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30-015-44938

Schlumberger



Final Survey XTO Poker Lake Unit 474Y MWD 0ft-18235 ft Geodetic Report

(Def Survey)

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SEP 28 2018

DISTRICT II-ARTESIA O.C.D.

Report Date: July 02, 2018 - 03:46 PM
Client: XTO
Field: NM Eddy County (NAD 27)
Structure / Slot: XTO Poker Lake Unit 474Y / XTO Poker Lake Unit 474Y
Well: XTO Poker Lake Unit 474Y
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Final Survey XTO Poker Lake Unit 474Y MWD 0ft-18235
Survey Date: May 29, 2018
Tort / AHD / DDI / ERD Ratio: 249.760 * / 7453.814 ft / 6.472 / 0.651
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 5' 57.28847", W 103° 51' 47.22765"
Location Grid N/E Y/X: N 400146.800 IUS, E 645607.500 IUS
CRS Grid Convergence Angle: 0.2499 *
Grid Scale Factor: 0.99993337
Version / Patch: 2.10.696.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.777 * (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3313.000 ft above MSL
Seabed / Ground Elevation: 3290.000 ft above MSL
Magnetic Declination: 6.841 *
Total Gravity Field Strength: 998.4266mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47929.255 nT
Magnetic Dip Angle: 59.798 *
Declination Date: May 31, 2018
Magnetic Declination Model: HDGM 2017
North Reference: Grid North
Grid Convergence Used: 0.2499 *
Total Corr Mag North->Grid North: 6.5914 *
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Still	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400146.80	645607.50	N 32° 5' 57.28	W 103° 51' 47.23
	250.00	0.90	331.70	249.99	-1.73	1.73	-0.93	0.36	400148.53	645606.57	N 32° 5' 57.31	W 103° 51' 47.24
	311.00	0.60	329.50	310.98	-2.43	2.43	-1.32	0.49	400149.23	645606.18	N 32° 5' 57.31	W 103° 51' 47.24
	372.00	0.80	338.80	371.98	-3.10	3.10	-1.64	0.38	400149.90	645605.86	N 32° 5' 57.32	W 103° 51' 47.25
	402.00	0.60	348.40	401.98	-3.45	3.45	-1.74	0.77	400150.25	645605.76	N 32° 5' 57.32	W 103° 51' 47.25
	464.00	0.80	359.20	463.97	-4.20	4.20	-1.81	0.39	400151.00	645605.69	N 32° 5' 57.33	W 103° 51' 47.25
	525.00	1.00	17.30	524.97	-5.14	5.13	-1.66	0.57	400151.93	645605.84	N 32° 5' 57.34	W 103° 51' 47.25
	587.00	0.80	70.40	586.98	-5.80	5.79	-1.09	1.33	400152.59	645606.41	N 32° 5' 57.35	W 103° 51' 47.24
	648.00	0.50	47.30	647.95	-6.12	6.12	-0.50	0.64	400152.92	645607.00	N 32° 5' 57.35	W 103° 51' 47.23
	710.00	0.40	49.30	709.95	-6.44	6.44	-0.13	0.16	400153.24	645607.37	N 32° 5' 57.35	W 103° 51' 47.23
	807.00	0.60	75.20	806.95	-6.79	6.79	0.61	0.31	400153.59	645608.11	N 32° 5' 57.36	W 103° 51' 47.22
	883.00	0.90	67.20	882.94	-7.12	7.13	1.55	0.42	400153.92	645609.05	N 32° 5' 57.36	W 103° 51' 47.21
	983.00	1.40	64.30	982.92	-7.95	7.96	3.37	0.50	400154.76	645610.87	N 32° 5' 57.37	W 103° 51' 47.19
	1012.00	1.30	66.20	1011.91	-8.23	8.25	3.99	0.38	400155.05	645611.49	N 32° 5' 57.37	W 103° 51' 47.18
	1141.00	1.60	65.90	1140.87	-8.54	8.57	6.98	0.23	400156.37	645614.48	N 32° 5' 57.38	W 103° 51' 47.15
	1239.00	1.70	60.00	1238.83	-10.82	10.86	9.48	0.20	400157.66	645616.98	N 32° 5' 57.40	W 103° 51' 47.12
	1334.00	2.20	35.80	1333.78	-12.99	13.04	11.77	1.00	400159.84	645619.27	N 32° 5' 57.42	W 103° 51' 47.09
	1429.00	2.00	8.50	1428.72	-16.10	16.15	13.11	1.03	400162.95	645620.61	N 32° 5' 57.45	W 103° 51' 47.07
	1524.00	2.30	338.70	1523.65	-19.52	19.57	12.69	1.24	400166.36	645620.19	N 32° 5' 57.48	W 103° 51' 47.08
	1620.00	2.40	341.80	1619.57	-23.23	23.27	11.37	0.17	400170.07	645618.86	N 32° 5' 57.52	W 103° 51' 47.09
	1715.00	2.60	339.50	1714.48	-27.14	27.18	9.99	0.24	400173.98	645617.49	N 32° 5' 57.56	W 103° 51' 47.11
	1809.00	2.60	338.30	1808.39	-31.12	31.16	8.45	0.06	400177.95	645615.95	N 32° 5' 57.60	W 103° 51' 47.13
	1904.00	2.70	341.90	1903.28	-35.26	35.28	6.96	0.20	400182.08	645614.46	N 32° 5' 57.64	W 103° 51' 47.14
	1999.00	2.70	340.50	1998.18	-39.50	39.52	5.52	0.07	400186.32	645613.02	N 32° 5' 57.68	W 103° 51' 47.16
	2093.00	2.80	344.00	2092.07	-43.80	43.81	4.15	0.21	400190.61	645611.65	N 32° 5' 57.72	W 103° 51' 47.18
	2188.00	2.40	344.00	2186.97	-47.95	47.96	2.96	0.42	400194.75	645610.46	N 32° 5' 57.76	W 103° 51' 47.19
	2282.00	2.80	342.90	2280.88	-52.04	52.04	1.74	0.43	400198.84	645609.24	N 32° 5' 57.80	W 103° 51' 47.20
	2377.00	2.80	345.00	2375.76	-56.50	56.50	0.46	0.11	400203.30	645607.96	N 32° 5' 57.85	W 103° 51' 47.22
	2472.00	2.80	339.50	2470.65	-60.92	60.92	-0.95	0.28	400207.71	645606.55	N 32° 5' 57.89	W 103° 51' 47.24
	2567.00	2.80	337.80	2565.54	-65.25	65.24	-2.64	0.09	400212.03	645604.86	N 32° 5' 57.93	W 103° 51' 47.26
	2662.00	2.80	337.50	2660.42	-69.55	69.53	-4.41	0.02	400216.33	645603.09	N 32° 5' 57.98	W 103° 51' 47.28
	2757.00	3.00	337.40	2755.30	-73.99	73.97	-6.25	0.21	400220.77	645601.25	N 32° 5' 58.02	W 103° 51' 47.30
	2852.00	3.10	337.20	2850.17	-78.66	78.63	-8.20	0.11	400225.43	645599.30	N 32° 5' 58.07	W 103° 51' 47.32
	2948.00	3.30	337.90	2946.02	-83.63	83.59	-10.25	0.21	400230.38	645597.25	N 32° 5' 58.12	W 103° 51' 47.34
	3044.00	2.70	325.70	3041.88	-88.06	88.01	-12.58	0.91	400234.81	645594.94	N 32° 5' 58.16	W 103° 51' 47.37
	3140.00	2.70	325.90	3137.78	-91.81	91.75	-15.10	0.01	400238.55	645592.40	N 32° 5' 58.20	W 103° 51' 47.40
	3236.00	2.50	327.90	3233.68	-95.47	95.40	-17.48	0.23	400242.19	645590.02	N 32° 5' 58.23	W 103° 51' 47.43
	3331.00	2.10	327.50	3328.60	-98.70	98.62	-19.52	0.42	400245.42	645587.98	N 32° 5' 58.27	W 103° 51' 47.45
	3427.00	1.90	330.90	3424.54	-101.58	101.50	-21.24	0.24	400248.29	645586.26	N 32° 5' 58.29	W 103° 51' 47.47
	3524.00	1.80	328.20	3521.49	-104.29	104.20	-22.82	0.14	400250.99	645584.68	N 32° 5' 58.32	W 103° 51' 47.49
	3618.00	1.80	328.50	3615.45	-106.80	106.71	-24.37	0.01	400253.50	645583.13	N 32° 5' 58.35	W 103° 51' 47.51
	3713.00	1.60	326.00	3710.41	-109.18	109.08	-25.89	0.22	400255.88	645581.61	N 32° 5' 58.37	W 103° 51' 47.52
	3741.00	1.70	332.20	3738.39	-109.88	109.77	-26.31	0.73	400256.57	645581.20	N 32° 5' 58.38	W 103° 51' 47.53
	3811.00	1.50	334.90	3808.37	-111.63	111.52	-27.18	0.31	400258.31	645580.32	N 32° 5' 58.39	W 103° 51' 47.54
	3907.00	1.50	327.60	3904.33	-113.83	113.72	-28.38	0.20	400260.51	645579.12	N 32° 5' 58.42	W 103° 51' 47.55
	4002.00	1.60	330.70	3999.30	-116.04	115.93	-29.70	0.14	400262.72	645577.80	N 32° 5' 58.44	W 103° 51' 47.57
	4097.00	1.50	330.40	4094.26	-118.28	118.17	-30.96	0.11	400264.96	645576.54	N 32° 5' 58.46	W 103° 51' 47.58
	4192.00	1.50	326.10	4189.23	-120.40	120.28	-32.27	0.12	400267.07	645575.23	N 32° 5' 58.48	W 103° 51' 47.60
	4287.00	1.60	326.10	4284.20	-122.54	122.41	-33.70	0.11	400269.20	645573.80	N 32° 5' 58.50	W 103° 51' 47.61
	4382.00	1.50	326.20	4379.16	-124.68	124.55	-35.14	0.11	400271.34	645572.37	N 32° 5' 58.52	W 103° 51' 47.63
	4477.00	1.40	326.80	4474.13	-126.69	126.55	-36.46	0.11	400273.34	645571.04	N 32° 5' 58.54	W 103° 51' 47.65
	4572.00	1.40	329.20	4569.10	-128.66	128.52	-37.69	0.06	400275.31	645569.81	N 32° 5' 58.56	W 103° 51' 47.66
	4667.00	1.50	321.10	4664.07	-130.63	130.48	-39.07	0.24	400277.27	645568.44	N 32° 5' 58.58	W 103° 51' 47.68
	4762.00	1.40	320.30	4759.04	-132.50	132.34	-40.59	0.11	400279.13	645566.91	N 32° 5' 58.60	W 103° 51' 47.69
	4857.00	1.20	315.90	4854.02	-134.11	133.95	-42.02	0.24	400280.74	645565.48	N 32° 5' 58.62	W 103° 51' 47.71
	4952.00	1.20	316.10	4949.00	-135.55	135.38	-43.41	0.00	400282.17	645564.10	N 32° 5' 58.63	W 103° 51' 47.73
	5047.00	1.30	312.50	5043.97	-137.00	136.83	-44.89	0.13	400283.62	645562.61	N 32° 5' 58.64	W 103° 51' 47.74
	5142.00	1.20	310.90	5138.95	-138.38	138.21	-46.44	0.11	400285.00	645561.07	N 32° 5' 58.66	W 103° 51' 47.76
	5237.00	1.20	316.10	5233.93	-139.76	139.57	-47.88	0.11	400286.36	645559.63	N 32° 5' 58.67	W 103° 51' 47.78
	5332.00	1.10	314.20	5328.91	-141.12	140.93	-49.22	0.11	400287.72	645558.28	N 32° 5' 58.69	W 103° 51' 47.79
	5427.00	1.00	314.20	5423.90	-142.33	142.14	-50.47	0.11	400288.93	645557.03	N 32° 5' 58.70	W 103° 51' 47.81
	5522.00	1.10	317.20	5518.88	-143.59	143.39	-51.68	0.12	400290.18	645555.82	N 32° 5' 58.71	W 103° 51' 47.82
	5617.00	1.00	320.20	5613.86	-144.90	144.69	-52.83	0.12	400291.48	645554.67	N 32° 5' 58.72	W 103° 51' 47.83
	5712.00	0.90	322.60	5708.85	-146.13	145.92	-53.82	0.11	400292.71	645553.69	N 32° 5' 58.73	W 103° 51' 47.85
	5807.00	0.90	318.80	5803.84	-147.29	147.08	-54.76	0.06	400293.87	645552.74	N 32° 5' 58.75	W 103° 51' 47.86
	5902.00	0.80	311.50	5898.83	-148.29	148.08	-55.75	0.15	400294.87	645551.75	N 32° 5' 58.76	W 103° 51' 47.87
	5997.00	0.80	317.40	5993.82	-149.22	149.00	-56.70	0.09	400295.79	645550.81	N 32° 5' 58.77	W 103° 51' 47.88
	6092.00	0.70	311.60	6088.81	-150.10	149.88	-57.58	0.13	400296.67	645549.93	N 32° 5' 58.77	W 103° 51' 47.89
	6187.00	0.50	316.40	6183.81	-150.79	150.56	-58.30	0.22	400297.35	645549.21	N 32° 5' 58.78	W 103° 51' 47.90
	6282.00	0.50	326.40	6278.80	-151.44	151.21	-58.81	0.09	400298.00	645548.69	N 32° 5' 58.79	W 103° 51' 47.90
	6377.00	0.60	320.40	6373.80	-152.17	151.94	-59.36	0.12	400298.73	645548.14	N 32° 5' 58.79	W 103° 51' 47.91
	6472.00	0.60	321.20	6468.79	-152							

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7137.00	0.70	285.00	7133.75	-156.99	156.73	-66.27	0.11	400303.52	645541.23	N 32° 5' 58.84" W	103° 51' 47.99" E
	7230.00	0.80	279.20	7226.74	-157.24	156.98	-67.46	0.13	400303.77	645540.05	N 32° 5' 58.84" W	103° 51' 48.00" E
	7322.00	0.80	272.90	7318.73	-157.38	157.12	-68.73	0.10	400303.90	645538.77	N 32° 5' 58.85" W	103° 51' 48.02" E
	7416.00	0.90	258.60	7412.72	-157.27	157.00	-70.11	0.25	400303.79	645537.39	N 32° 5' 58.85" W	103° 51' 48.03" E
	7510.00	0.90	254.90	7506.71	-156.94	156.66	-71.55	0.06	400303.45	645535.95	N 32° 5' 58.84" W	103° 51' 48.05" E
	7604.00	0.40	279.90	7600.70	-156.81	156.53	-72.59	0.60	400303.32	645534.92	N 32° 5' 58.84" W	103° 51' 48.06" E
	7605.00	0.80	257.80	7601.70	-156.81	156.53	-72.60	45.50	400303.32	645534.91	N 32° 5' 58.84" W	103° 51' 48.06" E
	7688.00	1.00	262.50	7684.69	-156.60	156.31	-73.88	0.26	400303.10	645533.62	N 32° 5' 58.84" W	103° 51' 48.08" E
	7787.00	1.10	271.70	7783.68	-156.52	156.23	-75.69	0.20	400303.02	645531.82	N 32° 5' 58.84" W	103° 51' 48.10" E
	7882.00	1.20	274.10	7878.66	-156.62	156.32	-77.59	0.12	400303.11	645529.91	N 32° 5' 58.84" W	103° 51' 48.12" E
	7977.00	1.50	281.90	7973.63	-156.96	156.65	-79.80	0.37	400303.44	645527.71	N 32° 5' 58.84" W	103° 51' 48.15" E
	8072.00	2.00	292.50	8068.59	-157.86	157.54	-82.55	0.62	400304.33	645524.96	N 32° 5' 58.85" W	103° 51' 48.18" E
	8167.00	2.10	297.60	8163.53	-159.32	158.98	-85.62	0.22	400305.77	645521.88	N 32° 5' 58.87" W	103° 51' 48.21" E
	8262.00	2.40	297.50	8258.45	-181.05	160.71	-88.93	0.32	400307.50	645518.58	N 32° 5' 58.88" W	103° 51' 48.25" E
	8357.00	2.70	298.10	8353.38	-163.04	162.68	-92.67	0.32	400309.47	645514.84	N 32° 5' 58.90" W	103° 51' 48.30" E
	8452.00	2.90	310.70	8448.25	-165.68	165.30	-96.46	0.68	400312.09	645511.04	N 32° 5' 58.93" W	103° 51' 48.34" E
	8548.00	2.40	315.80	8544.14	-168.71	168.33	-99.71	0.58	400315.11	645507.80	N 32° 5' 58.96" W	103° 51' 48.38" E
	8637.00	2.10	315.50	8633.07	-171.22	170.83	-102.15	0.34	400317.61	645505.36	N 32° 5' 58.98" W	103° 51' 48.41" E
	8731.00	1.30	297.00	8727.03	-172.94	172.54	-104.30	1.02	400318.33	645503.20	N 32° 5' 59.00" W	103° 51' 48.43" E
	8824.00	1.40	291.80	8820.01	-173.85	173.44	-106.30	0.17	400320.23	645501.21	N 32° 5' 59.01" W	103° 51' 48.45" E
	8919.00	1.50	286.20	8914.98	-174.64	174.22	-108.57	0.18	400321.00	645498.94	N 32° 5' 59.02" W	103° 51' 48.48" E
	9014.00	1.70	283.00	9009.94	-175.31	174.88	-111.14	0.23	400321.67	645496.37	N 32° 5' 59.02" W	103° 51' 48.51" E
	9109.00	1.90	284.30	9104.89	-176.03	175.59	-114.04	0.21	400322.37	645493.47	N 32° 5' 59.03" W	103° 51' 48.54" E
	9204.00	2.00	283.30	9199.84	-176.81	176.36	-117.18	0.11	400323.14	645490.33	N 32° 5' 59.04" W	103° 51' 48.58" E
	9299.00	2.20	271.50	9294.77	-177.25	176.79	-120.61	0.50	400323.57	645486.90	N 32° 5' 59.04" W	103° 51' 48.62" E
	9394.00	2.30	263.00	9389.70	-177.08	176.60	-124.33	0.37	400323.39	645483.18	N 32° 5' 59.04" W	103° 51' 48.66" E
	9489.00	2.10	257.80	9484.63	-176.50	176.00	-127.92	0.30	400322.79	645479.59	N 32° 5' 59.04" W	103° 51' 48.71" E
	9584.00	2.30	253.50	9579.56	-175.60	175.09	-131.45	0.27	400321.88	645476.06	N 32° 5' 59.03" W	103° 51' 48.75" E
	9679.00	2.40	252.10	9674.48	-174.46	173.94	-135.17	0.12	400320.73	645472.34	N 32° 5' 59.02" W	103° 51' 48.79" E
	9774.00	2.40	250.70	9769.40	-173.21	172.67	-138.94	0.06	400319.46	645468.57	N 32° 5' 59.00" W	103° 51' 48.83" E
	9869.00	2.50	246.70	9864.31	-171.75	171.19	-142.72	0.21	400317.98	645464.79	N 32° 5' 58.99" W	103° 51' 48.88" E
	9964.00	2.70	253.40	9959.21	-170.30	169.73	-146.77	0.38	400316.52	645460.74	N 32° 5' 58.97" W	103° 51' 48.93" E
	10059.00	2.20	295.40	10054.13	-170.46	169.88	-150.56	1.91	400316.67	645456.95	N 32° 5' 58.98" W	103° 51' 48.97" E
	10154.00	2.60	302.40	10149.05	-172.41	171.81	-154.03	0.52	400318.60	645453.48	N 32° 5' 59.00" W	103° 51' 49.01" E
	10249.00	2.70	296.40	10243.95	-174.58	173.96	-157.85	0.31	400320.75	645449.66	N 32° 5' 59.02" W	103° 51' 49.05" E
	10344.00	2.60	298.70	10338.85	-176.62	175.99	-161.74	0.15	400322.78	645445.77	N 32° 5' 59.04" W	103° 51' 49.10" E
	10434.00	1.80	292.60	10428.78	-178.16	177.52	-164.84	0.92	400324.30	645442.67	N 32° 5' 59.05" W	103° 51' 49.13" E
	10472.00	1.88	225.90	10466.76	-177.95	177.31	-165.84	5.33	400324.10	645441.67	N 32° 5' 59.05" W	103° 51' 49.15" E
0.6925 (German)	10492.00	1.67	226.00	10460.76	-177.69	177.03	-165.82	2.37	400324.00	645441.67	N 32° 5' 59.05" W	103° 51' 49.15" E
	10566.00	1.97	298.53	10560.72	-177.61	176.96	-168.39	2.37	400323.75	645439.12	N 32° 5' 59.05" W	103° 51' 49.18" E
	10614.00	1.78	294.24	10608.70	-178.29	177.64	-169.81	0.43	400324.42	645437.70	N 32° 5' 59.05" W	103° 51' 49.19" E
	10662.00	2.02	227.27	10656.68	-178.03	177.37	-171.11	4.39	400324.16	645436.40	N 32° 5' 59.05" W	103° 51' 49.21" E
	10710.00	3.63	164.85	10704.63	-175.99	175.33	-171.34	6.74	400322.11	645436.18	N 32° 5' 59.03" W	103° 51' 49.21" E
	10757.00	7.44	139.15	10751.40	-172.24	171.59	-168.95	9.48	400318.37	645438.56	N 32° 5' 58.99" W	103° 51' 49.18" E
	10804.00	12.20	136.95	10797.70	-166.29	165.65	-163.57	10.16	400312.44	645443.94	N 32° 5' 58.93" W	103° 51' 49.12" E
	10851.00	16.33	138.90	10843.24	-157.65	157.04	-155.83	8.85	400303.83	645451.68	N 32° 5' 58.85" W	103° 51' 49.03" E
	10898.00	20.58	141.27	10887.82	-146.18	145.61	-146.32	9.18	400292.40	645461.19	N 32° 5' 58.74" W	103° 51' 48.92" E
	10944.00	24.28	145.64	10930.33	-132.02	131.49	-135.92	8.82	400278.28	645471.59	N 32° 5' 58.60" W	103° 51' 48.80" E
	10991.00	27.57	149.71	10972.60	-114.60	114.12	-124.97	7.95	400260.91	645482.53	N 32° 5' 58.42" W	103° 51' 48.67" E
	11037.00	30.58	153.63	11012.80	-94.88	94.43	-114.40	7.74	400241.23	645493.10	N 32° 5' 58.23" W	103° 51' 48.55" E
	11084.00	33.84	157.01	11052.57	-72.07	71.67	-103.98	7.92	400218.46	645503.53	N 32° 5' 58.00" W	103° 51' 48.43" E
	11130.00	37.18	158.54	11090.01	-47.30	46.93	-93.89	7.51	400193.73	645513.62	N 32° 5' 57.76" W	103° 51' 48.32" E
	11178.00	40.93	161.15	11127.28	-18.87	18.54	-83.50	8.53	400165.34	645524.01	N 32° 5' 57.48" W	103° 51' 48.20" E
	11225.00	44.60	163.20	11161.78	11.55	-11.83	-73.75	8.35	400134.87	645533.75	N 32° 5' 57.17" W	103° 51' 48.09" E
	11273.00	47.58	165.98	11195.07	44.92	-45.17	-64.58	7.48	400101.64	645542.92	N 32° 5' 56.84" W	103° 51' 47.98" E
	11320.00	51.01	167.82	11225.72	79.64	-79.87	-56.53	7.88	400066.94	645550.98	N 32° 5' 56.50" W	103° 51' 47.89" E
	11367.00	53.60	167.37	11254.45	115.99	-116.18	-48.53	5.56	400030.62	645558.97	N 32° 5' 56.14" W	103° 51' 47.80" E
	11413.00	56.23	166.90	11280.89	152.72	-152.88	-40.15	5.78	399993.93	645567.35	N 32° 5' 55.78" W	103° 51' 47.70" E
	11461.00	59.64	167.91	11306.37	192.45	-192.57	-31.29	7.32	399954.24	645576.21	N 32° 5' 55.38" W	103° 51' 47.60" E
	11509.00	62.64	169.88	11329.54	233.72	-233.82	-23.20	7.21	399913.00	645584.30	N 32° 5' 54.98" W	103° 51' 47.51" E
	11556.00	66.30	173.21	11349.79	275.68	-275.75	-16.99	10.07	399871.07	645590.51	N 32° 5' 54.56" W	103° 51' 47.44" E
	11602.00	69.90	175.34	11366.95	318.16	-318.21	-12.74	8.93	399828.61	645594.76	N 32° 5' 54.14" W	103° 51' 47.39" E
	11649.00	70.69	175.71	11382.80	362.28	-362.32	-9.29	1.84	399784.50	645598.21	N 32° 5' 53.70" W	103° 51' 47.35" E
	11696.00	73.11	175.40	11397.40	406.83	-406.86	-5.83	5.19	399739.97	645601.67	N 32° 5' 53.26" W	103° 51' 47.32" E
	11743.00	79.05	174.78	11408.70	452.28	-452.29	-1.92	12.70	399694.54	645605.58	N 32° 5' 52.81" W	103° 51' 47.27" E
	11790.00	79.90	174.65	11417.29	498.31	-498.30	2.33	1.83	399648.53	645609.83	N 32° 5' 52.36" W	103° 51' 47.23" E
	11838.00	80.36	174.70	11425.51	545.41	-545.39	6.72	0.96	399601.45	645614.22	N 32° 5' 51.89" W	103° 51' 47.18" E
	11885.00	82.81	176.67	11432.35	591.79	-591.75	10.22	6.83	399555.09	645617.72	N 32° 5' 51.43" W	103° 51' 47.14" E
	11933.00	85.62	178.79	11437.15	639.51	-639.47	12.11	7.15	399507.38	645619.61	N 32° 5' 50.96" W	103° 51' 47.12" E
	11980.00	88.58	181.12	11440.34	686.40	-686.35	12.14	5.35	399460.49	645619.64	N 32° 5' 50.50" W	103° 51' 47.12" E
	12030.00	89.16	182.88	11442.20	736.32	-736.28	10.40	6.24	399410.57	645617.90	N 32° 5' 50.00" W	103° 51' 47.14" E
	12076.00	89.38	183.16	11442.79	782.24	-782.21	7.98	0.77	399364.64	645615.48	N 32° 5' 49.55" W	103° 51' 47.17" E
	12170.00	89.89	182.58	11443.39	876.10	-876.09	3.27	0.82	399270.77	645610.77	N 32° 5' 48.62" W	103° 51' 47.23" E
	12266.00	91.40	181.56	11442.31	972.01	-972.02	-0.20	1.90	399174.85	645607.30	N 32° 5' 47.67" W	103° 51' 47.28" E
	1											

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	15492.00	91.29	179.97	11440.12	4195.75	-4195.71	17.76	0.48	395951.38	645625.26	N 32 5 15.77	W 103 51 47.23
	15587.00	90.28	180.96	11438.82	4290.73	-4290.70	16.99	1.49	395856.40	645624.48	N 32 5 14.83	W 103 51 47.25
	15682.00	90.22	180.98	11438.41	4385.71	-4385.68	15.38	0.07	395761.42	645622.88	N 32 5 13.89	W 103 51 47.27
	15777.00	90.62	181.24	11437.71	4480.68	-4480.66	13.54	0.50	395666.45	645621.04	N 32 5 12.95	W 103 51 47.30
	15872.00	90.73	180.22	11436.59	4575.66	-4575.65	12.33	1.08	395571.47	645619.83	N 32 5 12.01	W 103 51 47.32
	15968.00	91.78	179.59	11434.48	4671.63	-4671.62	12.49	1.28	395475.50	645619.98	N 32 5 11.06	W 103 51 47.32
	16063.00	90.17	179.52	11432.85	4766.62	-4766.60	13.22	1.71	395380.53	645620.72	N 32 5 10.12	W 103 51 47.32
	16158.00	91.23	180.89	11431.69	4861.60	-4861.59	12.88	1.82	395285.54	645620.38	N 32 5 9.18	W 103 51 47.32
	16253.00	89.78	184.56	11430.86	4956.45	-4956.46	8.37	4.15	395190.68	645615.87	N 32 5 8.24	W 103 51 47.38
	16348.00	88.04	183.96	11432.66	5051.14	-5051.18	1.31	1.94	395095.97	645608.81	N 32 5 7.30	W 103 51 47.47
	16443.00	86.97	183.04	11438.80	5145.85	-5145.91	-4.48	1.48	395001.25	645603.02	N 32 5 6.37	W 103 51 47.54
	16538.00	88.09	182.25	11440.89	5240.64	-5240.71	-8.86	1.44	394906.44	645598.64	N 32 5 5.43	W 103 51 47.60
	16634.00	93.14	181.01	11439.88	5336.55	-5336.64	-11.59	5.42	394810.53	645595.91	N 32 5 4.48	W 103 51 47.63
	16729.00	90.17	178.69	11437.12	5431.50	-5431.58	-11.34	3.87	394715.59	645596.16	N 32 5 3.54	W 103 51 47.63
	16824.00	91.68	179.09	11435.59	5526.47	-5526.55	-9.50	1.64	394620.63	645598.00	N 32 5 2.60	W 103 51 47.62
	16919.00	88.49	178.63	11435.44	5621.44	-5621.52	-7.61	3.39	394525.67	645599.89	N 32 5 1.65	W 103 51 47.60
	17014.00	87.53	178.50	11438.74	5716.36	-5716.43	-5.23	1.02	394430.76	645602.27	N 32 5 0.72	W 103 51 47.58
	17110.00	85.51	178.25	11444.57	5812.15	-5812.21	-2.52	2.12	394334.99	645604.98	N 32 4 59.77	W 103 51 47.55
	17204.00	86.13	177.72	11451.42	5905.86	-5905.90	0.78	0.87	394241.31	645608.28	N 32 4 58.85	W 103 51 47.52
	17334.00	92.13	178.62	11453.40	6035.73	-6035.76	4.93	4.67	394111.46	645612.43	N 32 4 57.56	W 103 51 47.48
	17429.00	95.84	178.79	11446.79	6130.47	-6130.49	7.07	3.91	394016.73	645614.57	N 32 4 56.62	W 103 51 47.46
	17524.00	94.15	179.79	11438.52	6225.10	-6225.11	8.24	2.06	393922.11	645615.74	N 32 4 55.69	W 103 51 47.45
	17619.00	89.50	179.73	11435.50	6320.02	-6320.04	8.64	4.90	393827.20	645616.14	N 32 4 54.75	W 103 51 47.45
	17714.00	90.06	178.81	11435.86	6415.02	-6415.03	9.85	1.13	393732.21	645617.35	N 32 4 53.81	W 103 51 47.44
	17808.00	92.02	178.81	11434.16	6508.98	-6508.99	11.80	2.09	393638.26	645619.30	N 32 4 52.88	W 103 51 47.42
	17903.00	89.83	178.40	11432.62	6603.95	-6603.94	14.11	2.35	393543.31	645621.61	N 32 4 51.94	W 103 51 47.40
	17998.00	91.74	178.48	11431.32	6698.91	-6698.89	16.70	2.01	393448.37	645624.20	N 32 4 51.00	W 103 51 47.37
	18093.00	89.44	179.05	11430.34	6793.88	-6793.86	18.75	2.49	393353.41	645626.25	N 32 4 50.06	W 103 51 47.35
	18183.00	90.45	178.94	11430.43	6883.87	-6883.84	20.32	1.13	393263.43	645627.82	N 32 4 49.17	W 103 51 47.34
BHL	18235.00	90.45	178.94	11430.02	6935.86	-6935.83	21.29	0.00	393211.44	645628.79	N 32 4 48.65	W 103 51 47.33

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	24.000	18.625	NAL_MWD-NON_SLB-Depth Only	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD 0ft-18235
	1	23.000	23.000	Act Stns	24.000	18.625	NAL_MWD-NON_SLB-Depth Only	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD 0ft-18235
	1	23.000	1050.000	Act Stns	24.000	18.625	NAL_MWD-NON_SLB	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD
	1	1050.000	3810.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD
	1	3810.000	7510.000	Act Stns	12.250	9.625	NAL_MWD-NON_SLB	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD
	1	7510.000	18235.000	Act Stns	8.750	5.500	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Final Survey XTO Poker Lake Unit 474Y MWD