30-015-38254

OCCIDENTAL PERMIAN LTD.

Lost Tank Delaware, West
Eddy County, NM
Lost Tank 3 Federal #25
VH - Job #32K0211151

Survey: Actual

SDI Standard Survey Report

20 March, 2011

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

Notarized this date 21st of March, 2011.

Carrie Reed
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.

SDI Standard Survey Report

Scientific Drilling
Directional Drilling Operations

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Lost Tank 3 Federal #25
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 #25	**North Reference:**	Grid
Wellbore:	VH - Job #32K0211151	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0211151	**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 3 Federal #25, Directional (Baker Inteq)

Well Position	**+N/-S**	0 0 usft	**Northing:**	518,281 21 usft	**Latitude:**	32° 25' 24 804 N
	+E/-W	0 0 usft	**Easting:**	677,394 87 usft	**Longitude:**	103° 45' 30 340 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	0 0 usft

Wellbore VH - Job #32K0211151

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/18/2011	7 73	60 35	48,774

Design VH - Job #32K0211151

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	344.91

Survey Program Date: 3/20/2011

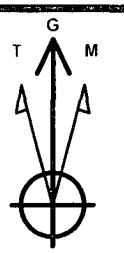
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
76 0	641.0	Actual (VH - Job #32K0211151)	Keeper	Keeper Surface Readout

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
76 0	0 15	265 47	76 0	0 0	-0 1	265 47	0 1
106 8	0 16	238.28	106 8	0 0	-0 2	259 17	0 2
198 4	0 16	270 96	198 4	-0 1	-0 4	256 54	0 4
285 6	0 08	207 37	285 6	-0 2	-0 6	254.99	0 6
370 5	0 02	130 72	370 5	-0 2	-0 6	249 78	0 6
460 4	0 19	40 73	460 4	-0 1	-0 5	256 76	0 5
550 3	0 31	15.23	550.3	0 2	-0 3	307.60	0 4
641 0	0 43	4 09	641 0	0 8	-0 2	344 91	0.8

Scientific Drilling
Directional Drilling Operations

Project: Lost Tank Delaware, West
Eddy County, NM
Well: Lost Tank 3 Federal #25
Wellbore: VH - Job #32K0211151
Design: VH - Job #32K0211151

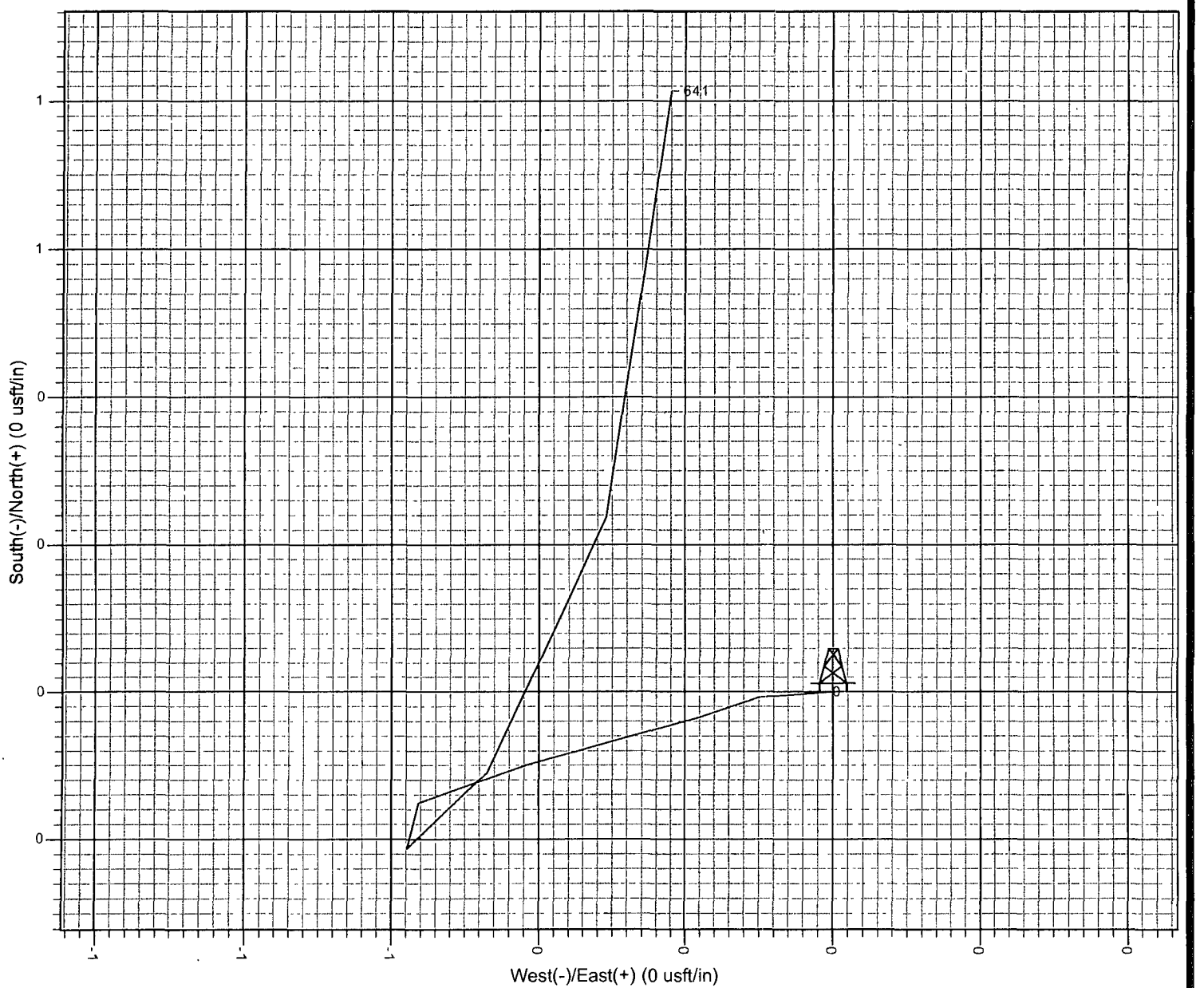


Azimuths to Grid North
True North -0.31°
Magnetic North: 7.42°

Magnetic Field
Strength: 48774.3snT
Dip Angle: 60.35°
Date: 2/18/2011
Model: IGRF2010

WELL DETAILS: Lost Tank 3 Federal #25
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	518281.21	677394.87	32° 25' 24.804 N	103° 45' 30.340 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 Uncertainity: 0.0
Convergence: 0.31
Local North: Grid

2105 MARKET STREET
MIDLAND, TX 79703
24 HR (432) 694-9517

STATE OF NEW MEXICO

COUNTY OF Eddy

I, Dominic Tenney , Directional Driller certify that I am employed by Baker Hughes INTEQ; did conduct or supervise on the day(s) of Feb 20, 2011 through Feb 22, 2011 the taking of MWD surveys from a depth of 641 to a depth of 4,245 that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ ; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy for the Lost Tank 3 Fed #25 in Eddy County, NM; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by INTEQ.

Field Service Engineer: Dominic Tenny

Rec Mid Reg 11/25/11

Actual Wellpath Report

3 Fed No. 25 AWP

BAKER HUGHES INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Lost Tank 3 Fed No. 25**
Area	**Eddy County, NM**	Well	**3 Fed No. 25**
Field	**Lost Tank**	Wellbore	**3 Fed No. 25**
Facility	**Lost Tank Pad _**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet**	Software System	**WellArchitect® 2.0**
North Reference	**Grid**	User	**Gentbry**
Scale	**0.999945**	Report Generated	**2/22/2011 at 8:05:45 AM**
Convergence at slot	**0.31° East**	Database/Source file	**WA_Midland/3_Fed_No._25.xml**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	**677394.90**	**518281.20**	32°25'24.804"N	103°45'30.339"W
Facility Reference Pt			**677394.90**	**518281.20**	32°25'24.804"N	103°45'30.339"W
Field Reference Pt			**677702.20**	**514850.60**	32°24'50.840"N	103°45'26.970"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Rig on Lost Tank 3 Fed No. 25 (KB) to Facility Vertical Datum	**3520.20ft**
Horizontal Reference Pt	**Slot**	Rig on Lost Tank 3 Fed No. 25 (KB) to Mean Sea Level	**3520.20ft**
Vertical Reference Pt	**Rig on Lost Tank 3 Fed No. 25 (KB)**	Facility Vertical Datum to Mud Line (Facility)	**0.00ft**
MD Reference Pt	**Rig on Lost Tank 3 Fed No. 25 (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**30.98°**

Rec Mid Reg 1/25/11

Actual Wellpath Report

3 Fed No. 25 AWP

BAKER HUGHES INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Lost Tank 3 Fed No. 25
Area	Eddy County, NM	Well	3 Fed No. 25
Field	Lost Tank	Wellbore	3 Fed No. 25
Facility	Lost Tank Pad _		

WELLPATH DATA (38 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	265.470	0.00	0.00	0.00	0.00	677394.90	518281.20	32°25'24.804"N	103°45'30.339"W	0.00	
16.50	0.000	265.470	16.50	0.00	0.00	0.00	677394.90	518281.20	32°25'24.804"N	103°45'30.339"W	0.00	
76.00	0.150	265.470	76.00	-0.05	-0.01	-0.08	677394.82	518281.19	32°25'24.804"N	103°45'30.340"W	0.25	
106.80	0.160	238.280	106.80	-0.11	-0.03	-0.15	677394.75	518281.17	32°25'24.804"N	103°45'30.341"W	0.24	
198.40	0.160	270.960	198.40	-0.28	-0.10	-0.39	677394.51	518281.10	32°25'24.803"N	103°45'30.344"W	0.10	
285.60	0.080	207.370	285.60	-0.41	-0.15	-0.54	677394.36	518281.05	32°25'24.803"N	103°45'30.346"W	0.16	
370.50	0.020	130.720	370.50	-0.47	-0.21	-0.56	677394.34	518280.99	32°25'24.802"N	103°45'30.346"W	0.09	
460.40	0.190	40.730	460.40	-0.32	-0.11	-0.45	677394.45	518281.09	32°25'24.803"N	103°45'30.345"W	0.21	
550.30	0.310	15.230	550.30	0.06	0.24	-0.29	677394.61	518281.44	32°25'24.807"N	103°45'30.343"W	0.18	
641.00	0.430	4.090	641.00	0.60	0.82	-0.20	677394.70	518282.02	32°25'24.812"N	103°45'30.342"W	0.15	
748.00	0.600	359.000	747.99	1.43	1.78	-0.18	677394.72	518282.98	32°25'24.822"N	103°45'30.341"W	0.16	
883.00	0.600	3.900	882.98	2.66	3.19	-0.14	677394.76	518284.39	32°25'24.836"N	103°45'30.341"W	0.04	
1019.00	0.700	1.000	1018.98	4.01	4.73	-0.08	677394.82	518285.93	32°25'24.851"N	103°45'30.340"W	0.08	
1154.00	0.700	1.000	1153.97	5.44	6.38	-0.05	677394.85	518287.58	32°25'24.867"N	103°45'30.340"W	0.00	
1289.00	1.100	353.000	1288.95	7.18	8.49	-0.20	677394.70	518289.69	32°25'24.888"N	103°45'30.341"W	0.31	
1425.00	0.400	78.400	1424.94	8.53	9.88	0.11	677395.01	518291.08	32°25'24.902"N	103°45'30.337"W	0.84	
1560.00	0.300	91.000	1559.94	9.02	9.97	0.93	677395.83	518291.17	32°25'24.903"N	103°45'30.328"W	0.09	
1695.00	0.600	83.800	1694.93	9.63	10.04	1.98	677396.88	518291.24	32°25'24.904"N	103°45'30.316"W	0.23	
1830.00	0.800	80.400	1829.92	10.67	10.27	3.61	677398.51	518291.47	32°25'24.906"N	103°45'30.297"W	0.15	
1966.00	1.200	77.400	1965.90	12.27	10.74	5.94	677400.84	518291.94	32°25'24.910"N	103°45'30.269"W	0.30	
2101.00	0.700	58.600	2100.88	13.97	11.48	8.02	677402.92	518292.68	32°25'24.917"N	103°45'30.245"W	0.43	
2237.00	1.000	42.400	2236.87	15.87	12.79	9.53	677404.43	518293.99	32°25'24.930"N	103°45'30.227"W	0.28	
2372.00	0.600	40.500	2371.85	17.72	14.20	10.79	677405.69	518295.39	32°25'24.944"N	103°45'30.213"W	0.30	
2507.00	0.600	32.000	2506.85	19.13	15.33	11.62	677406.52	518296.53	32°25'24.955"N	103°45'30.203"W	0.07	
2643.00	0.500	29.100	2642.84	20.43	16.46	12.29	677407.18	518297.65	32°25'24.967"N	103°45'30.195"W	0.08	
2778.00	0.600	281.300	2777.84	20.78	17.11	11.88	677406.78	518298.31	32°25'24.973"N	103°45'30.200"W	0.66	
2913.00	0.800	263.800	2912.83	19.97	17.14	10.25	677405.15	518298.34	32°25'24.973"N	103°45'30.219"W	0.22	
3048.00	1.100	267.200	3047.81	18.68	16.98	8.02	677402.92	518298.18	32°25'24.972"N	103°45'30.245"W	0.23	
3184.00	0.200	307.900	3183.80	17.99	17.06	6.53	677401.43	518298.26	32°25'24.973"N	103°45'30.262"W	0.70	
3319.00	0.600	79.000	3318.80	18.49	17.34	7.03	677401.93	518298.54	32°25'24.976"N	103°45'30.256"W	0.55	
3454.00	1.600	69.700	3453.77	20.43	18.13	9.50	677404.40	518299.33	32°25'24.983"N	103°45'30.227"W	0.75	
3589.00	1.200	38.500	3588.73	23.30	19.89	12.14	677407.04	518301.09	32°25'25.001"N	103°45'30.196"W	0.63	
3725.00	0.300	4.200	3724.72	25.03	21.36	13.06	677407.96	518302.56	32°25'25.015"N	103°45'30.186"W	0.71	
3860.00	0.200	336.400	3859.72	25.49	21.93	12.99	677407.89	518303.13	32°25'25.021"N	103°45'30.186"W	0.11	
3995.00	0.200	163.500	3994.72	25.46	21.92	12.96	677407.86	518303.12	32°25'25.021"N	103°45'30.187"W	0.30	
4130.00	0.040	43.500	4129.72	25.35	21.73	13.06	677407.96	518302.93	32°25'25.019"N	103°45'30.186"W	0.16	
4170.00	0.030	11.200	4169.72	25.37	21.75	13.07	677407.97	518302.95	32°25'25.019"N	103°45'30.185"W	0.05	
4245.00	0.030	11.200	4244.72	25.41	21.79	13.08	677407.98	518302.98	32°25'25.019"N	103°45'30.185"W	0.00	Projection to Bit

Rec Mid Reg 1/25/11

Actual Wellpath Report

3 Fed No. 25 AWP

BAKER HUGHES INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Lost Tank 3 Fed No. 25**
Area	**Eddy County, NM**	Well	**3 Fed No. 25**
Field	**Lost Tank**	Wellbore	**3 Fed No. 25**
Facility	**Lost Tank Pad _**		

WELLPATH COMPOSITION **Ref Wellbore: 3 Fed No. 25** **Ref Wellpath: 3 Fed No. 25 AWP**

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.50	641.00	Generic gyro - northseeking (Standard)	Gyro	3 Fed No. 25
641.00	4245.00	NaviTrak (Standard)	MWD	3 Fed No. 25

Rec Mid Reg 11/25/11

OPERATOR: Oxy
WELL/LEASE: Lost Tank 3 #25
COUNTY: Eddy

RIG: 340

STATE OF NEW MEXICO
DEVIATION REPORT

460	0	5239	0.25
748	0.6	5374	0.25
883	0.6	5509	0
1019	0.7	5644	0
1154	0.7	5780	0
1289	1.1	5915	0
1425	0.4	6050	0
1695	0.6	6186	0.5
1966	1.2	6267	0
2372	0.6		
2778	0.6		
3048	1.1		
3184	0.2		
3319	0.6		
3454	1.6		
3589	1.2		
3860	0.2		
4130	0.04		
4203	0.25		
4292	0		
4427	0.25		
4563	0		
4698	0		
4833	0.25		
4968	0		
5104	0		

BY: Kerri Heflin

STATE OF TEXAS

County Of Ector

The foregoing instrument was acknowledged before me on 2-23-2012 by Kerri Heflin on behalf of Helmerich & Payne IDC.

Dawn Earlie Tucker
Notary Public for Ector County, Texas
My Comission Expires: 4/1/14

DAWN EARLIE TUCKER
Notary Public, State of Texas
My Commission Expires
April 01, 2014

Rec. Mid Reg. 3/26/12