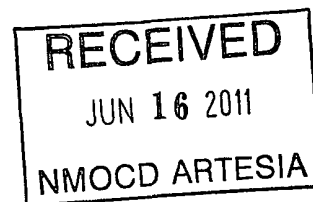


OCCIDENTAL PERMIAN LTD.

Lost Tank Delaware, West
Eddy County, NM
Lost Tank 4 Federal #13
DH - Job #32D0111002

30-015-37956



Survey: Actual

SDI Standard Survey Report

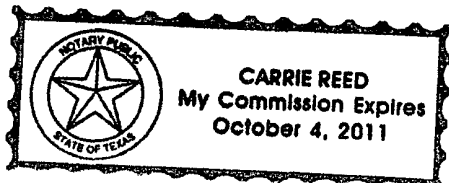
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 21st of February, 2011.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well: Lost Tank 4 Federal #13
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 #13	North Reference:	Grid
Wellbore:	VH - Job #32K12101022	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12101022	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 #13 Directional		
Well Position	+N/-S	0.0 usft	Northing: 516,619.67 usft
	+E/-W	0.0 usft	Easting: 669,637.61 usft
			Latitude: 32° 25' 8.766 N
			Longitude: 103° 47' 0.939 W
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
			Ground Level: 0 0 usft

Wellbore:	VH - Job #32K12101022				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	12/30/2010	7.81	60.35	48,818

Design:	VH - Job #32K12101022				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0 0	0.0	0.0	76.28	

Survey Program:	Date:	1/2/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
105.3	651.5	Actual (VH - Job #32K12101022)	Keeper	Keeper Surface Readout	

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0 0	0 00	0 00	0 0	0.0	0.0	0 00	0.0	
105.3	0.51	113.72	105.3	-0.2	0.4	113.72	0.5	
196.4	0.56	109.54	196.4	-0.5	1.2	112.31	1.3	
287.4	0.46	99.84	287.4	-0.7	2.0	109.60	2.1	
378.4	0.45	81.79	378.4	-0.7	2.7	104.93	2.8	
469.5	0.55	51.83	469.5	-0.4	3.4	96.72	3.4	
560.5	0.69	38.96	560.5	0.3	4.1	85.89	4.1	
651.5	0.74	39.23	651.5	1.2	4.8	76.28	5.0	

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Lost Tank 4 Federal #13
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 #13	North Reference:	Grid
Wellbore:	DH - Job #32D0111002	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D0111002	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 #13, Directional		
Well Position	+N/-S	0.0 usft	Northing: 516,619.67 usft
	+E/-W	0.0 usft	Easting: 669,637.61 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 8.766 N
		Longitude:	103° 47' 0.939 W
		Ground Level:	0.0 usft

Wellbore:	DH - Job #32D0111002		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	1/1/2011	(°) 7.81
			Dip Angle (°) 60.35
			Field Strength (nT) 48,818

Design:	DH - Job #32D0111002		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	651.5
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°) 123.25

Survey Program	Date	2/20/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
105.3	651.5	Actual (VH - Job #32K12101022)	Keeper	Keeper Surface Readout
738.0	3,836.0	Actual (DH - Job #32D0111002)	MWD	MWD

Survey							
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)
651.5	0.74	39.23	651.5	1.2	4.8	76.28	5.0
738.0	0.73	6.63	738.0	2.2	5.2	67.61	5.7
829.0	0.77	0.24	829.0	3.3	5.3	57.76	6.3
919.0	0.74	22.90	919.0	4.5	5.5	50.97	7.1
1,010.0	0.69	8.73	1,009.9	5.6	5.8	46.38	8.1
1,100.0	0.80	25.12	1,099.9	6.7	6.2	42.86	9.1
1,191.0	0.83	5.29	1,190.9	7.9	6.5	39.53	10.2
1,282.0	0.68	359.65	1,281.9	9.1	6.6	35.87	11.2
1,372.0	0.68	107.05	1,371.9	9.5	7.1	36.79	11.8
1,462.0	1.57	125.95	1,461.9	8.6	8.6	45.00	12.2
1,552.0	1.49	126.40	1,551.9	7.2	10.5	55.73	12.7

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Lost Tank 4 Federal #13
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 #13	North Reference:	Grid
Wellbore:	DH - Job #32D0111002	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D0111002	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,643.0	1.60	125.99	1,642.8	5.7	12.5	65.40	13.8	
1,733.0	1.62	122.70	1,732.8	4.3	14.6	73.58	15.2	
1,823.0	1.72	120.37	1,822.8	2.9	16.8	80.12	17.1	
1,913.0	1.74	117.41	1,912.7	1.6	19.2	85.18	19.3	
2,048.0	1.28	137.33	2,047.7	-0.4	22.1	91.12	22.1	
2,138.0	1.43	137.73	2,137.6	-2.0	23.5	94.87	23.6	
2,228.0	1.49	131.53	2,227.6	-3.6	25.1	98.17	25.4	
2,318.0	1.23	147.49	2,317.6	-5.2	26.5	101.09	27.0	
2,408.0	0.97	162.13	2,407.6	-6.7	27.3	103.88	28.1	
2,498.0	1.06	154.82	2,497.6	-8.2	27.9	106.43	29.0	
2,588.0	1.03	147.36	2,587.5	-9.7	28.7	108.62	30.2	
2,678.0	0.88	142.51	2,677.5	-10.9	29.5	110.24	31.5	
2,768.0	0.84	139.96	2,767.5	-11.9	30.4	111.46	32.6	
2,858.0	0.24	166.75	2,857.5	-12.6	30.8	112.27	33.3	
2,948.0	0.39	257.16	2,947.5	-12.9	30.6	112.84	33.2	
3,039.0	0.26	214.39	3,038.5	-13.1	30.1	113.51	32.9	
3,129.0	0.68	169.75	3,128.5	-13.8	30.1	114.62	33.1	
3,265.0	0.62	254.70	3,264.5	-14.8	29.6	116.59	33.1	
3,356.0	0.67	248.89	3,355.5	-15.1	28.6	117.87	32.3	
3,446.0	0.60	233.04	3,445.5	-15.6	27.7	119.35	31.8	
3,536.0	0.35	217.54	3,535.5	-16.1	27.2	120.63	31.6	
3,626.0	0.52	155.51	3,625.5	-16.7	27.2	121.54	31.9	
3,716.0	0.75	143.00	3,715.5	-17.5	27.7	122.32	32.8	
3,836.0	0.92	139.50	3,835.5	-18.9	28.8	123.25	34.4	



Scientific Drilling
Directional Drilling Operations

Project: Lost Tank Delaware, West
Site: Eddy County, NM
Well: Lost Tank 4 Federal #13
Wellbore: DH - Job #32D0111002
Design: DH - Job #32D0111002



Azimuths to Grid North
True North -0.29°
Magnetic North 7.51°

Magnetic Field
Strength 48817 TsnT
Dip Angle 60.35°
Date 1/1/2011
Model BGGM2010

+N/-S
0.0

+E/-W
0.0

Northing
516619.67

Easting
669637.61

Latitude
32° 25' 8.766 N

Longitude
103° 47' 0.939 W

Slot

WELL DETAILS: Lost Tank 4 Federal #13
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

Easting Latitude

Longitude

Slot

True Vertical Depth (650 usft/in)

Vertical Section at 0.00° (650 usft/in)

Lost Tank 4 Federal #13/Actual
3836

South(-)/North(+) (7 usft/in)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Lost Tank 4 Federal #13, 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

West(-)/East(+) (7 usft/in)

Lost Tank 4 Federal #13/Actual
3835

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