

SUB-SURFACE SURVEY CERTIFICATION REPORT



September 3, 2003
Date

AL Elliott C 4M
Well Name

San Juan Co., New Mexico
County/State

[illegible]

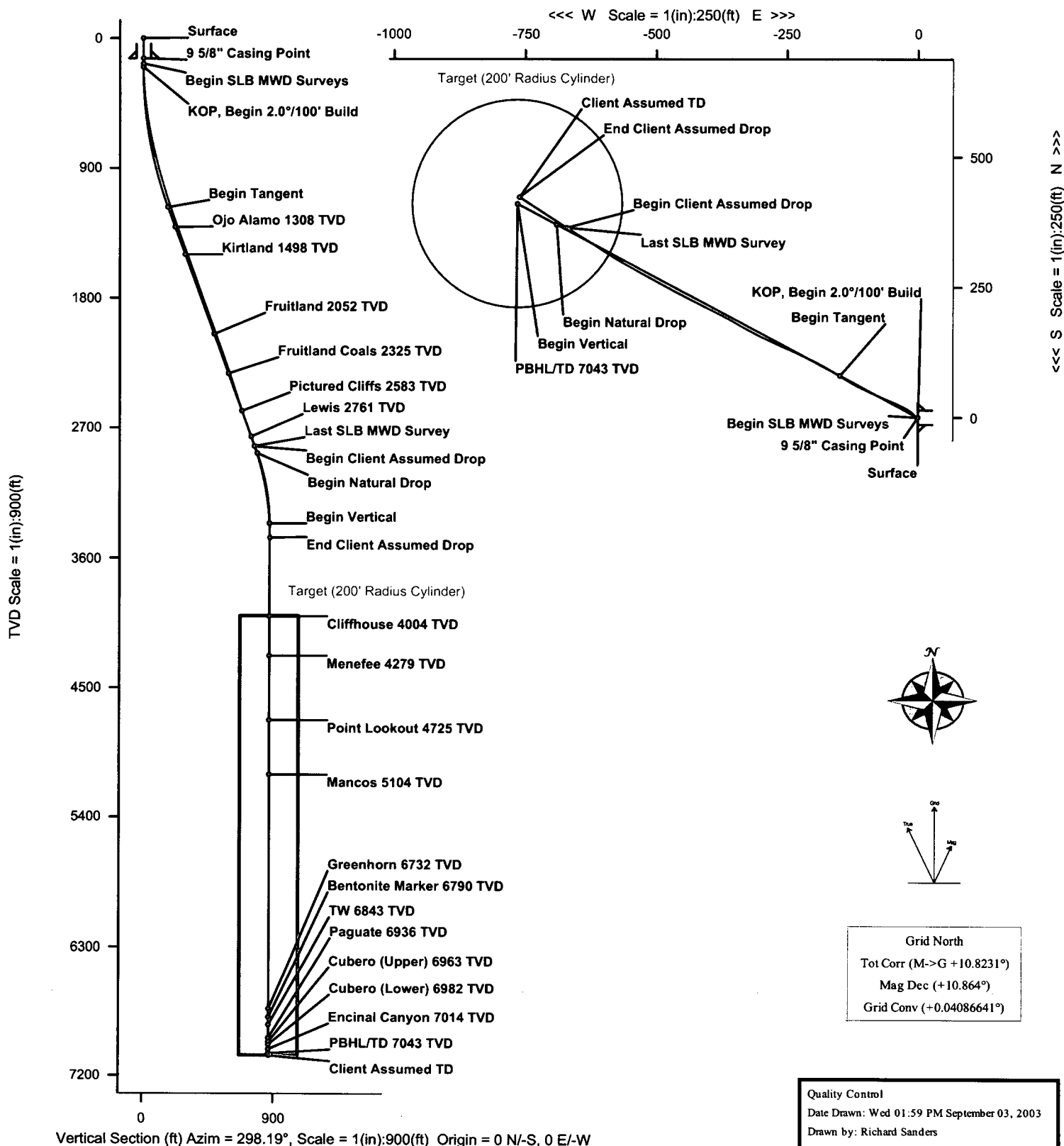
The data submitted in this report conforms to the standards and procedures as set forth by Schlumberger. This report represents a true and correct directional wellbore survey based on original survey data obtained at the well site.

John O'Keefe
Drilling Engineer

This document has been subscribed and affirmed, or sworn before me in the county of Arapahoe in the state of Colorado, this 3RD day of September 2003

Christine J. Wilson My commission expires: 12-12-05

Well AL Elliott C 4M			Field San Juan County, New Mexico			Rig Aztec 184		
Magnetic Parameters Model BGGM 2002 Dip 63.634° Mag Dec +10.864°			Surface Location Latitude N36 43 48.000 Longitude W107 45 54.000 Northing 2085043.67 RUS Easting 2743115.89 RUS			NAD83 New Mexico State Planes, Western Zone, US Feet Grid Convergence +0.04086641° Scale Factor 0.9999170000		
Date July 18, 2003 Field Strength 51556.1 nT			Miscellaneous Borehole AL Elliott 4M R0 06-May-03 Original Hole Plan TVD Reference RKB (5957.00 ft above MSL) Survey Date July 18, 2003					



AI Elliott C 4M Final Survey Report

Report Date: September 3, 2003 Client: BP America Inc. Field: NM, San Juan County (NAD 83 WZ) Structure / Slot: BP 15-29N-9W (AL Elliott C 4M) No Certified Plat / AL Elliott C 4M Well: AL Elliott C 4M Borehole: Original Hole UW/AP#: Survey Name / Date: AI Elliott C 4M Final Surveys / July 19, 2003 Tort / AHD / DDI / ERD ratio: 54.782° / 872.60 ft / 4.687 / 0.124 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat/Long: N 36 43 48.000, W 107 45 54.000 Location Grid N/E Y/X: N 2085043.673 NUS, E 2743115.888 NUS Grid Convergence Angle: +0.04086641° Grid Scale Factor: 0.99991713	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 298.190° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 5957.0 ft relative to MSL Sea Bed / Ground Level Elevation: 5943.000 ft relative to MSL Magnetic Declination: 10.864° Total Field Strength: 51555.820 nT Magnetic Dip: 63.634° Declination Date: July 19, 2003 Magnetic Declination Model: BGGM 2003 North Reference: Grid North Total Corr Mag North -> Grid North: +10.823° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2085043.67	2743115.89	N 36 43 48.000	W 107 45 54.000
Begin SLB-MWD Surveys	177.00	0.60	269.47	177.00	0.81	-0.01	-0.93	0.34	2085043.66	2743114.96	N 36 43 48.000	W 107 45 54.011
	208.00	0.90	296.87	207.99	1.20	0.10	-1.31	1.48	2085043.77	2743114.58	N 36 43 48.001	W 107 45 54.016
	240.00	1.38	290.37	239.99	1.83	0.35	-1.89	1.55	2085044.02	2743114.00	N 36 43 48.003	W 107 45 54.023
	271.00	1.98	303.49	270.97	2.73	0.77	-2.69	2.29	2085044.45	2743113.20	N 36 43 48.008	W 107 45 54.033
	302.00	2.75	310.20	301.95	4.00	1.55	-3.70	2.64	2085045.22	2743112.19	N 36 43 48.015	W 107 45 54.045
	333.00	3.85	317.42	332.90	5.71	2.80	-4.98	3.79	2085046.47	2743110.91	N 36 43 48.028	W 107 45 54.061
	364.00	5.05	317.45	363.80	7.98	4.57	-6.60	3.87	2085048.24	2743109.29	N 36 43 48.045	W 107 45 54.081
	395.00	6.00	315.57	394.66	10.81	6.73	-8.66	3.12	2085050.40	2743107.23	N 36 43 48.067	W 107 45 54.106
	426.00	6.60	311.70	425.47	14.09	9.07	-11.12	2.37	2085052.74	2743104.77	N 36 43 48.090	W 107 45 54.137
	457.00	7.18	306.49	456.25	17.74	11.41	-14.01	2.75	2085055.08	2743101.88	N 36 43 48.113	W 107 45 54.172
	488.00	7.63	303.40	486.99	21.70	13.69	-17.29	1.94	2085057.36	2743098.60	N 36 43 48.136	W 107 45 54.212
	519.00	8.15	300.87	517.69	25.95	15.95	-20.89	2.02	2085059.63	2743095.00	N 36 43 48.158	W 107 45 54.256
	550.00	8.73	297.07	548.36	30.50	18.15	-24.87	2.59	2085061.82	2743091.02	N 36 43 48.180	W 107 45 54.305
	582.00	9.25	295.87	579.97	35.49	20.38	-29.35	1.73	2085064.05	2743086.54	N 36 43 48.202	W 107 45 54.360
	614.00	10.05	295.30	611.51	40.85	22.69	-34.19	2.52	2085066.37	2743081.70	N 36 43 48.225	W 107 45 54.420
	646.00	10.52	294.84	643.00	46.56	25.11	-39.36	1.49	2085068.79	2743076.53	N 36 43 48.249	W 107 45 54.483
	678.00	11.23	292.57	674.42	52.57	27.54	-44.89	2.59	2085071.21	2743071.00	N 36 43 48.273	W 107 45 54.551
	709.00	11.88	292.70	704.80	58.76	29.93	-50.62	2.10	2085073.60	2743065.27	N 36 43 48.296	W 107 45 54.622
	741.00	12.40	293.27	736.08	65.46	32.56	-56.82	1.67	2085076.23	2743059.08	N 36 43 48.322	W 107 45 54.698
	773.00	12.93	293.99	767.30	72.45	35.37	-63.24	1.73	2085079.04	2743052.65	N 36 43 48.350	W 107 45 54.777
	805.00	13.43	293.87	798.46	79.73	38.33	-69.91	1.56	2085082.00	2743045.98	N 36 43 48.379	W 107 45 54.858
	837.00	13.90	293.87	829.55	87.27	41.39	-76.83	1.47	2085085.06	2743039.07	N 36 43 48.410	W 107 45 54.943
	868.00	14.27	294.22	859.62	94.79	44.46	-83.72	1.22	2085088.13	2743032.18	N 36 43 48.440	W 107 45 55.028
	900.00	14.68	294.59	890.60	102.77	47.77	-91.00	1.31	2085091.44	2743024.90	N 36 43 48.473	W 107 45 55.117
	932.00	15.18	295.65	921.52	111.00	51.27	-98.46	1.78	2085094.94	2743017.43	N 36 43 48.508	W 107 45 55.209
	964.00	15.75	296.27	952.37	119.53	55.00	-106.13	1.85	2085098.67	2743009.76	N 36 43 48.545	W 107 45 55.303
	995.00	16.20	297.12	982.17	128.06	58.84	-113.76	1.64	2085102.51	2743002.14	N 36 43 48.583	W 107 45 55.397
	1027.00	16.52	298.77	1012.87	137.07	63.06	-121.72	1.76	2085106.73	2742994.18	N 36 43 48.624	W 107 45 55.495
	1059.00	16.83	299.40	1043.53	146.25	67.53	-129.74	1.12	2085111.19	2742986.16	N 36 43 48.669	W 107 45 55.593
	1091.00	17.30	300.87	1074.12	155.64	72.24	-137.86	1.99	2085115.91	2742978.04	N 36 43 48.715	W 107 45 55.693
	1123.00	17.95	301.15	1104.62	165.31	77.23	-146.17	2.05	2085120.90	2742969.73	N 36 43 48.765	W 107 45 55.795
	1155.00	18.40	301.72	1135.02	175.28	82.44	-154.68	1.51	2085126.11	2742961.22	N 36 43 48.816	W 107 45 55.899
	1187.00	18.60	301.47	1165.37	185.41	87.76	-163.33	0.67	2085131.42	2742952.57	N 36 43 48.869	W 107 45 56.006
	1219.00	18.67	299.84	1195.69	195.63	92.97	-172.13	1.64	2085136.64	2742943.78	N 36 43 48.920	W 107 45 56.114
	1283.00	19.10	297.20	1256.24	216.34	102.86	-190.33	1.49	2085146.52	2742925.58	N 36 43 49.018	W 107 45 56.337
	1346.00	19.14	295.88	1315.77	236.96	112.08	-208.79	0.69	2085155.74	2742907.12	N 36 43 49.110	W 107 45 56.564
	1410.00	19.42	295.57	1376.18	258.08	121.25	-227.82	0.47	2085164.91	2742888.08	N 36 43 49.200	W 107 45 56.798
	1474.00	19.88	294.52	1436.45	279.56	130.36	-247.32	0.91	2085174.02	2742868.59	N 36 43 49.291	W 107 45 57.037
	1537.00	20.02	293.87	1495.67	301.01	139.16	-266.93	0.42	2085182.83	2742848.98	N 36 43 49.378	W 107 45 57.278
	1601.00	19.58	295.65	1555.89	322.65	148.24	-286.61	1.17	2085191.90	2742829.30	N 36 43 49.468	W 107 45 57.519
	1664.00	19.40	296.74	1615.28	343.65	157.52	-305.47	0.64	2085201.18	2742810.44	N 36 43 49.560	W 107 45 57.751
	1728.00	19.17	299.02	1675.69	364.78	167.40	-324.16	1.23	2085211.06	2742791.76	N 36 43 49.657	W 107 45 57.980
	1792.00	19.05	300.07	1736.16	385.73	177.73	-342.38	0.57	2085221.39	2742773.53	N 36 43 49.760	W 107 45 58.204
	1855.00	19.73	298.57	1795.59	406.64	187.97	-360.62	1.34	2085231.62	2742755.30	N 36 43 49.861	W 107 45 58.428
	1919.00	19.63	297.37	1855.85	428.19	198.07	-379.65	0.65	2085241.73	2742736.27	N 36 43 49.961	W 107 45 58.662
	1983.00	19.73	296.87	1916.11	449.74	207.90	-398.84	0.31	2085251.55	2742717.08	N 36 43 50.058	W 107 45 58.898
	2047.00	19.52	296.62	1976.39	471.23	217.57	-418.03	0.35	2085261.23	2742697.89	N 36 43 50.154	W 107 45 59.133
	2110.00	19.30	296.65	2035.81	492.16	226.96	-436.75	0.35	2085270.61	2742679.18	N 36 43 50.247	W 107 45 59.363

	2174.00	19.58	298.22	2096.17	513.45	236.77	-455.65	0.93	2085280.43	2742660.28	N 36 43 50.344	W 107 45 59.595
	2270.00	19.38	298.82	2186.67	545.47	252.06	-483.78	0.29	2085295.71	2742632.15	N 36 43 50.496	W 107 45 59.941
	2365.00	19.27	298.49	2276.32	576.90	267.13	-511.37	0.16	2085310.78	2742604.57	N 36 43 50.645	W 107 46 0.279
	2397.00	18.58	299.55	2306.59	587.28	272.17	-520.44	2.41	2085315.82	2742595.49	N 36 43 50.695	W 107 46 0.391
	2429.00	18.73	299.65	2336.91	597.51	277.22	-529.34	0.48	2085320.87	2742586.59	N 36 43 50.745	W 107 46 0.500
	2461.00	18.35	300.62	2367.25	607.68	282.33	-538.14	1.53	2085325.98	2742577.79	N 36 43 50.795	W 107 46 0.608
	2493.00	17.85	299.07	2397.66	617.62	287.28	-546.76	2.17	2085330.93	2742569.17	N 36 43 50.844	W 107 46 0.714
	2525.00	17.80	298.27	2428.13	627.41	291.98	-555.36	0.78	2085335.63	2742560.58	N 36 43 50.891	W 107 46 0.820
	2557.00	18.08	299.82	2458.57	637.27	296.76	-563.97	1.73	2085340.41	2742551.96	N 36 43 50.938	W 107 46 0.925
	2589.00	17.67	300.65	2489.03	647.08	301.71	-572.46	1.51	2085345.36	2742543.48	N 36 43 50.987	W 107 46 1.030
	2621.00	18.08	301.99	2519.48	656.89	306.82	-580.85	1.81	2085350.46	2742535.09	N 36 43 51.038	W 107 46 1.133
	2684.00	19.25	303.27	2579.17	676.99	317.69	-597.82	1.97	2085361.34	2742518.11	N 36 43 51.145	W 107 46 1.341
	2780.00	19.23	301.65	2669.81	708.53	334.67	-624.51	0.56	2085378.31	2742491.43	N 36 43 51.313	W 107 46 1.669
	2876.00	19.20	301.62	2760.46	740.07	351.24	-651.41	0.03	2085394.88	2742464.53	N 36 43 51.478	W 107 46 1.999
Last SLB MWD Survey	2947.00	19.33	303.34	2827.48	763.43	363.82	-671.17	0.82	2085407.46	2742444.77	N 36 43 51.602	W 107 46 2.242
Begin Client Assumed Drop	2947.55	19.31	303.34	2828.00	763.61	363.92	-671.32	3.64	2085407.56	2742444.62	N 36 43 51.603	W 107 46 2.244
End Client Assumed Drop	3591.33	0.00	303.34	3459.66	870.64	422.98	-761.10	3.00	2085466.62	2742354.85	N 36 43 52.188	W 107 46 3.346
Client Assumed TD	7190.00	0.00	303.34	7058.33	870.64	422.98	-761.10	0.00	2085466.62	2742354.85	N 36 43 52.188	W 107 46 3.346

Survey Type: Raw Survey

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

2947.00

MD To (ft)

2947.00

7190.00

EOU Freq Survey Tool Type

Act-Stns SLB_MWD-STD

Act-Stns SLB_BLIND

AI Elliott C 4M Final Survey Report

Schlumberger

Report Date: September 3, 2003
 Client: BP America Inc.
 Field: NM, San Juan County (NAD 83 WZ)
 Structure / Slot: BP 15-29N-9W (AL Elliott C 4M) No Certified Plat / AL Elliott C 4M
 Well: AL Elliott C 4M
 Borehole: Original Hole
 UWI/API#:
 Survey Name / Date: AI Elliott C 4M Final Surveys / July 19, 2003
 Tort / AHD / DDI / ERD ratio: 54.782" / 872.60 ft / 4.687 / 0.124
 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet
 Location Lat/Long: N 36 43 48.000, W 107 45 54.000
 Location Grid N/E Y/X: N 2085043.673 ftUS, E 2743115.888 ftUS
 Grid Convergence Angle: +0.04086641°
 Grid Scale Factor: 0.99991713

Survey / DLS Computation Method: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 298.190°
 Vertical Section Origin: N 0.000 ft, E 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 5957.0 ft relative to MSL
 Sea Bed / Ground Level Elevation: 5943.000 ft relative to MSL
 Magnetic Declination: 10.864°
 Total Field Strength: 51555.820 nT
 Magnetic Dip: 63.634°
 Declination Date: July 19, 2003
 Magnetic Declination Model: BGGM 2003
 North Reference: Grid North
 Total Corr Mag North -> Grid North: +10.823°
 Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2085043.67	2743115.89	N 36 43 48.000	W 107 45 54.000
Begin SLB-MWD Surveys	177.00	0.60	269.47	177.00	0.81	-0.01	-0.93	0.34	2085043.66	2743114.96	N 36 43 48.000	W 107 45 54.011
	208.00	0.90	296.87	207.99	1.20	0.10	-1.31	1.48	2085043.77	2743114.58	N 36 43 48.001	W 107 45 54.016
	240.00	1.38	290.37	239.99	1.83	0.35	-1.89	1.55	2085044.02	2743114.00	N 36 43 48.003	W 107 45 54.023
	271.00	1.98	303.49	270.97	2.73	0.77	-2.69	2.29	2085044.45	2743113.20	N 36 43 48.008	W 107 45 54.033
	302.00	2.75	310.20	301.95	4.00	1.55	-3.70	2.64	2085045.22	2743112.19	N 36 43 48.015	W 107 45 54.045
	333.00	3.85	317.42	332.90	5.71	2.80	-4.98	3.79	2085046.47	2743110.91	N 36 43 48.028	W 107 45 54.061
	364.00	5.05	317.45	363.80	7.98	4.57	-6.60	3.87	2085048.24	2743109.29	N 36 43 48.045	W 107 45 54.081
	395.00	6.00	315.57	394.66	10.81	6.73	-8.66	3.12	2085050.40	2743107.23	N 36 43 48.067	W 107 45 54.106
	426.00	6.60	311.70	425.47	14.09	9.07	-11.12	2.37	2085052.74	2743104.77	N 36 43 48.090	W 107 45 54.137
	457.00	7.18	306.49	456.25	17.74	11.41	-14.01	2.75	2085055.08	2743101.88	N 36 43 48.113	W 107 45 54.172
	488.00	7.63	303.40	486.99	21.70	13.69	-17.29	1.94	2085057.36	2743098.60	N 36 43 48.136	W 107 45 54.212
	519.00	8.15	300.87	517.69	25.95	15.95	-20.89	2.02	2085059.63	2743095.00	N 36 43 48.158	W 107 45 54.256
	550.00	8.73	297.07	548.36	30.50	18.15	-24.87	2.59	2085061.82	2743091.02	N 36 43 48.180	W 107 45 54.305
	582.00	9.25	295.87	579.97	35.49	20.38	-29.35	1.73	2085064.05	2743086.54	N 36 43 48.202	W 107 45 54.360
	614.00	10.05	295.30	611.51	40.85	22.69	-34.19	2.52	2085066.37	2743081.70	N 36 43 48.225	W 107 45 54.420
	646.00	10.52	294.84	643.00	46.56	25.11	-39.36	1.49	2085068.79	2743076.53	N 36 43 48.249	W 107 45 54.483
	678.00	11.23	292.57	674.42	52.57	27.54	-44.89	2.59	2085071.21	2743071.00	N 36 43 48.273	W 107 45 54.551
	709.00	11.88	292.70	704.80	58.76	29.93	-50.62	2.10	2085073.60	2743065.27	N 36 43 48.296	W 107 45 54.622
	741.00	12.40	293.27	736.08	65.46	32.56	-56.82	1.67	2085076.23	2743059.08	N 36 43 48.322	W 107 45 54.698
	773.00	12.93	293.99	767.30	72.45	35.37	-63.24	1.73	2085079.04	2743052.65	N 36 43 48.350	W 107 45 54.777
	805.00	13.43	293.87	798.46	79.73	38.33	-69.91	1.56	2085082.00	2743045.98	N 36 43 48.379	W 107 45 54.858
	837.00	13.90	293.87	829.55	87.27	41.39	-76.83	1.47	2085085.06	2743039.07	N 36 43 48.410	W 107 45 54.943
	868.00	14.27	294.22	859.62	94.79	44.46	-83.72	1.22	2085088.13	2743032.18	N 36 43 48.440	W 107 45 55.028
	900.00	14.68	294.59	890.60	102.77	47.77	-91.00	1.31	2085091.44	2743024.90	N 36 43 48.473	W 107 45 55.117
	932.00	15.18	295.65	921.52	111.00	51.27	-98.46	1.78	2085094.94	2743017.43	N 36 43 48.508	W 107 45 55.209
	964.00	15.75	296.27	952.37	119.53	55.00	-106.13	1.85	2085098.67	2743009.76	N 36 43 48.545	W 107 45 55.303
	995.00	16.20	297.12	982.17	128.06	58.84	-113.76	1.64	2085102.51	2743002.14	N 36 43 48.583	W 107 45 55.397
	1027.00	16.52	298.77	1012.87	137.07	63.06	-121.72	1.76	2085106.73	2742994.18	N 36 43 48.624	W 107 45 55.495
	1059.00	16.83	299.40	1043.53	146.25	67.53	-129.74	1.12	2085111.19	2742986.16	N 36 43 48.669	W 107 45 55.593
	1091.00	17.30	300.87	1074.12	155.64	72.24	-137.86	1.99	2085115.91	2742978.04	N 36 43 48.715	W 107 45 55.693
	1123.00	17.95	301.15	1104.62	165.31	77.23	-146.17	2.05	2085120.90	2742969.73	N 36 43 48.765	W 107 45 55.795
	1155.00	18.40	301.72	1135.02	175.28	82.44	-154.68	1.51	2085126.11	2742961.22	N 36 43 48.816	W 107 45 55.899
	1187.00	18.60	301.47	1165.37	185.41	87.76	-163.33	0.67	2085131.42	2742952.57	N 36 43 48.869	W 107 45 56.006
	1219.00	18.67	299.84	1195.69	195.63	92.97	-172.13	1.64	2085136.64	2742943.78	N 36 43 48.920	W 107 45 56.114
	1283.00	19.10	297.20	1256.24	216.34	102.86	-190.33	1.49	2085146.52	2742925.58	N 36 43 49.018	W 107 45 56.337
	1346.00	19.14	295.88	1315.77	236.96	112.08	-208.79	0.69	2085155.74	2742907.12	N 36 43 49.110	W 107 45 56.564
	1410.00	19.42	295.57	1376.18	258.08	121.25	-227.82	0.47	2085164.91	2742888.08	N 36 43 49.200	W 107 45 56.798
	1474.00	19.88	294.52	1436.45	279.56	130.36	-247.32	0.91	2085174.02	2742868.59	N 36 43 49.291	W 107 45 57.037
	1537.00	20.02	293.87	1495.67	301.01	139.16	-266.93	0.42	2085182.83	2742848.98	N 36 43 49.378	W 107 45 57.278
	1601.00	19.58	295.65	1555.89	322.65	148.24	-286.61	1.17	2085191.90	2742829.30	N 36 43 49.468	W 107 45 57.519
	1664.00	19.40	296.74	1615.28	343.65	157.52	-305.47	0.64	2085201.18	2742810.44	N 36 43 49.560	W 107 45 57.751
	1728.00	19.17	299.02	1675.69	364.78	167.40	-324.16	1.23	2085211.06	2742791.76	N 36 43 49.657	W 107 45 57.980
	1792.00	19.05	300.07	1736.16	385.73	177.73	-342.38	0.57	2085221.39	2742773.53	N 36 43 49.760	W 107 45 58.204
	1855.00	19.73	298.57	1795.59	406.64	187.97	-360.62	1.34	2085231.62	2742755.30	N 36 43 49.861	W 107 45 58.428
	1919.00	19.63	297.37	1855.85	428.19	198.07	-379.65	0.65	2085241.73	2742736.27	N 36 43 49.961	W 107 45 58.662
	1983.00	19.73	296.87	1916.11	449.74	207.90	-398.84	0.31	2085251.55	2742717.08	N 36 43 50.058	W 107 45 58.898
	2047.00	19.52	296.62	1976.39	471.23	217.57	-418.03	0.35	2085261.23	2742697.89	N 36 43 50.154	W 107 45 59.133
	2110.00	19.30	296.65	2035.81	492.16	226.96	-436.75	0.35	2085270.61	2742679.18	N 36 43 50.247	W 107 45 59.363

	2174.00	19.58	298.22	2096.17	513.45	236.77	-455.65	0.93	2085280.43	2742660.28	N 36 43 50.344	W 107 45 59.595
	2270.00	19.38	298.82	2186.67	545.47	252.06	-483.78	0.29	2085295.71	2742632.15	N 36 43 50.496	W 107 45 59.941
	2365.00	19.27	298.49	2276.32	576.90	267.13	-511.37	0.16	2085310.78	2742604.57	N 36 43 50.645	W 107 46 0.279
	2397.00	18.58	299.55	2306.59	587.28	272.17	-520.44	2.41	2085315.82	2742595.49	N 36 43 50.695	W 107 46 0.391
	2429.00	18.73	299.65	2336.91	597.51	277.22	-529.34	0.48	2085320.87	2742586.59	N 36 43 50.745	W 107 46 0.500
	2461.00	18.35	300.62	2367.25	607.68	282.33	-538.14	1.53	2085325.98	2742577.79	N 36 43 50.795	W 107 46 0.608
	2493.00	17.85	299.07	2397.66	617.62	287.28	-546.76	2.17	2085330.93	2742569.17	N 36 43 50.844	W 107 46 0.714
	2525.00	17.80	298.27	2428.13	627.41	291.98	-555.36	0.78	2085335.63	2742560.58	N 36 43 50.891	W 107 46 0.820
	2557.00	18.08	299.82	2458.57	637.27	296.76	-563.97	1.73	2085340.41	2742551.96	N 36 43 50.938	W 107 46 0.925
	2589.00	17.67	300.65	2489.03	647.08	301.71	-572.46	1.51	2085345.36	2742543.48	N 36 43 50.987	W 107 46 1.030
	2621.00	18.08	301.99	2519.48	656.89	306.82	-580.85	1.81	2085350.46	2742535.09	N 36 43 51.038	W 107 46 1.133
	2684.00	19.25	303.27	2579.17	676.99	317.69	-597.82	1.97	2085361.34	2742518.11	N 36 43 51.145	W 107 46 1.341
	2780.00	19.23	301.65	2669.81	708.53	334.67	-624.51	0.56	2085378.31	2742491.43	N 36 43 51.313	W 107 46 1.669
	2876.00	19.20	301.62	2760.46	740.07	351.24	-651.41	0.03	2085394.88	2742464.53	N 36 43 51.478	W 107 46 1.999
Last SLB MWD Survey	2947.00	19.33	303.34	2827.48	763.43	363.82	-671.17	0.82	2085407.46	2742444.77	N 36 43 51.602	W 107 46 2.242
Begin Client Assumed Drop	2947.55	19.31	303.34	2828.00	763.61	363.92	-671.32	3.64	2085407.56	2742444.62	N 36 43 51.603	W 107 46 2.244
End Client Assumed Drop	3591.33	0.00	303.34	3459.66	870.64	422.98	-761.10	3.00	2085466.62	2742354.85	N 36 43 52.188	W 107 46 3.346
Client Assumed TD	7190.00	0.00	303.34	7058.33	870.64	422.98	-761.10	0.00	2085466.62	2742354.85	N 36 43 52.188	W 107 46 3.346

Survey Type: Raw Survey

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00
2947.00

MD To (ft)

2947.00
7190.00

EOU Freq Survey Tool Type

Act-Stns SLB_MWD-STD
Act-Stns SLB_BLIND