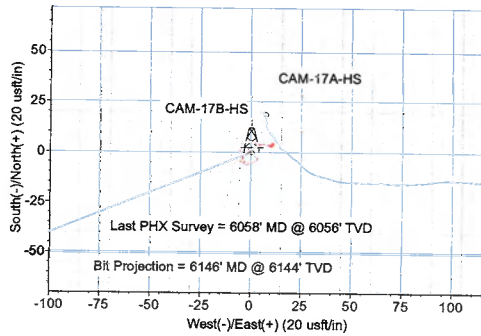
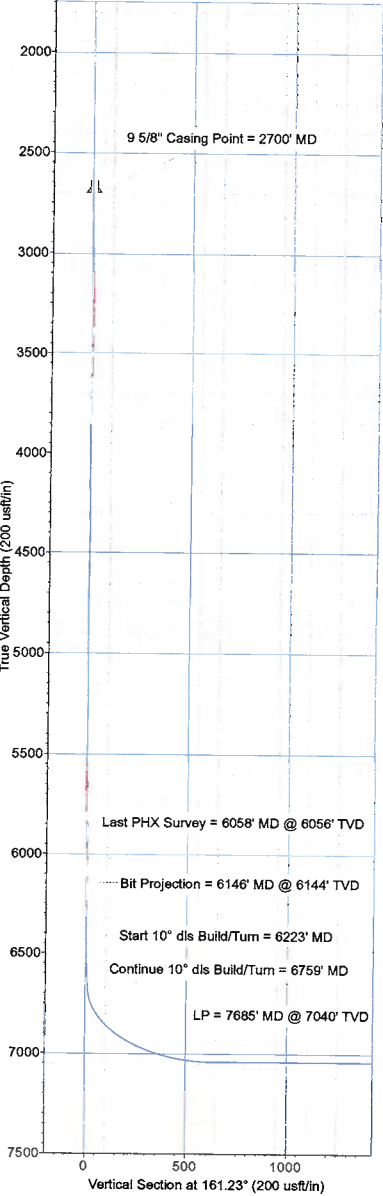
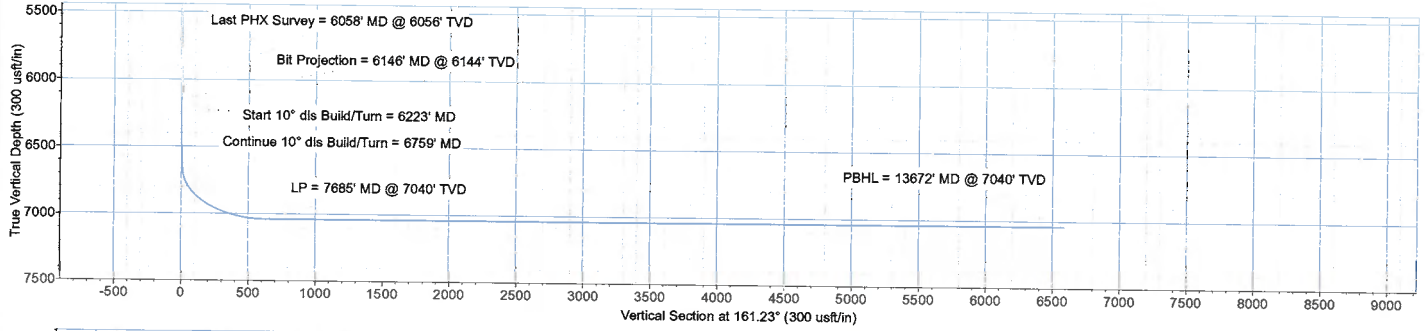


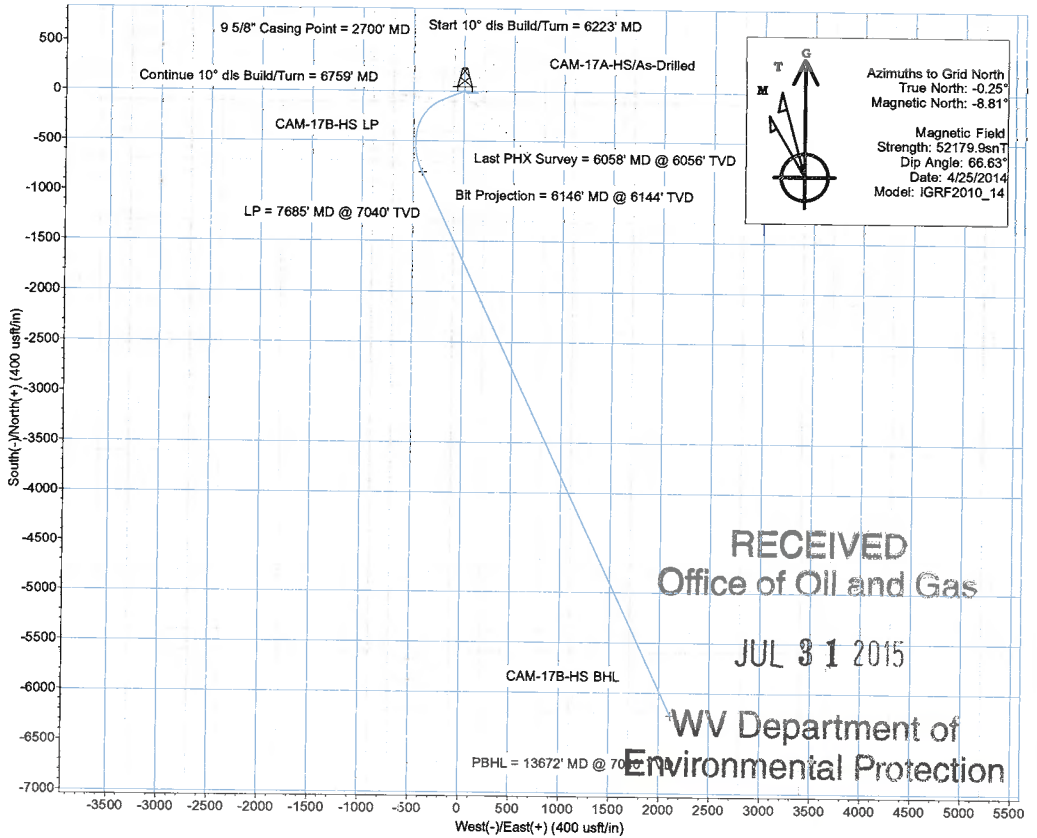


CNX Gas Company, LLC

Project: Lewis County, WV
 Site: CAM 17 Pad
 Well: CAM-17B-HS
 Wellbore: Wellbore #1
 Design: Design #1



ANNOTATIONS		
TVD	MD	Annotation
2700.00	2700.00	9 5/8" Casing Point = 2700' MD
6223.00	6223.00	Start 10° dls Build/Turn = 6223' MD
6684.34	6759.21	Continue 10° dls Build/Turn = 6759' MD
7040.00	7685.16	LP = 7685' MD @ 7040' TVD
7040.00	13672.76	PBHL = 13672' MD @ 7040' TVD



Azimuths to Grid North
 True North: -0.25°
 Magnetic North: -8.81°

Magnetic Field
 Strength: 52179.9snT
 Dip Angle: 66.63°
 Date: 4/25/2014
 Model: IGRF2010_14

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WV Department of
 Environmental Protection

08/21/2015



CNX CAM-17B-HS ST01 Surveys Off to 13362ft MD Survey Geodetic Report
(Def Survey)

Report Date: September 19, 2014 - 08:33 AM
Client: CNX
Field: WV Lewis County (NAD 27)
Structure / Slot: CNX CAM-17 Pad / CAM-17B-HS
Well: CAM-17B-HS
Borehole: ST01
LIWI / API#: Unknown / Unknown
Survey Name: CNX CAM-17B-HS ST01 Surveys Off to 13362ft MD
Survey Date: September 11, 2014
Tort / AHD / DDI / ERD Ratio: 246.079 * / 7187.366 ft / 6.535 * / 1.041
Coordinate Reference System: NAD27 West Virginia State Plane, Southern Zone, US Feet
Location Lat / Long: N 39° 4' 45.23542" W 80° 35' 13.29625"
Location Grid N/E Y/X: N 757412.800 RUS, E 2117247.000 RUS
CRS Grid Convergence Angle: 0.2655 *
Grid Scale Factor: 1.00004762
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lukinski
Vertical Section Azimuth: 161.227 * (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 1272.500 ft above MSL
Seabed / Ground Elevation: 1244.000 ft above MSL
MagDip Declination: -8.303 *
Total Gravity Field Strength: 989.2877mgn (9.80995 Eased)
Gravity Model: GARM
Total Magnetic Field Strength: 52385.272 nT
Magnetic Dip Angle: 65.577 *
Declination Date: September 11, 2014
Magnetic Declination Model: HDGM 2013
North Reference: Grid North
Grid Convergence Used: 0.2553 *
Total Corr Mag North->Grid North: -8.5578 *
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S °'")	Longitude (E/W °'")	Directional Difficulty Index
SHL	0.00	0.00	0.00	0.00	-1272.50	0.00	0.00	0.00	N/A	N/A	N/A	757412.80	2117247.00	N 39° 4' 45.24" W	80° 35' 13.30"	0.00
	128.50	0.76	301.71	128.50	-1144.00	-0.66	0.45	-0.73	0.59	0.00	0.00	757413.25	2117246.27	N 39° 4' 45.24" W	80° 35' 13.31"	0.00
	228.50	0.16	312.16	228.49	-1044.01	-1.29	0.59	-1.39	0.80	-0.80	10.45	757413.89	2117245.91	N 39° 4' 45.25" W	80° 35' 13.30"	0.35
	328.50	0.05	349.94	328.49	-944.01	-1.46	1.03	-1.50	0.12	-0.11	37.78	757413.83	2117245.50	N 39° 4' 45.25" W	80° 35' 13.32"	0.44
	428.50	0.09	76.48	428.49	-844.01	-1.49	1.09	-1.44	0.10	0.04	86.54	757413.89	2117245.56	N 39° 4' 45.25" W	80° 35' 13.31"	0.49
	528.50	0.12	84.26	528.49	-744.01	-1.46	1.12	-1.25	0.03	0.03	7.78	757413.92	2117245.75	N 39° 4' 45.25" W	80° 35' 13.31"	0.54
	628.50	0.16	628.46	628.46	-644.01	-1.45	1.18	-1.02	0.06	0.04	-17.48	757413.98	2117245.98	N 39° 4' 45.25" W	80° 35' 13.31"	0.60
	728.50	0.23	93.66	728.49	-544.01	-1.38	1.22	-0.69	0.07	0.07	28.86	757414.02	2117246.31	N 39° 4' 45.25" W	80° 35' 13.30"	0.68
	828.50	0.18	95.39	828.49	-444.01	-1.24	1.20	-0.34	0.05	-0.05	1.73	757414.00	2117246.68	N 39° 4' 45.25" W	80° 35' 13.30"	0.75
	928.50	0.20	128.31	928.49	-344.01	-1.03	1.07	-0.04	0.11	0.02	32.92	757413.87	2117246.96	N 39° 4' 45.25" W	80° 35' 13.30"	0.82
	1028.50	0.31	114.17	1028.48	-244.01	-0.70	0.86	0.34	0.13	0.11	-14.14	757413.66	2117247.34	N 39° 4' 45.24" W	80° 35' 13.29"	0.90
	1128.50	0.27	111.01	1128.49	-144.01	-0.37	0.66	0.81	0.04	-0.04	-3.16	757413.46	2117247.81	N 39° 4' 45.24" W	80° 35' 13.29"	0.96
	1228.50	0.67	116.37	1228.48	-44.02	0.20	0.32	1.55	0.40	0.40	5.36	757413.12	2117248.55	N 39° 4' 45.24" W	80° 35' 13.28"	1.11
	1328.50	0.52	127.61	1328.48	55.98	0.99	-0.22	2.43	0.19	-0.15	11.24	757412.58	2117249.43	N 39° 4' 45.23" W	80° 35' 13.27"	1.22
	1428.50	0.36	128.98	1428.48	155.98	1.63	-0.69	3.04	0.16	-0.16	-0.63	757412.11	2117250.04	N 39° 4' 45.23" W	80° 35' 13.26"	1.30
	1528.50	0.70	132.88	1528.47	255.97	2.43	-1.29	3.74	0.34	0.34	5.90	757411.51	2117250.74	N 39° 4' 45.22" W	80° 35' 13.25"	1.40
	1628.50	0.64	148.08	1628.46	355.96	3.51	-2.18	4.40	0.19	-0.26	15.18	757410.62	2117251.49	N 39° 4' 45.21" W	80° 35' 13.24"	1.49
	1728.50	0.59	142.14	1728.46	455.96	4.54	-3.06	5.10	0.08	-0.05	-5.92	757409.74	2117252.10	N 39° 4' 45.20" W	80° 35' 13.23"	1.55
	1828.50	0.79	140.85	1828.45	555.95	5.67	-4.00	5.85	0.20	0.20	-1.29	757408.80	2117252.85	N 39° 4' 45.20" W	80° 35' 13.22"	1.62
	1928.50	0.54	131.40	1928.44	655.94	6.73	-4.85	6.64	0.27	-0.25	-9.45	757407.95	2117253.64	N 39° 4' 45.19" W	80° 35' 13.21"	1.69
	2028.50	0.67	133.61	2028.44	755.94	7.65	-5.56	7.41	0.13	0.13	2.21	757407.24	2117254.41	N 39° 4' 45.18" W	80° 35' 13.20"	1.74
	2128.50	0.80	129.30	2128.43	855.93	8.78	-6.41	8.38	0.14	0.13	-4.31	757406.38	2117255.38	N 39° 4' 45.17" W	80° 35' 13.19"	1.80
	2228.50	0.81	125.98	2228.42	955.92	9.93	-7.27	9.49	0.05	0.01	-3.44	757405.53	2117256.49	N 39° 4' 45.16" W	80° 35' 13.18"	1.84
	2328.50	0.99	133.40	2328.41	1055.91	11.27	-8.27	10.69	0.22	0.18	7.54	757404.53	2117257.69	N 39° 4' 45.15" W	80° 35' 13.16"	1.90
	2428.50	1.16	125.40	2428.39	1155.89	12.87	-9.46	12.16	0.24	0.19	-8.00	757403.34	2117259.16	N 39° 4' 45.14" W	80° 35' 13.14"	1.97
	2528.50	1.43	127.59	2528.36	1255.86	14.75	-10.82	13.99	0.25	0.25	2.19	757401.98	2117260.99	N 39° 4' 45.13" W	80° 35' 13.12"	2.04
	2628.50	1.38	125.97	2628.33	1355.83	16.77	-12.29	15.95	0.06	-0.05	-1.62	757400.51	2117262.85	N 39° 4' 45.11" W	80° 35' 13.09"	2.09
	2678.50	1.42	129.40	2678.32	1405.82	17.79	-13.04	16.92	0.19	0.08	6.88	757399.76	2117263.82	N 39° 4' 45.11" W	80° 35' 13.08"	2.12
	2718.50	0.00	0.00	2718.82	1443.32	18.18	-13.33	17.28	3.79	-3.79	0.00	757399.47	2117264.28	N 39° 4' 45.10" W	80° 35' 13.08"	2.23
	2811.00	1.40	129.70	2810.81	1538.31	19.17	-14.07	18.17	1.47	1.47	0.00	757398.73	2117265.17	N 39° 4' 45.10" W	80° 35' 13.07"	2.34
	2855.00	1.50	129.50	2854.79	1582.29	20.12	-14.78	19.03	0.23	0.23	-0.45	757398.02	2117266.03	N 39° 4' 45.09" W	80° 35' 13.06"	2.36
	2899.00	1.50	130.00	2898.78	1626.28	21.10	-15.52	19.91	0.03	0.00	1.14	757397.28	2117266.91	N 39° 4' 45.08" W	80° 35' 13.04"	2.38
	2943.00	1.30	176.70	2942.77	1670.27	22.07	-16.39	20.38	2.86	0.40	106.14	757396.41	2117267.38	N 39° 4' 45.07" W	80° 35' 13.04"	2.45
	2987.00	1.10	203.90	2986.76	1714.26	22.83	-17.25	20.20	1.62	0.40	75.45	757395.55	2117267.85	N 39° 4' 45.06" W	80° 35' 13.04"	2.49
	3030.00	1.50	255.50	3029.75	1757.25	23.08	-17.75	19.45	2.49	0.93	106.05	757394.65	2117268.45	N 39° 4' 45.06" W	80° 35' 13.05"	2.55
	3074.00	1.30	260.80	3073.73	1801.23	22.94	-17.97	18.40	0.54	-0.45	12.05	757393.83	2117269.40	N 39° 4' 45.06" W	80° 35' 13.06"	2.57
	3118.00	1.30	246.70	3117.72	1845.22	22.60	-18.25	17.45	0.73	0.00	-32.05	757393.55	2117269.45	N 39° 4' 45.05" W	80° 35' 13.08"	2.60
	3151.00	1.20	236.50	3150.71	1889.21	22.05	-18.69	16.62	0.55	-0.23	-22.79	757393.11	2117269.82	N 39° 4' 45.05" W	80° 35' 13.09"	2.62
	3206.00	1.10	240.30	3205.70	1933.20	23.24	-19.16	15.65	0.27	-0.22	7.56	757392.54	2117269.91	N 39° 4' 45.05" W	80° 35' 13.10"	2.64
	3251.00	1.20	290.20	3250.69	1978.19	23.03	-19.21	15.04	2.17	0.22	110.89	757393.59	2117262.04	N 39° 4' 45.04" W	80° 35' 13.11"	2.68
	3296.00	1.30	301.50	3295.68	2023.18	22.34	-18.78	14.16	0.59	0.22	25.11	757394.02	2117261.16	N 39° 4' 45.05" W	80° 35' 13.12"	2.70
	3341.00	1.10	294.20	3340.67	2068.17	21.05	-18.34	13.33	0.96	-0.44	-16.22	757394.46	2117260.33	N 39° 4' 45.05" W	80° 35' 13.13"	2.72
	3385.00	1.10	292.60	3384.67	2112.17	21.09	-18.00	12.55	0.07	0.00	-3.74	757394.80	2117259.55	N 39° 4' 45.05" W	80° 35' 13.14"	2.73
	3428.00	0.80	300.70	3427.66	2155.16	20.59	-17.69	11.91	0.76	-0.70	18.94	757395.11	2117259.51	N 39° 4' 45.06" W	80° 35' 13.15"	2.75
	3472.00	1.00	30.30	3471.66	2199.16	20.10	-17.20	11.84	2.90	0.45	203.64	757395.60	2117258.84	N 39° 4' 45.06" W	80° 35' 13.15"	2.79
	3522.00	1.30	40.30	3521.65	2243.15	19.52	-16.39	12.43	0.72	0.60	20.00	757396.40	2117259.43	N 39° 4' 45.07" W	80° 35' 13.14"	2.81
	3562.00	1.20	40.80	3561.64	2287.14	19.08	-15.78	13.00	0.25	-0.25	1.25	757397.07	2117260.00	N 39° 4' 45.08" W	80° 35' 13.13"	2.82
	3606.00	1.00	35.00	3605.63	2331.13	18.62	-15.07	13.52	0.52	-0.45	-13.18	757397.78	2117260.52	N 39° 4' 45.09" W	80° 35' 13.13"	2.84
	3650.00	1.10	42.60	3649.62	2375.12	18.19	-14.44	14.03	0.39	0.23	17.27	757398.36	2117261.03	N 39° 4' 45.09" W	80° 35' 13.12"	2.85
	3695.00	1.50	46.40	3694.61	2422.11	17.73	-13.72	14.74	0.91	0.89	8.44	757399.08	2117261.74	N 39° 4' 45.10" W	80° 35' 13.11"	2.87
	3739.00	1.80	59.50	3738.59	2466.09	17.34	-12.96	15.75	1.04	0.88	27.50	757399.84	2117262.75	N 39° 4' 45.11" W	80° 35' 13.10"	2.90
	3784.00	2.00	56.50	3783.57	2511.07	16.88	-12.18	17.01	0.47	0.44	-4.44	757400.64	2117263.01	N 39° 4' 45.11" W	80° 35' 13.08"	2.91
	3829.00	2.30	63.00	3828.54	2556.04	16.96	-11.31	18.47	0.86	0.67	14.44	757401.49	2117263.47	N 39° 4' 45.11" W	80° 35' 13.06"	2.94
	3874.00	2.50	62.40	3873.50	2601.00	16.38	-10.45	20.14	0.45	0.44	-1.33	757402.35	2117267.14	N 39° 4' 45.13" W	80° 35' 13.04"	2.96
	3919.00	2.50	67.30	3918.45	2645.95	16.16	-9.62	21.92	0.47	0.00	10.89	757403.18	2117268.92	N 39° 4' 45.14" W	80° 35' 13.02"	2.98
	3963.00	1.30	83.50	3962.43	2689.93	16.20	-8.19	23.30	2.96	-2.73	36.82	757403.81	2117270.30	N 39° 4' 45.14" W	80° 35' 13.00"	3.02
	4008.00	1.10	100.00	4007.42	2734.92	16.51	-8.21	24.23	0.88	-0.44	36.67	757404.59	2117271.23	N 39° 4' 45.14" W	80° 35' 12.99"	3.04
	4052.0															

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Directional	Difficulty Index
	5493.00	15.01	252.71	5488.09	4215.59	14.54	-18.99	-10.58	3.27	0.89	-12.32	757393.84	2117236.42	N 39 4 45.05 W	80 35 13.43		3.74
	5540.00	17.29	252.01	5533.23	4290.73	14.29	-22.92	-23.04	4.87	1.49	-11.99	757399.88	2117233.96	N 39 4 45.01 W	80 35 13.59		3.81
	5587.00	21.35	246.20	5677.58	4305.08	14.84	-28.54	-37.52	8.55	8.64	-12.38	757384.26	2117239.48	N 39 4 44.96 W	80 35 13.77		3.96
	5634.00	25.73	243.98	5620.66	4348.16	17.05	-36.53	-54.49	9.58	9.32	-5.57	757376.27	2117162.51	N 39 4 44.88 W	80 35 13.90		3.98
	5685.00	27.30	248.77	5666.30	4393.80	19.03	-45.69	-75.31	5.49	3.08	10.18	757375.10	2117171.69	N 39 4 44.79 W	80 35 14.25		4.06
	5729.00	28.75	249.60	5705.49	4432.99	19.74	-52.80	-94.00	1.52	-1.25	1.89	757360.00	2117153.00	N 39 4 44.72 W	80 35 14.49		4.11
	5823.00	28.27	246.42	5788.87	4516.37	22.21	-69.08	-134.23	2.25	-3.38	757343.72	2117112.76	N 39 4 44.56 W	80 35 15.00		4.21	
	5917.00	27.22	249.35	5872.06	4598.56	24.78	-85.57	-174.75	1.83	-1.12	3.12	757327.23	2117072.24	N 39 4 44.40 W	80 35 15.52		4.30
	6011.00	25.54	251.58	5956.27	4683.77	25.30	-99.55	-214.10	2.07	-1.79	2.37	757313.24	2117032.89	N 39 4 44.26 W	80 35 16.02		4.37
	6105.00	27.39	249.61	6040.42	4767.92	25.84	-113.49	-253.60	2.18	1.97	-2.10	757299.30	2116993.39	N 39 4 44.12 W	80 35 16.52		4.43
	6199.00	28.50	246.61	6123.46	4850.96	28.26	-129.93	-294.45	1.91	1.18	-3.19	757282.86	2116952.54	N 39 4 43.96 W	80 35 17.04		4.49
	6293.00	27.97	250.58	6206.28	4933.78	30.31	-146.16	-335.83	2.08	-0.56	4.22	757266.63	2116911.16	N 39 4 43.81 W	80 35 17.56		4.55
	6340.00	26.97	249.46	6247.98	4975.48	30.77	-153.57	-356.20	2.39	-2.13	-2.38	757259.23	2116890.78	N 39 4 43.73 W	80 35 17.82		4.58
	6387.00	25.81	248.22	6290.09	5017.59	31.63	-161.10	-375.68	2.73	-2.47	-2.64	757251.69	2116871.30	N 39 4 43.66 W	80 35 18.07		4.60
	6434.00	24.54	236.87	6332.05	5060.15	34.59	-170.24	-393.37	10.81	-2.70	-24.15	757242.55	2116853.61	N 39 4 43.57 W	80 35 18.29		4.65
	6481.00	25.04	226.90	6375.33	5102.83	41.11	-182.38	-408.81	8.95	1.06	-21.21	757230.42	2116838.17	N 39 4 43.45 W	80 35 18.49		4.69
	6528.00	26.31	219.31	6417.70	5145.20	50.72	-197.24	-422.68	7.49	2.70	-16.15	757215.56	2116824.30	N 39 4 43.30 W	80 35 18.67		4.72
	6575.00	28.03	215.89	6459.52	5187.02	62.61	-214.24	-435.75	4.94	3.98	-7.28	757198.55	2116811.23	N 39 4 43.14 W	80 35 18.83		4.75
	6622.00	28.37	207.78	6500.76	5228.26	76.93	-233.40	-447.60	8.78	2.85	-17.30	757179.39	2116799.38	N 39 4 42.95 W	80 35 18.99		4.78
	6669.00	31.49	199.38	6541.30	5268.80	94.53	-255.19	-457.05	10.08	4.51	-17.83	757157.60	2116789.93	N 39 4 42.73 W	80 35 19.11		4.82
	6718.00	34.87	193.44	6582.32	5309.82	116.45	-280.90	-464.55	9.56	6.90	-12.12	757131.89	2116782.42	N 39 4 42.48 W	80 35 19.20		4.88
	6763.00	36.78	190.25	6618.81	5346.31	139.12	-306.67	-469.94	5.93	4.24	-7.09	757106.11	2116777.04	N 39 4 42.22 W	80 35 19.27		4.89
	6810.00	39.36	189.65	6655.80	5383.30	164.54	-335.22	-474.95	5.55	5.49	-1.28	757077.57	2116772.03	N 39 4 41.94 W	80 35 19.34		4.91
	6858.00	42.60	188.31	6692.04	5419.54	192.39	-365.30	-479.85	6.99	6.75	-2.79	757046.48	2116767.13	N 39 4 41.84 W	80 35 19.40		4.95
	6905.00	45.58	187.42	6725.80	5453.30	221.62	-398.89	-484.31	6.43	6.30	-1.89	757014.09	2116762.67	N 39 4 41.52 W	80 35 19.46		5.01
	6952.00	50.10	184.22	6757.35	5484.85	253.29	-433.33	-487.81	10.50	9.66	-6.81	756979.45	2116759.17	N 39 4 40.57 W	80 35 19.51		5.08
	6999.00	54.16	182.29	6788.19	5513.69	287.68	-470.36	-489.50	9.23	8.84	-4.11	756942.42	2116757.08	N 39 4 40.61 W	80 35 19.53		5.05
	7046.00	59.29	178.13	6811.98	5539.48	324.83	-509.63	-490.00	13.18	10.91	-8.85	756903.15	2116756.98	N 39 4 40.22 W	80 35 19.54		5.09
	7093.00	65.16	175.24	6833.89	5561.38	364.89	-551.12	-487.57	13.62	12.49	-8.15	756861.66	2116759.41	N 39 4 39.81 W	80 35 19.51		5.13
	7140.00	69.79	171.45	6851.88	5579.38	407.32	-594.22	-482.52	12.35	9.85	-8.09	756818.56	2116764.46	N 39 4 39.38 W	80 35 19.45		5.17
	7187.00	73.22	166.75	6869.80	5594.30	451.46	-637.06	-474.07	11.96	7.30	-10.00	756774.81	2116772.91	N 39 4 38.95 W	80 35 19.34		5.21
	7234.00	76.26	162.30	6889.17	5606.87	496.71	-681.84	-481.97	11.19	6.47	-9.47	756731.13	2116785.01	N 39 4 38.52 W	80 35 19.19		5.25
	7281.00	81.10	158.41	6898.08	5616.30	542.76	-725.01	-486.47	13.11	10.30	-6.28	756687.75	2116800.51	N 39 4 38.09 W	80 35 19.00		5.28
	7328.00	85.15	155.09	6904.02	5621.52	589.20	-767.87	-489.05	11.11	8.62	-7.65	756644.93	2116818.63	N 39 4 37.65 W	80 35 18.77		5.32
	7422.00	88.45	154.14	6899.27	5626.77	682.48	-852.65	-387.82	3.65	3.51	-1.01	756600.11	2116859.16	N 39 4 36.82 W	80 35 18.28		5.36
	7504.00	88.55	154.85	6901.42	5628.92	763.87	-926.57	-352.40	0.63	0.12	0.62	756486.19	2116894.59	N 39 4 36.09 W	80 35 17.82		5.40
	7597.00	93.04	150.71	6902.56	5630.06	856.42	-1011.30	-314.10	2.73	1.60	2.22	756401.45	2116932.88	N 39 4 35.25 W	80 35 17.34		5.44
	7692.00	95.22	150.55	6902.35	5629.85	951.11	-1098.51	-276.42	0.25	0.19	-0.17	756314.24	2116970.57	N 39 4 34.39 W	80 35 16.86		5.47
	7786.00	90.04	156.68	6902.13	5629.63	1044.80	-1184.76	-239.03	0.19	-0.19	0.03	756227.99	2117007.96	N 39 4 33.54 W	80 35 16.59		5.51
	7880.00	90.48	156.48	6901.71	5629.21	1138.49	-1270.98	-201.60	0.48	0.47	-0.11	756141.76	2117045.39	N 39 4 32.68 W	80 35 15.92		5.54
	7974.00	91.10	156.00	6900.41	5627.91	1232.04	-1358.67	-162.98	1.71	0.66	-1.57	756056.07	2117084.01	N 39 4 31.83 W	80 35 15.44		5.57
	8069.00	91.71	156.84	6899.08	5626.58	1326.60	-1443.37	-124.23	2.04	0.64	1.94	755969.37	2117122.76	N 39 4 30.97 W	80 35 14.95		5.60
	8163.00	91.54	156.75	6898.41	5625.91	1420.22	-1529.40	-86.46	1.17	-0.18	-1.16	755883.33	2117168.54	N 39 4 30.12 W	80 35 14.48		5.63
	8257.00	91.19	155.03	6893.16	5620.68	1513.70	-1614.84	-47.32	0.85	-0.37	-0.77	755797.89	2117199.68	N 39 4 29.28 W	80 35 13.99		5.66
	8352.00	91.19	156.88	6891.20	5618.70	1608.25	-1701.47	-8.40	1.63	0.00	1.63	755711.25	2117238.00	N 39 4 28.42 W	80 35 13.50		5.68
	8446.00	91.36	156.88	6890.11	5616.61	1701.85	-1787.38	29.71	1.08	0.18	-1.06	755625.34	2117276.71	N 39 4 27.57 W	80 35 13.02		5.71
	8540.00	92.24	156.07	6886.16	5613.85	1795.38	-1873.09	88.18	1.07	0.94	0.52	755539.63	2117315.19	N 39 4 26.72 W	80 35 12.54		5.73
	8634.00	91.98	155.92	6882.70	5610.20	1888.93	-1958.60	106.40	0.32	-0.28	-0.16	755453.81	2117353.40	N 39 4 25.87 W	80 35 12.06		5.75
	8728.00	91.45	155.84	6879.89	5607.38	1982.46	-2044.59	114.94	0.64	-0.56	-0.30	755368.12	2117391.95	N 39 4 25.02 W	80 35 11.57		5.78
	8820.00	91.98	153.67	6877.13	5604.63	2073.81	-2127.69	184.30	2.22	0.58	-2.14	755285.01	2117431.31	N 39 4 24.20 W	80 35 11.08		5.80
	8914.00	92.07	155.33	6873.81	5601.31	2167.10	-2212.48	224.75	1.77	0.10	1.77	755200.22	2117471.76	N 39 4 23.36 W	80 35 10.57		5.83
	9008.00	91.89	152.21	6870.50	5598.05	2260.24	-2296.74	266.26	3.32	-0.19	-3.32	755115.96	2117513.27	N 39 4 22.52 W	80 35 10.05		5.85
	9102.00	91.28	151.95	6867.96	5595.46	2353.01	-2379.76	310.26	0.71	-0.65	-0.28	755032.93	2117551.67	N 39 4 21.70 W	80 35 9.50		5.87
	9196.00	91.80	152.51	6865.43	5592.93	2445.82	-2462.91	354.04	0.81	0.55	0.60	754949.78	2117601.08	N 39 4 20.88 W	80 35 8.95		5.89
	9290.00	91.71	152.19	6862.95	5590.05	2538.65	-2546.13	397.64	0.35	-0.10	-0.34	754866.55	2117644.68	N 39 4 20.05 W	80 35 8.40		5.91
	9384.00	91.80	155.63	6859.67	5587.17	2631.83	-2630.50	439.96	0.86	1.00	3.66	754782.18	2117698.58	N 39 4 19.22 W	80 35 7.89		5.94
	9478.00	91.28	156.04	6857.15	5584.05	2725.29	-2715.89	478.17	0.74	0.55	-0.63	754698.78	2117725.10	N 39 4 18.37 W	80 35 7.39		5.96
	9573.00	91.28	154.93	6855.03	5582.53	2819.71	-2801.95	518.33	0.10	0.00	-0.12	754610.71	2117765.35	N 39 4 17.52 W	80 35 6.88		5.97
	9667.00	91.28	155.42	6852.93	5580.43	2913.16	-2887.25	557.79	0.52	0.00	0.52	754525.42	2117804.81	N 39 4 16.67 W	80 35 6.39		5.99
	9760.00	90.92	156.68	6851.14	5578.64	3005.99	-2971.90	596.27	0.48	-0.39	0.28	754440.77	2117843.30	N 39 4 15.83 W	80 35 5.90		6.01
	9854.00	91.71	154.60	6848.98	5576.48	3099.13											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °'")	Longitude (E/W °'")	Directional Difficulty Index	
		1	2716.000	5193.000	Act Slns	30.000	30.000	SLB_MWD-STD									
		1	5193.000	13274.000	Act Slns	30.000	30.000	SLB_MWD-STD									
		1	13274.000	13362.000	Act Slns	30.000	30.000	SLB_BLIND+TREND									

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