

30-015-37919

OCCIDENTAL PERMIAN LTD.

Lost Tank Delaware, West
Eddy County, NM
Lost Tank 3 Federal #20
VH - Job #32K1210977

Survey: Actual

SDI Standard Survey Report

16 December, 2010



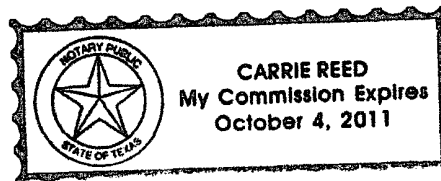
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 31st of December, 2010.

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 #20
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 #20	North Reference:	Grid
Wellbore:	VH - Job #32K1210977	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1210977	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 #20, Directional (Baker Hughes)		
Well Position	+N/-S	0.0 usft	Northing: 516,896.83 usft
	+E/-W	0.0 usft	Easting: 675,692.67 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 11.195 N
		Longitude:	103° 45' 50.284 W
		Ground Level:	0.0 usft

Wellbore:	VH - Job #32K1210977				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	12/11/2010	7.81	60.35	48,827

Design:	VH - Job #32K1210977			
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	84.48

Survey Program	Date: 12/16/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
108.7	663.5	Actual (VH - Job #32K1210977)	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	
108.7	1.02	86.67	108.7	0.1	1.0	86.67	1.0	
201.4	1.29	73.01	201.4	0.4	2.8	81.65	2.8	
285.5	1.21	84.00	285.5	0.8	4.6	80.35	4.6	
371.8	1.19	83.54	371.7	1.0	6.4	81.31	6.4	
462.1	1.21	101.50	462.0	0.9	8.2	83.83	8.3	
551.6	1.28	82.37	551.5	0.8	10.2	85.30	10.2	
641.5	1.18	80.47	641.4	1.1	12.1	84.69	12.1	
663.5	1.19	77.03	663.4	1.2	12.5	84.48	12.6	



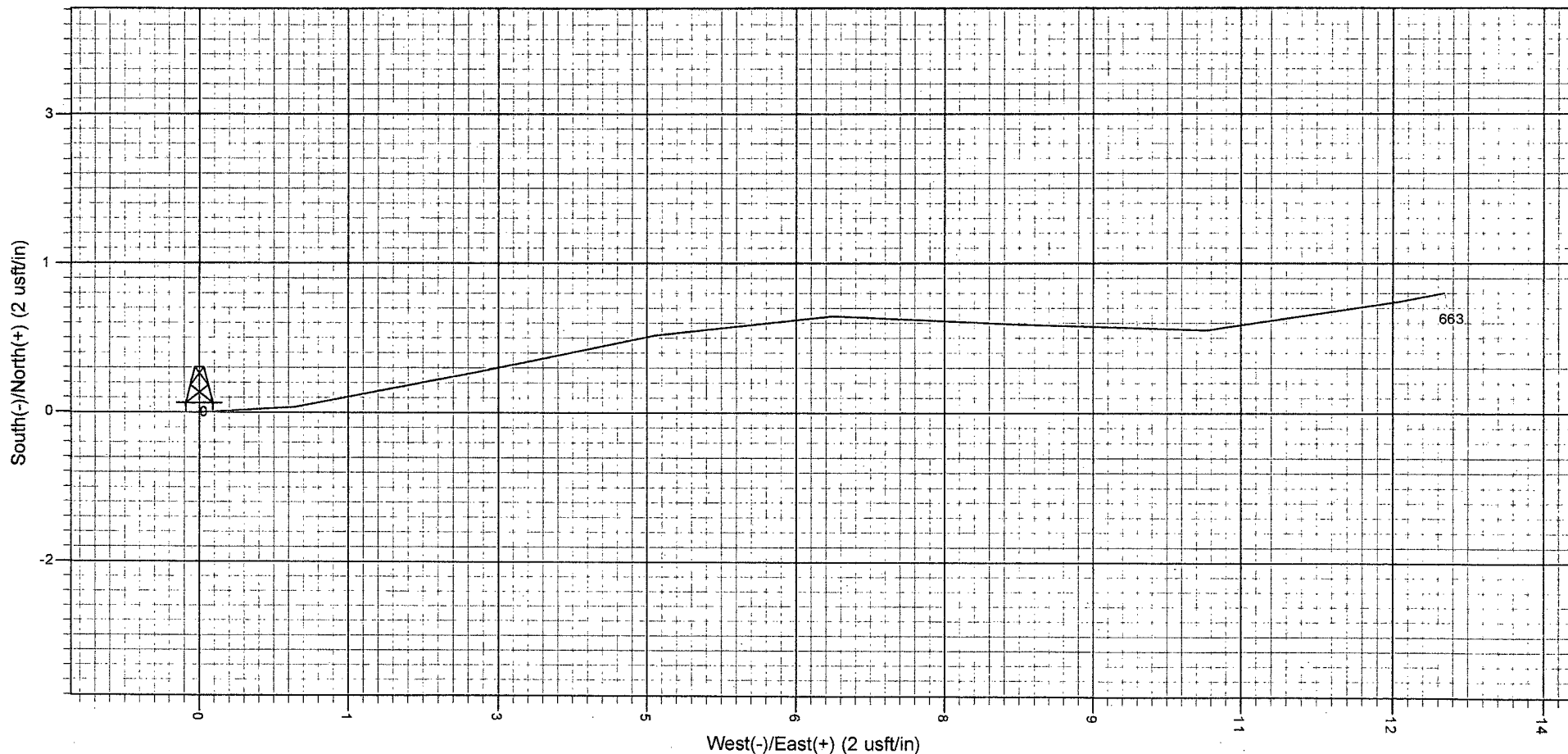
Project: Lost Tank Delaware, West
Eddy County, NM
Well: Lost Tank 3 Federal #20
Wellbore: VH - Job #32K1210977
Design: VH - Job #32K1210977



Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.50°
Magnetic Field
Strength: 48826.8nT
Dip Angle: 60.35°
Date: 12/11/2010
Model: BGGM2010

WELL DETAILS: Lost Tank 3 Federal #20
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	516896.83	675692.67	32° 25' 11.195 N	103° 45' 50.284 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