



Weatherford®

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

30-015-40890

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: November 26, 2013

Attention: Anthony Tsacher

Re: Occidental Permian Ltd
Well: Lost Tank 35 SWD #1H
Eddy County, New Mexico

NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 29 2013

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Tracy McGuffy	1H	4404' MD	11-20-2013	Measurement
MWD Supervisor		6231' MD	11-22-2013	While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 20th day of November, 2013, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



Weatherford®

SURVEY REPORT

Report Date: 11/22/2013

Customer: OXY

Job Name: 4031026

Well Name: Lost Tank 35 State SWD

Field: Lost Tank 35 State

Rig: H&P477

Rig Loc: Eddy county

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	0.00 deg	48492 nT	60.28 deg	7.50 deg	0.31 deg	7.19 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	4170.00 ft	6.24 deg	33.29 deg	4162.73 ft	144.68 ft	110.81 ft

Depth (ft)	Inc (deg)	Azim (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
4404.00	4.63	37.19	4395.67	162.84	123.50	162.84	0.71
4436.00	4.28	37.49	4427.57	164.81	125.01	164.81	1.10
4530.00	3.30	55.49	4521.37	169.13	129.37	169.13	1.63
4625.00	2.58	139.40	4616.28	169.05	133.02	169.05	4.18
4719.00	4.57	144.08	4710.09	164.41	136.59	164.41	2.14
4813.00	5.62	146.11	4803.72	157.56	141.36	157.56	1.13
4908.00	6.68	171.35	4898.19	148.23	144.78	148.23	3.03
5003.00	7.99	186.77	4992.42	136.21	144.83	136.21	2.48
5097.00	8.26	192.35	5085.48	123.13	142.62	123.13	0.89
5192.00	9.03	199.25	5179.40	109.42	138.70	109.42	1.36
5286.00	7.85	205.80	5272.38	96.68	133.48	96.68	1.62
5381.00	8.20	211.68	5366.45	85.07	127.09	85.07	0.94
5475.00	8.81	218.61	5459.42	73.74	119.08	73.74	1.27
5570.00	8.83	220.42	5553.30	62.51	109.81	62.51	0.29
5664.00	8.76	220.18	5646.19	51.55	100.52	51.55	0.08
5759.00	9.00	220.05	5740.06	40.33	91.07	40.33	0.25
5853.00	8.39	218.49	5832.97	29.34	82.07	29.34	0.70
5947.00	6.46	224.31	5926.18	20.18	74.11	20.18	2.20
6042.00	4.78	226.73	6020.72	13.65	67.49	13.65	1.79
6136.00	2.66	232.10	6114.52	9.62	62.92	9.62	2.28
6231.00	2.97	231.76	6209.41	6.74	59.25	6.74	0.33
6300.00	2.95	230.65	6278.31	4.51	56.47	4.51	0.09

Vertical Section is 2.67 ft along the target direction of 0.00 deg at a measured depth of 6356.26 ft.
 Horizontal Displacement is 54.30 ft along the well bore azimuth of 87.18 deg.
 The total correction is 7.19 deg relative to Grid North.

Well Report



Company : OXY
Well : LOST TANK 35 SWD #1
Location : EDDY COUNTY
Reference: Grid North

Page: 1
Date : 11/22/2013
File : 4031206

License : 160184
Comment : S JOYCE

UWI #: 30-015-40890

Vertical Section Calculated Along Azimuth 0.00° KB Elevation = 3535.60ft GR. Elevation = 3521.60ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MS Gyro Surveys										
1	200.00	0.07	309.04	200.00	0.08	-0.09	0.08	0.03	0.04	-25.48
2	400.00	0.83	53.32	399.99	1.02	0.97	1.02	0.42	0.38	52.14
3	600.00	1.29	33.14	599.96	3.77	3.36	3.77	0.29	0.23	-10.09
4	800.00	1.44	43.71	799.90	7.47	6.33	7.47	0.15	0.07	5.29
5	1000.00	1.23	52.83	999.85	10.58	9.78	10.58	0.15	-0.11	4.56
6	1200.00	1.20	58.60	1199.80	12.97	13.28	12.97	0.06	-0.02	2.89
7	1400.00	1.41	57.17	1399.75	15.40	17.13	15.40	0.11	0.11	-0.72
8	1600.00	1.72	62.46	1599.68	18.12	21.86	18.12	0.17	0.15	2.65
9	1800.00	2.12	63.55	1799.56	21.16	27.83	21.16	0.20	0.20	0.54
10	2000.00	1.54	67.56	1999.46	23.83	33.63	23.83	0.30	-0.29	2.01
11	2200.00	1.11	81.26	2199.41	25.15	38.03	25.15	0.27	-0.21	6.85
12	2400.00	1.78	72.92	2399.34	26.36	42.91	26.36	0.35	0.33	-4.17
13	2600.00	2.93	58.32	2599.17	29.95	50.23	29.95	0.64	0.58	-7.30
14	2800.00	2.54	55.71	2798.94	35.13	58.24	35.13	0.20	-0.20	-1.30
15	3000.00	2.57	40.19	2998.75	41.06	64.80	41.06	0.35	0.02	-7.76
16	3200.00	3.72	13.11	3198.45	50.80	69.16	50.80	0.92	0.57	-13.54
17	3400.00	5.07	11.24	3397.86	65.79	72.36	65.79	0.68	0.68	-0.93
18	3600.00	6.24	20.44	3596.89	84.64	77.88	84.64	0.74	0.58	4.60
19	3800.00	7.49	26.35	3795.45	106.51	87.46	106.51	0.72	0.62	2.96
20	4000.00	7.00	33.66	3993.86	128.33	100.00	128.33	0.52	-0.24	3.65
21	4170.00	6.24	33.29	4162.73	144.68	110.81	144.68	0.45	-0.45	-0.22
First WFT Survey										
22	4404.00	4.63	37.19	4395.67	162.84	123.50	162.84	0.71	-0.69	1.67
23	4436.00	4.28	37.49	4427.57	164.81	125.01	164.81	1.10	-1.09	0.94
24	4530.00	3.30	55.49	4521.37	169.13	129.38	169.13	1.63	-1.04	19.15
25	4625.00	2.58	139.40	4616.28	169.05	133.02	169.05	4.18	-0.76	88.33
26	4719.00	4.57	144.08	4710.09	164.41	136.60	164.41	2.14	2.12	4.98
27	4813.00	5.62	146.11	4803.72	157.56	141.36	157.56	1.13	1.12	2.16
28	4908.00	6.68	171.35	4898.19	148.23	144.78	148.23	3.03	1.12	26.57
29	5003.00	7.99	186.77	4992.42	136.21	144.84	136.21	2.48	1.38	16.23
30	5097.00	8.26	192.35	5085.47	123.13	142.62	123.13	0.89	0.29	5.94
31	5192.00	9.03	199.25	5179.40	109.42	138.71	109.42	1.36	0.81	7.26
32	5286.00	7.85	205.80	5272.38	96.68	133.48	96.68	1.62	-1.26	6.97

Well Report



Company : OXY
Well : LOST TANK 35 SWD #1
Location : EDDY COUNTY
Reference: Grid North

Page: 2
Date : 11/22/2013
File : 4031206

License : 160184
Comment : S JOYCE

UWI #: 30-015-40890

Vertical Section Calculated Along Azimuth 0.00°

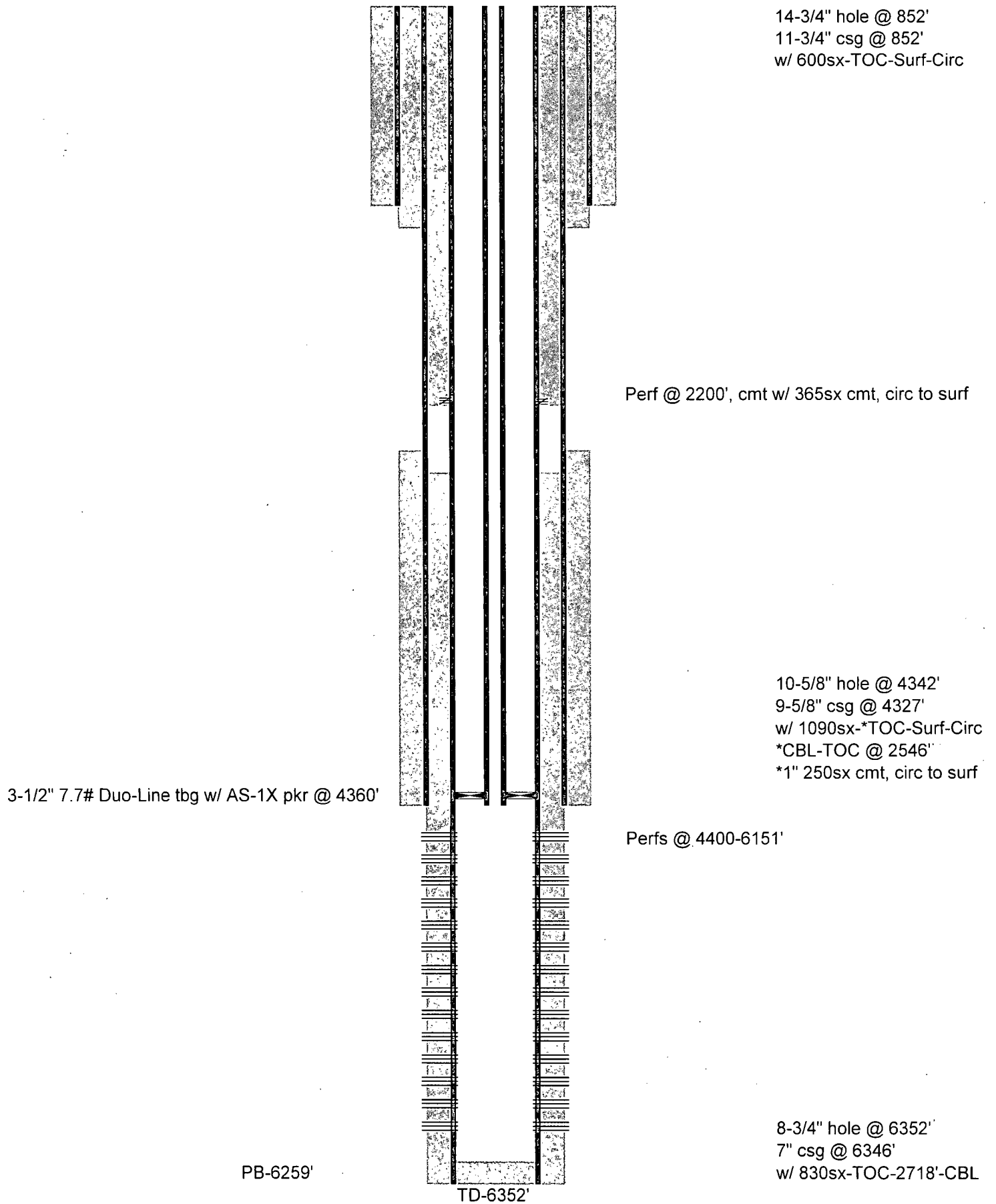
KB Elevation = 3535.60ft

GR. Elevation = 3521.60ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
33	5381.00	8.20	211.68	5366.45	85.07	127.10	85.07	0.94	0.37	6.19
34	5475.00	8.81	218.61	5459.42	73.74	119.08	73.74	1.27	0.65	7.37
35	5570.00	8.83	220.42	5553.30	62.51	109.82	62.51	0.29	0.02	1.91
36	5664.00	8.76	220.18	5646.19	51.55	100.52	51.55	0.08	-0.07	-0.26
37	5759.00	9.00	220.05	5740.05	40.33	91.07	40.33	0.25	0.25	-0.14
38	5853.00	8.39	218.49	5832.97	29.34	82.07	29.34	0.70	-0.65	-1.66
39	5947.00	6.46	224.31	5926.18	20.18	74.11	20.18	2.20	-2.05	6.19
40	6042.00	4.78	226.73	6020.72	13.65	67.49	13.65	1.79	-1.77	2.55
41	6136.00	2.66	232.10	6114.52	9.62	62.92	9.62	2.28	-2.26	5.71
42	6231.00	2.97	231.76	6209.40	6.74	59.25	6.74	0.33	0.33	-0.36
43	6300.00	2.95	230.65	6278.31	4.51	56.47	4.51	0.09	-0.03	-1.61
Projection to TD										
EXT	6356.00	2.95	230.65	6334.24	2.68	54.24	2.68	0.00	0.00	0.00

Bottom Hole Closure 54.31ft Along Azimuth 87.17°

OXY USA Inc.
Lost Tank 35 State SWD #1
API No. 30-015-40890



SEP 29 2014

Lost Tank 35 State FWD 1H MWD 0' to 2925' Survey Report

(Def Survey)

RECEIVED

Report Date: July 09, 2013 - 08:40 PM
 Client: OXY
 Field: NM, Lea (NAD27) 2011
 Structure / Slot: OXY (Lost Tank 35 State FWD 1H) Savanna 415 / Lost Tank 35 State FWD 1H
 Well: Lost Tank 35 State FWD 1H
 Borehole: Original Hole
 UWI / API#: Unknown / 300-015-40890
 Survey Name: Lost Tank 35 State FWD 1H MWD 0' to 2925'
 Survey Date: July 09, 2013
 Tort / AHD / DDI / ERD Ratio: 15.035 ° / 76.066 ft / 3.058 / 0.026
 Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
 Location Lat / Long: N 32° 26' 5.64000", W 103° 44' 53.16000"
 Location Grid N/E Y/X: N 530969.274 ftUS, E 1271990.698 ftUS
 CRS Grid Convergence Angle: 1.34248817 °
 Grid Scale Factor: 1.00058282

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3533.500 ft above Unknown
 Seabed / Ground Elevation: 3521.000 ft above Unknown
 Magnetic Declination: 7.480 °
 Total Field Strength: 48484.985 nT
 Magnetic Dip Angle: 60.258 °
 Declination Date: July 09, 2013
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.313 °
 Total Corr Mag North->Grid North: 7.167 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	530969.27	1271990.70	N 32 26 5.64	W 103 44 53.16
Begin MWD Surveys	228.00	0.09	340.28	228.00	0.17	0.17	-0.06	0.04	530969.44	1271990.64	N 32 26 5.64	W 103 44 53.16
	400.00	1.01	51.47	399.99	1.24	1.24	1.08	0.57	530970.51	1271991.78	N 32 26 5.65	W 103 44 53.15
	529.00	1.40	31.47	528.96	3.29	3.29	2.79	0.44	530972.57	1271993.49	N 32 26 5.67	W 103 44 53.13
	591.00	1.49	40.09	590.94	4.56	4.56	3.71	0.38	530973.83	1271994.41	N 32 26 5.68	W 103 44 53.12
	652.00	1.58	33.89	651.92	5.86	5.86	4.69	0.31	530975.14	1271995.39	N 32 26 5.70	W 103 44 53.10
	770.00	1.49	41.89	769.88	8.35	8.35	6.62	0.20	530977.63	1271997.32	N 32 26 5.72	W 103 44 53.08
	835.00	1.32	188.49	834.87	8.24	8.24	7.07	4.14	530977.52	1271997.77	N 32 26 5.72	W 103 44 53.08
	923.00	1.41	48.87	922.86	7.95	7.95	7.74	2.91	530977.23	1271998.44	N 32 26 5.72	W 103 44 53.07
	1060.00	1.19	56.87	1059.83	9.84	9.84	10.20	0.21	530979.12	1272000.90	N 32 26 5.73	W 103 44 53.04
	1285.00	1.41	61.27	1284.77	12.44	12.44	14.58	0.11	530981.73	1272005.29	N 32 26 5.76	W 103 44 52.99
	1508.00	1.58	59.95	1507.69	15.30	15.30	19.65	0.08	530984.59	1272010.36	N 32 26 5.79	W 103 44 52.93
	1658.00	1.81	62.76	1657.63	17.42	17.42	23.55	0.16	530986.71	1272014.26	N 32 26 5.81	W 103 44 52.88
	1833.00	2.29	61.57	1832.51	20.35	20.35	29.08	0.28	530989.64	1272019.79	N 32 26 5.83	W 103 44 52.82
	1928.00	2.29	60.48	1927.44	22.19	22.19	32.40	0.05	530991.48	1272023.12	N 32 26 5.85	W 103 44 52.78
	2017.00	1.71	61.75	2016.38	23.70	23.70	35.12	0.65	530992.98	1272025.83	N 32 26 5.87	W 103 44 52.74
	2146.00	1.10	77.66	2145.34	24.87	24.87	38.02	0.56	530994.16	1272028.74	N 32 26 5.88	W 103 44 52.71
	2288.00	1.19	61.70	2287.32	25.86	25.86	40.65	0.23	530995.15	1272031.37	N 32 26 5.89	W 103 44 52.68
	2375.00	1.49	57.18	2374.29	26.90	26.90	42.40	0.37	530996.19	1272033.12	N 32 26 5.90	W 103 44 52.66
	2491.00	2.29	72.25	2490.23	28.43	28.43	45.87	0.81	530997.72	1272036.60	N 32 26 5.91	W 103 44 52.62
	2575.00	2.99	58.59	2574.14	30.08	30.08	49.34	1.11	530999.37	1272040.07	N 32 26 5.93	W 103 44 52.58
	2663.00	2.11	56.17	2662.05	32.18	32.18	52.64	1.01	531001.47	1272043.37	N 32 26 5.95	W 103 44 52.54
	2749.00	2.11	56.08	2747.99	33.94	33.94	55.27	0.00	531003.24	1272046.00	N 32 26 5.96	W 103 44 52.51
	2836.00	3.12	54.46	2834.90	36.21	36.21	58.53	1.16	531005.51	1272049.26	N 32 26 5.98	W 103 44 52.47
End MWD Surveys	2925.00	2.99	49.58	2923.78	39.13	39.13	62.27	0.33	531008.42	1272053.00	N 32 26 6.01	W 103 44 52.42

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	12.500	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Lost Tank 35 State FWD 1H MWD 0' to 2925'
	12.500	12.500	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Lost Tank 35 State FWD 1H MWD 0' to 2925'
		2925.000	Act Stns	SLB_MWD-STD	Original Hole / Lost Tank 35 State FWD 1H MWD 0' to 2925'