

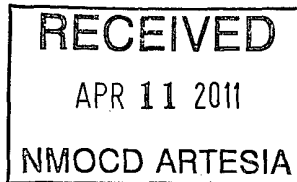
OCCIDENTAL PERMIAN LTD.

Lost Tank Delaware, West
Eddy County, NM
Lost Tank 3 Federal #15
DH - Job #32D1210985

30-015-37951

Survey: Actual

SDI Standard Survey Report



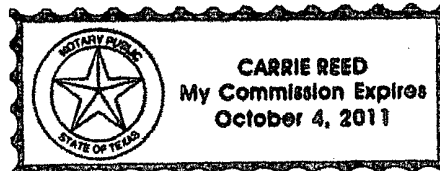
This survey is correct to the best of my knowledge and is supported by actual field data.

Hebert

Notarized this date 17th of January, 2011.

Carrie Reed

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 3 Federal #15
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 3 Federal #15	North Reference:	Grid
Wellbore:	VH - Job #32K1210982	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1210982	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 3 Federal #15, Directional		
Well Position	+N/-S	0.0 usft	Northing: 517,203.26 usft
	+E/-W	0.0 usft	Easting: 672,897.56 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 14.374 N
		Longitude:	103° 46' 22.873 W
		Ground Level:	0.0 usft

Wellbore	VH - Job #32K1210982		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	12/12/2010	(°) 7.81
			Dip Angle (°) 60.35
			Field Strength (nT) 48,826

Design	VH - Job #32K1210982		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	Direction
		(°)	(°)
		157.88	

Survey Program	Date	1/10/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
108.5	669.0	Actual (VH - Job #32K1210982)	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	0.00			
108.5	0.06	182.58	108.5	-0.1	0.0	182.58	0.1			
285.9	0.16	21.26	285.9	0.1	0.1	45.62	0.1			
376.4	0.20	33.83	376.4	0.3	0.2	33.29	0.4			
466.9	0.11	57.19	466.9	0.5	0.4	36.61	0.6			
557.5	0.08	67.50	557.5	0.6	0.5	41.29	0.8			
648.0	0.08	332.78	648.0	0.7	0.5	39.22	0.9			
669.0	0.10	331.10	669.0	0.7	0.5	37.20	0.9			

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 3 Federal #15	North Reference:	Grid
Wellbore:	DH - Job #32D1210985	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1210985	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 3 Federal #15, Directional		
Well Position	+N/-S	0.0 usft	Northing: 517,203.26 usft
	+E/-W	0.0 usft	Easting: 672,897.56 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 14.374 N
		Longitude:	103° 46' 22.873 W
		Ground Level:	0.0 usft

Wellbore:	DH - Job #32D1210985				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2010	12/15/2010	7.81	60.35	48,825

Design	DH - Job #32D1210985				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	669.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	157.88	

Survey Program	Date: 1/10/2011				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
108.5	669.0	Actual (VH - Job #32K1210982)	Keeper	Keeper Surface Readout	
773.0	8,225.0	Actual (DH - Job #32D1210985)	MWD	MWD	

Survey									
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance		
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)		
669.0	0.10	331.10	669.0	0.7	0.5	37.20	0.9		
773.0	0.41	8.82	773.0	1.1	0.5	25.27	1.3		
899.0	0.44	325.43	899.0	2.0	0.3	9.49	2.0		
1,026.0	0.56	339.31	1,026.0	3.0	-0.2	356.81	3.0		
1,153.0	0.39	347.70	1,153.0	4.0	-0.5	353.15	4.0		
1,280.0	0.50	317.93	1,280.0	4.8	-0.9	348.92	4.9		
1,407.0	0.30	330.78	1,407.0	5.5	-1.5	345.01	5.7		
1,535.0	0.39	307.98	1,535.0	6.1	-2.0	341.91	6.4		
1,662.0	0.38	315.35	1,662.0	6.6	-2.6	338.45	7.1		
1,788.0	0.26	5.08	1,788.0	7.2	-2.9	338.19	7.8		
1,915.0	0.42	33.56	1,915.0	7.9	-2.6	341.73	8.3		

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Lost Tank 3 Federal #15	North Reference:	Grid
Wellbore:	DH - Job #32D1210985	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1210985	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
2,041.0	0.60	43.07	2,041.0	8.8	-1.9	347.77	9.0	
2,168.0	0.84	53.86	2,168.0	9.8	-0.7	355.96	9.8	
2,295.0	0.98	54.26	2,294.9	11.0	0.9	4.91	11.0	
2,422.0	1.17	46.74	2,421.9	12.5	2.8	12.50	12.8	
2,581.0	1.41	83.92	2,580.9	13.8	5.9	23.12	15.0	
2,707.0	1.71	116.33	2,706.8	13.1	9.1	34.77	16.0	
2,833.0	1.92	119.32	2,832.8	11.3	12.6	48.29	16.9	
2,961.0	1.70	137.11	2,960.7	8.8	15.8	60.81	18.1	
3,088.0	1.62	138.72	3,087.7	6.1	18.3	71.53	19.3	
3,214.0	1.93	127.88	3,213.6	3.5	21.1	80.69	21.4	
3,310.0	1.71	139.33	3,309.5	1.4	23.3	86.61	23.4	
3,405.0	1.62	169.52	3,404.5	-1.0	24.5	92.37	24.5	
3,500.0	1.86	209.44	3,499.5	-3.7	24.0	98.71	24.3	
3,596.0	2.37	270.71	3,595.4	-5.0	21.2	103.27	21.8	
3,692.0	2.19	296.12	3,691.3	-4.2	17.6	103.34	18.1	
3,755.0	1.65	343.65	3,754.3	-2.8	16.3	99.68	16.5	
3,830.0	1.82	12.46	3,829.3	-0.6	16.2	92.03	16.2	
3,969.0	1.58	12.42	3,968.2	3.5	17.1	78.60	17.5	
4,059.0	0.90	3.00	4,058.2	5.4	17.4	72.87	18.2	
4,149.0	0.91	296.19	4,148.2	6.4	16.8	69.19	18.0	
4,240.0	2.31	254.52	4,239.1	6.2	14.4	66.63	15.7	
4,330.0	3.73	235.40	4,329.0	4.1	10.2	68.31	11.0	
4,420.0	4.82	223.63	4,418.8	-0.3	5.2	93.58	5.2	
4,510.0	5.62	207.99	4,508.4	-7.0	0.5	175.55	7.0	
4,600.0	6.04	196.47	4,597.9	-15.4	-2.9	190.56	15.7	
4,690.0	6.11	186.11	4,687.4	-24.7	-4.7	190.83	25.1	
4,780.0	7.00	176.34	4,776.9	-34.9	-4.9	187.96	35.3	
4,870.0	8.62	167.96	4,866.0	-47.0	-3.1	183.80	47.1	
4,960.0	8.66	165.76	4,955.0	-60.2	-0.1	180.05	60.2	
5,050.0	11.06	156.66	5,043.7	-74.7	5.0	176.14	74.8	
5,140.0	12.83	154.36	5,131.7	-91.6	12.8	172.06	92.5	
5,230.0	14.80	153.32	5,219.1	-110.9	22.3	168.64	113.1	
5,320.0	16.85	154.62	5,305.7	-132.9	33.0	166.05	137.0	
5,410.0	18.39	155.68	5,391.5	-157.7	44.5	164.25	163.8	
5,500.0	21.11	157.03	5,476.2	-185.5	56.6	163.02	194.0	
5,590.0	21.57	157.56	5,560.0	-215.7	69.3	162.20	226.6	
5,680.0	21.38	157.50	5,643.7	-246.2	81.9	161.61	259.4	
5,770.0	21.09	157.87	5,727.6	-276.3	94.2	161.17	292.0	
5,860.0	20.44	158.37	5,811.8	-305.9	106.1	160.87	323.8	
5,951.0	20.28	156.86	5,897.1	-335.2	118.2	160.58	355.4	
6,041.0	22.21	155.98	5,981.0	-365.1	131.2	160.23	388.0	
6,131.0	21.93	156.33	6,064.4	-396.0	144.9	159.90	421.7	
6,221.0	22.37	156.23	6,147.7	-427.1	158.6	159.63	455.6	
6,311.0	22.56	156.94	6,230.9	-458.7	172.2	159.42	489.9	

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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 3 Federal #15	North Reference:	Grid
Wellbore:	DH - Job #32D1210985	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D1210985	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
6,402.0	21.90	157.65	6,315.2	-490.4	185.5	159.28	524.3
6,493.0	21.95	157.87	6,399.6	-521.9	198.4	159.19	558.3
6,583.0	20.56	158.19	6,483.4	-552.1	210.6	159.12	590.9
6,673.0	19.64	158.97	6,568.0	-580.9	221.9	159.09	621.8
6,763.0	18.90	159.08	6,652.9	-608.6	232.5	159.09	651.6
6,853.0	18.70	158.31	6,738.1	-635.7	243.1	159.07	680.6
6,943.0	18.88	157.42	6,823.3	-662.5	254.0	159.02	709.5
7,033.0	18.93	155.87	6,908.5	-689.3	265.5	158.93	738.7
7,123.0	20.06	154.38	6,993.3	-716.5	278.2	158.78	768.6
7,213.0	19.82	153.90	7,077.9	-744.1	291.6	158.60	799.2
7,303.0	19.28	155.14	7,162.7	-771.3	304.5	158.46	829.3
7,393.0	18.89	155.87	7,247.8	-798.1	316.7	158.35	858.7
7,483.0	18.41	156.24	7,333.0	-824.4	328.4	158.28	887.4
7,573.0	18.06	156.84	7,418.5	-850.2	339.6	158.23	915.6
7,663.0	18.73	156.58	7,503.9	-876.3	350.9	158.18	944.0
7,753.0	18.01	157.52	7,589.3	-902.4	361.9	158.15	972.3
7,843.0	18.40	156.08	7,674.8	-928.3	373.0	158.11	1,000.4
7,933.0	18.42	155.48	7,760.2	-954.2	384.7	158.04	1,028.8
8,023.0	16.79	155.38	7,846.0	-979.0	396.0	157.98	1,056.0
8,073.0	16.77	155.86	7,893.9	-992.1	401.9	157.95	1,070.4
8,225.0	13.40	155.98	8,040.6	-1,028.2	418.1	157.87	1,110.0



Scientific Drilling
Directional Drilling Operations

Project: Lost Tank Delaware, West
Eddy County, NM
Well: Lost Tank 3 Federal #15
Wellbore: DH - Job #32D1210985
Design: DH - Job #32D1210985

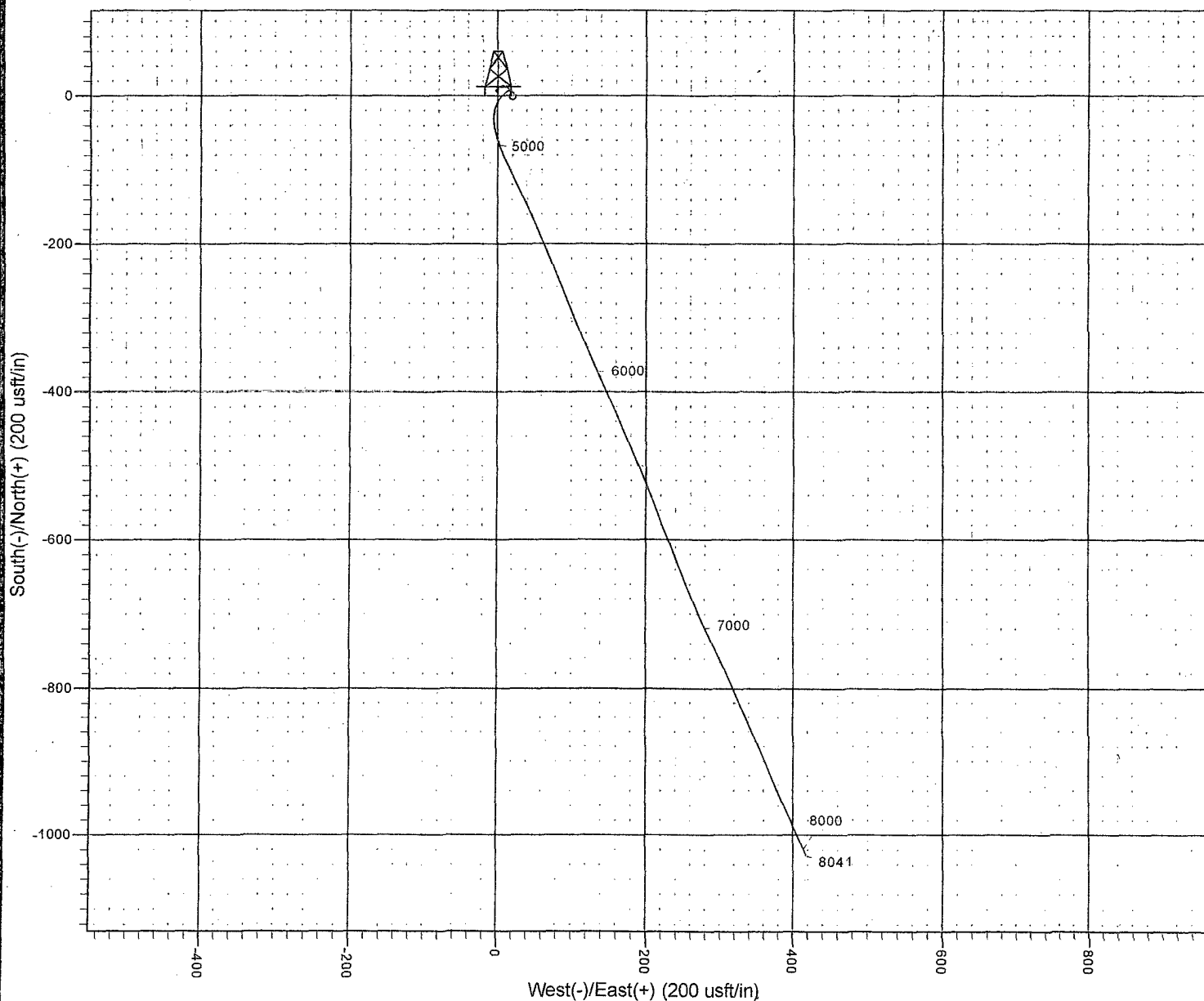


Azimuths to Grid North
True North: -0.30
Magnetic North: 7.51

Magnetic Field
Strength: 48825.0sn
Dip Angle: 60.35
Date: 12/15/2011
Model: BGGM2011

WELL DETAILS: Lost Tank 3 Federal #15
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	517203.26	672897.56	32° 25' 14.374 N	103° 46' 22.873 W	



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