

Results of Directional Survey

API number:	30-025-41450		
OGRID:		Operator:	GMT EXPLORATION COMPANY LLC
		Property:	MERCHANT GAP 25 STATE COM # 1H

surface	ULSTR:	M	25	T	22S	R	34E
				40	FSL	350	FWL

BH Loc	ULSTR:	D	25	T	22S	R	34E
15088	MD	10384.3	TVD	353	FNL	357	FWL
				4927	FSL		

Top Perf/OH	ULSTR:	M	25	T	22S	R	34E
10818	MD	10463.2	TVD	695	FSL	381	FWL

Bot Perf/OH	ULSTR:	D	25	T	22S	R	34E
14880	MD	10391.2	TVD	561	FNL	355	FWL
				4719	FSL		

	MD	N/S	E/W	VD
	10791	642.61	30.84	10462.92
TOP PERFS/OH	10818	655.11	31.01	10463.16
	10886	686.59	31.43	10463.75
	14862	4661.03	5.26	10391.73
BOT PERFS/OH	14880	4679.02	5.42	10391.20
	14957	4755.99	6.12	10388.93

NEXT TO LAST	15031	4829.94	6.47	10386.38
LAST READING	15088	4886.90	6.84	10384.33
TD	15088	4886.90	6.84	10384.33

Surface Location	40	FS	350	FW
Projected BHL	4927	FS	357	FW
Location of				
Top Perfs/OH	695	FS	381	FW
Bottom Perfs/OH	4719	FS	355	FW

SUMMARY of Subsurface Locations

Surface Location	M-25-22S-34E	40	FS	350	FW	Vert. Depth
Top Perfs/OH	M-25-22S-34E	695	FS	381	FW	10463.16
Bottom Perfs/OH	D-25-22S-34E	4719	FS	355	FW	10391.20
Projected TD	D-25-22S-34E	4927	FS	357	FW	10384.33

APR 23 2014



GMT Merchant Gap 25 State Com 1H Surveys 0ft - 15088ft MD Survey
Geodetic Report
(Non-Def Survey)



Report Date: March 17, 2014 - 10:05 AM
Client: GMT Exploration
Field: NM Lea County (NAD 83)
Structure / Slot: GMT Merchant Gap 25 State Com 1H / GMT Merchant Gap 25 State Com 1H
Well: GMT Merchant Gap 25 State Com 1H
Borehole: Original Borehole
UWI / API#: McVay 4 / 30-025-41450
Survey Name: GMT Merchant Gap 25 State Com 1H Surveys 0ft - 15088ft MD
Survey Date: February 10, 2014
Tort / AHD / DDI / ERD Ratio: 194.742 ° / 5075.744 ft / 6.154 / 0.485
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 21' 19.93177", W 103° 25' 52.13032"
Location Grid NE Y/X: N 494249.900 RUS, E 819924.800 RUS
CRS Grid Convergence Angle: 0.4829 °
Grid Scale Factor: 0.99999798

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.651 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3435.500 ft above MSL
Seabed / Ground Elevation: 3417.000 ft above MSL
Magnetic Declination: 7.311 °
Total Gravity Field Strength: 998.4964mgn (9.80665 Based)
Total Magnetic Field Strength: 48429.000 nT
Magnetic Dip Angle: 60.254 °
Declination Date: February 10, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4829 °
Total Corr Mag North->Grid North: 6.8284 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	TF (°)
SHL	0.00	0.00	359.65	0.00	-3435.50	0.00	0.00	0.00	0.00	0.00	N/A	494249.90	819924.80	N 32 21 19.93	W 103 25 52.13	234.6M
	142.00	0.10	234.60	142.00	-3293.50	-0.07	-0.07	-0.10	234.60	0.07	0.07	494249.83	819924.70	N 32 21 19.93	W 103 25 52.13	277.6M
	233.00	0.30	277.60	233.00	-3202.50	-0.08	-0.09	-0.40	0.41	257.88	0.26	494249.81	819924.40	N 32 21 19.93	W 103 25 52.14	248.6M
	327.00	0.50	248.60	327.00	-3108.50	-0.20	-0.20	-1.03	1.05	258.81	0.30	494249.70	819923.77	N 32 21 19.93	W 103 25 52.14	296.6M
	444.00	0.70	296.60	443.99	-2991.51	-0.06	-0.07	-2.14	2.14	268.14	0.45	494249.83	819922.66	N 32 21 19.93	W 103 25 52.16	261M
	536.00	0.40	261.00	535.99	-2899.51	0.15	0.13	-2.96	2.96	272.55	0.48	494250.03	819921.84	N 32 21 19.93	W 103 25 52.16	273M
	627.00	0.70	273.00	626.98	-2808.52	0.13	0.11	-3.83	3.83	271.66	0.35	494250.01	819920.97	N 32 21 19.93	W 103 25 52.17	307M
	717.00	0.20	307.00	716.98	-2718.52	0.26	0.23	-4.51	4.51	272.98	0.61	494250.13	819920.29	N 32 21 19.93	W 103 25 52.18	237M
	806.00	0.10	237.00	805.98	-2629.52	0.31	0.29	-4.69	4.70	273.48	0.21	494250.19	819920.11	N 32 21 19.93	W 103 25 52.19	262M
	893.00	0.20	262.00	892.98	-2542.52	0.25	0.22	-4.91	4.91	272.60	0.13	494250.12	819919.89	N 32 21 19.93	W 103 25 52.19	264M
	975.00	0.20	264.00	974.98	-2460.52	0.22	0.19	-5.19	5.20	272.08	0.01	494250.09	819919.61	N 32 21 19.93	W 103 25 52.19	209M
	1069.00	0.00	209.00	1068.98	-2366.52	0.20	0.17	-5.36	5.36	271.83	0.21	494250.07	819919.44	N 32 21 19.93	W 103 25 52.19	319M
	1165.00	0.10	319.00	1164.98	-2270.52	0.27	0.23	-5.41	5.42	272.48	0.10	494250.13	819919.39	N 32 21 19.93	W 103 25 52.19	354M
	1261.00	0.20	354.00	1260.98	-2174.52	0.50	0.46	-5.48	5.50	274.84	0.14	494250.36	819919.32	N 32 21 19.94	W 103 25 52.19	310M
	1357.00	0.40	310.00	1356.98	-2078.52	0.88	0.85	-5.76	5.82	278.36	0.30	494250.75	819919.04	N 32 21 19.94	W 103 25 52.20	261.6M
	1466.00	0.10	261.60	1465.98	-1969.52	1.11	1.08	-6.14	6.24	279.94	0.31	494250.98	819918.66	N 32 21 19.94	W 103 25 52.20	246.6M
	1560.00	0.50	246.60	1559.97	-1875.53	0.94	0.90	-6.60	6.66	277.78	0.43	494250.80	819918.20	N 32 21 19.94	W 103 25 52.21	177.6M
	1656.00	0.20	177.60	1655.97	-1779.53	0.61	0.57	-6.98	7.00	274.66	0.49	494250.47	819917.82	N 32 21 19.94	W 103 25 52.21	246.6M
	1754.00	0.40	246.60	1753.97	-1681.53	0.31	0.26	-7.28	7.29	272.06	0.39	494250.16	819917.52	N 32 21 19.93	W 103 25 52.22	171.6M
	1825.00	0.20	171.60	1824.97	-1610.53	0.09	0.04	-7.49	7.49	270.31	0.56	494249.94	819917.31	N 32 21 19.93	W 103 25 52.22	273.28M
	1960.00	0.28	273.28	1959.97	-1475.53	-0.13	-0.17	-7.79	7.79	268.72	0.28	494249.73	819917.01	N 32 21 19.93	W 103 25 52.22	315.91M
	2056.00	0.45	315.91	2055.97	-1379.53	0.16	0.11	-8.29	8.29	270.76	0.32	494250.01	819916.51	N 32 21 19.93	W 103 25 52.23	305.77M
	2152.00	0.54	305.77	2151.96	-1283.54	0.70	0.65	-8.91	8.94	274.14	0.13	494250.55	819915.89	N 32 21 19.94	W 103 25 52.23	312.09M
	2248.00	0.61	312.09	2247.96	-1187.54	1.31	1.25	-9.66	9.74	277.39	0.10	494251.15	819915.14	N 32 21 19.94	W 103 25 52.24	333.99M
	2344.00	0.75	333.99	2343.95	-1091.55	2.22	2.16	-10.32	10.54	281.83	0.30	494252.06	819914.48	N 32 21 19.95	W 103 25 52.25	337.4M
	2440.00	0.74	337.40	2439.95	-995.55	3.36	3.30	-10.83	11.32	286.93	0.05	494253.20	819913.97	N 32 21 19.97	W 103 25 52.26	349.84M
	2536.00	0.74	349.84	2535.94	-899.56	4.55	4.48	-11.18	12.04	291.84	0.17	494254.38	819913.62	N 32 21 19.98	W 103 25 52.26	OM
	2632.00	0.83	0.00	2631.93	-803.57	5.85	5.78	-11.29	12.68	297.14	0.17	494255.68	819913.51	N 32 21 19.99	W 103 25 52.26	1.91M
	2728.00	0.87	1.91	2727.92	-707.58	7.36	7.29	-11.26	13.41	302.93	0.15	494257.19	819913.54	N 32 21 20.00	W 103 25 52.26	13.03M
	2824.00	1.05	13.03	2823.90	-611.60	9.03	8.96	-11.03	14.21	309.08	0.22	494258.86	819913.77	N 32 21 20.02	W 103 25 52.26	22.27M
	2920.00	1.22	22.27	2919.88	-515.62	10.83	10.76	-10.45	15.00	315.85	0.26	494260.66	819914.35	N 32 21 20.04	W 103 25 52.25	30.38M
	3016.00	1.27	30.38	3015.86	-419.64	12.69	12.63	-9.52	15.82	322.98	0.19	494262.53	819915.28	N 32 21 20.06	W 103 25 52.24	32.57M
	3112.00	1.43	32.57	3111.83	-323.67	14.61	14.55	-8.34	16.78	330.19	0.18	494264.45	819916.46	N 32 21 20.08	W 103 25 52.23	52.7M
	3208.00	2.25	52.70	3207.78	-227.72	16.74	16.71	-6.20	17.82	339.65	1.08	494266.61	819918.60	N 32 21 20.10	W 103 25 52.20	60.13M
	3304.00	3.08	60.13	3303.68	-131.82	19.15	19.13	-2.46	19.29	352.67	0.93	494269.03	819922.34	N 32 21 20.12	W 103 25 52.16	67.75M
	3400.00	2.93	67.75	3399.55	-35.95	21.33	21.35	2.05	21.44	5.48	0.44	494271.25	819926.85	N 32 21 20.14	W 103 25 52.10	74.45M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	TF (°)
	3496.00	2.06	74.45	3495.46	59.96	22.70	22.74	5.98	23.51	14.74	0.95	494272.64	819930.78	N 32 21 20.16	W 103 25 52.06	82.72M
	3592.00	1.37	82.72	3591.41	155.91	23.29	23.35	8.78	24.94	20.61	0.76	494273.25	819933.58	N 32 21 20.16	W 103 25 52.03	102.92M
	3688.00	1.15	102.92	3687.39	251.89	23.21	23.28	10.86	25.68	25.01	0.51	494273.18	819935.66	N 32 21 20.16	W 103 25 52.00	101.5M
	3784.00	1.58	101.50	3783.36	347.86	22.72	22.80	13.09	26.29	29.87	0.45	494272.70	819937.89	N 32 21 20.16	W 103 25 51.98	133.94M
	3880.00	0.35	133.94	3879.35	443.85	22.24	22.33	14.60	26.68	33.18	1.35	494272.23	819939.40	N 32 21 20.15	W 103 25 51.96	244.65M
	3976.00	1.62	244.65	3975.34	539.84	21.46	21.54	13.59	25.47	32.24	1.85	494271.44	819938.39	N 32 21 20.14	W 103 25 51.97	266.1M
	4072.00	1.93	266.10	4071.29	635.79	20.79	20.85	10.75	23.46	27.27	0.76	494270.75	819935.55	N 32 21 20.14	W 103 25 52.00	252.07M
	4168.00	1.41	252.07	4167.25	731.75	20.33	20.38	8.01	21.90	21.46	0.69	494270.28	819932.81	N 32 21 20.13	W 103 25 52.03	240.52M
	4264.00	1.48	240.52	4263.22	827.72	19.37	19.41	5.81	20.26	16.66	0.31	494269.31	819930.61	N 32 21 20.12	W 103 25 52.06	246.62M
	4360.00	1.60	246.62	4359.18	923.68	18.24	18.26	3.50	18.60	10.84	0.21	494268.16	819928.30	N 32 21 20.11	W 103 25 52.09	253.17M
	4456.00	1.58	253.17	4455.15	1019.65	17.34	17.35	1.00	17.38	3.30	0.19	494267.25	819925.80	N 32 21 20.10	W 103 25 52.12	254.77M
	4552.00	1.62	254.77	4551.11	1115.61	16.62	16.61	-1.57	16.68	354.58	0.06	494266.51	819923.23	N 32 21 20.10	W 103 25 52.15	220.8M
	4648.00	2.70	220.80	4647.04	1211.54	14.57	14.54	-4.36	15.18	343.30	1.70	494264.44	819920.44	N 32 21 20.08	W 103 25 52.18	220.13M
	4744.00	3.30	220.13	4742.91	1307.41	10.76	10.72	-7.62	13.15	324.59	0.63	494260.62	819917.18	N 32 21 20.04	W 103 25 52.22	219.96M
	4840.00	1.64	219.96	4838.82	1403.32	7.61	7.55	-10.28	12.76	306.29	1.73	494257.45	819914.52	N 32 21 20.01	W 103 25 52.25	237.48M
	4936.00	1.74	237.48	4934.78	1499.28	5.79	5.72	-12.39	13.65	294.76	0.55	494255.62	819912.41	N 32 21 19.99	W 103 25 52.27	246.02M
	5049.00	1.95	246.02	5047.72	1612.22	4.11	4.01	-15.60	16.11	284.42	0.31	494253.91	819909.20	N 32 21 19.97	W 103 25 52.31	248.5M
	5171.00	1.96	248.50	5169.65	1734.15	2.52	2.40	-19.44	19.58	277.05	0.07	494252.30	819905.36	N 32 21 19.96	W 103 25 52.36	160.69M
	5267.00	1.26	160.69	5265.62	1830.12	0.93	0.81	-20.61	20.63	272.24	2.38	494250.71	819904.19	N 32 21 19.94	W 103 25 52.37	232.28M
	5363.00	0.49	232.28	5361.61	1926.11	-0.32	-0.44	-20.59	20.59	268.77	1.25	494249.46	819904.21	N 32 21 19.93	W 103 25 52.37	4.88M
	5459.00	0.83	4.88	5457.61	2022.11	0.13	0.00	-20.86	20.86	270.00	1.27	494249.90	819903.94	N 32 21 19.93	W 103 25 52.37	331.24M
	5555.00	0.25	331.24	5553.60	2118.10	1.00	0.88	-20.90	20.92	272.40	0.66	494250.78	819903.90	N 32 21 19.94	W 103 25 52.37	33.09M
	5651.00	1.04	33.09	5649.60	2214.10	1.91	1.79	-20.52	20.60	274.98	0.99	494251.69	819904.28	N 32 21 19.95	W 103 25 52.37	62.19M
	5747.00	0.69	62.19	5745.59	2310.09	2.91	2.79	-19.53	19.73	278.13	0.57	494252.69	819905.27	N 32 21 19.96	W 103 25 52.36	19.3M
	5843.00	0.52	19.30	5841.58	2406.08	3.59	3.47	-18.88	19.20	280.41	0.49	494253.37	819905.92	N 32 21 19.97	W 103 25 52.35	78.03M
	5940.00	0.74	78.03	5938.58	2503.08	4.13	4.02	-18.12	18.56	282.49	0.67	494253.92	819906.68	N 32 21 19.97	W 103 25 52.34	83.03M
	6036.00	1.40	83.03	6034.56	2599.06	4.39	4.29	-16.35	16.90	284.69	0.69	494254.19	819908.45	N 32 21 19.98	W 103 25 52.32	69.03M
	6132.00	1.01	69.03	6130.54	2695.04	4.82	4.73	-14.40	15.15	288.19	0.51	494254.63	819910.45	N 32 21 19.98	W 103 25 52.30	109.78M
	6226.00	2.68	109.78	6224.49	2788.99	4.35	4.28	-11.55	12.32	290.34	2.15	494254.18	819913.25	N 32 21 19.98	W 103 25 52.26	96.76M
	6322.00	2.74	96.76	6320.38	2884.88	3.30	3.25	-7.16	7.87	294.43	0.64	494253.15	819917.64	N 32 21 19.96	W 103 25 52.21	65.42M
	6418.00	1.88	65.42	6416.31	2980.81	3.66	3.64	-3.45	5.02	316.50	1.56	494253.54	819921.35	N 32 21 19.97	W 103 25 52.17	59.86M
	6514.00	2.17	59.86	6512.25	3076.75	5.21	5.21	-0.45	5.23	355.07	0.36	494255.11	819924.35	N 32 21 19.98	W 103 25 52.14	116.56M
	6610.00	1.19	116.56	6608.21	3172.71	5.66	5.67	2.01	6.02	19.54	1.89	494255.57	819926.81	N 32 21 19.99	W 103 25 52.11	171.83M
	6706.00	1.52	171.83	6704.19	3268.69	3.95	3.97	3.09	5.03	37.88	1.34	494253.87	819927.89	N 32 21 19.97	W 103 25 52.09	185.13M
	6802.00	1.30	185.13	6800.16	3364.66	1.60	1.62	3.17	3.56	62.89	0.41	494251.52	819927.97	N 32 21 19.95	W 103 25 52.09	185.47M
	6898.00	1.48	185.47	6896.13	3460.63	-0.71	-0.70	2.95	3.04	103.25	0.19	494249.20	819927.75	N 32 21 19.92	W 103 25 52.10	189.68M
	6962.00	1.59	189.68	6960.11	3524.61	-2.41	-2.39	2.73	3.63	131.28	0.25	494247.51	819927.53	N 32 21 19.91	W 103 25 52.10	207.15M
	7057.00	1.45	207.15	7055.08	3619.58	-4.77	-4.76	1.96	5.15	157.67	0.51	494245.14	819926.76	N 32 21 19.88	W 103 25 52.11	272.23M
	7152.00	1.10	272.23	7150.06	3714.56	-5.80	-5.80	0.50	5.82	175.10	1.48	494244.10	819925.30	N 32 21 19.87	W 103 25 52.13	307.81M
	7247.00	1.83	307.81	7245.03	3809.53	-4.82	-4.83	-1.61	5.09	198.46	1.19	494245.07	819923.19	N 32 21 19.88	W 103 25 52.15	349.6M
	7342.00	1.76	349.60	7339.98	3904.48	-2.45	-2.47	-3.07	3.94	231.27	1.35	494247.43	819921.73	N 32 21 19.91	W 103 25 52.17	2.73M
	7437.00	1.96	2.73	7434.93	3999.43	0.61	0.59	-3.26	3.31	280.28	0.49	494250.49	819921.54	N 32 21 19.94	W 103 25 52.17	33.17M
	7532.00	2.10	33.17	7529.88	4094.38	3.68	3.67	-2.23	4.30	328.71	1.13	494253.57	819922.57	N 32 21 19.97	W 103 25 52.16	138.61M
	7626.00	0.96	138.61	7623.85	4188.35	4.53	4.52	-0.77	4.59	350.36	2.69	494254.42	819924.03	N 32 21 19.98	W 103 25 52.14	149.09M
	7721.00	0.59	149.09	7718.85	4283.35	3.51	3.51	0.01	3.51	0.16	0.42	494253.41	819924.81	N 32 21 19.97	W 103 25 52.13	174.34M
	7816.00	0.28	174.34	7813.84	4378.34	2.85	2.85	0.28	2.87	5.68	0.38	494252.75	819925.08	N 32 21 19.96	W 103 25 52.13	258.9M
	7911.00	0.42	258.90	7908.84	4473.34	2.56	2.56	-0.03	2.56	359.22	0.51	494252.46	819924.77	N 32 21 19.96	W 103 25 52.13	131.91M
	8006.00	0.41	131.91	8003.84	4568.34	2.26	2.26	-0.12	2.27	356.87	0.78	494252.16	819924.68	N 32 21 19.95	W 103 25 52.13	138.06M
	8101.00	0.61	138.06	8098.84	4663.34	1.66	1.66	0.47	1.72	15.73	0.22	494251.56	819925.27	N 32 21 19.95	W 103 25 52.12	154.39M
	8196.00	0.19	154.39	8193.83	4758.33	1.14	1.14	0.87	1.44	37.42	0.45	494251.04	819925.67	N 32 21 19.94	W 103 25 52.12	287.34M
	8291.00	0.14	287.34	8288.83	4853.33	1.03	1.03	0.83	1.33	38.78	0.32	494250.93	819925.63	N 32 21 19.94	W 103 25 52.12	154.32M
	8386.00	0.46	154.32	8383.83	4948.33	0.72	0.72	0.89	1.14	50.69	0.59	494250.62	819925.69	N 32 21 19.94	W 103 25 52.12	225.1M
	8481.00	0.42	225.10	8478.83	5043.33	0.13	0.14	0.80	0.82	80.45	0.54	494250.04	819925.60	N 32 21 19.93	W 103 25 52.12	182.53M
	8576.00	0.41	182.53	8573.83	5138.33	-0.45	-0.45	0.54	0.70	129.71	0.32	494249.45	819925.34	N 32 21 19.93	W 103 25 52.12	194.23M
	8671.00	0.59	194.23	8668.83	5233.33	-1.27	-1.26	0.41	1.33	162.16	0.22	494248.64	819925.21	N 32 21 19.92	W 103 25 52.13	185.3M
	8766.00	0.87	185.30	8763.82	5328.32	-2.46	-2.46	0.22	2.47	174.88	0.32	494247.44	819925.02	N 32 21 19.91	W 103 25 52.13	225.37M
	8861.00	1.06	225.37	8858.80	5423.30	-3.79	-3.79	-0.47	3.82	187.10	0.72	494246.11	819924.33	N 32 21 19.89	W 103 25 52.14	231.98M
	8955.00	1.10	231.98	8952.79	5517.29	-4.95	-4.96	-1.80	5.28	199.97	0.14	494244.9				

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	TF (°)
	9429.00	0.83	168.37	9426.69	5991.19	-8.82	-8.88	-9.84	13.25	227.95	1.13	494241.02	819914.96	N 32 21 19.84	W 103 25 52.25	127.75M
	9524.00	0.78	127.75	9521.68	6086.18	-9.89	-9.95	-9.19	13.54	222.74	0.59	494239.95	819915.61	N 32 21 19.83	W 103 25 52.24	166.69M
	9619.00	0.42	166.69	9616.68	6181.18	-10.63	-10.68	-8.60	13.71	218.84	0.55	494239.22	819916.20	N 32 21 19.83	W 103 25 52.23	209.47M
	9714.00	0.40	209.47	9711.68	6276.18	-11.26	-11.31	-8.68	14.26	217.51	0.32	494238.59	819916.12	N 32 21 19.82	W 103 25 52.23	226.15M
	9773.00	0.46	226.15	9770.67	6335.17	-11.60	-11.65	-8.95	14.70	217.54	0.23	494238.25	819915.85	N 32 21 19.82	W 103 25 52.24	224.2M
	9806.00	0.53	224.20	9805.67	6370.17	-11.81	-11.87	-9.17	14.99	217.69	0.21	494238.03	819915.63	N 32 21 19.82	W 103 25 52.24	2.84M
	9840.00	1.58	2.84	9837.67	6402.17	-11.47	-11.53	-9.25	14.78	218.73	6.28	494238.37	819915.55	N 32 21 19.82	W 103 25 52.24	9.26M
	9873.00	5.18	9.26	9870.61	6435.11	-9.55	-9.61	-8.99	13.15	223.09	10.95	494240.29	819915.81	N 32 21 19.84	W 103 25 52.24	9.3M
	9904.00	9.22	9.30	9901.36	6465.86	-5.72	-5.77	-8.36	10.16	235.38	13.03	494244.13	819916.44	N 32 21 19.88	W 103 25 52.23	3.99L
	9936.00	13.18	8.09	9932.74	6497.24	0.42	0.37	-7.43	7.44	272.87	12.40	494250.27	819917.37	N 32 21 19.94	W 103 25 52.22	2.76L
	9968.00	16.33	7.55	9963.68	6528.18	8.48	8.45	-6.33	10.55	323.16	9.85	494258.35	819918.47	N 32 21 20.02	W 103 25 52.20	16.62R
	9999.00	18.67	9.72	9993.24	6557.74	17.69	17.66	-4.92	18.33	344.44	7.84	494267.56	819919.88	N 32 21 20.11	W 103 25 52.19	24.7R
	10031.00	20.73	12.37	10023.37	6587.87	28.26	28.24	-2.84	28.38	354.26	7.02	494278.14	819921.96	N 32 21 20.21	W 103 25 52.16	1.06L
	10062.00	23.07	12.26	10052.13	6616.63	39.54	39.54	-0.37	39.54	359.46	7.55	494289.44	819924.43	N 32 21 20.32	W 103 25 52.13	3.2R
	10094.00	25.71	12.60	10081.27	6645.77	52.42	52.44	2.47	52.50	2.70	8.26	494302.34	819927.27	N 32 21 20.45	W 103 25 52.10	12.19L
	10126.00	28.55	11.32	10109.75	6674.25	66.68	66.71	5.49	66.94	4.70	9.06	494316.61	819930.29	N 32 21 20.59	W 103 25 52.06	19.88L
	10158.00	31.97	9.00	10137.39	6701.89	82.53	82.58	8.32	83.00	5.75	11.29	494332.48	819933.12	N 32 21 20.75	W 103 25 52.03	16.94L
	10190.00	34.75	7.52	10164.11	6728.61	99.93	100.00	10.83	100.58	6.18	9.05	494349.90	819935.63	N 32 21 20.92	W 103 25 51.99	8.95L
	10221.00	37.17	6.89	10189.20	6753.70	117.97	118.06	13.11	118.78	6.34	7.90	494367.96	819937.97	N 32 21 21.10	W 103 25 51.97	3.72R
	10253.00	40.15	7.19	10214.19	6778.69	137.80	137.89	15.57	138.77	6.44	9.33	494387.79	819940.31	N 32 21 21.29	W 103 25 51.94	9.47L
	10284.00	42.46	6.62	10237.47	6801.97	158.09	158.21	18.02	159.23	6.50	7.55	494408.10	819942.82	N 32 21 21.50	W 103 25 51.90	21.07L
	10316.00	45.08	5.20	10260.58	6825.08	180.09	180.22	20.30	181.36	6.43	8.74	494430.12	819945.10	N 32 21 21.71	W 103 25 51.88	66.28L
	10347.00	45.32	4.44	10282.42	6846.92	202.00	202.14	22.14	203.35	6.25	1.90	494452.04	819946.94	N 32 21 21.93	W 103 25 51.85	38.97L
	10379.00	46.41	3.23	10304.71	6869.21	224.91	225.05	23.68	226.30	6.01	4.36	494474.95	819948.48	N 32 21 22.16	W 103 25 51.83	12.21L
	10411.00	49.36	2.39	10326.16	6890.66	248.60	248.76	24.84	250.00	5.70	9.42	494498.66	819949.64	N 32 21 22.39	W 103 25 51.82	61.46L
	10442.00	49.72	1.53	10346.28	6910.78	272.17	272.33	25.64	273.54	5.38	2.41	494522.23	819950.47	N 32 21 22.62	W 103 25 51.80	43.7L
	10474.00	50.59	0.46	10366.78	6931.28	296.73	296.90	26.07	298.04	5.02	3.74	494546.80	819950.87	N 32 21 22.87	W 103 25 51.80	0.96R
	10506.00	53.96	0.53	10386.36	6950.86	322.04	322.20	26.29	323.27	4.66	10.53	494572.10	819951.01	N 32 21 23.12	W 103 25 51.79	11.44R
	10537.00	57.42	1.36	10403.83	6968.33	347.63	347.80	26.71	348.83	4.39	11.38	494597.70	819951.59	N 32 21 23.37	W 103 25 51.78	10.08L
	10569.00	62.84	0.28	10419.76	6984.26	375.36	375.54	27.10	376.51	4.13	17.19	494625.44	819951.90	N 32 21 23.65	W 103 25 51.78	0.65L
	10601.00	69.47	0.20	10432.69	6997.19	404.62	404.79	27.23	405.70	3.85	20.72	494654.69	819952.03	N 32 21 23.93	W 103 25 51.77	0.36R
	10632.00	74.04	0.23	10442.40	7006.90	434.05	434.22	27.34	435.08	3.60	14.74	494684.12	819952.14	N 32 21 24.23	W 103 25 51.77	1.03R
	10664.00	78.97	0.32	10449.86	7014.36	465.15	465.33	27.49	466.14	3.38	15.41	494715.23	819952.29	N 32 21 24.53	W 103 25 51.76	7.88R
	10695.00	82.41	0.80	10454.87	7019.37	495.74	495.91	27.79	496.69	3.21	11.20	494745.81	819952.59	N 32 21 24.84	W 103 25 51.76	7.51R
	10727.00	86.35	1.32	10458.01	7022.51	527.57	527.75	28.38	528.51	3.08	12.42	494777.65	819953.17	N 32 21 25.15	W 103 25 51.75	19.82R
	10759.00	87.32	1.67	10459.77	7024.27	559.50	559.69	29.21	560.45	2.99	3.22	494809.59	819954.01	N 32 21 25.47	W 103 25 51.73	7.12L
	10791.00	87.56	1.64	10461.20	7025.70	591.45	591.64	30.13	592.41	2.92	0.76	494841.54	819954.93	N 32 21 25.78	W 103 25 51.72	58.5L
	10842.00	88.59	359.96	10462.92	7027.42	642.41	642.61	30.84	643.35	2.75	3.86	494892.50	819955.64	N 32 21 26.29	W 103 25 51.71	68.03R
	10886.00	89.24	1.57	10463.75	7028.25	686.39	686.59	31.43	687.31	2.62	3.95	494936.49	819956.23	N 32 21 26.72	W 103 25 51.70	16.47L
	10981.00	91.27	0.97	10463.33	7027.83	781.34	781.56	33.54	782.28	2.46	2.23	495031.46	819958.34	N 32 21 27.66	W 103 25 51.66	126.87L
	11078.00	91.03	0.65	10461.42	7025.92	876.31	876.53	34.88	877.23	2.28	0.42	495126.43	819959.68	N 32 21 28.60	W 103 25 51.64	61.93L
	11170.00	91.68	359.43	10459.20	7023.70	970.28	970.51	34.94	971.14	2.06	1.47	495220.40	819959.74	N 32 21 29.53	W 103 25 51.63	132.51L
	11265.00	91.24	358.95	10456.78	7021.28	1065.24	1065.47	33.60	1066.00	1.81	0.69	495315.36	819958.40	N 32 21 30.47	W 103 25 51.63	127.81L
	11360.00	90.79	358.37	10455.09	7019.59	1160.21	1160.42	31.38	1160.85	1.55	0.77	495410.32	819956.18	N 32 21 31.41	W 103 25 51.65	1.96R
	11455.00	92.54	358.43	10452.33	7016.83	1255.14	1255.34	28.73	1255.67	1.31	1.84	495505.24	819953.53	N 32 21 32.35	W 103 25 51.67	69.41L
	11550.00	92.75	357.87	10447.95	7012.45	1350.01	1350.19	25.67	1350.44	1.09	0.63	495600.09	819950.47	N 32 21 33.29	W 103 25 51.70	143.35R
	11644.00	91.89	358.51	10444.15	7008.65	1443.90	1444.07	22.70	1444.25	0.90	1.14	495693.96	819947.50	N 32 21 34.22	W 103 25 51.72	160.57L
	11736.00	91.55	358.39	10441.38	7005.88	1535.84	1535.99	20.21	1536.12	0.75	0.39	495785.89	819945.01	N 32 21 35.13	W 103 25 51.74	24.84R
	11831.00	92.37	358.77	10438.13	7002.63	1630.77	1630.91	17.86	1631.00	0.63	0.95	495880.80	819942.66	N 32 21 36.07	W 103 25 51.76	151.34R
	11926.00	90.10	0.01	10436.09	7000.59	1725.74	1725.87	16.85	1725.95	0.56	2.72	495975.76	819941.65	N 32 21 37.01	W 103 25 51.76	49.82L
	12021.00	90.48	359.56	10435.61	7000.11	1820.73	1820.87	16.49	1820.94	0.52	0.62	496070.76	819941.29	N 32 21 37.95	W 103 25 51.76	124.79L
	12116.00	90.07	358.97	10435.15	6999.65	1915.73	1915.86	15.27	1915.92	0.46	0.76	496165.75	819940.07	N 32 21 38.89	W 103 25 51.76	163.81R
	12212.00	89.45	359.15	10435.55	7000.05	2011.72	2011.84	13.70	2011.89	0.39	0.67	496261.74	819938.50	N 32 21 39.84	W 103 25 51.77	143.62L
	12306.00	89.07	358.87	10436.77	7001.27	2105.71	2105.82	12.07	2105.86	0.33	0.50	496355.71	819936.87	N 32 21 40.77	W 103 25 51.78	27.95R
	12400.00	91.20	0.00	10436.55	7001.05	2199.70	2199.84	11.15	2199.84	0.29	2.57	496449.70	819935.95	N 32 21 41.70	W 103 25 51.78	80.53L
	12494.00	91.31	359.34	10434.49	6998.99	2293.68	2293.79	10.61	2293.81	0.26	0.71	496543.68	819935.41	N 32 21 42.63	W 103 25 51.78	57.54R
	12589.00	91.99	0.41	10431.75	6996.25	2388.64	2388.74	10.40	2388.77	0.25	1.33	496638.63	819935.20	N 32 21 43.57	W 103 25 51.77	77.88L
	12683.00	92.17	359.57	10428.34	6992.84	2482.57	2482.68	10.38	2482.70	0.24	0.91	496732.57	819935.18	N 32 21 44.50	W 103 25 51.77	114.01R
	12777.00	91.72	0.58	10425.15	6989.65	2576.51	2576.63	10.51	2576.65	0.23	1.18	496826.52	819935.31	N 32 21 45.43	W 103 25 51.75	164.28R
	12872.00	89.73	1.14	10423.95	6988.45	2671.48	2671.60	11.93	2671.63	0.26	2.18	496921.49	819936.73	N 32 21 46.37		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	TF (°)
	13157.00	90.14	359.99	10424.10	6988.60	2956.44	2956.58	14.52	2956.62	0.28	0.34	497206.47	819939.32	N 32 21 49.18	W 103 25 51.67	155.56L
	13251.00	90.03	359.94	10423.96	6988.46	3050.44	3050.58	14.46	3050.62	0.27	0.13	497300.47	819939.26	N 32 21 50.11	W 103 25 51.66	15.86R
	13345.00	91.86	0.46	10422.41	6986.91	3144.42	3144.57	14.79	3144.60	0.27	2.02	497394.45	819939.59	N 32 21 51.04	W 103 25 51.65	115.95R
	13440.00	91.68	0.83	10419.48	6983.98	3239.36	3239.52	15.86	3239.55	0.28	0.43	497489.40	819940.66	N 32 21 51.98	W 103 25 51.63	6.11L
	13534.00	91.96	0.80	10416.49	6980.99	3333.29	3333.46	17.20	3333.50	0.30	0.30	497583.34	819942.00	N 32 21 52.91	W 103 25 51.60	138.14L
	13629.00	90.52	359.51	10414.44	6978.94	3428.26	3428.43	17.45	3428.48	0.29	2.03	497678.32	819942.25	N 32 21 53.85	W 103 25 51.59	141.71L
	13723.00	90.14	359.21	10413.90	6978.40	3522.26	3522.42	16.40	3522.46	0.27	0.52	497772.31	819941.20	N 32 21 54.78	W 103 25 51.59	11.19R
	13819.00	91.10	359.40	10412.86	6977.36	3618.25	3618.41	15.24	3618.44	0.24	1.02	497868.29	819940.04	N 32 21 55.73	W 103 25 51.60	161.57L
	13914.00	90.89	359.33	10411.21	6975.71	3713.23	3713.39	14.19	3713.42	0.22	0.23	497963.27	819938.99	N 32 21 56.67	W 103 25 51.60	19.71R
	14008.00	92.48	359.90	10408.44	6972.94	3807.19	3807.34	13.55	3807.37	0.20	1.80	498057.23	819938.35	N 32 21 57.60	W 103 25 51.60	55.75L
	14103.00	92.65	359.65	10404.19	6968.69	3902.09	3902.25	13.18	3902.27	0.19	0.32	498152.13	819937.98	N 32 21 58.54	W 103 25 51.59	177.84L
	14198.00	90.79	359.58	10401.34	6965.84	3997.05	3997.20	12.54	3997.22	0.18	1.96	498247.08	819937.34	N 32 21 59.48	W 103 25 51.59	55.55L
	14293.00	91.03	359.23	10399.83	6964.33	4092.03	4092.18	11.56	4092.20	0.16	0.45	498342.06	819936.36	N 32 22 0.42	W 103 25 51.59	119.35L
	14388.00	90.58	358.43	10398.50	6963.00	4187.01	4187.15	9.62	4187.16	0.13	0.97	498437.03	819934.42	N 32 22 1.36	W 103 25 51.61	140.33R
	14483.00	90.17	358.77	10397.88	6962.38	4282.00	4282.12	7.30	4282.13	0.10	0.56	498532.00	819932.10	N 32 22 2.30	W 103 25 51.62	99.81R
	14578.00	90.03	359.58	10397.71	6962.21	4376.99	4377.11	5.93	4377.11	0.08	0.87	498626.99	819930.73	N 32 22 3.24	W 103 25 51.63	9.38R
	14672.00	91.24	359.78	10396.67	6961.17	4470.98	4471.10	5.40	4471.10	0.07	1.30	498720.98	819930.20	N 32 22 4.17	W 103 25 51.63	26.56L
	14767.00	91.62	359.59	10394.30	6958.80	4565.95	4566.07	4.88	4566.07	0.06	0.45	498815.95	819929.68	N 32 22 5.11	W 103 25 51.62	96.23R
	14862.00	91.48	0.87	10391.73	6956.23	4660.91	4661.03	5.26	4661.03	0.06	1.35	498910.91	819930.06	N 32 22 6.05	W 103 25 51.61	59.62L
	14957.00	91.89	0.17	10388.93	6953.43	4755.86	4755.99	6.12	4755.99	0.07	0.85	499005.87	819930.92	N 32 22 6.99	W 103 25 51.59	49.62R
Final Survey	15031.00	92.06	0.37	10386.38	6950.88	4829.81	4829.94	6.47	4829.94	0.08	0.35	499079.82	819931.27	N 32 22 7.72	W 103 25 51.58	HS
Proj to TD	15088.00	92.06	0.37	10384.33	6948.83	4886.77	4886.90	6.84	4886.91	0.08	0.00	499136.78	819931.64	N 32 22 8.29	W 103 25 51.57	

Survey Type: Non-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)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	18.500	Act Stns	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / GMT Merchant Gap 25 State Com 1H
	18.500	15031.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / GMT Merchant Gap 25 State Com 1H
	15031.000	15088.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Borehole / GMT Merchant Gap 25 State Com 1H