Schlumberger
SEPCo

WELL	FIELD	STRUCTURE
OCS-G-2428, NO. A-06 STK 01	HIGH ISLAND BLOCK A350	A PLATFORM - MAKO PROSPECT

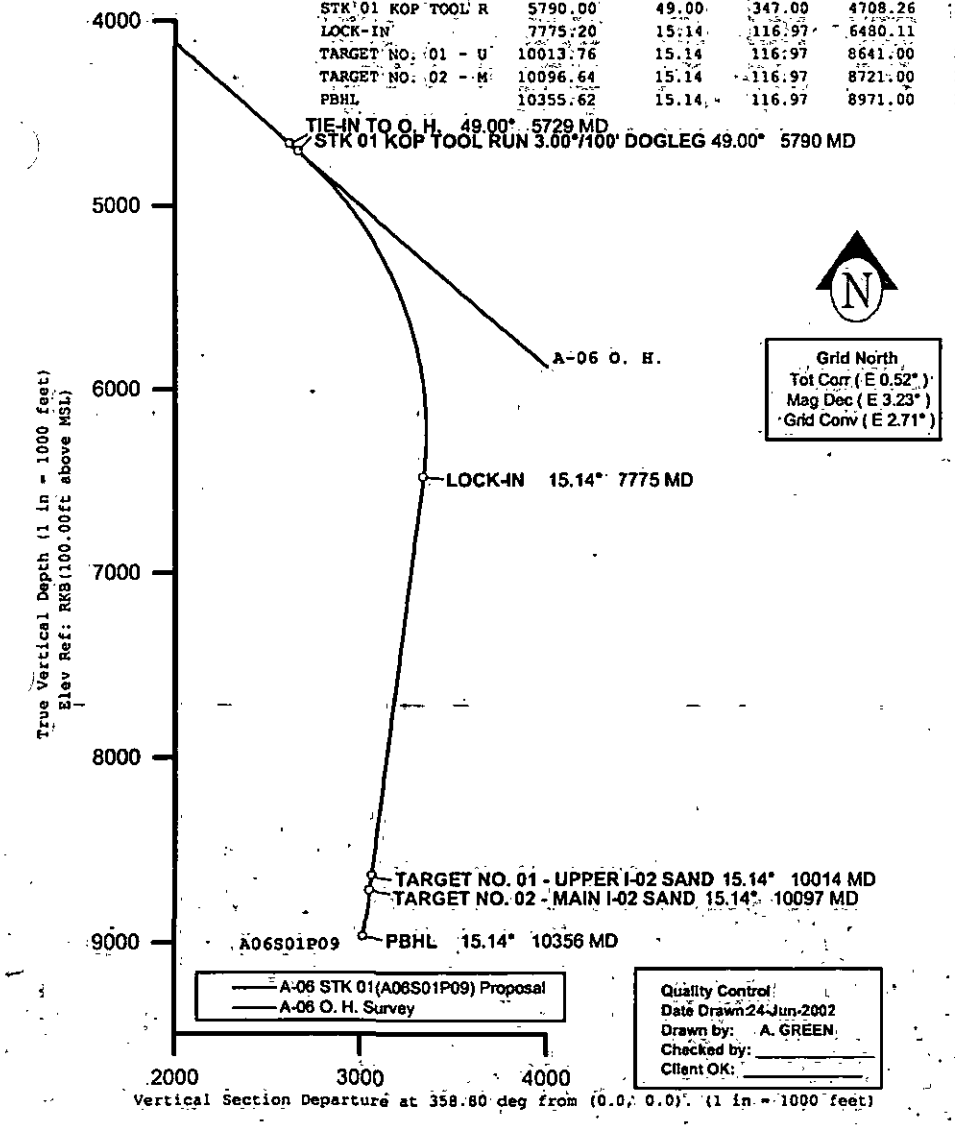
Magnetic Parameters Model: BGGM 2001 Dip: 57.992° Mag Dec: 3.233° Date: June 17, 2002 FS: 47773.4 nT	Surface Location Lat: N28 17.959 Lon: W93 27 30.358 North: 109827.00 ftUS East: 3787589.00 ftUS Grid Conv: 2.7149° Scale Fact:1.0001	Miscellaneous Slot: A-06 Plan# : A06S01P09 Elev Ref: RKB(100.00ft above MSL) Date Drawn: 08:48:44AM 24-Jun-2002

Surface Location: North:109827.00 ftUS, East:3787589.00 ftUS NAD27 Texas State Planes, South Central Zone, US Feet

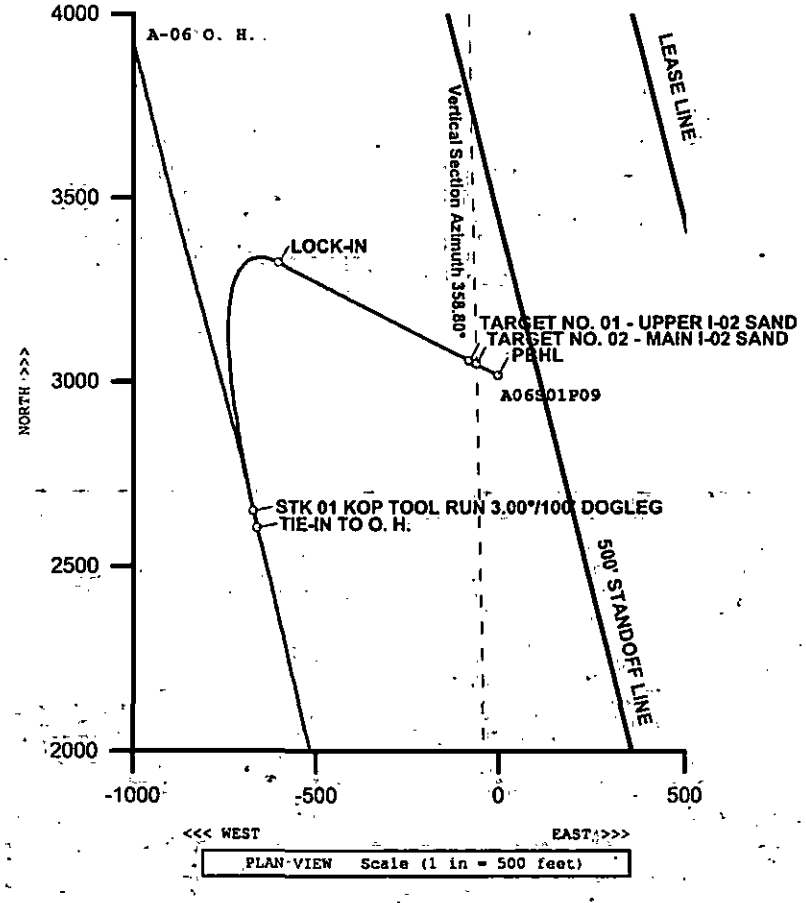
Target Name	Grid Coord N(+)/S(-) ftUS	Grid Coord E(+)/W(-) ftUS	TVD ft	VSEC ft	Local Coord N(+)/S(-) ft	Local Coord E(+)/W(-) ft	Shape	Major Axis
(A06S01P06) TARGET	112875.00	3787550.00	8641.00	3047.77	3047.63	-39.00	Point	
(A06S01P06) TARGET	112875.00	3787550.00	8721.00	3047.77	3047.63	-39.00	Point	

Critical Points	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
TIE-IN TO O. H.	5729.00	49.00	347.00	4668.24	2616.80	2603.49	-662.73	0.00
STK 01 KOP TOOL R	5790.00	49.00	347.00	4708.26	2661.86	2648.35	-673.08	0.00
LOCK-IN	7775.20	15.14	116.97	6480.11	3334.47	3322.55	-604.28	3.00
TARGET NO. 01 - U	10013.76	15.14	116.97	8641.00	3058.51	3057.44	-83.29	0.00
TARGET NO. 02 - M	10096.64	15.14	116.97	8721.00	3048.30	3047.63	-64.00	0.00
PBHL	10355.62	15.14	116.97	8971.00	3016.37	3016.96	-3.73	0.00

Vertical Section View



Quality Control
Date Drawn 24-Jun-2002
Drawn by: A. GREEN
Checked by: _____
Client OK: _____



Schlumberger

Survey Report - Geodetic

Report Date:	24-Jun-2002	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	SEPCo	Vertical Section Azimuth:	358.800°
Field:	HIGH ISLAND BLOCK A350	Vertical Section Origin:	N 0.000 ft, E 0.000 ft
Structure / Slot:	A PLATFORM - MAKO PROSPECT / A-06	TVD Reference Datum:	RKB
Well:	OCS-G-2428, NO. A-06	TVD Reference Elevation:	100.000 ft relative to MSL
Borehole:	SIDETRACK 01(PLANNING 03)	Sea Bed / Ground Level Elevation:	0.000 ft relative to MSL
UWI/API#:		Magnetic Declination:	+3.231°
Survey Name / Date:	A06S01P09 SUR - TD / June 24, 2002	Total Field Strength:	47771.534 nT
Tort / AHD / DDI / ERD ratio:	137.208° / 4208.39 ft / 5.824 / 0.469	Magnetic Dip:	57.992°
Grid Coordinate System:	NAD27 Texas State Planes, South Central Zone, US Feet	Declination Date:	June 24, 2002
Location Lat/Long:	N 28 1 7.959, W 93 27 30.358	Magnetic Declination Model:	BGGM 2001
Location Grid N/E Y/X:	*N 109827.000 ftUS, E 3787589.000 ftUS*	*North Reference:*	*Grid North*
Grid Convergence Angle:	+2.71488378°	Total Corr Mag North -> Grid North:	+0.516°
Grid Scale Factor:	1.00012453	Local Coordinates Referenced To:	Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Grid Coordinates Northing (ftUS)	Grid Coordinates Easting (ftUS)	Geographic Coordinates Latitude	Geographic Coordinates Longitude
	0.00	0.00	0.00	0.00	0.00	0.00	0.00		109827.00	3787589.00	N 28 1 7.959	W 93 27 30.358
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	109827.00	3787589.00	N 28 1 7.959	W 93 27 30.358
	200.00	0.75	302.00	200.00	0.36	0.35	-0.56	0.75	109827.35	3787588.44	N 28 1 7.963	W 93 27 30.364
	300.00	0.75	271.00	299.99	0.74	0.71	-1.76	0.40	109827.71	3787587.24	N 28 1 7.967	W 93 27 30.377
	400.00	0.50	9.00	399.99	1.20	1.15	-2.35	0.96	109828.15	3787586.65	N 28 1 7.972	W 93 27 30.384
	500.00	0.75	341.00	499.98	2.25	2.20	-2.50	0.39	109829.20	3787586.50	N 28 1 7.982	W 93 27 30.385
	600.00	0.75	217.00	599.98	2.36	2.29	-3.10	1.32	109829.29	3787585.90	N 28 1 7.983	W 93 27 30.391
	700.00	0.50	155.00	699.97	1.44	1.38	-3.31	0.68	109828.38	3787585.69	N 28 1 7.974	W 93 27 30.394
	800.00	0.75	182.00	799.96	0.39	0.33	-3.15	0.38	109827.33	3787585.85	N 28 1 7.964	W 93 27 30.393
	900.00	1.00	245.00	899.95	-0.61	-0.70	-3.96	0.94	109826.30	3787585.04	N 28 1 7.954	W 93 27 30.403
	1000.00	0.50	134.00	999.95	-1.28	-1.37	-4.44	1.27	109825.63	3787584.56	N 28 1 7.948	W 93 27 30.408
	1100.00	0.50	218.00	1099.95	-1.92	-2.02	-4.40	0.67	109824.98	3787584.60	N 28 1 7.941	W 93 27 30.408
	1200.00	3.25	340.00	1199.90	0.42	0.30	-5.63	3.54	109827.30	3787583.36	N 28 1 7.965	W 93 27 30.421
	1300.00	6.00	343.00	1299.56	8.14	7.97	-8.13	2.76	109834.97	3787580.87	N 28 1 8.042	W 93 27 30.444
	1400.00	10.00	343.00	1398.57	21.53	21.27	-12.20	4.00	109848.28	3787576.80	N 28 1 8.175	W 93 27 30.483
	1500.00	12.50	341.00	1496.64	40.19	39.81	-18.26	2.53	109866.82	3787570.73	N 28 1 8.362	W 93 27 30.540
	1600.00	14.00	339.00	1593.97	61.87	61.34	-26.12	1.57	109888.35	3787562.87	N 28 1 8.578	W 93 27 30.617
	1700.00	16.75	341.00	1690.39	86.98	86.26	-35.15	2.80	109913.27	3787553.85	N 28 1 8.829	W 93 27 30.704
	1800.00	18.50	341.00	1785.69	115.81	114.89	-45.01	1.75	109941.90	3787543.99	N 28 1 9.117	W 93 27 30.799

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Grid Coordinates Northing (ftUS)	Grid Coordinates Easting (ftUS)	Geographic Coordinates Latitude	Geographic Coordinates Longitude
	1900.00	20.50	343.00	1879.95	147.76	146.64	-55.29	2.11	109973.66	3787533.70	N 28 1 9.436	W 93 27 30.897
	1950.00	20.75	342.00	1926.75	164.67	163.44	-60.59	0.86	109990.46	3787528.40	N 28 1 9.604	W 93 27 30.947
	2104.00	22.50	342.00	2069.90	219.00	217.41	-78.13	1.14	110044.44	3787510.86	N 28 1 10.146	W 93 27 31.114
	2197.00	23.75	342.00	2155.43	253.96	252.15	-89.41	1.34	110079.18	3787499.58	N 28 1 10.495	W 93 27 31.221
	2290.00	24.75	342.00	2240.22	290.53	288.47	-101.22	1.08	110115.51	3787487.77	N 28 1 10.860	W 93 27 31.334
	2383.00	26.00	343.00	2324.25	328.78	326.48	-113.19	1.42	110153.52	3787475.79	N 28 1 11.242	W 93 27 31.447
	2476.00	26.75	343.00	2407.56	368.54	365.99	-125.27	0.81	110193.04	3787463.71	N 28 1 11.638	W 93 27 31.561
	2569.00	28.25	343.00	2490.05	409.85	407.06	-137.83	1.61	110234.11	3787451.16	N 28 1 12.050	W 93 27 31.679
	2662.00	30.00	344.00	2571.29	453.51	450.46	-150.67	1.95	110277.51	3787438.31	N 28 1 12.485	W 93 27 31.799
	2755.00	31.50	345.00	2651.21	499.59	496.28	-163.37	1.70	110323.34	3787425.61	N 28 1 12.944	W 93 27 31.916
	2847.00	33.00	346.00	2729.02	547.37	543.81	-175.65	1.73	110370.87	3787413.33	N 28 1 13.420	W 93 27 32.028
	2940.00	34.75	346.00	2806.23	597.91	594.10	-188.19	1.88	110421.17	3787400.79	N 28 1 13.924	W 93 27 32.141
	3033.00	37.00	343.00	2881.59	650.70	646.59	-202.79	3.07	110473.67	3787386.19	N 28 1 14.450	W 93 27 32.276
	3126.00	39.00	344.00	2954.87	705.92	701.49	-219.04	2.25	110528.57	3787369.93	N 28 1 15.000	W 93 27 32.428
	3219.00	40.50	344.00	3026.37	763.42	758.65	-235.43	1.61	110585.74	3787353.54	N 28 1 15.573	W 93 27 32.581
	3312.00	42.00	345.00	3096.29	822.83	817.74	-251.81	1.76	110644.84	3787337.16	N 28 1 16.165	W 93 27 32.732
	3405.00	43.75	345.00	3164.44	884.28	878.86	-268.18	1.88	110705.97	3787320.78	N 28 1 16.778	W 93 27 32.882
	3498.00	45.00	348.00	3230.92	947.82	942.09	-283.35	2.63	110769.20	3787305.62	N 28 1 17.410	W 93 27 33.018
	3591.00	46.00	349.00	3296.11	1013.08	1007.09	-296.56	1.32	110834.21	3787292.40	N 28 1 18.059	W 93 27 33.131
	3684.00	47.75	350.00	3359.68	1080.06	1073.83	-308.93	2.04	110900.96	3787280.04	N 28 1 18.725	W 93 27 33.233
	3777.00	48.25	351.00	3421.91	1148.45	1141.99	-320.33	0.96	110969.13	3787268.63	N 28 1 19.405	W 93 27 33.325
	3870.00	51.00	350.00	3482.15	1218.54	1211.86	-332.03	3.07	111039.01	3787256.93	N 28 1 20.101	W 93 27 33.418
	3963.00	53.00	347.00	3539.41	1290.63	1283.65	-346.67	3.33	111110.80	3787242.29	N 28 1 20.818	W 93 27 33.543
	4056.00	53.25	347.00	3595.22	1363.45	1356.14	-363.40	0.27	111183.30	3787225.55	N 28 1 21.543	W 93 27 33.691
	4149.00	53.00	347.00	3651.02	1436.27	1428.62	-380.14	0.27	111255.80	3787208.82	N 28 1 22.268	W 93 27 33.840
	4242.00	52.50	347.00	3707.32	1508.74	1500.75	-396.79	0.54	111327.94	3787192.16	N 28 1 22.989	W 93 27 33.987
	4335.00	52.00	347.00	3764.25	1580.71	1572.40	-413.33	0.54	111399.60	3787175.62	N 28 1 23.705	W 93 27 34.134
	4427.00	51.75	347.00	3821.05	1651.56	1642.92	-429.61	0.27	111470.12	3787159.34	N 28 1 24.411	W 93 27 34.278
	4520.00	51.00	347.00	3879.10	1722.68	1713.72	-445.96	0.81	111540.93	3787142.99	N 28 1 25.118	W 93 27 34.423
	4613.00	50.50	346.00	3937.95	1793.04	1783.74	-462.77	0.99	111610.96	3787126.18	N 28 1 25.819	W 93 27 34.573
	4706.00	50.00	346.00	3997.41	1862.77	1853.12	-480.06	0.54	111680.35	3787108.88	N 28 1 26.513	W 93 27 34.729
	4798.00	49.75	347.00	4056.70	1931.50	1921.52	-496.49	0.87	111748.76	3787092.45	N 28 1 27.197	W 93 27 34.876
	4892.00	49.00	346.00	4117.91	2001.20	1990.89	-513.14	1.14	111818.14	3787075.80	N 28 1 27.891	W 93 27 35.025
	4985.00	49.75	346.00	4178.46	2070.04	2059.38	-530.21	0.81	111886.64	3787058.72	N 28 1 28.577	W 93 27 35.179
	5078.00	49.00	346.00	4239.01	2138.87	2127.87	-547.29	0.81	111955.13	3787041.64	N 28 1 29.262	W 93 27 35.333

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Grid Coordinates Northing (ftUS)	Grid Coordinates Easting (ftUS)	Geographic Coordinates Latitude	Geographic Coordinates Longitude
	5171.00	49.25	346.00	4299.87	2207.44	2196.10	-564.30	0.27	112023.37	3787024.63	N 28 1 29.945	W 93 27 35.487
	5264.00	49.00	347.00	4360.74	2276.14	2264.48	-580.72	0.86	112091.76	3787008.21	N 28 1 30.629	W 93 27 35.634
	5357.00	49.00	346.00	4421.75	2344.72	2332.73	-597.10	0.81	112160.01	3786991.82	N 28 1 31.312	W 93 27 35.780
	5450.00	48.50	347.00	4483.07	2413.03	2400.71	-613.43	0.97	112228.01	3786975.50	N 28 1 31.992	W 93 27 35.926
	5543.00	48.25	346.00	4544.85	2480.95	2468.31	-629.66	0.85	112295.61	3786959.27	N 28 1 32.668	W 93 27 36.071
	5636.00	48.25	346.00	4606.77	2548.61	2535.63	-646.44	0.00	112362.94	3786942.48	N 28 1 33.342	W 93 27 36.223
TIE-IN TO O. H.	5729.00	49.00	347.00	4668.24	2616.80	2603.49	-662.73	1.14	112430.81	3786926.19	N 28 1 34.021	W 93 27 36.368
	5790.00	49.00	347.00	4708.26	2661.86	2648.35	-673.08	0.00	112475.67	3786915.83	N 28 1 34.469	W 93 27 36.460
	5829.00	47.86	347.37	4734.14	2690.44	2676.80	-679.56	3.00	112504.13	3786909.36	N 28 1 34.754	W 93 27 36.517
	5929.00	44.95	348.37	4803.09	2761.54	2747.59	-694.79	3.00	112574.93	3786894.12	N 28 1 35.461	W 93 27 36.650
	6029.00	42.05	349.48	4875.62	2829.35	2815.13	-708.03	3.00	112642.48	3786880.88	N 28 1 36.135	W 93 27 36.762
	6129.00	39.16	350.72	4951.53	2893.67	2879.24	-719.24	3.00	112706.59	3786869.67	N 28 1 36.774	W 93 27 36.853
	6229.00	36.29	352.13	5030.62	2954.34	2939.73	-728.39	3.00	112767.09	3786860.52	N 28 1 37.377	W 93 27 36.923
	6329.00	33.43	353.74	5112.67	3011.18	2996.44	-735.45	3.00	112823.80	3786853.46	N 28 1 37.941	W 93 27 36.971
	6429.00	30.60	355.61	5197.45	3064.05	3049.21	-740.40	3.00	112876.58	3786848.51	N 28 1 38.466	W 93 27 36.999
	6529.00	27.80	357.83	5284.74	3112.79	3097.90	-743.23	3.00	112925.28	3786845.68	N 28 1 38.948	W 93 27 37.005
	6629.00	25.04	0.49	5374.29	3157.27	3142.38	-743.94	3.00	112969.77	3786844.97	N 28 1 39.389	W 93 27 36.989
	6729.00	22.35	3.75	5465.85	3197.38	3182.52	-742.51	3.00	113009.91	3786846.40	N 28 1 39.785	W 93 27 36.952
	6829.00	19.73	7.85	5559.18	3232.99	3218.22	-738.96	3.00	113045.62	3786849.95	N 28 1 40.137	W 93 27 36.893
	6929.00	17.23	13.11	5654.02	3264.02	3249.38	-733.30	3.00	113076.77	3786855.61	N 28 1 40.442	W 93 27 36.814
	7029.00	14.92	20.02	5750.12	3290.38	3275.90	-725.53	3.00	113103.30	3786863.38	N 28 1 40.701	W 93 27 36.713
	7129.00	12.88	29.21	5847.20	3311.99	3297.72	-715.68	3.00	113125.13	3786873.23	N 28 1 40.912	W 93 27 36.592
	7229.00	11.27	41.37	5945.00	3328.80	3314.79	-703.79	3.00	113142.19	3786885.13	N 28 1 41.075	W 93 27 36.450
	7329.00	10.29	56.59	6043.25	3340.76	3327.04	-689.87	3.00	113154.45	3786899.05	N 28 1 41.190	W 93 27 36.289
	7429.00	10.13	73.55	6141.69	3347.84	3334.45	-673.97	3.00	113161.86	3786914.95	N 28 1 41.256	W 93 27 36.108
	7529.00	10.83	89.65	6240.04	3350.01	3337.00	-656.13	3.00	113164.41	3786932.79	N 28 1 41.273	W 93 27 35.907
	7629.00	12.24	102.96	6338.04	3347.28	3334.68	-636.40	3.00	113162.09	3786952.52	N 28 1 41.240	W 93 27 35.689
	7729.00	14.14	113.16	6435.41	3339.65	3327.50	-614.84	3.00	113154.91	3786974.08	N 28 1 41.159	W 93 27 35.452
	7775.20	15.14	116.97	6480.11	3334.47	3322.55	-604.28	3.00	113149.95	3786984.65	N 28 1 41.105	W 93 27 35.337
	7829.00	15.14	116.97	6532.04	3327.84	3316.17	-591.76	0.00	113143.58	3786997.17	N 28 1 41.036	W 93 27 35.201
	7929.00	15.14	116.97	6628.57	3315.51	3304.33	-568.48	0.00	113131.74	3787020.45	N 28 1 40.908	W 93 27 34.948
	8029.00	15.14	116.97	6725.10	3303.19	3292.49	-545.21	0.00	113119.89	3787043.72	N 28 1 40.780	W 93 27 34.695
	8129.00	15.14	116.97	6821.63	3290.86	3280.65	-521.94	0.00	113108.05	3787067.00	N 28 1 40.652	W 93 27 34.441
	8229.00	15.14	116.97	6918.16	3278.53	3268.80	-498.66	0.00	113096.20	3787090.28	N 28 1 40.524	W 93 27 34.188
	8329.00	15.14	116.97	7014.69	3266.20	3256.96	-475.39	0.00	113084.36	3787113.55	N 28 1 40.396	W 93 27 33.935

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Grid Coordinates Northing (ftUS)	Grid Coordinates Easting (ftUS)	Geographic Coordinates Latitude	Geographic Coordinates Longitude
	8429.00	15.14	116.97	7111.22	3253.88	3245.12	-452.12	0.00	113072.52	3787136.83	N 28 1 40.268	W 93 27 33.682
	8529.00	15.14	116.97	7207.76	3241.55	3233.28	-428.84	0.00	113060.67	3787160.10	N 28 1 40.140	W 93 27 33.429
	8629.00	15.14	116.97	7304.29	3229.22	3221.43	-405.57	0.00	113048.83	3787183.38	N 28 1 40.012	W 93 27 33.176
	8729.00	15.14	116.97	7400.82	3216.89	3209.59	-382.30	0.00	113036.98	3787206.66	N 28 1 39.884	W 93 27 32.923
	8829.00	15.14	116.97	7497.35	3204.57	3197.75	-359.02	0.00	113025.14	3787229.93	N 28 1 39.756	W 93 27 32.669
	8929.00	15.14	116.97	7593.88	3192.24	3185.91	-335.75	0.00	113013.30	3787253.21	N 28 1 39.628	W 93 27 32.416
	9029.00	15.14	116.97	7690.41	3179.91	3174.06	-312.48	0.00	113001.45	3787276.49	N 28 1 39.500	W 93 27 32.163
	9129.00	15.14	116.97	7786.94	3167.58	3162.22	-289.20	0.00	112989.61	3787299.76	N 28 1 39.372	W 93 27 31.910
	9229.00	15.14	116.97	7883.47	3155.26	3150.38	-265.93	0.00	112977.76	3787323.04	N 28 1 39.244	W 93 27 31.657
	9329.00	15.14	116.97	7980.00	3142.93	3138.53	-242.66	0.00	112965.92	3787346.31	N 28 1 39.116	W 93 27 31.404
	9429.00	15.14	116.97	8076.53	3130.60	3126.69	-219.38	0.00	112954.08	3787369.59	N 28 1 38.988	W 93 27 31.151
	9529.00	15.14	116.97	8173.06	3118.27	3114.85	-196.11	0.00	112942.23	3787392.87	N 28 1 38.860	W 93 27 30.897
	9629.00	15.14	116.97	8269.59	3105.95	3103.01	-172.84	0.00	112930.39	3787416.14	N 28 1 38.731	W 93 27 30.644
	9729.00	15.14	116.97	8366.12	3093.62	3091.16	-149.56	0.00	112918.54	3787439.42	N 28 1 38.603	W 93 27 30.391
	9829.00	15.14	116.97	8462.65	3081.29	3079.32	-126.29	0.00	112906.70	3787462.70	N 28 1 38.475	W 93 27 30.138
	9929.00	15.14	116.97	8559.18	3068.96	3067.48	-103.01	0.00	112894.85	3787485.97	N 28 1 38.347	W 93 27 29.885
	10013.76	15.14	116.97	8641.00	3058.51	3057.44	-83.29	0.00	112884.82	3787505.70	N 28 1 38.239	W 93 27 29.670
	10029.00	15.14	116.97	8655.71	3056.64	3055.64	-79.74	0.00	112883.01	3787509.25	N 28 1 38.219	W 93 27 29.632
	10096.64	15.14	116.97	8721.00	3048.30	3047.63	-64.00	0.00	112875.00	3787524.99	N 28 1 38.133	W 93 27 29.461
	10129.00	15.14	116.97	8752.24	3044.31	3043.79	-56.47	0.00	112871.17	3787532.52	N 28 1 38.091	W 93 27 29.379
	10229.00	15.14	116.97	8848.77	3031.98	3031.95	-33.19	0.00	112859.32	3787555.80	N 28 1 37.963	W 93 27 29.126
	10329.00	15.14	116.97	8945.30	3019.65	3020.11	-9.92	0.00	112847.48	3787579.08	N 28 1 37.835	W 93 27 28.872
	10355.62	15.14	116.97	8971.00	3016.37	3016.96	-3.73	0.00	112844.33	3787585.27	N 28 1 37.801	W 93 27 28.805

Survey Error Model: Wolff & deWardt 2.0000 sigma

Surveying Programme:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
0.00	5729.00	Act-Stns	Poor Mag
5729.00	10355.62	Act-Stns	MWD