	1,437.0
7,780.0	31.37	170.92	7,399.7	-1,451.4	311.4	167.89	1,484.4
7,870.0	31.92	170.18	7,476.3	-1,498.0	319.2	167.97	1,531.6
7,959.0	31.13	170.05	7,552.1	-1,543.8	327.2	168.03	1,578.1
8,033.0	31.31	169.09	7,615.4	-1,581.5	334.1	168.07	1,616.5
8,123.0	31.00	170.09	7,692.4	-1,627.3	342.5	168.11	1,663.0
8,213.0	29.40	168.72	7,770.2	-1,671.8	350.8	168.15	1,708.3

Scientific Drilling International, Inc.

SDI Standard Survey Report

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Project:	Lost Tank Delaware, West	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 4 Federal #16	North Reference:	Grid
Wellbore:	DH - Job #32D1110921	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1110921	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
8,303.0	28.50	168.84	7,849.0	-1,714.6	359.3	168.16	1,751.8
8,393.0	27.93	167.88	7,928.3	-1,756.2	367.9	168.17	1,794.4
8,430.0	28.18	167.91	7,960.9	-1,773.3	371.6	168.17	1,811.8



Project: Lost Tank Delaware, West
 Site: Eddy County, NM
 Well: Lost Tank 4 Federal #16
 Wellbore: DH - Job #32D1110921
 Design: DH - Job #32D1110921



Azimuths to Grid North
 True North: -0 30°
 Magnetic North: 7 45°

Magnetic Field
 Strength: 48826.9nT
 Dip Angle: 60.37°
 Date: 11/25/2010
 Model: IGRF20051C

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Site
0.0	0.0	516707.95	671455.55	32° 25' 9.547 N	103° 46' 39.726 W	

WELL DETAILS: Lost Tank 4 Federal #16
 WELL @ 0.0usft (Original Well Elev)

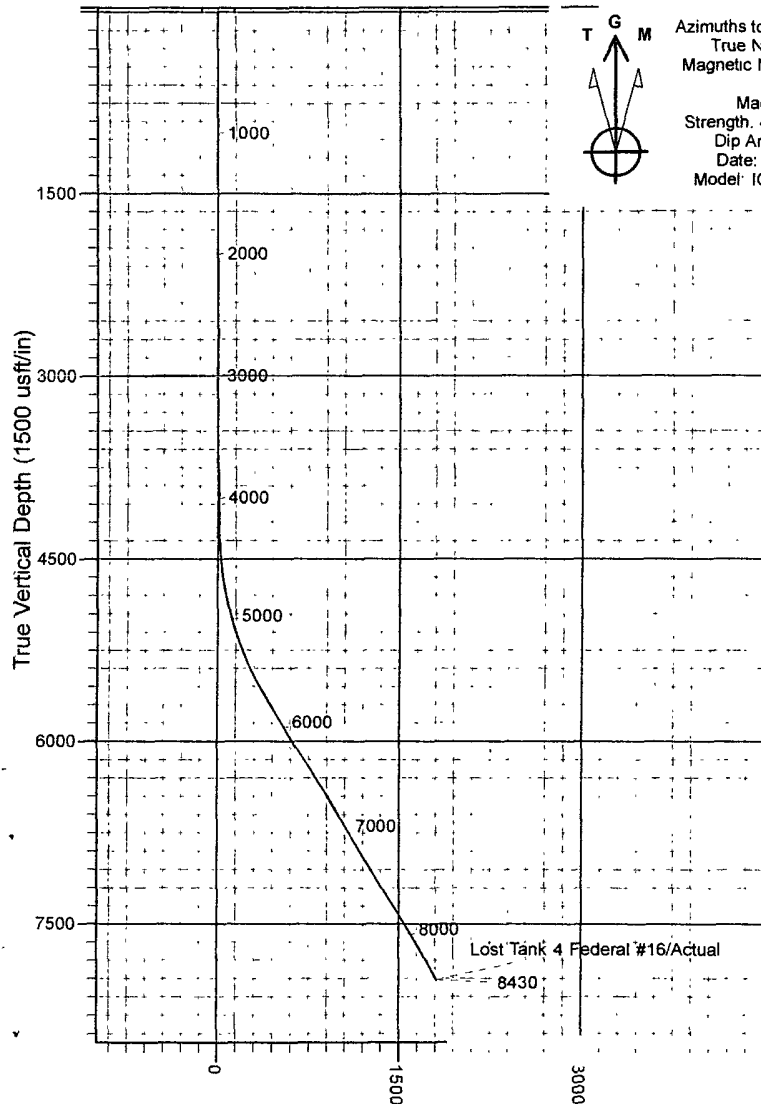
Ground Level: 0.0

Easting 671455.55

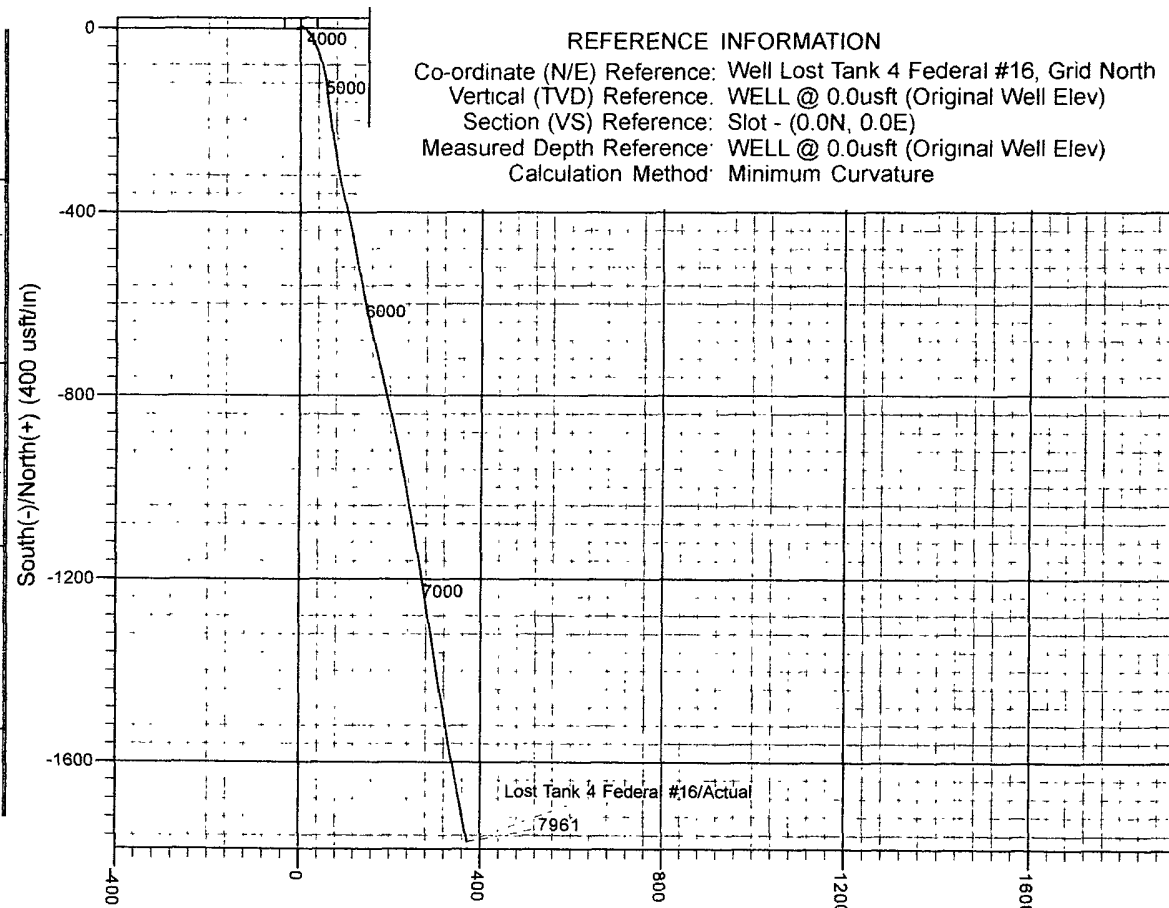
Latitude 32° 25' 9.547 N

Longitude 103° 46' 39.726 W

Site



Ve



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Lost Tank 4 Federal #16, Grid North
 Vertical (TVD) Reference: WELL @ 0.0usft (Original Well Elev)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: WELL @ 0.0usft (Original Well Elev)
 Calculation Method: Minimum Curvature

COMPANY DETAILS: OCCIDENTAL PERMIAN LTD.

Calculation Method: Minimum Curvature
 Error System: Systematic Ellipse
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

PROJECT DETAILS: Lost Tank Delaware, West

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM

Site Centre Latitude: 32° 24' 54.705 N
 Longitude: 103° 45' 46.737 W
 Positional Uncertainty: 0.0
 Convergence: 0.31
 Local North: Grid