

**Provide Signature Page for
Directional Survey**

30-015-43623

*Does not go to total depth
of 22927' - provide
complete survey*

Schlumberger

XTO Poker Lake Unit 464H ST01 MWD 0ft-22891 ft Survey Geodetic Report

NM OIL CONSERVATION
ARTESIA DISTRICT

(Def Survey)

DEC 06 2018

RECEIVED

Report Date: November 16, 2018 - 10:28 AM
Client: XTO
Field: NM Eddy County (NAD 27)
Structure / Slot: XTO Poker Lake Unit 464H / XTO Poker Lake Unit 464H
Well: XTO Poker Lake Unit 464H
Borehole: ST01
UWI / API#: Unknown / Unknown
Survey Name: XTO Poker Lake Unit 464H ST01 MWD 0ft-22891 ft
Survey Date: July 13, 2018
Tort / AHD / DDI / ERD Ratio: 506.392 * / 12993.528 ft / 7.104 / 1.097
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 7' 27.65698", W 103° 53' 47.80368"
Location Grid N/E Y/X: N 409234.600 RUS, E 635198.800 RUS
CRS Grid Convergence Angle: 0.2322 *
Grid Scale Factor: 0.99993003
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 191.883 * (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3262.000 ft above MSL
Seabed / Ground Elevation: 3239.000 ft above MSL
Magnetic Declination: 6.874 *
Total Gravity Field Strength: 998.4356mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47944.339 nT
Magnetic Dip Angle: 59.840 *
Declination Date: July 13, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.2322 *
Total Corr Mag North->Grid North: 6.6418 *
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	409234.60	635198.80	N 32 7 27.66	W 103 53 47.80
	119.00	0.20	58.00	119.00	-0.14	0.11	0.18	0.17	58.00	0.21	409234.71	635198.98	N 32 7 27.66	W 103 53 47.80
	209.00	0.50	134.00	209.00	-0.04	-0.08	0.59	0.55	97.65	0.60	409234.52	635199.39	N 32 7 27.66	W 103 53 47.80
	320.00	0.80	123.00	319.99	0.49	-0.84	1.59	0.29	117.79	1.80	409233.76	635200.39	N 32 7 27.65	W 103 53 47.79
	420.00	0.40	278.00	419.99	0.77	-1.17	1.83	1.17	122.59	2.17	409233.43	635200.63	N 32 7 27.65	W 103 53 47.78
	520.00	0.80	290.00	519.98	0.69	-0.88	0.83	0.42	136.81	1.21	409233.72	635199.63	N 32 7 27.65	W 103 53 47.79
	620.00	1.10	313.00	619.97	0.10	0.01	-0.53	0.48	271.20	0.53	409234.61	635198.27	N 32 7 27.66	W 103 53 47.81
	720.00	0.80	313.00	719.96	-0.76	1.14	-1.74	0.30	303.24	2.08	409235.74	635197.06	N 32 7 27.67	W 103 53 47.82
	830.00	0.90	278.00	829.94	-1.10	1.79	-3.16	0.47	299.48	3.63	409236.39	635195.64	N 32 7 27.67	W 103 53 47.84
	920.00	1.80	273.00	919.92	-0.83	1.96	-5.27	1.01	290.38	5.62	409236.56	635193.53	N 32 7 27.68	W 103 53 47.86
	1013.00	2.50	257.83	1012.85	0.22	1.61	-8.71	0.96	280.45	8.86	409236.21	635190.09	N 32 7 27.67	W 103 53 47.90
	1076.00	2.60	265.10	1075.79	1.19	1.20	-11.48	0.54	275.94	11.54	409235.80	635187.32	N 32 7 27.67	W 103 53 47.94
	1170.00	1.99	271.95	1169.72	2.09	1.07	-15.23	0.71	274.01	15.27	409235.67	635183.57	N 32 7 27.67	W 103 53 47.98
	1265.00	1.37	344.88	1264.68	1.36	2.22	-17.18	2.17	277.37	17.32	409236.82	635181.62	N 32 7 27.68	W 103 53 48.00
	1360.00	1.05	32.13	1359.66	-0.46	4.05	-17.01	1.07	283.41	17.49	409238.65	635181.79	N 32 7 27.70	W 103 53 48.00
	1454.00	0.68	80.21	1453.65	-1.48	4.88	-16.01	0.83	286.95	16.73	409239.48	635182.80	N 32 7 27.71	W 103 53 47.99
	1549.00	0.82	55.60	1548.65	-2.18	5.36	-14.89	0.37	289.80	15.82	409239.96	635183.91	N 32 7 27.71	W 103 53 47.98
	1644.00	0.70	35.53	1643.64	-3.20	6.22	-13.99	0.31	293.95	15.31	409240.81	635184.81	N 32 7 27.72	W 103 53 47.97
	1738.00	0.84	14.52	1737.63	-4.42	7.35	-13.48	0.33	298.59	15.36	409241.95	635185.32	N 32 7 27.73	W 103 53 47.96
	1833.00	0.89	23.72	1832.62	-5.83	8.70	-13.01	0.16	303.76	15.65	409243.30	635185.79	N 32 7 27.74	W 103 53 47.95
	1929.00	0.76	11.85	1928.61	-7.20	10.00	-12.58	0.22	308.49	16.08	409244.60	635186.22	N 32 7 27.76	W 103 53 47.95
	2024.00	0.62	6.22	2023.60	-8.34	11.13	-12.40	0.16	311.92	16.66	409245.73	635186.40	N 32 7 27.77	W 103 53 47.95
	2118.00	0.38	10.20	2117.60	-9.16	11.94	-12.29	0.26	314.19	17.14	409246.54	635186.51	N 32 7 27.78	W 103 53 47.95
	2214.00	0.53	4.95	2213.60	-9.92	12.70	-12.19	0.16	316.17	17.61	409247.30	635186.61	N 32 7 27.78	W 103 53 47.94
	2306.00	0.98	7.12	2305.59	-11.12	13.91	-12.06	0.49	319.07	18.41	409248.50	635186.74	N 32 7 27.80	W 103 53 47.94
	2401.00	0.68	358.42	2400.58	-12.48	15.27	-11.97	0.34	321.91	19.41	409249.87	635186.83	N 32 7 27.81	W 103 53 47.94
	2496.00	0.61	342.11	2495.57	-13.47	16.32	-12.14	0.21	323.35	20.34	409250.92	635186.66	N 32 7 27.82	W 103 53 47.94
	2591.00	0.40	156.82	2590.57	-13.64	16.50	-12.17	1.06	323.59	20.50	409251.09	635186.63	N 32 7 27.82	W 103 53 47.94
	2686.00	1.07	172.21	2685.56	-12.53	15.31	-11.92	0.73	322.11	19.40	409249.91	635186.88	N 32 7 27.81	W 103 53 47.94
	2780.00	1.02	174.68	2779.55	-10.90	13.61	-11.72	0.07	319.26	17.96	409248.21	635187.08	N 32 7 27.79	W 103 53 47.94
	2875.00	0.93	157.96	2874.53	-9.46	12.05	-11.35	0.31	316.71	16.56	409246.65	635187.45	N 32 7 27.78	W 103 53 47.94
	2969.00	1.08	164.54	2968.52	-8.04	10.49	-10.83	0.20	314.09	15.08	409245.09	635187.97	N 32 7 27.76	W 103 53 47.93
	3063.00	1.41	150.42	3062.50	-6.38	8.63	-10.02	0.48	310.73	13.23	409243.23	635188.78	N 32 7 27.74	W 103 53 47.92
	3158.00	1.64	131.51	3157.46	-4.84	6.72	-8.43	0.58	308.54	10.78	409241.31	635190.37	N 32 7 27.72	W 103 53 47.90
	3253.00	0.74	156.09	3252.44	-3.67	5.25	-7.16	1.07	306.26	8.88	409239.85	635191.64	N 32 7 27.71	W 103 53 47.89
	3347.00	1.08	153.59	3346.43	-2.48	3.90	-6.52	0.36	300.91	7.60	409238.50	635192.28	N 32 7 27.70	W 103 53 47.88
	3442.00	1.70	147.06	3441.40	-0.78	1.92	-5.36	0.67	289.72	5.69	409236.52	635193.44	N 32 7 27.68	W 103 53 47.87

...XTO Poker Lake Unit 464H\ST01\XTO Poker Lake Unit 464H ST01 MWD 0ft-22891 ft

Comments	MD (R)	Incl (°)	Azim Grid (°)	TVD (R)	VSEC (R)	NS (R)	EW (R)	DLS (°/100R)	Closure Azimuth (°)	Closure (R)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	3537.00	1.90	156.82	3536.35	1.51	-0.71	-3.97	0.38	259.87	4.03	409233.89	635194.83	N 32 7 27.65	W 103 53 47.85
	3632.00	0.81	152.37	3631.33	3.32	-2.75	-3.04	1.15	227.84	4.10	409231.85	635195.76	N 32 7 27.63	W 103 53 47.84
	3726.00	0.31	137.41	3725.32	3.98	-3.53	-2.56	0.55	215.96	4.36	409231.07	635196.24	N 32 7 27.62	W 103 53 47.83
	3821.00	0.31	168.80	3820.32	4.37	-3.97	-2.34	0.18	210.48	4.61	409230.63	635196.46	N 32 7 27.62	W 103 53 47.83
	3915.00	0.57	206.24	3914.32	5.05	-4.64	-2.49	0.40	208.26	5.27	409229.96	635196.31	N 32 7 27.61	W 103 53 47.83
	4010.00	0.46	192.58	4009.31	5.89	-5.43	-2.79	0.17	207.14	6.11	409229.17	635196.01	N 32 7 27.60	W 103 53 47.84
	4105.00	0.50	158.71	4104.31	6.62	-6.19	-2.72	0.30	203.70	6.76	409228.41	635196.08	N 32 7 27.60	W 103 53 47.84
	4200.00	0.39	155.52	4199.31	7.23	-6.87	-2.43	0.12	199.50	7.29	409227.73	635196.37	N 32 7 27.59	W 103 53 47.83
	4294.00	0.54	180.72	4293.31	7.92	-7.61	-2.31	0.27	196.87	7.95	409226.99	635196.49	N 32 7 27.58	W 103 53 47.83
	4388.00	0.32	150.05	4387.30	8.55	-8.28	-2.18	0.33	194.76	8.56	409226.32	635196.62	N 32 7 27.58	W 103 53 47.83
	4483.00	0.26	183.68	4482.30	8.96	-8.72	-2.06	0.19	193.30	8.96	409225.88	635196.74	N 32 7 27.57	W 103 53 47.83
	4577.00	0.07	213.40	4576.30	9.23	-8.98	-2.11	0.22	193.20	9.23	409225.62	635196.69	N 32 7 27.57	W 103 53 47.83
	4672.00	0.07	181.15	4671.30	9.34	-9.09	-2.14	0.04	193.25	9.34	409225.51	635196.66	N 32 7 27.57	W 103 53 47.83
	4767.00	0.35	311.14	4766.30	9.25	-8.96	-2.36	0.42	194.76	9.26	409225.64	635196.44	N 32 7 27.57	W 103 53 47.83
	4860.00	0.31	294.61	4859.30	9.06	-8.67	-2.80	0.11	197.93	9.11	409225.93	635196.00	N 32 7 27.57	W 103 53 47.84
	4955.00	0.28	319.55	4954.30	8.86	-8.38	-3.19	0.14	200.82	8.97	409226.22	635195.61	N 32 7 27.57	W 103 53 47.84
	5049.00	0.48	298.33	5048.30	8.61	-8.02	-3.68	0.26	204.67	8.83	409226.58	635195.12	N 32 7 27.58	W 103 53 47.85
	5144.00	0.28	279.56	5143.29	8.50	-7.79	-4.26	0.25	208.68	8.88	409226.81	635194.54	N 32 7 27.58	W 103 53 47.85
	5238.00	0.35	274.73	5237.29	8.55	-7.73	-4.77	0.08	211.70	9.09	409226.87	635194.03	N 32 7 27.58	W 103 53 47.86
	5333.00	0.39	282.75	5332.29	8.58	-7.64	-5.38	0.07	215.16	9.34	409226.96	635193.42	N 32 7 27.58	W 103 53 47.87
	5427.00	0.51	281.78	5426.29	8.58	-7.48	-6.10	0.13	219.20	9.65	409227.12	635192.70	N 32 7 27.58	W 103 53 47.87
	5522.00	0.37	240.66	5521.28	8.78	-7.54	-6.78	0.35	221.96	10.14	409227.06	635192.02	N 32 7 27.58	W 103 53 47.88
	5616.00	0.98	263.77	5615.28	9.23	-7.78	-7.85	0.70	225.24	11.05	409226.82	635190.95	N 32 7 27.58	W 103 53 47.90
	5709.00	1.74	264.38	5708.25	9.90	-8.00	-10.04	0.82	231.44	12.84	409226.60	635188.76	N 32 7 27.58	W 103 53 47.92
	5803.00	4.18	272.35	5802.12	10.90	-8.00	-14.89	2.63	241.73	16.90	409226.60	635183.92	N 32 7 27.58	W 103 53 47.98
	5897.00	6.83	262.68	5895.68	13.30	-8.58	-23.85	2.98	250.23	25.35	409226.03	635174.95	N 32 7 27.57	W 103 53 48.08
	5991.00	8.94	260.67	5988.78	17.79	-10.47	-36.61	2.26	254.04	38.08	409224.13	635162.20	N 32 7 27.55	W 103 53 48.23
	6084.00	11.51	262.55	6080.30	23.47	-12.85	-52.94	2.79	256.36	54.48	409221.75	635145.86	N 32 7 27.53	W 103 53 48.42
	6179.00	14.31	262.03	6172.89	30.60	-15.70	-73.97	2.95	258.01	75.62	409218.90	635124.84	N 32 7 27.50	W 103 53 48.66
	6272.00	16.38	263.51	6262.57	38.64	-18.78	-98.38	2.27	259.19	100.16	409215.82	635100.42	N 32 7 27.48	W 103 53 48.95
	6366.00	17.57	266.69	6352.47	46.53	-21.10	-125.72	1.61	260.47	127.48	409213.50	635073.09	N 32 7 27.45	W 103 53 49.27
	6460.00	18.79	267.04	6441.78	54.13	-22.70	-155.00	1.30	261.67	156.66	409211.90	635043.81	N 32 7 27.44	W 103 53 49.61
	6554.00	18.72	265.64	6530.79	62.23	-24.63	-185.16	0.48	262.42	186.79	409209.97	635013.65	N 32 7 27.42	W 103 53 49.96
	6648.00	18.08	267.26	6619.98	70.13	-26.47	-214.77	0.87	262.97	216.40	409208.13	634984.04	N 32 7 27.40	W 103 53 50.30
	6742.00	18.99	266.37	6709.11	77.90	-28.14	-244.61	1.01	263.44	246.22	409206.46	634954.21	N 32 7 27.39	W 103 53 50.65
	6835.00	19.28	266.11	6796.97	86.12	-30.14	-275.03	0.33	263.75	276.67	409204.47	634923.79	N 32 7 27.37	W 103 53 51.00
	6929.00	19.78	267.03	6885.56	94.42	-32.01	-306.39	0.62	264.04	308.06	409202.59	634892.43	N 32 7 27.35	W 103 53 51.37
	7024.00	20.10	266.81	6974.87	102.79	-33.75	-338.74	0.35	264.31	340.42	409200.85	634860.08	N 32 7 27.34	W 103 53 51.74
	7118.00	18.28	265.22	7063.64	111.21	-35.88	-369.57	2.01	264.45	371.30	409198.72	634829.26	N 32 7 27.32	W 103 53 52.10
	7213.00	19.23	266.49	7153.59	119.64	-38.08	-400.03	1.09	264.56	401.84	409196.52	634798.80	N 32 7 27.30	W 103 53 52.46
	7307.00	20.01	266.58	7242.14	127.99	-39.99	-431.53	0.83	264.71	433.38	409194.61	634767.30	N 32 7 27.28	W 103 53 52.82
	7402.00	19.53	266.16	7331.54	136.59	-42.02	-463.60	0.53	264.82	465.50	409192.58	634735.23	N 32 7 27.26	W 103 53 53.20
	7497.00	18.53	265.17	7421.34	145.23	-44.36	-494.49	1.11	264.87	496.47	409190.25	634704.35	N 32 7 27.24	W 103 53 53.56
	7592.00	17.57	265.83	7511.67	153.54	-46.67	-523.83	1.03	264.91	525.91	409187.93	634675.01	N 32 7 27.22	W 103 53 53.90
	7687.00	17.84	264.85	7602.17	161.77	-49.02	-552.63	0.42	264.93	554.80	409185.58	634646.21	N 32 7 27.19	W 103 53 54.23
	7781.00	16.69	265.48	7691.93	169.80	-51.38	-580.42	1.24	264.94	582.69	409183.23	634618.42	N 32 7 27.17	W 103 53 54.56
	7876.00	14.91	265.64	7783.34	177.07	-53.38	-606.21	1.87	264.97	608.56	409181.22	634592.63	N 32 7 27.15	W 103 53 54.86
	7971.00	16.35	267.03	7874.82	183.92	-55.00	-631.75	1.57	265.02	634.14	409179.60	634567.09	N 32 7 27.14	W 103 53 55.15
	8066.00	15.62	265.70	7966.15	190.91	-56.65	-657.86	0.86	265.08	660.30	409177.95	634540.99	N 32 7 27.12	W 103 53 55.46
	8160.00	17.09	265.87	8056.34	198.25	-58.60	-684.26	1.56	265.11	686.76	409176.01	634514.59	N 32 7 27.10	W 103 53 55.76
	8255.00	17.62	265.37	8147.02	206.18	-60.76	-712.51	0.58	265.13	715.10	409173.84	634486.34	N 32 7 27.08	W 103 53 56.09
	8350.00	17.75	262.43	8237.53	215.09	-63.83	-741.20	0.95	265.08	743.94	409170.77	634457.65	N 32 7 27.05	W 103 53 56.43
	8452.00	20.31	265.45	8333.95	225.28	-67.29	-774.26	2.69	265.03	777.18	409167.32	634424.59	N 32 7 27.02	W 103 53 56.81
	8547.00	19.07	265.99	8423.39	234.20	-69.68	-806.18	1.32	265.06	809.19	409164.93	634392.68	N 32 7 27.00	W 103 53 57.18
	8641.00	19.73	268.82	8512.06	241.99	-71.08	-837.37	1.22	265.15	840.38	409163.53	634361.49	N 32 7 26.99	W 103 53 57.54
	8736.00	19.96	269.89	8601.42	248.98	-71.44	-869.61	0.45	265.30	872.54	409163.16	634329.25	N 32 7 26.98	W 103 53 57.92
	8830.00	19.45	269.57	8689.91	255.65	-71.59	-901.31	0.55	265.46	904.15	409163.02	634297.56	N 32 7 26.98	W 103 53 58.29
	8925.00	18.54	268.98	8779.74	262.40	-71.98	-932.22	0.98	265.59	935.00	409162.63	634266.64	N 32 7 26.98	W 103 53 58.65
	9020.00	17.23	267.90	8870.15	269.17	-72.76	-961.39	1.42	265.67	964.14	409161.84	634237.48	N 32 7 26.98	W 103 53 58.99
	9115.00	16.76	265.52	8961.00	276.43	-74.35	-989.10	0.88	265.70	991.89	409160.26	634209.77	N 32 7 26.96	W 103 53 59.31
	9209.00	18.22	267.29	9050.65	283.95	-76.10	-1017.30	1.65	265.72	1020.14	409158.51	634181.58	N 32 7 26.94	W 103 53 59.64
	9303.00	16.95	267.73	9140.26	291.01	-77.34	-1045.67	1.36	265.77	1048.52	409157.27	634153.21	N 32 7 26.93	W 103 53 59.97
	9398.00	17.60	263.36	9230.97	298.96	-79.55	-1073.77	1.53	265.76	1076.71	409155.06	634125.10	N 32 7 26.91	W 103 54 0.29
	9493.00	17.38	261.80	9321.58	308.39	-83.23	-1102.08	0.55	265.68	1105.22	409151.37	634096.80	N 32 7 26.88	W 103 54 0.62
	9588.00	17.78	264.40	9412.15	317.62	-86.67	-1130.56	0.93	265.62	1133.88	409147.94	634068.32	N 32 7 26.84	W 103 54 0.95
	9682.00	18.97	268.37	9501.36	325.50	-88.51	-1160.12	1.84	265.64	1163.49	409146.10	634038.76	N 32 7 26.83	W 103 54 1.30
	9777.00	18.02	267.76	9591.45	332.70	-89.52	-1190.24	1.02	265.70	1193.60	409145.09	634008.65	N 32 7 26.82	W 103 54 1.65
	9871.00	17.14	269.58	9681.06	339.20	-90.19	-1218.62	1.10	265.77	1221.95	409144.42	633980.27	N 32 7 26.81	W 103 54 1.98

...XTO Poker Lake Unit 464H ST01 XTO Poker Lake Unit 464H ST01 MWD 0ft-22891 ft

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	9966.00	16.31	270.92	9772.04	344.72	-90.08	-1245.95	0.96	265.86	1249.21	409144.53	633952.93	N 32 7 26.82	W 103 54 2.30
	10061.00	14.28	268.36	9863.67	349.99	-90.20	-1271.01	2.25	265.94	1274.20	409144.41	633927.88	N 32 7 26.82	W 103 54 2.59
	10156.00	13.03	264.90	9955.98	355.86	-91.49	-1293.39	1.57	265.95	1296.62	409143.12	633905.51	N 32 7 26.80	W 103 54 2.85
	10250.00	14.34	259.49	10047.32	363.39	-94.55	-1315.39	1.95	265.89	1318.78	409140.06	633883.51	N 32 7 26.77	W 103 54 3.10
	10345.00	16.23	265.73	10138.96	371.57	-97.69	-1340.20	2.63	265.83	1343.75	409136.92	633858.70	N 32 7 26.74	W 103 54 3.39
	10439.00	16.99	269.95	10229.04	378.06	-98.68	-1367.03	1.52	265.87	1370.59	409135.93	633831.86	N 32 7 26.74	W 103 54 3.70
	10533.00	16.97	270.58	10318.94	383.59	-98.55	-1394.49	0.20	265.96	1397.96	409136.06	633804.42	N 32 7 26.74	W 103 54 4.02
	10628.00	17.64	271.97	10409.64	388.79	-97.91	-1422.73	0.83	266.06	1426.10	409136.69	633776.17	N 32 7 26.74	W 103 54 4.35
	10722.00	18.99	270.61	10498.88	394.23	-97.26	-1452.26	1.51	266.17	1455.52	409137.34	633746.64	N 32 7 26.75	W 103 54 4.69
	10816.00	19.86	274.70	10587.53	399.22	-95.79	-1483.47	1.72	266.31	1486.56	409138.82	633715.44	N 32 7 26.77	W 103 54 5.06
	10910.00	22.80	270.33	10675.09	404.86	-94.38	-1517.61	3.55	266.44	1520.54	409140.23	633681.30	N 32 7 26.78	W 103 54 5.45
	11004.00	22.42	268.51	10761.86	412.66	-94.74	-1553.74	0.85	266.51	1556.63	409139.87	633645.17	N 32 7 26.78	W 103 54 5.87
	11098.00	22.49	266.40	10848.74	421.60	-96.33	-1589.60	0.86	266.53	1592.52	409138.27	633609.31	N 32 7 26.77	W 103 54 6.29
	11152.00	21.88	265.23	10898.74	427.24	-97.82	-1609.94	1.39	266.52	1612.91	409136.79	633588.98	N 32 7 26.75	W 103 54 6.53
	11192.00	21.44	264.93	10935.92	431.51	-99.08	-1624.65	1.13	266.51	1627.67	409135.52	633574.27	N 32 7 26.74	W 103 54 6.70
	11223.00	22.08	264.11	10964.71	434.94	-100.18	-1636.09	2.29	266.50	1639.15	409134.42	633562.83	N 32 7 26.73	W 103 54 6.83
	11255.00	24.78	263.79	10994.07	438.86	-101.53	-1648.74	8.45	266.48	1651.86	409133.08	633550.18	N 32 7 26.72	W 103 54 6.98
	11286.00	24.73	262.65	11022.22	443.02	-103.06	-1661.63	1.55	266.45	1664.82	409131.55	633537.29	N 32 7 26.70	W 103 54 7.13
	11318.00	24.99	260.99	11051.25	447.63	-104.97	-1674.94	2.33	266.41	1678.23	409129.63	633523.98	N 32 7 26.68	W 103 54 7.28
	11350.00	27.57	261.78	11079.94	452.59	-107.09	-1688.95	8.14	266.37	1692.34	409127.52	633509.97	N 32 7 26.66	W 103 54 7.45
	11381.00	30.52	264.23	11107.04	457.44	-108.91	-1703.89	10.26	266.34	1707.36	409125.70	633495.04	N 32 7 26.65	W 103 54 7.62
	11413.00	33.24	265.33	11134.21	462.41	-110.44	-1720.72	8.69	266.33	1724.26	409124.17	633478.21	N 32 7 26.63	W 103 54 7.82
	11444.00	35.27	266.40	11159.84	467.22	-111.69	-1738.12	6.83	266.32	1741.70	409122.91	633460.81	N 32 7 26.62	W 103 54 8.02
	11476.00	35.90	265.31	11185.86	472.36	-113.04	-1756.69	2.79	266.32	1760.32	409121.57	633442.24	N 32 7 26.61	W 103 54 8.24
	11507.00	37.86	264.03	11210.66	477.87	-114.77	-1775.21	6.79	266.30	1778.92	409119.83	633423.72	N 32 7 26.59	W 103 54 8.45
	11539.00	41.37	264.43	11235.30	484.05	-116.82	-1795.51	11.00	266.28	1799.31	409117.79	633403.42	N 32 7 26.57	W 103 54 8.69
	11570.00	44.04	263.84	11258.08	490.46	-118.97	-1816.42	8.71	266.25	1820.31	409115.64	633382.51	N 32 7 26.55	W 103 54 8.93
	11602.00	44.57	264.21	11280.98	497.32	-121.30	-1838.65	1.84	266.23	1842.65	409113.31	633360.28	N 32 7 26.53	W 103 54 9.19
	11633.00	43.98	261.41	11303.18	504.39	-124.00	-1860.12	6.59	266.19	1864.25	409110.60	633338.82	N 32 7 26.50	W 103 54 9.44
	11665.00	43.31	257.25	11326.34	512.85	-128.09	-1881.81	9.21	266.11	1886.17	409108.52	633317.12	N 32 7 26.46	W 103 54 9.69
	11697.00	42.40	251.79	11349.81	522.84	-133.88	-1902.77	11.95	265.98	1907.48	409100.73	633296.16	N 32 7 26.41	W 103 54 9.93
	11728.00	40.51	246.27	11373.05	533.95	-141.20	-1921.93	13.27	265.80	1927.11	409093.41	633277.01	N 32 7 26.34	W 103 54 10.16
	11759.00	40.67	242.17	11396.59	546.26	-149.97	-1940.08	8.62	265.58	1945.87	409084.64	633258.86	N 32 7 26.25	W 103 54 10.37
	11791.00	42.04	239.07	11420.61	560.21	-160.35	-1958.50	7.70	265.32	1965.05	409074.26	633240.44	N 32 7 26.15	W 103 54 10.58
	11822.00	43.47	235.24	11443.38	575.02	-171.77	-1976.16	9.57	265.03	1983.62	409062.85	633222.78	N 32 7 26.04	W 103 54 10.79
	11853.00	43.73	229.72	11465.84	591.24	-184.78	-1993.11	12.31	264.70	2001.65	409049.83	633205.84	N 32 7 25.91	W 103 54 10.99
	11885.00	44.86	227.74	11488.74	609.13	-199.52	-2009.90	5.58	264.33	2019.78	409035.09	633189.05	N 32 7 25.76	W 103 54 11.18
	11916.00	43.87	222.75	11510.91	627.01	-214.50	-2025.55	7.46	263.95	2036.88	409020.11	633173.39	N 32 7 25.61	W 103 54 11.37
	11947.00	43.23	222.60	11533.38	645.16	-229.95	-2040.30	5.21	263.57	2053.22	409004.67	633158.64	N 32 7 25.46	W 103 54 11.54
	11979.00	44.28	220.69	11556.49	664.37	-246.49	-2055.00	5.27	263.16	2069.73	408988.13	633143.94	N 32 7 25.30	W 103 54 11.71
	12010.00	47.02	220.27	11578.16	683.84	-263.35	-2069.39	8.89	262.75	2086.08	408971.27	633129.56	N 32 7 25.13	W 103 54 11.88
	12042.00	49.00	219.31	11599.57	704.86	-281.62	-2084.61	6.58	262.31	2103.55	408953.00	633114.34	N 32 7 24.95	W 103 54 12.06
	12073.00	50.59	219.50	11619.58	725.85	-299.92	-2099.64	5.15	261.87	2120.95	408934.70	633099.31	N 32 7 24.77	W 103 54 12.23
	12105.00	53.38	217.82	11639.28	748.36	-319.60	-2115.38	9.65	261.41	2139.39	408915.02	633083.57	N 32 7 24.58	W 103 54 12.42
	12137.00	55.17	215.09	11657.97	771.98	-340.50	-2130.81	8.90	260.92	2157.84	408894.12	633068.14	N 32 7 24.37	W 103 54 12.60
	12168.00	54.87	211.96	11675.74	795.59	-361.67	-2144.84	8.33	260.43	2175.11	408872.96	633054.12	N 32 7 24.16	W 103 54 12.76
	12200.00	54.30	209.93	11694.29	820.23	-384.03	-2158.25	5.47	259.91	2192.15	408850.59	633040.71	N 32 7 23.94	W 103 54 12.92
	12232.00	56.19	209.61	11712.53	845.25	-406.85	-2171.30	5.96	259.39	2209.09	408827.78	633027.66	N 32 7 23.72	W 103 54 13.07
	12263.00	59.42	209.26	11729.05	870.26	-429.70	-2184.19	10.46	258.87	2226.05	408804.93	633014.77	N 32 7 23.49	W 103 54 13.22
	12295.00	63.55	208.97	11744.32	897.11	-454.26	-2197.86	12.93	258.32	2244.32	408780.37	633001.09	N 32 7 23.25	W 103 54 13.38
	12326.00	63.92	209.53	11758.04	923.64	-478.51	-2211.45	2.01	257.79	2262.63	408756.12	632987.51	N 32 7 23.01	W 103 54 13.54
	12358.00	64.13	208.29	11772.05	951.15	-503.70	-2225.35	3.54	257.25	2281.65	408730.94	632973.61	N 32 7 22.76	W 103 54 13.70
	12389.00	64.90	205.80	11785.39	978.16	-528.62	-2238.08	7.66	256.71	2299.66	408706.02	632960.89	N 32 7 22.52	W 103 54 13.85
	12421.00	66.58	201.39	11798.55	1006.72	-555.35	-2249.74	13.62	256.13	2317.27	408679.29	632949.22	N 32 7 22.25	W 103 54 13.99
	12453.00	67.62	198.50	11811.00	1035.90	-583.05	-2259.79	8.93	255.53	2333.80	408651.59	632939.17	N 32 7 21.98	W 103 54 14.11
	12484.00	69.73	193.66	11822.28	1064.69	-610.79	-2267.78	16.06	254.93	2348.59	408623.85	632931.08	N 32 7 21.70	W 103 54 14.20
	12516.00	74.69	193.37	11832.05	1095.13	-640.41	-2274.90	15.52	254.28	2363.32	408594.24	632924.07	N 32 7 21.41	W 103 54 14.29
	12547.00	80.15	195.52	11838.80	1125.35	-669.69	-2282.45	18.87	253.65	2378.67	408564.96	632916.52	N 32 7 21.12	W 103 54 14.37
	12578.00	85.71	196.21	11842.62	1156.02	-699.27	-2290.85	18.07	253.03	2395.20	408535.38	632908.11	N 32 7 20.83	W 103 54 14.47
	12610.00	88.61	191.02	11844.20	1187.96	-730.32	-2298.37	18.56	252.37	2411.62	408504.33	632900.59	N 32 7 20.52	W 103 54 14.56
	12641.00	88.21	186.72	11845.06	1218.89	-760.93	-2303.15	13.93	251.72	2425.60	408473.72	632895.82	N 32 7 20.22	W 103 54 14.62
	12766.00	91.51	181.59	11845.37	1342.70	-885.54	-2312.20	4.88	249.04	2475.98	408349.12	632886.76	N 32 7 18.99	W 103 54 14.73
	12860.00	90.15	178.17	11844.01	1434.62	-979.52	-2312.01	3.91	247.04	2510.94	408255.15	632886.96	N 32 7 18.06	W 103 54 14.73
Sidetrack Tie in	12954.00	88.67	177.84	11844.97	1525.87	-1073.45	-2308.73	1.61	245.06	2546.09	408161.22	632890.23	N 32 7 17.13	W 103 54 14.70
	13020.00	89.93	178.69	11845.78	1590.00	-1139.42	-2306.74	2.30	243.71	2572.80	408095.27	632892.23	N 32 7 16.47	W 103 54 14.68
	13039.00	88.26	179.57	11846.08	1608.53	-1158.41	-2306.45	9.93	243.33	2581.01	408076.27	632892.52	N 32 7	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	13321.00	91.43	181.94	11842.96	1886.40	-1440.13	-2317.06	0.78	238.14	2728.14	407794.57	632881.90	N 32 7 13.50	W 103 54 14.81
	13415.00	89.10	182.29	11842.52	1979.03	-1534.06	-2320.53	2.51	236.53	2781.76	407700.65	632878.43	N 32 7 12.57	W 103 54 14.86
	13509.00	88.00	180.53	11844.90	2071.43	-1628.00	-2322.85	2.21	234.97	2836.54	407606.72	632876.12	N 32 7 11.64	W 103 54 14.89
	13602.00	92.84	185.10	11844.22	2163.21	-1720.83	-2327.41	7.16	233.52	2894.49	407513.90	632871.56	N 32 7 10.72	W 103 54 14.95
	13697.00	88.13	181.76	11843.41	2257.14	-1815.61	-2333.09	6.08	232.11	2956.31	407419.12	632865.88	N 32 7 9.78	W 103 54 15.02
	13791.00	88.31	182.11	11846.33	2349.68	-1909.52	-2336.26	0.42	230.74	3017.34	407325.22	632862.71	N 32 7 8.85	W 103 54 15.06
	13885.00	90.37	184.05	11847.42	2442.56	-2003.36	-2341.31	3.01	229.45	3081.43	407231.38	632857.66	N 32 7 7.93	W 103 54 15.12
	13980.00	92.31	185.54	11845.20	2536.80	-2098.00	-2349.25	2.57	228.23	3149.69	407136.75	632849.72	N 32 7 6.99	W 103 54 15.22
	14074.00	89.27	184.75	11843.90	2630.13	-2191.60	-2357.68	3.34	227.09	3218.97	407043.16	632841.29	N 32 7 6.06	W 103 54 15.32
	14169.00	90.46	181.94	11844.12	2724.06	-2286.43	-2363.22	3.21	225.95	3288.24	406948.34	632835.75	N 32 7 5.13	W 103 54 15.39
	14263.00	88.44	177.90	11845.03	2815.99	-2380.40	-2363.09	4.80	224.79	3354.17	406854.37	632835.88	N 32 7 4.20	W 103 54 15.39
	14357.00	93.36	180.27	11843.55	2907.61	-2474.34	-2361.59	5.81	223.66	3420.45	406760.44	632837.38	N 32 7 3.27	W 103 54 15.38
	14451.00	88.40	174.38	11842.11	2998.51	-2568.15	-2357.20	8.19	222.55	3485.94	406666.63	632841.77	N 32 7 2.34	W 103 54 15.33
	14545.00	90.90	174.99	11842.68	3088.30	-2661.74	-2348.49	2.74	221.42	3549.69	406573.05	632850.47	N 32 7 1.41	W 103 54 15.23
	14640.00	92.40	175.70	11839.94	3179.33	-2756.38	-2340.79	1.75	220.34	3616.21	406478.41	632858.18	N 32 7 0.47	W 103 54 15.15
	14734.00	91.43	174.73	11836.80	3269.33	-2850.00	-2332.95	1.46	219.30	3683.09	406384.80	632866.02	N 32 6 59.55	W 103 54 15.06
	14828.00	88.66	172.71	11836.73	3358.63	-2943.42	-2322.67	3.65	218.28	3749.47	406291.39	632876.30	N 32 6 58.62	W 103 54 14.95
	14922.00	89.36	171.92	11838.35	3447.19	-3036.56	-2310.10	1.12	217.26	3815.40	406198.25	632888.86	N 32 6 57.70	W 103 54 14.81
	15016.00	90.51	171.74	11838.46	3535.49	-3129.61	-2296.74	1.24	216.27	3881.94	406105.22	632902.22	N 32 6 56.78	W 103 54 14.65
	15110.00	90.64	174.03	11837.52	3624.36	-3222.87	-2285.10	2.44	215.34	3950.77	406011.96	632913.86	N 32 6 55.86	W 103 54 14.52
	15205.00	87.96	177.10	11838.68	3715.50	-3317.56	-2277.76	4.29	214.47	4024.23	405917.28	632921.21	N 32 6 54.92	W 103 54 14.44
	15299.00	90.99	184.14	11839.54	3807.62	-3411.48	-2278.78	8.15	213.74	4102.56	405823.36	632920.19	N 32 6 53.99	W 103 54 14.46
	15393.00	88.40	181.50	11840.04	3900.43	-3505.35	-2283.40	3.93	213.08	4183.47	405729.50	632915.56	N 32 6 53.06	W 103 54 14.52
	15488.00	90.20	182.29	11841.20	3993.98	-3600.29	-2286.54	2.07	212.42	4265.01	405634.57	632912.42	N 32 6 52.12	W 103 54 14.56
	15582.00	88.84	179.39	11841.99	4086.22	-3694.26	-2287.92	3.41	211.77	4345.36	405540.60	632911.05	N 32 6 51.19	W 103 54 14.58
	15676.00	93.05	183.26	11840.44	4178.58	-3788.18	-2290.09	6.08	211.15	4426.61	405446.69	632908.88	N 32 6 50.26	W 103 54 14.61
	15770.00	90.73	181.94	11837.34	4271.29	-3882.03	-2294.35	2.84	210.58	4509.34	405352.85	632904.62	N 32 6 49.33	W 103 54 14.66
	15864.00	88.70	181.41	11837.80	4363.79	-3975.98	-2297.10	2.23	210.02	4591.85	405258.90	632901.87	N 32 6 48.40	W 103 54 14.70
	15958.00	90.86	183.08	11838.17	4456.46	-4069.90	-2300.78	2.90	209.48	4675.22	405164.99	632898.19	N 32 6 47.47	W 103 54 14.74
	16053.00	90.37	180.09	11837.15	4549.91	-4164.85	-2303.41	3.19	208.95	4759.37	405070.05	632895.56	N 32 6 46.54	W 103 54 14.78
	16146.00	90.42	180.18	11836.50	4640.96	-4257.84	-2303.63	0.11	208.41	4841.07	404977.06	632895.34	N 32 6 45.61	W 103 54 14.79
	16241.00	90.07	181.15	11836.10	4734.14	-4352.84	-2304.73	1.09	207.90	4925.34	404882.08	632894.24	N 32 6 44.67	W 103 54 14.80
	16335.00	88.26	179.04	11837.47	4826.14	-4446.82	-2304.88	2.96	207.40	5008.66	404788.10	632894.08	N 32 6 43.74	W 103 54 14.81
	16429.00	90.55	180.62	11838.44	4918.05	-4540.80	-2304.61	2.96	206.91	5092.16	404694.12	632894.36	N 32 6 42.81	W 103 54 14.81
	16523.00	89.19	179.13	11838.66	5009.99	-4634.80	-2304.40	2.15	206.44	5176.06	404600.14	632894.57	N 32 6 41.88	W 103 54 14.81
	16617.00	91.21	179.21	11838.33	5101.68	-4728.78	-2303.04	2.15	205.97	5259.79	404506.16	632895.93	N 32 6 40.95	W 103 54 14.80
	16711.00	91.60	180.62	11836.02	5193.61	-4822.75	-2302.90	1.56	205.52	5344.37	404412.20	632896.07	N 32 6 40.02	W 103 54 14.80
	16805.00	90.95	180.36	11833.93	5285.73	-4916.72	-2303.70	0.74	205.11	5429.66	404318.23	632895.26	N 32 6 39.09	W 103 54 14.82
	16898.00	89.93	180.62	11833.22	5376.90	-5009.72	-2304.50	1.13	204.70	5514.34	404225.24	632894.47	N 32 6 38.17	W 103 54 14.83
	16993.00	86.46	179.74	11836.21	5469.86	-5104.65	-2304.80	3.77	204.30	5600.85	404130.31	632894.17	N 32 6 37.24	W 103 54 14.84
	17087.00	88.35	182.91	11840.47	5562.16	-5198.52	-2306.97	3.92	203.93	5687.41	404036.46	632892.00	N 32 6 36.31	W 103 54 14.87
	17181.00	90.81	181.76	11841.16	5654.85	-5292.43	-2310.80	2.89	203.59	5774.91	403942.56	632888.17	N 32 6 35.38	W 103 54 14.92
	17275.00	90.90	182.64	11839.75	5747.49	-5386.35	-2314.41	0.94	203.25	5862.52	403848.64	632884.56	N 32 6 34.45	W 103 54 14.96
	17368.00	90.37	184.31	11838.72	5839.49	-5479.16	-2320.04	1.88	202.95	5950.11	403755.83	632878.92	N 32 6 33.53	W 103 54 15.03
	17462.00	89.63	183.70	11838.72	5932.60	-5572.93	-2326.61	1.02	202.66	6039.10	403662.07	632872.36	N 32 6 32.60	W 103 54 15.11
	17556.00	86.72	182.03	11841.72	6025.38	-5666.76	-2331.31	3.57	202.36	6127.57	403568.25	632867.66	N 32 6 31.67	W 103 54 15.17
	17650.00	90.64	183.17	11843.88	6118.10	-5760.61	-2335.57	4.34	202.07	6216.07	403474.40	632863.40	N 32 6 30.75	W 103 54 15.23
	17744.00	91.21	179.39	11842.36	6210.47	-5854.56	-2337.67	4.07	201.77	6304.01	403380.46	632861.30	N 32 6 29.82	W 103 54 15.26
	17837.00	92.53	178.34	11839.33	6301.02	-5947.49	-2335.83	1.81	201.44	6389.74	403287.54	632863.14	N 32 6 28.90	W 103 54 15.24
	17931.00	90.59	176.49	11836.77	6392.00	-6041.35	-2331.59	2.85	201.10	6475.66	403193.68	632867.38	N 32 6 27.97	W 103 54 15.19
	18025.00	90.99	174.91	11835.47	6482.26	-6135.07	-2324.54	1.73	200.75	6560.69	403099.97	632874.43	N 32 6 27.04	W 103 54 15.12
	18119.00	90.99	174.47	11833.85	6572.05	-6228.66	-2315.84	0.47	200.40	6645.25	403006.39	632883.12	N 32 6 26.11	W 103 54 15.02
	18212.00	91.91	177.10	11831.50	6661.37	-6321.37	-2309.01	3.00	200.07	6729.87	402913.69	632889.96	N 32 6 25.20	W 103 54 14.94
	18307.00	90.24	180.71	11829.71	6753.90	-6416.31	-2307.20	4.19	199.78	6818.52	402818.75	632891.77	N 32 6 24.26	W 103 54 14.93
	18399.00	91.30	180.18	11828.48	6844.07	-6508.30	-2307.91	1.29	199.53	6905.39	402726.77	632891.05	N 32 6 23.35	W 103 54 14.94
	18493.00	89.76	180.36	11827.61	6936.14	-6602.29	-2308.35	1.65	199.27	6994.19	402632.78	632890.61	N 32 6 22.42	W 103 54 14.95
	18586.00	89.19	180.62	11828.46	7027.30	-6695.28	-2309.15	0.67	199.03	7082.30	402539.80	632889.82	N 32 6 21.50	W 103 54 14.96
	18679.00	90.81	178.86	11828.46	7118.21	-6788.28	-2308.73	2.57	198.78	7170.14	402446.81	632890.24	N 32 6 20.57	W 103 54 14.96
	18773.00	91.43	178.16	11826.62	7209.64	-6882.23	-2306.28	0.99	198.53	7258.37	402352.87	632892.68	N 32 6 19.65	W 103 54 14.94
	18867.00	91.08	177.28	11824.56	7300.76	-6976.13	-2302.55	1.01	198.27	7346.30	402258.97	632896.42	N 32 6 18.72	W 103 54 14.90
	18961.00	89.85	177.46	11823.80	7391.76	-7070.02	-2298.23	1.32	198.01	7434.19	402165.08	632900.73	N 32 6 17.79	W 103 54 14.85
	19055.00	90.02	174.82	11823.91	7482.22	-7163.80	-2291.91	2.81	197.74	7521.50	402071.31	632907.06	N 32 6 16.86	W 103 54 14.78
	19148.00	89.23	174.03	11824.52	7570.94	-7256.36	-2282.87	1.20	197.46	7606.99	401978.76	632916.09	N 32 6 15.94	W 103 54 14.68
	19241.00	90.55	174.99	11824.69	7659.69	-7348.93	-2273.97	1.76	197.19	7692.71	401886.20	632924.99	N 32 6 15.03	W 103 54 14.59
	19335.00	89.63	175.70	11824.55	7749.80	-7442.62	-2266.34	1.24	196.94	7780.03	401792.52	632932.62	N 32 6 14.10	W 103 54 14.50
	19428.00	87.56	177.54											

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	19708.00	91.12	178.60	11827.33	8111.71	-7815.22	-2253.17	0.60	196.08	8133.54	401419.94	632945.80	N 32 6 10.41	W 103 54 14.36
	19801.00	89.67	178.16	11826.69	8202.13	-7908.18	-2250.54	1.63	195.89	8222.18	401326.99	632948.43	N 32 6 9.49	W 103 54 14.34
	19894.00	91.74	179.57	11825.54	8292.73	-8001.15	-2248.69	2.69	195.70	8311.14	401234.03	632950.27	N 32 6 8.57	W 103 54 14.32
	19988.00	89.63	178.42	11824.42	8384.35	-8095.12	-2247.05	2.56	195.51	8401.20	401140.06	632951.92	N 32 6 7.64	W 103 54 14.31
	20081.00	93.27	181.94	11822.06	8475.35	-8188.06	-2247.34	5.44	195.35	8490.87	401047.13	632951.63	N 32 6 6.72	W 103 54 14.31
	20185.00	95.89	184.25	11813.76	8577.79	-8291.56	-2252.93	3.35	195.20	8592.19	400943.63	632946.03	N 32 6 5.70	W 103 54 14.38
	20279.00	89.52	184.60	11809.33	8670.84	-8385.13	-2260.17	6.79	195.09	8684.40	400850.07	632938.79	N 32 6 4.77	W 103 54 14.47
	20372.00	90.48	182.27	11809.33	8762.82	-8477.95	-2265.74	2.71	194.96	8775.49	400757.26	632933.22	N 32 6 3.85	W 103 54 14.54
	20466.00	90.10	181.21	11808.85	8855.35	-8571.91	-2268.59	1.20	194.82	8867.03	400663.31	632930.37	N 32 6 2.92	W 103 54 14.58
	20561.00	90.62	180.54	11808.25	8948.60	-8666.89	-2270.05	0.89	194.68	8959.25	400568.33	632928.92	N 32 6 1.98	W 103 54 14.60
	20655.00	93.13	183.16	11805.18	9041.10	-8760.78	-2273.08	3.86	194.55	9050.86	400474.45	632925.89	N 32 6 1.05	W 103 54 14.64
	20749.00	91.48	184.95	11801.40	9134.14	-8854.46	-2279.72	2.59	194.44	9143.23	400380.78	632919.25	N 32 6 0.13	W 103 54 14.72
	20843.00	87.66	183.16	11802.10	9227.24	-8948.20	-2286.36	4.49	194.33	9235.68	400287.04	632912.60	N 32 5 59.20	W 103 54 14.80
	20937.00	92.10	183.63	11802.30	9320.19	-9042.01	-2291.93	4.75	194.22	9327.97	400193.24	632907.04	N 32 5 58.27	W 103 54 14.87
	21032.00	90.31	180.93	11800.30	9413.82	-9136.90	-2295.71	3.41	194.10	9420.90	400098.35	632903.26	N 32 5 57.33	W 103 54 14.92
	21125.00	85.39	179.49	11803.79	9504.80	-9229.81	-2296.05	5.51	193.97	9511.11	400005.46	632902.92	N 32 5 56.41	W 103 54 14.93
	21220.00	85.97	177.24	11810.94	9596.90	-9324.49	-2293.35	2.44	193.82	9602.37	399910.78	632905.62	N 32 5 55.48	W 103 54 14.90
	21313.00	94.48	177.63	11810.58	9686.88	-9417.31	-2289.19	9.16	193.66	9691.55	399817.97	632909.78	N 32 5 54.56	W 103 54 14.86
	21406.00	95.13	177.34	11802.79	9776.64	-9509.90	-2285.12	0.76	193.51	9780.59	399725.39	632913.84	N 32 5 53.64	W 103 54 14.81
	21500.00	92.38	177.52	11796.63	9867.46	-9603.59	-2280.92	2.93	193.36	9870.74	399631.70	632918.05	N 32 5 52.71	W 103 54 14.77
	21594.00	91.65	177.23	11793.33	9958.41	-9697.43	-2276.61	0.84	193.21	9961.08	399537.86	632922.35	N 32 5 51.79	W 103 54 14.72
	21688.00	90.14	178.30	11791.86	10049.55	-9791.35	-2272.95	1.97	193.07	10051.70	399443.96	632926.02	N 32 5 50.86	W 103 54 14.69
	21782.00	91.75	180.55	11790.31	10141.32	-9885.32	-2272.00	2.94	192.94	10143.05	399349.99	632926.96	N 32 5 49.93	W 103 54 14.68
	21876.00	91.20	179.52	11787.89	10233.28	-9979.29	-2272.06	1.24	192.83	10234.67	399256.03	632926.90	N 32 5 48.00	W 103 54 14.68
	21970.00	92.27	180.38	11785.04	10325.21	-10073.24	-2271.98	1.46	192.71	10326.28	399162.08	632926.98	N 32 5 48.07	W 103 54 14.69
	22064.00	92.79	182.26	11780.89	10417.52	-10167.12	-2274.14	2.07	192.61	10418.35	399068.21	632924.82	N 32 5 47.14	W 103 54 14.72
	22159.00	91.65	180.31	11777.21	10510.82	-10262.02	-2276.27	2.38	192.51	10511.44	398973.32	632922.69	N 32 5 46.20	W 103 54 14.75
	22253.00	88.11	179.37	11777.41	10602.74	-10356.00	-2276.01	3.90	192.40	10603.16	398879.34	632922.96	N 32 5 45.27	W 103 54 14.75
	22347.00	90.21	179.90	11778.79	10694.58	-10449.98	-2275.41	2.30	192.28	10694.84	398785.37	632923.55	N 32 5 44.34	W 103 54 14.75
	22440.00	90.89	180.37	11777.90	10785.63	-10542.98	-2275.63	0.89	192.18	10785.77	398692.38	632923.33	N 32 5 43.42	W 103 54 14.75
	22534.00	90.34	180.26	11776.89	10877.71	-10636.97	-2276.15	0.60	192.08	10877.78	398598.39	632922.82	N 32 5 42.49	W 103 54 14.76
	22628.00	89.93	180.59	11776.67	10969.84	-10730.97	-2276.84	0.56	191.98	10969.85	398504.40	632922.12	N 32 5 41.56	W 103 54 14.77
	22722.00	90.45	180.72	11776.35	11062.04	-10824.96	-2277.92	0.57	191.88	11062.04	398410.42	632921.05	N 32 5 40.63	W 103 54 14.79
	22816.00	90.14	182.00	11775.87	11154.46	-10918.93	-2280.15	1.40	191.80	11154.47	398316.45	632918.82	N 32 5 39.70	W 103 54 14.82
	22841.00	90.07	180.14	11775.82	11179.01	-10943.93	-2280.62	7.45	191.77	11179.03	398291.46	632918.35	N 32 5 39.45	W 103 54 14.83
PTB	22891.00	90.07	180.14	11775.76	11227.96	-10993.93	-2280.74	0.00	191.72	11228.01	398241.46	632918.23	N 32 5 38.96	W 103 54 14.83

Survey Type: Def Survey

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/98.425	30.000	30.000	NAL_MWD-NON_SLB-Depth Only	XTO Poker Lake Unit 464H Original Hole / XTO Poker Lake Unit 464H MWD Off-13552ft
	1	23.000	23.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB-Depth Only	XTO Poker Lake Unit 464H Original Hole / XTO Poker Lake Unit 464H MWD Off-13552ft
	1	23.000	12954.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB	XTO Poker Lake Unit 464H Original Hole / XTO Poker Lake Unit 464H
	1	12954.000	20081.000	Act Stns	6.000	4.500	NAL_MWD-NON_SLB	ST01 / XTO Poker Lake Unit 464H ST01 MWD Off-22891 ft
	1	20081.000	22891.000	Act Stns	6.000	4.500	NAL_MWD_1.0_DEG	ST01 / XTO Poker Lake Unit 464H ST01 MWD Off-22891 ft

...XTO Poker Lake Unit 464H\ST01\XTO Poker Lake Unit 464H ST01 MWD Off-22891 ft