

51-01379

Schlumberger

CNX SHL-1C-HS Gyro+MWD Off to 11635ft MD Survey Report
(Dof Survey)

Report Date: September 18, 2011 - 09:59 AM
 Client: CNX
 Field: WV Marshall County (NAD 27)
 Structure / Bit: CNX SHL-1C-HS / CNX SHL-1C-HS
 Well: SHL-1C-HS
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: CNX SHL-1C-HS Gyro+MWD Off to 11635ft MD
 Survey Date: July 25, 2011
 Tool / AHD / DOI / ERD Ratio: 194.730° / 6793.666 ft / 6.377 / 0.881
 Coordinate Reference System: NAD27 West Virginia State Plane, Northern Zone, US Feet
 Location Lat / Long: N 39° 58' 23.6201" P, W 80° 34' 30.29568" W
 Location Grid N/E Y/X: N 536888.389 RUS, E 1698702.721 RUS
 CRB Grid Convergence Angle: -0.68884357°
 Grid Scale Factor: 0.99995907

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 152.185° (Grid North)
 Vertical Section Origin: 0.000 R, 0.000 ft
 TVD Reference Datum: KB
 TVD Reference Elevation: 1162.537 ft above Unknown
 Seabed / Ground Elevation: 1162.537 ft above Unknown
 Magnetic Deviation: -8.730°
 Total Field Strength: 52907.757 nT
 Magnetic Dip Angle: 67.601°
 Declination Date: July 25, 2011
 Magnetic Deviation Model: BODM 2011
 North Reference: Grid North
 Grid Convergence Used: -8.858°
 Total Corr Mag North-Grid North: -8.044°
 Local Grid Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim GHD (°)	TVD (ft)	TVDSS (ft)	VBEC (ft)	NS (ft)	EW (ft)	DLS (ft)	Northing (ft)	Easting (ft)	Latitude (°)	Longitude (°)
SHL	0.00	0.00	0.00	0.00	-1163.34	0.00	0.00	0.00	N/A	536888.39	1698702.72	N 39 58 23.64	W 80 34 30.21
	104.00	0.24	337.58	108.00	-1077.34	-0.23	0.21	-0.09	0.22	536888.57	1698702.63	N 39 58 23.64	W 80 34 30.21
	208.00	0.11	179.50	308.00	-877.34	-0.35	0.51	-0.16	0.35	536888.87	1698702.96	N 39 58 23.64	W 80 34 30.21
	304.00	0.21	47.26	308.00	-877.34	-0.32	0.38	-0.03	0.30	536888.71	1698702.69	N 39 58 23.64	W 80 34 30.21
	406.00	0.29	85.83	408.00	-777.34	-0.31	0.49	0.27	0.18	536888.68	1698702.06	N 39 58 23.64	W 80 34 30.20
	508.00	0.09	28.45	505.00	-877.34	-0.28	0.55	0.49	0.18	536888.91	1698709.21	N 39 58 23.64	W 80 34 30.20
	608.00	0.18	107.33	608.00	-877.34	-0.19	0.57	0.68	0.17	536888.93	1698703.40	N 39 58 23.64	W 80 34 30.20
	708.00	0.14	193.87	708.00	-877.34	-0.17	0.57	0.72	0.32	536888.95	1698703.44	N 39 58 23.64	W 80 34 30.20
	808.00	0.17	326.87	808.00	-877.34	-0.41	0.75	0.83	0.19	536888.11	1698703.25	N 39 58 23.65	W 80 34 30.20
	908.00	0.21	310.55	808.00	-877.34	-0.14	1.02	0.94	0.05	536888.38	1699703.05	N 39 58 23.65	W 80 34 30.20
	1008.00	0.11	384.31	1008.00	-177.34	-0.98	1.15	0.12	0.17	536888.61	1698702.84	N 39 58 23.65	W 80 34 30.21
	1108.00	0.09	289.05	1108.00	-77.34	-1.02	1.13	-0.05	0.02	536888.49	1698702.67	N 39 58 23.65	W 80 34 30.21
	1208.00	0.18	4.79	1208.00	22.60	-1.19	1.28	-0.12	0.21	536888.64	1698702.81	N 39 58 23.65	W 80 34 30.21
	1304.00	0.15	34.01	1308.00	122.60	-1.28	1.45	-0.02	0.09	536888.51	1698702.69	N 39 58 23.65	W 80 34 30.21
	1408.00	0.22	348.24	1408.00	222.60	-1.63	1.55	0.00	0.16	536888.70	1698702.75	N 39 58 23.65	W 80 34 30.21
	1508.00	0.36	304.86	1507.99	322.60	-2.15	2.32	-0.17	0.15	536888.88	1698702.85	N 39 58 23.65	W 80 34 30.21
	1603.00	0.43	295.22	1607.99	422.60	-2.74	2.78	-0.84	0.27	536888.12	1698702.99	N 39 58 23.67	W 80 34 30.22
	1708.00	0.38	329.88	1707.99	522.60	-3.37	3.21	-1.15	0.24	536888.68	1698701.67	N 39 58 23.67	W 80 34 30.22
	1808.00	0.32	332.36	1807.99	622.60	-4.16	3.60	-1.64	0.14	536888.25	1698701.18	N 39 58 23.68	W 80 34 30.23
	1908.00	0.28	357.78	1907.99	722.60	-4.83	4.84	-1.76	0.29	536888.90	1698700.96	N 39 58 23.68	W 80 34 30.23
	2008.00	0.27	18.49	2007.98	822.60	-5.22	5.00	-1.69	0.10	536888.35	1698701.03	N 39 58 23.69	W 80 34 30.23
	2108.00	0.29	68.92	2107.98	922.60	-5.30	5.29	-1.46	0.21	536888.65	1698701.27	N 39 58 23.69	W 80 34 30.23
	2208.00	0.34	318.96	2207.98	1022.60	-6.63	5.98	-1.49	0.45	536888.94	1698701.23	N 39 58 23.69	W 80 34 30.23
	2308.00	0.39	628.87	2307.98	1122.60	-8.25	6.00	-1.88	0.38	536888.71	1698700.88	N 39 58 23.70	W 80 34 30.23
	2408.00	0.27	313.40	2407.98	1222.60	-8.82	6.55	-2.20	0.15	536888.10	1698700.82	N 39 58 23.70	W 80 34 30.24
	2508.00	0.14	323.21	2507.98	1322.60	-7.16	6.81	-2.44	0.14	536888.17	1698700.28	N 39 58 23.71	W 80 34 30.24
	2603.00	0.31	358.62	2607.98	1422.60	-7.77	7.17	-2.80	0.17	536888.23	1698700.12	N 39 58 23.71	W 80 34 30.24
	2704.00	0.22	344.21	2707.98	1522.60	-8.01	7.61	-2.75	0.09	536888.27	1698699.87	N 39 58 23.72	W 80 34 30.24
	2804.00	0.39	301.93	2807.97	1622.60	-8.49	7.97	-3.09	0.27	536888.33	1698699.83	N 39 58 23.72	W 80 34 30.24
	2904.00	0.65	8.36	2907.97	1722.60	-9.34	9.71	-3.28	0.62	536888.47	1698699.44	N 39 58 23.72	W 80 34 30.25
	3008.00	0.44	312.30	3007.97	1822.60	-10.68	9.93	-3.48	0.55	536888.64	1698699.24	N 39 58 23.73	W 80 34 30.25
	3108.00	0.35	308.19	3107.96	1922.60	-10.69	9.97	-4.01	0.10	536888.33	1698698.71	N 39 58 23.74	W 80 34 30.26
	3203.00	0.40	322.97	3207.96	2022.60	-11.38	10.40	-4.51	0.18	536888.65	1698698.21	N 39 58 23.74	W 80 34 30.27
	3308.00	0.53	219.44	3307.96	2122.60	-12.26	11.18	-5.07	0.05	536888.54	1698697.68	N 39 58 23.75	W 80 34 30.27
	3408.00	0.58	303.51	3407.95	2222.60	-13.10	11.83	-5.78	0.14	536888.19	1698696.94	N 39 58 23.76	W 80 34 30.28
	3508.00	0.44	368.05	3507.95	2322.61	-13.96	12.39	-6.49	0.14	536888.72	1698696.23	N 39 58 23.76	W 80 34 30.29
	3603.00	0.86	347.55	3607.95	2422.61	-14.79	13.08	-6.90	0.33	536888.64	1698695.82	N 39 58 23.77	W 80 34 30.30
	3704.00	0.43	327.83	3707.94	2522.60	-15.94	13.97	-7.21	0.21	536888.23	1698695.51	N 39 58 23.78	W 80 34 30.30
	3804.00	0.45	329.39	3807.94	2622.60	-16.48	14.53	-7.82	0.20	536888.88	1698695.10	N 39 58 23.78	W 80 34 30.31
	3908.00	0.47	359.51	3907.94	2722.60	-17.16	15.27	-7.82	0.24	536888.63	1698694.90	N 39 58 23.78	W 80 34 30.31
	4008.00	0.52	358.70	4007.93	2822.60	-17.93	15.14	-7.84	0.05	536888.11	1698694.89	N 39 58 23.80	W 80 34 30.31
	4103.00	0.38	11.61	4107.93	2922.60	-18.59	16.92	-7.76	0.17	536888.12	1698694.94	N 39 58 23.81	W 80 34 30.31
	4208.00	0.54	387.49	4207.93	3022.60	-19.27	17.71	-7.73	0.10	536888.69	1698694.99	N 39 58 23.81	W 80 34 30.31
	4303.00	0.62	2.59	4307.92	3122.60	-20.17	18.72	-7.73	0.19	536888.68	1698694.89	N 39 58 23.82	W 80 34 30.31
	4408.00	0.72	12.14	4407.91	3222.60	-21.12	19.68	-7.81	0.15	536888.16	1698694.15	N 39 58 23.83	W 80 34 30.31
	4508.00	0.81	359.18	4507.91	3322.67	-22.09	21.02	-7.87	0.24	536888.16	1698693.22	N 39 58 23.83	W 80 34 30.31
	4603.00	0.59	344.51	4607.90	3422.65	-23.09	22.05	-7.71	0.09	536888.17	1698693.01	N 39 58 23.86	W 80 34 30.31
	4703.00	0.58	332.98	4707.90	3522.64	-24.10	22.99	-8.09	0.14	536888.34	1698692.83	N 39 58 23.87	W 80 34 30.31
	4808.00	0.57	344.29	4807.89	3622.65	-25.10	23.91	-8.47	0.13	536888.28	1698694.25	N 39 58 23.87	W 80 34 30.32
	4908.00	0.70	325.01	4907.89	3722.65	-26.10	24.86	-8.99	0.25	536888.24	1698693.77	N 39 58 23.85	W 80 34 30.33
	5003.00	0.89	328.08	5007.88	3822.64	-27.51	25.98	-9.72	0.13	536888.24	1698693.00	N 39 58 23.89	W 80 34 30.34
	5104.00	0.69	338.96	5107.87	3922.53	-28.62	27.10	-10.40	0.19	536888.46	1698692.33	N 39 58 23.91	W 80 34 30.34
	5208.00	0.74	347.81	5207.86	4022.82	-29.03	28.27	-10.79	0.18	536888.63	1698691.83	N 39 58 23.92	W 80 34 30.35
	5304.00	0.83	339.04	5307.85	4088.53	-30.83	29.84	-10.87	0.34	536888.42	1698691.75	N 39 58 23.92	W 80 34 30.35
	5404.00	0.89	339.04	5407.85	4168.52	-31.18	29.38	-11.17	0.36	536888.14	1698691.72	N 39 58 23.93	W 80 34 30.35
Final Gyro	5504.00	0.69	337.89	5499.85									
	5604.00	2.78	171.92	5548.84	4168.50	-30.34	28.44	-11.11	6.85	536888.60	1698691.81	N 39 58 23.92	W 80 34 30.35
	5701.00	8.35	185.45	5380.60	4308.28	-28.93	24.81	-10.10	11.97	536888.12	1698692.82	N 39 58 23.93	W 80 34 30.34
	5805.00	11.07	167.61	5423.86	4348.83	-18.76	16.79	-8.29	6.21	536888.12	1698694.33	N 39 58 23.93	W 80 34 30.32
	5907.00	14.12	170.33	5434.71	4298.37	-8.16	5.69	-6.91	9.90	536888.34	1698695.81	N 39 58 23.92	W 80 34 30.30
	6001.00	-18.05	179.01	5527.29	4341.95	1.84	-8.49	-8.47	2.61	536888.67	1698696.25	N 39 58 23.88	W 80 34 30.29
	6106.00	16.71	188.20	5673.47	4388.15	12.98	-18.55	-7.94	8.27	536888.81	1698695.30	N 39 58 23.45	W 80 34 30.30
	6207.00	18.20	194.05	5819.13	4433.79	24.43	-30.04	-10.24	5.40	536888.32	1698692.46	N 39 58 23.31	W 80 34 30.33
	6306.00	22.21	187.95	5964.96	4479.62	36.95	-49.71	-14.96	6.69	536888.66	1698692.70	N 39 58 23.15	W 80 34 30.39
	6407.00	25.27	203.66	5711.85	4525.51	50.58	-68.68	-22.21	7.76	536888.48	1698690.51	N 39 58 22.96	W 80 34 30.48
	6507.00	28.29	259.13	5781.82	4569.40	62.87	-87.00	-31.29	8.69	536888.36	1698691.48	N 39 58 22.78	W 80 34 30.56
	6600.00	32.72	219.20	5703.19	4667.85	73.95	-107.15	-44.83	13.29	536888.21	1698697.89	N 39 58 22.67	W 80 34 30.77
	6700.00	37.24	221.04	5830.05	4664.72	83.72	-125.99	-61.30	10.87	536888.57	1698691.42	N 39 58 22.38	W 80 34 30.97
	6802.00	47.08	224.16	5986.23	4662.59	83.73	-149.03	-81.63	11.13	536888.33	1698692.10	N 39 58 22.16	W 80 34 31.23

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VBEC (ft)	M9 (ft)	EW (ft)	OLS (ft)	Northing (ft)	Easting (ft)	LatBore (N/S)	Longitude (W/E)
	6287.00	51.54	216.04	6193.82	4928.28	177.14	-347.90	-279.80	7.28	530847.46	1698422.88	N 39 58 20.17	W 80 34 33.75
	6339.00	51.69	209.51	6148.93	4860.39	197.14	-382.14	-301.84	9.85	530313.24	1698408.89	N 39 58 19.83	W 80 34 34.02
	6388.00	52.42	203.90	6174.88	4898.51	216.64	-415.23	-318.44	9.84	529780.15	1698384.25	N 39 58 18.50	W 80 34 34.20
	6433.00	53.21	198.20	6203.59	5018.25	248.09	-449.82	-331.83	9.61	529348.48	1698370.40	N 39 58 18.16	W 80 34 34.40
	6480.00	53.58	193.90	6231.65	5048.61	270.24	-485.88	-342.01	8.89	528708.00	1698368.73	N 39 58 18.80	W 80 34 34.62
	6527.00	54.85	189.45	6260.61	5074.18	299.73	-523.29	-349.53	7.19	528172.06	1698353.21	N 39 58 18.43	W 80 34 34.82
	6574.00	58.13	188.14	6288.21	5100.88	331.18	-561.80	-354.78	8.00	527633.78	1698347.07	N 39 58 18.06	W 80 34 34.88
	6621.00	57.64	183.10	6311.88	5128.98	364.40	-600.83	-367.82	6.30	527194.56	1698344.81	N 39 58 17.86	W 80 34 34.71
	6668.00	58.45	180.34	6338.77	5161.48	399.06	-640.89	-389.18	4.90	526754.70	1698343.55	N 39 58 17.27	W 80 34 34.12
	6714.00	60.48	178.05	6366.16	5174.81	434.62	-680.27	-388.00	8.44	527715.12	1698344.73	N 39 58 18.87	W 80 34 34.70
	6763.00	64.08	172.51	6382.94	5197.81	474.65	-725.41	-359.67	8.77	527671.96	1698348.07	N 39 58 18.45	W 80 34 34.84
	6809.00	67.14	169.54	6401.94	5218.60	514.45	-764.78	-347.12	8.88	527630.01	1698335.81	N 39 58 18.04	W 80 34 34.65
	6857.00	70.42	167.13	6418.31	5233.03	587.42	-803.59	-338.07	6.28	527688.00	1698334.87	N 39 58 15.81	W 80 34 34.42
	6904.00	71.85	169.20	6434.40	5243.14	600.76	-851.58	-323.67	9.80	527543.81	16983378.06	N 39 58 15.19	W 80 34 34.27
	6951.00	71.90	160.87	6449.04	5263.70	644.78	-894.09	-312.89	4.71	527501.31	1698339.84	N 39 58 14.77	W 80 34 34.09
	6998.00	73.70	167.79	6462.82	5277.88	689.34	-936.00	-307.03	7.39	527458.31	16983405.71	N 39 58 14.25	W 80 34 33.88
	7043.00	77.29	158.05	6473.94	5288.83	731.81	-978.11	-279.87	10.11	527420.20	1698322.78	N 39 58 13.97	W 80 34 33.65
	7090.00	82.87	151.87	6482.72	5297.38	782.01	-1019.87	-257.41	12.84	527376.44	1698348.32	N 39 58 13.53	W 80 34 33.96
	7139.00	84.22	150.42	6487.69	5303.58	827.70	-1059.84	-235.25	3.94	527335.46	1698467.49	N 39 58 12.14	W 80 34 33.07
	7187.00	86.89	145.84	6491.62	5308.49	878.41	-1106.85	-209.99	10.69	527284.65	1698492.74	N 39 58 12.74	W 80 34 32.73
	7233.00	87.04	141.71	6494.46	5309.12	920.83	-1137.84	-182.85	9.07	527257.82	1698519.87	N 39 58 12.30	W 80 34 32.58
	7283.00	89.67	141.68	6495.92	5310.68	969.82	-1176.85	-181.66	5.31	527218.78	1698551.05	N 39 58 11.99	W 80 34 31.97
	7332.00	91.34	140.98	6485.61	5310.17	1017.98	-1214.74	-120.88	3.82	527180.07	1698581.89	N 39 58 11.82	W 80 34 31.67
	7427.00	89.90	141.34	6485.21	5309.97	1111.29	-1268.79	-81.29	2.80	527138.99	1698594.43	N 39 58 10.89	W 80 34 30.80
	7521.00	88.94	141.89	6497.05	5311.74	1203.69	-1352.98	-2.80	0.37	527093.12	1698659.82	N 39 58 10.16	W 80 34 30.03
	7615.00	89.48	142.85	6498.40	5313.08	1289.17	-1438.83	54.71	1.35	526958.79	1698677.43	N 39 58 9.45	W 80 34 29.29
	7711.00	86.38	143.35	6498.30	5314.04	1390.68	-1518.48	112.85	0.53	526822.63	1698618.87	N 39 58 8.70	W 80 34 28.63
	7806.00	88.28	144.21	6500.49	5318.10	1484.08	-1590.02	188.48	0.91	526685.30	1698671.19	N 39 58 7.98	W 80 34 27.80
	7901.00	89.42	144.89	6501.87	5318.23	1579.06	-1687.32	223.71	0.83	526548.11	1698626.43	N 39 58 7.19	W 80 34 27.00
	7998.00	88.31	145.16	6502.61	5317.77	1674.30	-1744.24	277.73	0.80	526505.19	1698690.41	N 39 58 6.44	W 80 34 26.37
	8094.00	89.36	145.38	6503.78	5318.38	1768.65	-1822.39	321.87	0.23	526474.14	1698693.68	N 39 58 5.67	W 80 34 25.69
	8184.00	89.42	145.85	6504.66	5318.34	1860.96	-1898.86	384.06	0.53	526438.56	1698687.60	N 39 58 4.91	W 80 34 24.97
	8278.00	89.51	146.72	6505.72	5320.38	1933.45	-1978.03	437.13	0.82	526417.39	1698619.80	N 39 58 4.14	W 80 34 24.29
	8374.00	89.31	146.85	6506.68	5321.54	2048.04	-2058.36	489.71	0.14	526397.00	16986192.41	N 39 58 3.38	W 80 34 23.60
	8468.00	89.31	145.85	6508.01	5322.87	2142.66	-2138.65	541.72	0.98	526358.80	1698644.42	N 39 58 2.59	W 80 34 22.92
	8563.00	89.31	145.86	6509.18	5323.82	2228.98	-2218.22	595.11	0.31	526318.23	1698629.81	N 39 58 1.82	W 80 34 22.22
	8657.00	89.28	145.20	6510.25	5324.92	2338.30	-2298.82	648.44	0.49	526280.84	1698681.14	N 39 58 1.02	W 80 34 21.58
	8751.00	89.35	145.25	6511.22	5325.88	2449.80	-2380.62	703.85	0.05	526245.84	1698694.74	N 39 58 0.50	W 80 34 20.83
	8848.00	89.52	144.67	6512.88	5326.98	2517.23	-2447.83	758.69	0.74	526217.01	1698649.38	N 39 57 58.34	W 80 34 20.11
	8936.00	89.82	144.47	6512.98	5327.82	2610.00	-2523.28	810.84	0.15	526187.18	1698613.33	N 39 57 56.56	W 80 34 19.41
	9033.00	89.36	144.25	6513.78	5328.44	2703.12	-2609.47	865.41	0.85	526159.80	1698658.09	N 39 57 55.05	W 80 34 18.69
	9135.00	89.45	143.71	6514.77	5329.43	2769.12	-2676.12	922.45	0.86	526117.25	1698626.18	N 39 57 53.20	W 80 34 17.95
	9224.00	89.28	143.01	6515.81	5330.47	2882.00	-2762.54	978.84	0.77	526084.53	1698681.22	N 39 57 56.94	W 80 34 17.22
	9318.00	88.65	142.32	6516.74	5331.40	2981.73	-2825.85	1033.79	0.82	526059.83	1698738.47	N 39 57 55.84	W 80 34 16.50
	9414.00	89.24	142.19	6517.78	5332.45	3079.23	-2904.46	1094.46	0.31	526041.41	1698797.13	N 39 57 55.07	W 80 34 15.71
	9507.00	89.42	141.80	6518.87	5333.83	3170.75	-2977.85	1151.72	0.48	526014.18	1698854.39	N 39 57 54.35	W 80 34 14.99
	9602.00	89.38	141.23	6519.87	5334.63	3264.21	-3052.07	1210.38	0.14	525993.42	1698913.60	N 39 57 53.82	W 80 34 14.19
	9697.00	89.31	142.44	6520.88	5335.61	3351.76	-3127.11	1268.82	0.84	525969.39	1698971.20	N 39 57 52.85	W 80 34 13.43
	9792.00	89.28	142.32	6522.12	5336.78	3451.37	-3203.35	1328.81	0.18	525943.14	1700029.27	N 39 57 52.15	W 80 34 12.68
	9897.00	89.24	142.54	6523.08	5338.01	3544.61	-3277.39	1384.88	0.30	525918.11	1700087.82	N 39 57 51.42	W 80 34 11.92
	9982.00	89.21	141.94	6523.63	5339.30	3638.41	-3362.23	1442.85	0.11	525894.27	1700146.01	N 39 57 50.88	W 80 34 11.18
	10078.00	89.48	141.77	6524.73	5340.39	3730.88	-3448.15	1501.41	0.21	525869.25	1700204.00	N 39 57 49.98	W 80 34 10.60
	10174.00	89.35	141.82	6525.73	5341.30	3824.28	-3532.70	1560.29	0.19	525844.81	1700262.94	N 39 57 49.33	W 80 34 9.63
	10268.00	89.52	141.83	6526.75	5342.32	3918.60	-3574.09	1618.84	0.18	525821.12	1700321.20	N 39 57 48.61	W 80 34 8.87
	10361.00	89.45	141.87	6528.52	5343.18	4011.08	-3649.87	1678.20	0.08	525797.84	1700380.85	N 39 57 47.77	W 80 34 8.10
	10458.00	89.31	141.82	6529.83	5344.20	4103.62	-3723.59	1738.34	0.30	525775.98	1700438.98	N 39 57 47.05	W 80 34 7.34
	10550.00	89.48	141.81	6530.94	5345.20	4196.68	-3794.25	1798.00	0.21	525757.27	1700497.54	N 39 57 46.32	W 80 34 6.57
	10644.00	89.48	141.39	6531.41	5346.08	4288.37	-3871.90	1853.40	0.48	525732.62	1700556.04	N 39 57 45.80	W 80 34 5.81
	10738.00	89.42	140.68	6532.34	5347.00	4381.88	-3944.87	1912.83	0.72	525708.84	1700615.17	N 39 57 44.88	W 80 34 5.04
	10830.00	88.16	140.78	6533.48	5348.13	4471.74	-4016.18	1970.77	0.27	525687.35	1700674.41	N 39 57 44.18	W 80 34 4.28
	10928.00	88.21	140.39	6534.81	5349.48	4565.77	-4090.33	2031.73	0.38	525668.21	1700734.37	N 39 57 43.46	W 80 34 3.49
	11021.00	89.21	140.41	6536.04	5350.70	4668.76	-4163.62	2092.28	0.11	525642.02	1700794.01	N 39 57 42.74	W 80 34 2.70
	11118.00	89.45	140.05	6537.07	5351.75	4761.80	-4236.89	2153.05	0.41	525618.01	1700855.00	N 39 57 42.05	W 80 34 1.91
	11210.00	89.42	140.29	6538.40	5352.88	4843.68	-4308.72	2213.26	0.28	525598.33	1700918.88	N 39 57 41.32	W 80 34 1.12
	11308.00	89.31	141.19	6539.85	5353.71	4938.73	-4382.27	2273.37	0.88	525581.26	1700978.90	N 39 57 40.60	W 80 34 0.34
	11399.00	89.24	141.81	6540.24	5354.00	5029.99	-4455.83	2331.88	0.88	525563.30	1701039.72	N 39 57 39.88	W 80 33 59.50
	11494.00	89.38	142.81	6541.46	5354.73	5122.69	-4531.00	2389.80	1.06	525548.84	1701092.58	N 39 57 39.16	W 80 33 58.82
Final Survey 10-Sep-11	11549.00	89.48	143.08	6542.06	5356.72	5176.90	-4574.88	2423.11	0.67	525532.08	1701126.73	N 39 57 38.72	W 80 33 58.39
Projection to BA	11636.00	88.48	143.05	6542.84	5357.30	5281.88	-4643.86	2474.80	0.00	525511.86	1701177.42	N 39 57 38.04	W 80 33 57.71

Survey Type: Def Survey

Survey Error Model: ISGWSA Rev 0 *** 3-D 65.000% Confidence 2.7858 sigma