

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

DATE: 11/12/2008
API #: 47-5101117

Well Operator's Report of Well Work

Farm name: MELISSA KNIGHT & THOMAS FOX Operator Well No.: MC-59A

LOCATION: Elevation: 1340.17' Quadrangle: CAMERON, WV-PA 7.5'

District: CAMERON County: MARSHALL
Latitude: 4,384' Feet South of 39' Deg. 51' Min. 47.25' Sec.
Longitude: 7.961' Feet West of 80' Deg. 36' Min. 41.31' Sec.

Company: CNX Gas Company, LLC

Address: 2481 John Nash BLVD Bluefield Wv 24701	Casing & Tubing	Used in drilling	Left in well	Cement Fill Up (# of Sacks)
Agent: Les Arrington	9 5/8"	42.0'	42.0'	Sanded in
Inspector: Bill Hatfield	7"	617.5'	617.5'	110 SKS
Date Permit Issued:				
Date Well Work Commenced: 5/12/08				
Date Well Work Completed: 5/25/08				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable <input checked="" type="radio"/> Rig				
Total Depth (feet): 907'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 907'				

RECEIVED
Office of Oil & Gas
JAN 18 2009
WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation Pittsburgh COAL SEAM depth (ft) 907'-913'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Gas Well DOE MC-59A (API No. 47-5101117) is a horizontal well for CNX Gas Company, LLC. Refer to the attached information for additional information.

Signed: Geoff Lanning
By: Geoff Lanning Drilling Manager
Date: 1/8/09



Scientific Drilling
CBM Directional Operations

CNX Gas Company, LLC

Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: WEST LEG



Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WEST LEG TD	919.00	2806.36	407.85	501191.03	1688388.22	Rectangle (1669x200)
INTERCEPT TD	919.00	261.16	238.79	498645.83	1688189.16	Circle (Radius: 1)
Property Line 1	0.00	0.00	0.00	498384.87	1687950.37	Polygon
Property Line 2	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 3	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 4	0.00	0.00	0.00	498384.67	1687950.37	Polygon
EAST CENTER LEG TD	919.00	2593.86	2668.38	500978.53	1690618.75	Rectangle (3180x200)
EAST LEG TD	919.00	777.55	2371.63	499162.22	1690322.00	Rectangle (1430x200)
WEST CENTER LEG TD	919.00	2807.24	1481.41	501191.91	1689431.78	Rectangle (2359x200)

SITE DETAILS

MC 59 WELL LOCATION

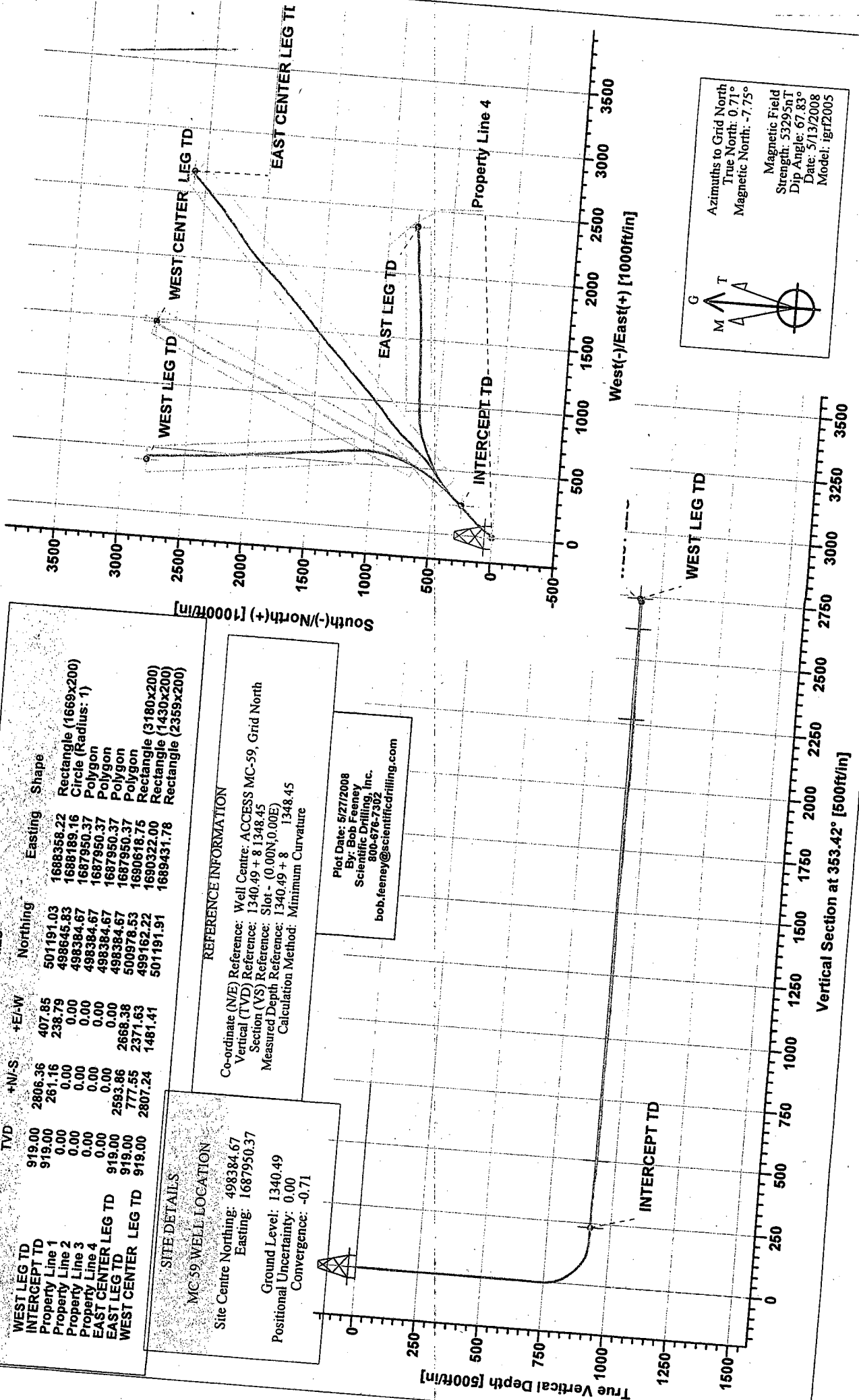
Site Centre Northing: 498384.67
Easting: 1687950.37

Ground Level: 1340.49
Positional Uncertainty: 0.00
Convergence: -0.71

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Centre: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.45
Section (VS) Reference: Slot - (0.00N,0.00E)
Measured Depth Reference: 1340.49 + 8 1348.45
Calculation Method: Minimum Curvature

Plot Date: 5/27/2008
By: Bob Feeney
Scientific Drilling, Inc.
800-676-7302
bob.feeney@scientificdrilling.com



Scientific Drilling Survey Report

Company: CNX Gas Company, LLC
 Field: MARSHALL COUNTY, WV
 Site: MC 59 WELL LOCATION
 Well: ACCESS MC-59
 Wellpath: WEST LEG

Date: 5/27/2008
 Time: 07:27:23
 Co-ordinate(N/E) Reference: Well: ACCESS MC-59, Grid North
 Vertical (TVD) Reference: 1340.49 + 8 1348.4
 Section (VS) Reference: Well (0.00N,0.00E,353.42Azi)
 Survey Calculation Method: Minimum Curvature

Page: 1
 Db: Sybase

Field: MARSHALL COUNTY, WV
 Northern West Virginia and Pennsylvania Operations
 U.S.A.

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: West Virginia, Northern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: igrf2005

Site: MC 59 WELL LOCATION

Site Position:
 From: Map
 Position Uncertainty:
 Ground Level:

0.00 ft
 1340.49 ft

Northing: 498384.67 ft
 Easting: 1687950.37 ft

Latitude: 39 51 46.945 N
 Longitude: 80 36 41.949 W
 North Reference: Grid
 Grid Convergence: -0.71 deg

Well: ACCESS MC-59

Well Position: +N/-S 0.00 ft
 +E/-W 0.00 ft

Position Uncertainty: 0.00 ft

Northing: 498384.67 ft
 Easting: 1687950.37 ft

Latitude: 39 51 46.945 N
 Longitude: 80 36 41.949 W

Slot Name:

Wellpath: WEST LEG

Current Datum: 1340.49 + 8
 Magnetic Data: 5/13/2008
 Field Strength: 53295 nT
 Vertical Section: Depth From (TVD) ft

0.00

Height 1348.45 ft

+N/-S ft
 0.00

Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: -8.46 deg
 Mag Dip Angle: 67.83 deg
 +E/-W ft
 0.00

Direction deg
 353.42

Survey Program for Definitive Wellpath
 Date: 5/19/2008
 Actual From To ft ft
 Validated: No Survey

0.00 584.00 Survey #1
 584.00 3824.00 Survey #2

Version: 2
 Toolcode

Tool Name

Drop Gyro-SYS
 MWD-SDI-SYS

Drop Gyro Systematic
 Scientific MWD Systematic

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.34	290.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
50.00	0.55	43.80	50.00	0.23	0.03	0.22	1.50	0.42	226.00	Drop Gyro-SYS
100.00	0.65	62.10	100.00	0.53	0.44	0.48	0.43	0.20	36.60	Drop Gyro-SYS
150.00	1.04	95.60	149.99	0.62	1.15	0.48	1.23	0.78	67.00	Drop Gyro-SYS
200.00	0.98	88.50	199.98	0.59	2.03	0.35	0.28	-0.12	-14.20	Drop Gyro-SYS
250.00	0.93	72.30	249.98	0.72	2.84	0.39	0.55	-0.10	-32.40	Drop Gyro-SYS
300.00	0.77	74.00	299.97	0.94	3.55	0.52	0.32	-0.32	3.40	Drop Gyro-SYS
350.00	0.62	67.00	349.97	1.14	4.12	0.66	0.34	-0.30	-14.00	Drop Gyro-SYS
400.00	0.79	64.20	399.96	1.39	4.68	0.85	0.35	0.34	-5.60	Drop Gyro-SYS
450.00	0.66	76.20	449.96	1.61	5.27	1.00	0.40	-0.26	24.00	Drop Gyro-SYS
500.00	0.94	72.70	499.95	1.80	5.94	1.11	0.57	0.56	-7.00	Drop Gyro-SYS
550.00	0.99	81.20	549.95	1.99	6.76	1.20	0.30	0.10	17.00	Drop Gyro-SYS
584.00	0.99	90.21	583.94	2.03	7.34	1.18	0.46	0.00	26.50	Drop Gyro-SYS
720.00	1.71	170.34	719.91	0.03	8.86	-0.99	1.34	0.53	58.92	MWD-SDI-SYS
751.00	4.40	44.81	750.89	0.42	9.78	-0.71	17.97	8.68	-404.94	MWD-SDI-SYS
783.00	17.15	36.16	782.26	5.12	13.44	3.54	40.05	39.84	-27.03	MWD-SDI-SYS
814.00	29.65	31.76	810.65	15.37	20.20	12.95	40.69	40.32	-14.19	MWD-SDI-SYS
846.00	41.97	32.67	836.55	31.17	30.18	27.50	38.53	38.50	2.84	MWD-SDI-SYS
878.00	51.90	35.50	858.38	50.47	43.30	45.18	31.69	31.03	8.84	MWD-SDI-SYS
909.00	57.88	37.90	876.20	70.78	58.46	63.62	20.30	19.29	7.74	MWD-SDI-SYS
941.00	64.53	39.54	891.61	92.64	76.01	83.32	21.26	20.78	5.12	MWD-SDI-SYS
972.00	71.73	39.02	903.15	114.90	94.20	103.35	23.28	23.23	-1.68	MWD-SDI-SYS

Scientific Drilling

Survey Report

Company: CNX Gas Company, LLC	Date: 5/27/2008	Time: 07:27:23	Page: 2
Field: MARSHALL COUNTY, WV	Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North		
Site: MC 59 WELL LOCATION	Vertical (TVD) Reference: 1340.49 + 8 1348.4		
Well: ACCESS MC-59	Section (VS) Reference: Well (0.00N,0.00E,353.42Azi)		
Wellpath: WEST LEG	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1003.00	79.66	39.69	910.80	138.10	113.24	124.22	25.67	25.58	2.16	MWD-SDI-SYS
1034.00	85.42	42.23	914.83	161.30	133.38	144.95	20.28	18.58	8.19	MWD-SDI-SYS
1066.00	86.27	45.36	917.15	184.33	155.47	165.31	10.11	2.66	9.78	MWD-SDI-SYS
1097.00	90.03	43.19	918.15	206.51	177.09	184.86	14.00	12.13	-7.00	MWD-SDI-SYS
1127.00	90.37	42.75	918.04	228.47	197.54	204.32	1.85	1.13	-1.47	MWD-SDI-SYS
1160.00	89.46	42.54	918.09	252.74	219.90	225.88	2.83	-2.76	-0.64	MWD-SDI-SYS
1194.00	89.90	43.14	918.28	277.67	243.01	247.99	2.19	1.29	1.76	MWD-SDI-SYS
1225.00	90.40	42.85	918.20	300.34	264.15	268.09	1.86	1.61	-0.94	MWD-SDI-SYS
1257.00	91.24	42.55	917.74	323.86	285.85	288.97	2.79	2.62	-0.94	MWD-SDI-SYS
1289.00	89.43	41.42	917.55	347.64	307.26	310.14	6.67	-5.66	-3.53	MWD-SDI-SYS
1320.00	89.06	39.59	917.96	371.21	327.39	331.25	6.02	-1.19	-5.90	MWD-SDI-SYS
1352.00	88.96	39.25	918.52	395.93	347.71	353.47	1.11	-0.31	-1.06	MWD-SDI-SYS
1383.00	89.09	37.22	919.04	420.27	366.89	375.46	6.56	0.42	-6.55	MWD-SDI-SYS
1415.00	88.32	34.70	919.77	446.16	385.67	399.03	8.23	-2.41	-7.87	MWD-SDI-SYS
1447.00	88.18	33.48	920.74	472.65	403.60	423.29	3.84	-0.44	-3.81	MWD-SDI-SYS
1478.00	88.19	33.28	921.73	498.53	420.65	447.04	0.65	0.03	-0.65	MWD-SDI-SYS
1510.00	87.88	33.03	922.82	525.30	438.14	471.63	1.24	-0.97	-0.78	MWD-SDI-SYS
1541.00	88.79	31.46	923.72	551.51	454.67	495.77	5.85	2.94	-5.06	MWD-SDI-SYS
1573.00	89.76	30.18	924.13	578.98	471.06	521.19	5.02	3.03	-4.00	MWD-SDI-SYS
1604.00	90.10	28.89	924.17	605.96	486.34	546.23	4.30	1.10	-4.16	MWD-SDI-SYS
1636.00	89.66	26.50	924.23	634.29	501.22	572.67	7.59	-1.37	-7.47	MWD-SDI-SYS
1668.00	89.43	25.35	924.49	663.07	515.21	599.66	3.66	-0.72	-3.59	MWD-SDI-SYS
1699.00	89.16	22.92	924.87	691.35	527.88	626.31	7.89	-0.87	-7.84	MWD-SDI-SYS
1731.00	89.56	21.01	925.23	721.03	539.85	654.41	6.10	1.25	-5.97	MWD-SDI-SYS
1762.00	90.37	19.78	925.25	750.08	550.65	682.04	4.75	2.61	-3.97	MWD-SDI-SYS
1794.00	91.71	18.21	924.66	780.33	561.06	710.90	6.45	4.19	-4.91	MWD-SDI-SYS
1826.00	91.04	16.55	923.90	810.86	570.62	740.13	5.59	-2.09	-5.19	MWD-SDI-SYS
1857.00	91.41	14.08	923.23	840.75	578.80	768.89	8.05	1.19	-7.97	MWD-SDI-SYS
1889.00	90.20	12.38	922.78	871.90	586.13	798.99	6.52	-3.78	-5.31	MWD-SDI-SYS
1921.00	89.36	10.94	922.91	903.23	592.59	829.38	5.21	-2.62	-4.50	MWD-SDI-SYS
1952.00	89.26	8.62	923.28	933.78	597.86	859.12	7.49	-0.32	-7.48	MWD-SDI-SYS
1984.00	89.19	6.65	923.71	965.49	602.11	890.14	6.16	-0.22	-6.16	MWD-SDI-SYS
2015.00	89.56	4.73	924.05	996.34	605.18	920.42	6.31	1.19	-6.19	MWD-SDI-SYS
2047.00	89.30	2.77	924.37	1028.26	607.28	951.90	6.18	-0.81	-6.12	MWD-SDI-SYS
2077.00	88.79	0.22	924.87	1058.25	608.06	981.60	8.67	-1.70	-8.50	MWD-SDI-SYS
2109.00	89.06	357.54	925.47	1090.23	607.43	1013.45	8.42	0.84	-8.38	MWD-SDI-SYS
2141.00	88.69	355.13	926.10	1122.16	605.39	1045.40	7.62	-1.16	-7.53	MWD-SDI-SYS
2173.00	89.56	355.03	926.59	1154.04	602.64	1077.38	2.74	2.72	-0.31	MWD-SDI-SYS
2205.00	90.13	354.85	926.67	1185.91	599.82	1109.37	1.87	1.78	-0.56	MWD-SDI-SYS
2237.00	89.90	355.01	926.67	1217.79	596.99	1141.35	0.88	-0.72	0.50	MWD-SDI-SYS
2268.00	90.34	353.39	926.60	1248.63	593.86	1172.35	5.42	1.42	-5.23	MWD-SDI-SYS
2300.00	90.71	352.05	926.31	1280.37	589.81	1204.35	4.34	1.16	-4.19	MWD-SDI-SYS
2331.00	89.87	351.78	926.15	1311.06	585.45	1235.33	2.85	-2.71	-0.87	MWD-SDI-SYS
2363.00	89.63	352.03	926.29	1342.74	580.94	1267.32	1.08	-0.75	0.78	MWD-SDI-SYS
2394.00	89.73	352.97	926.46	1373.47	576.89	1298.32	3.05	0.32	3.03	MWD-SDI-SYS
2426.00	89.93	353.56	926.56	1405.25	573.14	1330.32	1.95	0.62	1.84	MWD-SDI-SYS
2458.00	91.98	355.02	926.03	1437.09	569.96	1362.31	7.86	6.41	4.56	MWD-SDI-SYS
2489.00	91.68	355.67	925.04	1467.97	567.44	1393.27	2.31	-0.97	2.10	MWD-SDI-SYS
2521.00	91.38	354.61	924.18	1499.84	564.73	1425.25	3.44	-0.94	-3.31	MWD-SDI-SYS
2551.00	91.21	354.37	923.50	1529.69	561.85	1455.23	0.98	-0.57	-0.80	MWD-SDI-SYS
2583.00	90.34	352.69	923.07	1561.49	558.25	1487.23	5.91	-2.72	-5.25	MWD-SDI-SYS
2614.00	89.77	352.28	923.04	1592.22	554.19	1518.23	2.26	-1.84	-1.32	MWD-SDI-SYS
2646.00	89.36	352.97	923.28	1623.95	550.09	1550.22	2.51	-1.28	2.16	MWD-SDI-SYS

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC
Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: WEST LEG

Date: 5/27/2008 **Time:** 07:27:23 **Page:** 3
Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.4
Section (VS) Reference: Well (0.00N,0.00E,353.42Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2677.00	88.42	352.54	923.88	1654.70	546.18	1581.21	3.33	-3.03	-1.39	MWD-SDI-SYS
2709.00	88.32	352.79	924.79	1686.43	542.09	1613.20	0.84	-0.31	0.78	MWD-SDI-SYS
2739.00	88.35	353.77	925.67	1716.21	538.59	1643.18	3.27	0.10	3.27	MWD-SDI-SYS
2771.00	88.76	354.05	926.47	1748.02	535.19	1675.17	1.55	1.28	0.87	MWD-SDI-SYS
2802.00	88.92	354.46	927.10	1778.85	532.09	1706.16	1.42	0.52	1.32	MWD-SDI-SYS
2834.00	89.46	355.04	927.55	1810.72	529.16	1738.15	2.48	1.69	1.81	MWD-SDI-SYS
2865.00	90.64	353.96	927.53	1841.57	526.19	1769.14	5.16	3.81	-3.48	MWD-SDI-SYS
2897.00	91.54	354.09	926.92	1873.39	522.86	1801.14	2.84	2.81	0.41	MWD-SDI-SYS
2929.00	90.34	354.27	926.39	1905.22	519.62	1833.13	3.79	-3.75	0.56	MWD-SDI-SYS
2960.00	89.20	354.81	926.52	1936.08	516.67	1864.12	4.07	-3.68	1.74	MWD-SDI-SYS
2992.00	89.39	353.56	926.91	1967.91	513.42	1896.12	3.95	0.59	-3.91	MWD-SDI-SYS
3025.00	89.63	352.72	927.19	2000.68	509.48	1929.11	2.65	0.73	-2.55	MWD-SDI-SYS
3057.00	89.23	351.91	927.51	2032.39	505.20	1961.11	2.82	-1.25	-2.53	MWD-SDI-SYS
3088.00	86.23	351.79	928.74	2063.05	500.81	1992.07	9.69	-9.68	-0.39	MWD-SDI-SYS
3120.00	85.69	351.19	930.99	2094.61	496.09	2023.97	2.52	-1.69	-1.87	MWD-SDI-SYS
3152.00	88.93	352.07	932.49	2126.23	491.44	2055.91	10.49	10.12	2.75	MWD-SDI-SYS
3183.00	92.53	353.25	932.10	2156.97	487.48	2086.90	12.22	11.61	3.81	MWD-SDI-SYS
3215.00	90.64	353.61	931.21	2188.75	483.82	2118.89	6.01	-5.91	1.12	MWD-SDI-SYS
3247.00	89.63	354.06	931.14	2220.56	480.38	2150.89	3.46	-3.16	1.41	MWD-SDI-SYS
3278.00	90.40	354.74	931.13	2251.41	477.36	2181.88	3.31	2.48	2.19	MWD-SDI-SYS
3310.00	89.93	355.44	931.04	2283.30	474.62	2213.87	2.63	-1.47	2.19	MWD-SDI-SYS
3341.00	89.76	355.69	931.12	2314.20	472.22	2244.85	0.98	-0.55	0.81	MWD-SDI-SYS
3373.00	92.33	356.68	930.54	2346.12	470.09	2276.80	8.61	8.03	3.09	MWD-SDI-SYS
3405.00	92.12	357.00	929.30	2378.05	468.33	2308.72	1.20	-0.66	1.00	MWD-SDI-SYS
3436.00	91.45	355.96	928.33	2408.98	466.43	2339.66	3.99	-2.16	-3.35	MWD-SDI-SYS
3468.00	91.68	356.29	927.46	2440.89	464.26	2371.61	1.26	0.72	1.03	MWD-SDI-SYS
3499.00	91.95	356.91	926.48	2471.82	462.43	2402.55	2.18	0.87	2.00	MWD-SDI-SYS
3531.00	91.11	355.89	925.62	2503.75	460.42	2434.49	4.13	-2.62	-3.19	MWD-SDI-SYS
3563.00	90.54	354.96	925.16	2535.64	457.87	2466.47	3.41	-1.78	-2.91	MWD-SDI-SYS
3594.00	89.87	355.70	925.05	2566.54	455.34	2497.45	3.22	-2.16	2.39	MWD-SDI-SYS
3627.00	90.47	354.77	924.95	2599.42	452.60	2530.44	3.35	1.82	-2.82	MWD-SDI-SYS
3657.00	90.47	354.75	924.71	2629.30	449.86	2560.43	0.07	0.00	-0.07	MWD-SDI-SYS
3689.00	90.74	354.75	924.37	2661.16	446.93	2592.42	0.84	0.84	0.00	MWD-SDI-SYS
3721.00	90.61	355.35	923.99	2693.04	444.17	2624.40	1.92	-0.41	1.87	MWD-SDI-SYS
3752.00	89.66	355.63	923.92	2723.94	441.74	2655.38	3.19	-3.06	0.90	MWD-SDI-SYS
3784.00	90.17	356.36	923.96	2755.86	439.50	2687.35	2.78	1.59	2.28	MWD-SDI-SYS
3824.00	90.17	356.36	923.85	2795.78	436.96	2727.29	0.00	0.00	0.00	MWD-SDI-SYS

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
WEST LEG TD	-Rectangle (1669x200)	919.00	2806.36	407.85	501191.03	1688358.22	39 52 14.729 N	80 36 37.164 W
INTERCEPT TD	-Circle (Radius: 1)	919.00	261.16	238.79	498645.83	1688189.16	39 51 49.555 N	80 36 38.928 W

Scientific Drilling Survey Report - Geographic

Company: CNX Gas Company, LLC
 Field: MARSHALL COUNTY, WV
 Site: MC 59 WELL LOCATION
 Well: ACCESS MC-59
 Wellpath: WEST LEG

Date: 5/27/2008 Time: 07:34:00 Page: 2
 Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
 Vertical (TVD) Reference: 1340.49 + 8 1348.4
 Section (VS) Reference: Well (0.00N,0.00E,353.42Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
2100.00	88.98	358.29	925.32	1081.24	607.76	499465.91	1688558.13	39	51	57.705	N	80	36	34.327	W
2200.00	90.04	354.88	926.68	1180.93	600.27	499565.60	1688550.64	39	51	58.689	N	80	36	34.439	W
2300.00	90.71	352.05	926.31	1280.37	589.81	499665.04	1688540.18	39	51	59.670	N	80	36	34.589	W
2400.00	89.77	353.08	926.49	1379.43	576.17	499764.10	1688526.54	39	52	0.647	N	80	36	34.779	W
2500.00	91.58	355.31	924.72	1478.93	566.58	499863.60	1688516.95	39	52	1.630	N	80	36	34.918	W
2600.00	90.03	352.47	923.02	1578.34	556.05	499963.01	1688506.42	39	52	2.611	N	80	36	35.069	W
2700.00	88.35	352.72	924.53	1677.50	543.23	500062.17	1688493.60	39	52	3.589	N	80	36	35.249	W
2800.00	88.91	354.43	927.06	1776.86	532.28	500161.53	1688482.65	39	52	4.570	N	80	36	35.405	W
2900.00	91.43	354.11	926.84	1876.37	522.55	500261.04	1688472.92	39	52	5.552	N	80	36	35.545	W
3000.00	89.45	353.36	926.99	1975.86	512.51	500360.53	1688462.88	39	52	6.534	N	80	36	35.690	W
3100.00	86.03	351.57	929.55	2074.89	499.08	500459.56	1688449.45	39	52	7.511	N	80	36	35.878	W
3200.00	91.53	353.44	931.50	2173.85	485.51	500558.52	1688435.88	39	52	8.487	N	80	36	36.068	W
3300.00	90.08	355.22	931.04	2273.33	475.43	500658.00	1688425.80	39	52	9.469	N	80	36	36.213	W
3400.00	92.15	356.95	929.48	2373.06	468.59	500757.73	1688418.96	39	52	10.454	N	80	36	36.316	W
3500.00	91.95	356.91	926.44	2472.82	462.37	500857.49	1688412.74	39	52	11.439	N	80	36	36.412	W
3600.00	89.98	355.53	925.06	2572.52	454.88	500957.19	1688405.25	39	52	12.423	N	80	36	36.524	W
3700.00	90.70	354.96	924.23	2672.11	445.95	501056.78	1688396.32	39	52	13.407	N	80	36	36.654	W
3800.00	90.17	356.36	923.92	2771.83	438.48	501156.50	1688388.85	39	52	14.391	N	80	36	36.765	W
3824.00	90.17	356.36	923.85	2795.78	436.96	501180.45	1688387.33	39	52	14.628	N	80	36	36.789	W

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
							Deg	Min	Sec	Deg	Min	Sec		
WEST LEG TD														
	-Rectangle (1669x200)	919.00	2806.36	407.85	501191.03	1688358.22	39	52	14.729	N	80	36	37.164	W
INTERCEPT TD														
	-Circle (Radius: 1)	919.00	261.16	238.79	498645.83	1688189.16	39	51	49.555	N	80	36	38.928	W



CNX Gas Company, LLC

Field: MARSHALL COUNTY, WV
 Site: MC 59 WELL LOCATION
 Well: ACCESS MC-59
 Wellpath: WEST CENTER LEG

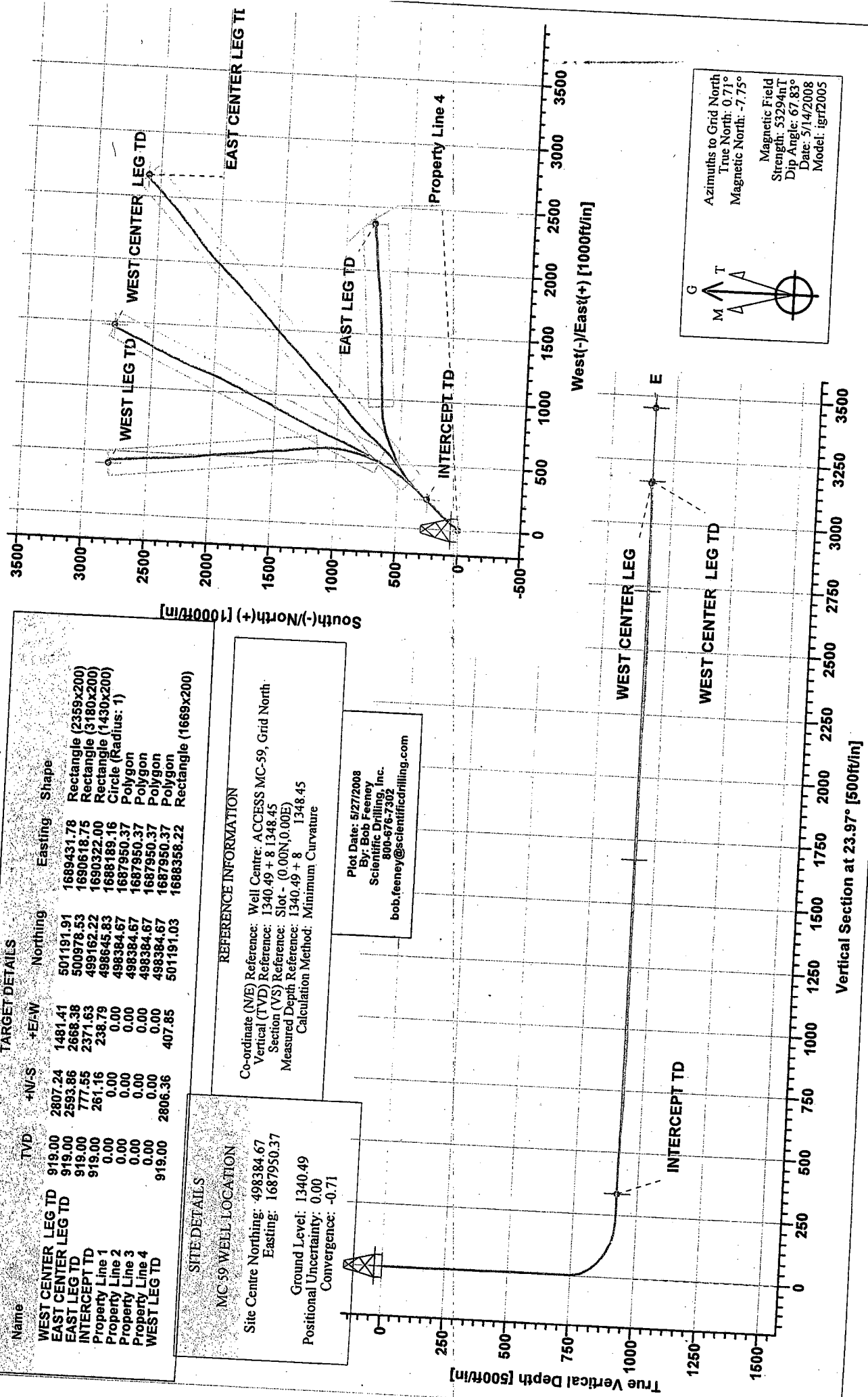


TARGET DETAILS						
Name	TVD	+N/S	+E/W	Northing	Easting	Shape
WEST CENTER LEG TD	919.00	2807.24	1481.41	501191.91	1689431.78	Rectangle (2359x200)
EAST CENTER LEG TD	919.00	2593.86	2668.38	500978.53	1690818.75	Rectangle (3180x200)
EAST LEG TD	919.00	777.55	2371.63	499162.22	1690322.00	Rectangle (1430x200)
INTERCEPT TD	919.00	261.16	238.79	498645.83	1688189.16	Circle (Radius: 1)
Property Line 1	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 2	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 3	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 4	0.00	0.00	0.00	498384.67	1687950.37	Polygon
WEST LEG TD	919.00	2806.36	407.85	501191.03	1688358.22	Rectangle (1669x200)

SITE DETAILS
 MC 59 WELL LOCATION
 Site Centre Northing: 498384.67
 Easting: 1687950.37
 Ground Level: 1340.49
 Positional Uncertainty: 0.00
 Convergence: -0.71

REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well Centre: ACCESS MC-59, Grid North
 Vertical (TVD) Reference: 1340.49 + 8 1348.45
 Section (VS) Reference: Slot - (0.00N,0.00E)
 Measured Depth Reference: 1340.49 + 8 1348.45
 Calculation Method: Minimum Curvature

Plot Date: 5/27/2008
 By: Bob Feeney
 Scientific Drilling, Inc.
 800-676-7302
 bob.feeney@scientificdrilling.com



Azimuths to Grid North
 True North: 0.71°
 Magnetic North: -7.75°
 Magnetic Field
 Strength: 53294nT
 Dip Angle: 67.83°
 Date: 5/14/2008
 Model: igrr2005

True Vertical Depth [500ft/in] Vertical Section at 23.97° [500ft/in]

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC
Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: WEST CENTER LEG

Date: 5/27/2008
Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.4
Section (VS) Reference: Well (0.00N,0.00E,23.97Azi)
Survey Calculation Method: Minimum Curvature

Time: 08:14:49
Page: 1
Db: Sybase

Field: MARSHALL COUNTY, WV
 Northern West Virginia and Pennsylvania Operations
 U.S.A.

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone: West Virginia, Northern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: MC 59 WELL LOCATION

Site Position:
From: Map
Position Uncertainty: 0.00 ft
Ground Level: 1340.49 ft

Northing: 498384.67 ft
Easting: 1687950.37 ft

Latitude: 39 51 46.945 N
Longitude: 80 36 41.949 W
North Reference: Grid
Grid Convergence: -0.71 deg

Well: ACCESS MC-59

Well Position: +N/-S 0.00 ft
 +E/-W 0.00 ft
Position Uncertainty: 0.00 ft

Northing: 498384.67 ft
Easting: 1687950.37 ft

Latitude: 39 51 46.945 N
Longitude: 80 36 41.949 W

Wellpath: WEST CENTER LEG

Current Datum: 1340.49 + 8
Magnetic Data: 5/14/2008
Field Strength: 53294 nT
Vertical Section: Depth From (TVD) ft

Height: 1348.45 ft
+N/-S: 0.00 ft
+E/-W: 0.00 ft

Drilled From: WEST LEG
Tie-on Depth: 1668.00 ft
Above System Datum: Mean Sea Level
Declination: -8.46 deg
Mag Dip Angle: 67.83 deg
Direction: deg

Survey Program for Definitive Wellpath

Date: 5/19/2008
Actual From: ft
To: ft
Validated: No
Survey:

Version: 0
Toolcode:

Tool Name

Actual From	To	Survey	Version	Toolcode	Tool Name
0.00	584.00	Survey #1 (0)	0		
584.00	1668.00	Survey #2 (0)		Drop Gyro-SYS	Drop Gyro Systematic
1668.00	4015.00	Survey #1		MWD-SDI-SYS	Scientific MWD Systematic
				MWD-SDI-SYS	Scientific MWD Systematic

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.34	290.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.65	62.10	100.00	0.53	0.44	0.67	0.91	0.31	131.30	TIE LINE
200.00	0.98	88.50	199.98	0.59	2.03	1.36	0.49	0.33	26.40	Drop Gyro-SYS
300.00	0.77	74.00	299.97	0.94	3.55	2.30	0.30	-0.21	-14.50	Drop Gyro-SYS
400.00	0.79	64.20	399.96	1.39	4.68	3.17	0.13	0.02	-9.80	Drop Gyro-SYS
500.00	0.94	72.70	499.95	1.80	5.94	4.06	0.20	0.15	8.50	
600.00	0.93	102.52	599.94	2.00	7.61	4.92	0.48	-0.01	29.82	Drop Gyro-SYS
700.00	1.49	164.82	699.92	0.57	8.74	4.08	1.34	0.56	62.29	MWD-SDI-SYS
800.00	23.99	33.21	798.16	10.04	16.82	16.00	25.00	22.50	-131.61	MWD-SDI-SYS
900.00	56.14	37.24	871.30	64.80	53.86	81.09	32.24	32.15	4.03	MWD-SDI-SYS
1000.00	78.89	39.63	910.24	135.83	111.36	169.36	22.86	22.75	2.39	MWD-SDI-SYS
1100.00	90.06	43.15	918.14	208.70	179.15	263.48	11.71	11.17	3.52	MWD-SDI-SYS
1200.00	90.00	43.08	918.29	282.05	247.12	358.12	0.09	-0.07	-0.06	MWD-SDI-SYS
1300.00	89.30	40.77	917.88	355.93	314.49	453.00	2.42	-0.70	-2.31	MWD-SDI-SYS
1400.00	88.68	35.88	919.37	433.92	377.01	549.67	4.93	-0.62	-4.89	MWD-SDI-SYS
1500.00	87.98	33.11	922.46	516.92	432.69	648.13	2.86	-0.70	-2.77	MWD-SDI-SYS
1600.00	90.06	29.06	924.17	602.46	484.41	747.29	4.55	2.08	-4.05	MWD-SDI-SYS
1700.00	88.69	27.77	925.02	691.68	529.51	847.15	1.88	-1.36	-1.29	MWD-SDI-SYS
1800.00	91.15	27.45	925.71	778.99	578.23	946.72	2.48	2.46	-0.32	MWD-SDI-SYS
1900.00	90.78	23.84	923.56	869.68	620.26	1046.66	3.63	-0.37	-3.61	MWD-SDI-SYS
2000.00	88.95	22.51	924.30	961.59	659.63	1146.64	2.26	-1.83	-1.33	MWD-SDI-SYS

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC
Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: WEST CENTER LEG

Date: 5/27/2008 **Time:** 08:14:49 **Page:** 2
Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.4
Section (VS) Reference: Well (0.00N,0.00E,23.97Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2100.00	91.74	22.33	923.81	1053.81	698.23	1246.59				
2200.00	89.61	23.79	922.28	1146.08	736.72	1346.54	2.79	2.78	-0.18	MWD-SDI-SYS
2300.00	88.55	24.59	924.04	1237.12	778.05	1446.52	2.57	-2.13	1.45	MWD-SDI-SYS
2400.00	91.46	24.74	922.85	1327.91	819.92	1546.49	1.33	-1.06	0.80	MWD-SDI-SYS
2500.00	89.36	26.15	922.99	1418.30	862.68	1646.45	2.91	2.91	0.16	MWD-SDI-SYS
2600.00	89.50	26.32	923.68	1508.00	906.86	1746.37	2.53	-2.10	1.41	MWD-SDI-SYS
2700.00	89.96	24.24	924.10	1598.59	949.20	1846.34	0.22	0.14	0.17	MWD-SDI-SYS
2800.00	90.19	23.40	922.81	1689.75	990.26	1946.33	2.13	0.46	-2.08	MWD-SDI-SYS
2900.00	89.76	24.47	922.09	1781.06	1031.03	2046.32	0.87	0.23	-0.84	MWD-SDI-SYS
3000.00	89.09	24.03	922.28	1872.23	1072.12	2146.32	1.15	-0.43	1.07	MWD-SDI-SYS
3100.00	88.49	22.12	925.33	1963.99	1111.73	2246.26	0.80	-0.67	-0.44	MWD-SDI-SYS
3200.00	90.00	19.36	926.87	2057.61	1146.81	2346.06	2.00	-0.60	-1.91	MWD-SDI-SYS
3300.00	89.53	19.20	926.72	2152.23	1179.14	2445.66	3.15	1.51	-2.76	MWD-SDI-SYS
3400.00	91.50	21.25	926.68	2245.94	1214.02	2545.45	0.49	-0.47	-0.16	MWD-SDI-SYS
3500.00	90.27	23.99	924.90	2338.08	1252.82	2645.41	2.84	1.96	2.05	MWD-SDI-SYS
3600.00	91.14	22.69	924.05	2429.82	1292.59	2745.39	3.00	-1.23	2.74	MWD-SDI-SYS
3700.00	90.54	26.31	923.10	2520.58	1334.50	2845.35	1.56	0.87	-1.30	MWD-SDI-SYS
3800.00	90.97	23.84	921.89	2611.10	1376.95	2945.32	3.66	-0.60	3.61	MWD-SDI-SYS
3900.00	91.23	24.18	920.12	2702.30	1417.94	3045.30	2.51	0.43	-2.47	MWD-SDI-SYS
4000.00	92.65	22.72	916.39	2794.14	1457.31	3145.21	0.43	0.26	0.35	MWD-SDI-SYS
4015.00	92.65	22.72	915.70	2807.96	1463.10	3160.19	2.03	1.42	-1.46	MWD-SDI-SYS
							0.00	0.00	0.00	MWD-SDI-SYS

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
							Deg	Min	Sec	Deg	Min	Sec		
WEST CENTER LEG TD	-Rectangle (2359x200)	919.00	2807.24	1481.41	501191.91	1689431.78	39	52	14.868	N	80	36	23.396	W

Scientific Drilling Survey Report - Geographic

Company: CNX Gas Company, LLC Field: MARSHALL COUNTY, WV Site: MC 59 WELL LOCATION Well: ACCESS MC-59 Wellpath: WEST CENTER LEG	Date: 5/27/2008 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 08:17:18 Well: ACCESS MC-59, Grid North 1340.49 + 8 1348.4 Well (0.00N,0.00E,23.97Azi) Minimum Curvature	Page: 1 Db: Sybase
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Field: MARSHALL COUNTY, WV Northern West Virginia and Pennsylvania Operations U.S.A. Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: West Virginia, Northern Zone Coordinate System: Well Centre Geomagnetic Model: igr2005
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Site: MC 59 WELL LOCATION

Site Position:	Northing: 498384.67 ft	Latitude: 39 51 46.945 N	
From: Map	Easting: 1687950.37 ft	Longitude: 80 36 41.949 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 1340.49 ft		Grid Convergence: -0.71 deg	

Well: ACCESS MC-59

Well Position:	Northing: 498384.67 ft	Latitude: 39 51 46.945 N	
+N/-S 0.00 ft	Easting: 1687950.37 ft	Longitude: 80 36 41.949 W	
+E/-W 0.00 ft			
Position Uncertainty: 0.00 ft			

Wellpath: WEST CENTER LEG

Current Datum: 1340.49 + 8	Height 1348.45 ft	Drilled From: WEST LEG	
Magnetic Data: 5/14/2008		Tie-on Depth: 1668.00 ft	
Field Strength: 53294 nT		Above System Datum: Mean Sea Level	
Vertical Section: Depth From (TVD)	+N/-S	Declination: -8.46 deg	
ft	ft	Mag Dip Angle: 67.83 deg	
0.00	0.00	Direction	
		deg	
		23.97	

Survey Program for Definitive Wellpath

Date: 5/19/2008	Validated: No	Version: 0	
Actual From ft	To ft	Toolcode	Tool Name
0.00	584.00	Survey #1 (0)	
584.00	1668.00	Survey #2 (0)	Drop Gyro-SYS
1668.00	4015.00	Survey #1	MWD-SDI-SYS
			MWD-SDI-SYS
			Drop Gyro Systematic
			Scientific MWD Systematic
			Scientific MWD Systematic

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude		
								Deg	Min	Sec	Deg	Min	Sec
0.00	0.34	290.80	0.00	0.00	0.00	498384.67	1687950.37	39	51	46.945 N	80	36	41.949 W
100.00	0.65	62.10	100.00	0.53	0.44	498385.20	1687950.81	39	51	46.950 N	80	36	41.943 W
200.00	0.98	88.50	199.98	0.59	2.03	498385.26	1687952.40	39	51	46.951 N	80	36	41.923 W
300.00	0.77	74.00	299.97	0.94	3.55	498385.61	1687953.92	39	51	46.955 N	80	36	41.904 W
400.00	0.79	64.20	399.96	1.39	4.68	498386.06	1687955.05	39	51	46.959 N	80	36	41.889 W
500.00	0.94	72.70	499.95	1.80	5.94	498386.47	1687956.31	39	51	46.963 N	80	36	41.873 W
600.00	0.93	102.52	599.94	2.00	7.61	498386.67	1687957.98	39	51	46.966 N	80	36	41.852 W
700.00	1.49	164.82	699.92	0.57	8.74	498385.24	1687959.11	39	51	46.952 N	80	36	41.837 W
800.00	23.99	33.21	798.16	10.04	16.82	498394.71	1687967.19	39	51	47.046 N	80	36	41.735 W
900.00	56.14	37.24	871.30	64.80	53.86	498449.47	1688004.23	39	51	47.592 N	80	36	41.269 W
1000.00	78.89	39.63	910.24	135.83	111.36	498520.50	1688061.73	39	51	48.301 N	80	36	40.543 W
1100.00	90.06	43.15	918.14	208.70	179.15	498593.37	1688129.52	39	51	49.029 N	80	36	39.685 W
1200.00	90.00	43.08	918.29	282.05	247.12	498666.72	1688197.49	39	51	49.762 N	80	36	38.825 W
1300.00	89.30	40.77	917.68	355.93	314.49	498740.60	1688264.86	39	51	50.501 N	80	36	37.973 W
1400.00	88.68	35.88	919.37	433.92	377.01	498818.59	1688327.38	39	51	51.279 N	80	36	37.183 W
1500.00	87.98	33.11	922.46	516.92	432.69	498901.59	1688383.06	39	51	52.106 N	80	36	36.482 W
1600.00	90.06	29.06	924.17	602.46	484.41	498987.13	1688434.78	39	51	52.958 N	80	36	35.833 W
1700.00	88.69	27.77	925.02	691.68	529.51	499076.35	1688479.88	39	51	53.845 N	80	36	35.269 W
1800.00	91.15	27.45	925.71	778.99	578.23	499163.66	1688528.60	39	51	54.714 N	80	36	34.658 W
1900.00	90.78	23.84	923.56	869.68	620.26	499254.35	1688570.63	39	51	55.615 N	80	36	34.133 W

Scientific Drilling

Survey Report - Geographic

Company: CNX Gas Company, LLC
 Field: MARSHALL COUNTY, WV
 Site: MC 59 WELL LOCATION
 Well: ACCESS MC-59
 Wellpath: WEST CENTER LEG

Date: 5/27/2008 Time: 08:17:18 Page: 2
 Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
 Vertical (TVD) Reference: 1340.49 + 8 1348.4
 Section (VS) Reference: Well (0.00N,0.00E,23.97Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
								Deg	Min	Sec	Deg	Min	Sec		
2000.00	88.95	22.51	924.30	961.59	659.63	499346.26	1688610.00	39	51	56.528	N	80	36	33.643	W
2100.00	91.74	22.33	923.81	1053.81	698.23	499438.48	1688648.60	39	51	57.445	N	80	36	33.162	W
2200.00	89.61	23.79	922.28	1146.08	736.72	499530.75	1688687.09	39	51	58.361	N	80	36	32.683	W
2300.00	88.55	24.59	924.04	1237.12	778.05	499621.79	1688728.42	39	51	59.266	N	80	36	32.168	W
2400.00	91.46	24.74	922.85	1327.91	819.92	499712.58	1688770.29	39	52	0.168	N	80	36	31.645	W
2500.00	89.36	26.15	922.99	1418.30	862.68	499802.97	1688813.05	39	52	1.067	N	80	36	31.111	W
2600.00	89.50	26.32	923.68	1508.00	906.86	499892.67	1688857.23	39	52	1.958	N	80	36	30.559	W
2700.00	89.96	24.24	924.10	1598.59	949.20	499983.26	1688899.57	39	52	2.859	N	80	36	30.030	W
2800.00	90.19	23.40	922.81	1689.75	990.26	500074.42	1688940.63	39	52	3.765	N	80	36	29.518	W
2900.00	89.76	24.47	922.09	1781.06	1031.03	500165.73	1688981.40	39	52	4.672	N	80	36	29.010	W
3000.00	89.09	24.03	922.28	1872.23	1072.12	500256.90	1689022.49	39	52	5.578	N	80	36	28.497	W
3100.00	88.49	22.12	925.33	1963.99	1111.73	500348.66	1689062.10	39	52	6.490	N	80	36	28.004	W
3200.00	90.00	19.36	926.87	2057.61	1146.81	500442.28	1689097.18	39	52	7.419	N	80	36	27.568	W
3300.00	89.53	19.20	926.72	2152.23	1179.14	500536.90	1689129.51	39	52	8.358	N	80	36	27.169	W
3400.00	91.50	21.25	926.68	2245.94	1214.02	500630.61	1689164.39	39	52	9.289	N	80	36	26.736	W
3500.00	90.27	23.99	924.90	2338.08	1252.82	500722.75	1689203.19	39	52	10.204	N	80	36	26.253	W
3600.00	91.14	22.69	924.05	2429.82	1292.59	500814.49	1689242.96	39	52	11.115	N	80	36	25.758	W
3700.00	90.54	26.31	923.10	2520.58	1334.50	500905.25	1689284.87	39	52	12.017	N	80	36	25.235	W
3800.00	90.97	23.84	921.89	2611.10	1376.95	500995.77	1689327.32	39	52	12.917	N	80	36	24.704	W
3900.00	91.23	24.18	920.12	2702.30	1417.94	501086.97	1689368.31	39	52	13.823	N	80	36	24.193	W
4000.00	92.65	22.72	916.39	2794.14	1457.31	501178.81	1689407.68	39	52	14.736	N	80	36	23.703	W
4015.00	92.65	22.72	915.70	2807.96	1463.10	501192.63	1689413.47	39	52	14.873	N	80	36	23.631	W

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
WEST CENTER LEG TD	-Rectangle (2359x200)	919.00	2807.24	1481.41	501191.91	1689431.78	39	52	14.868	N	80	36	23.396	W



Scientific Drilling
CBM Directional Operations

CNX Gas Company, LLC

Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: EAST LEG



TARGET DETAILS						
Name	TVD	+N/S	+E/W	Northing	Easting	Shape
EAST LEG TD	919.00	777.55	2371.63	499162.22	1690322.00	Rectangle (1430x200)
EAST CENTER LEG TD	919.00	2593.86	2668.38	500978.53	1690618.75	Rectangle (3180x200)
INTERCEPT TD	919.00	261.16	238.79	498645.83	1688189.16	Circle (Radius: 1)
Property Line 1	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 2	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 3	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 4	0.00	0.00	0.00	498384.67	1687950.37	Polygon
WEST CENTER LEG TD	919.00	2807.24	1481.41	501191.91	1689431.78	Polygon
WEST LEG TD	919.00	2806.36	407.85	501191.03	1688358.22	Rectangle (2359x200)

SITE DETAILS

MC 59 WELL LOCATION

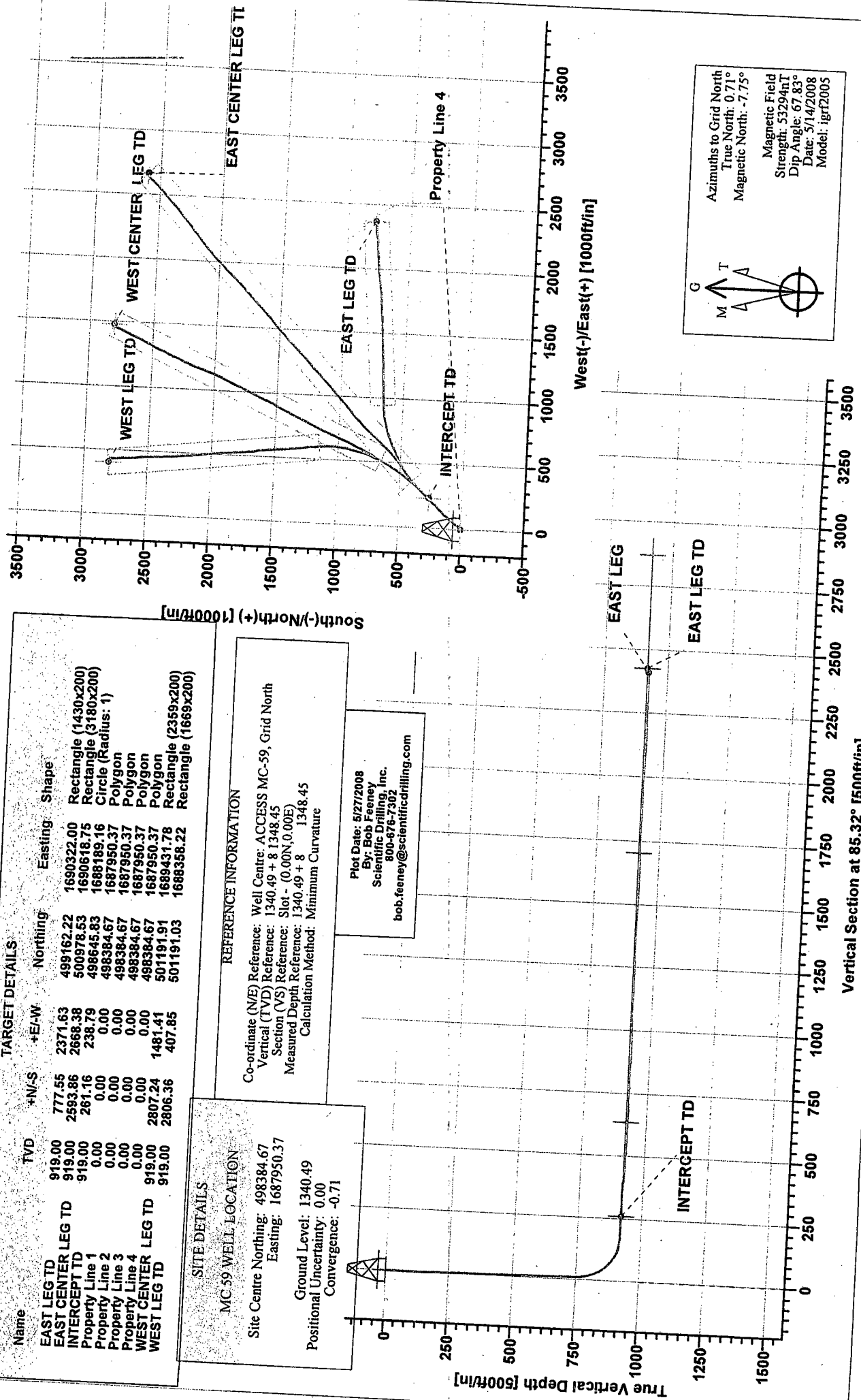
Site Centre Northing: 498384.67
Easting: 1687950.37

Ground Level: 1340.49
Positional Uncertainty: 0.00
Convergence: -0.71

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Centre: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.45
Section (VS) Reference: Slot - (0.00N,0.00E)
Measured Depth Reference: 1340.49 + 8 1348.45
Calculation Method: Minimum Curvature

Plot Date: 5/27/2008
By: Bob Feeney
Scientific Drilling, Inc.
800-676-7392
bob.feeney@scientificdrilling.com



Azimuths to Grid North
True North: 0.71°
Magnetic North: -7.75°
Magnetic Field Strength: 53294nT
Dip Angle: 67.83°
Date: 5/14/2008
Model: igr2005

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC Field: MARSHALL COUNTY, WV Site: MC 59 WELL LOCATION Well: ACCESS MC-59 Wellpath: EAST LEG	Date: 5/27/2008 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 08:29:03 Well: ACCESS MC-59, Grid North 1340.49 + 8 1348.4 Well (0.00N,0.00E,85.32Azi) Minimum Curvature	Page: 1 Db: Sybase
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Field: MARSHALL COUNTY, WV Northern West Virginia and Pennsylvania Operations U.S.A. Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: West Virginia, Northern Zone Coordinate System: Well Centre Geomagnetic Model: igrf2005
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Site: MC 59 WELL LOCATION

Site Position:	From: Map	Northing: 498384.67 ft	Latitude: 39 51 46.945 N
Position Uncertainty:	0.00 ft	Easting: 1687950.37 ft	Longitude: 80 36 41.949 W
Ground Level:	1340.49 ft	North Reference:	Grid
		Grid Convergence:	-0.71 deg

Well: ACCESS MC-59

Well Position:	Slot Name:	Northing: 498384.67 ft	Latitude: 39 51 46.945 N
Position Uncertainty:		Easting: 1687950.37 ft	Longitude: 80 36 41.949 W

Wellpath: EAST LEG

Current Datum: 1340.49 + 8	Height 1348.45 ft	Drilled From: WEST LEG	Tie-on Depth: 1289.00 ft
Magnetic Data: 5/14/2008		Above System Datum: Mean Sea Level	
Field Strength: 53294 nT		Declination: -8.46 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 67.83 deg	Direction
ft	ft	ft	deg
0.00	0.00	0.00	85.32

Survey Program for Definitive Wellpath
Date: 5/27/2008 **Validated:** No
Actual From To **Survey** **Version:** 0

ft	ft		Toolcode	Tool Name
0.00	584.00	Survey #1 (0)		
584.00	1289.00	Survey #2 (0)	Drop Gyro-SYS	Drop Gyro Systematic
1289.00	3432.00	Survey #1	MWD-SDI-SYS	Scientific MWD Systematic
			MWD-SDI-SYS	Scientific MWD Systematic

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.34	290.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.65	62.10	100.00	0.53	0.44	0.49	0.91	0.31	131.30	TIE LINE
200.00	0.98	88.50	199.98	0.59	2.03	2.07	0.49	0.33	26.40	Drop Gyro-SYS
300.00	0.77	74.00	299.97	0.94	3.55	3.61	0.30	-0.21	-14.50	Drop Gyro-SYS
400.00	0.79	64.20	399.96	1.39	4.68	4.78	0.13	0.02	-9.80	Drop Gyro-SYS
500.00	0.94	72.70	499.95	1.80	5.94	6.07	0.20	0.15	8.50	Drop Gyro-SYS
600.00	0.93	102.52	599.94	2.00	7.61	7.75	0.48	-0.01	29.82	MWD-SDI-SYS
700.00	1.49	164.82	699.92	0.57	8.74	8.76	1.34	0.56	62.29	MWD-SDI-SYS
800.00	23.99	33.21	798.16	10.04	16.82	17.58	25.00	22.50	-131.61	MWD-SDI-SYS
900.00	56.14	37.24	871.30	64.80	53.86	58.97	32.24	32.15	4.03	MWD-SDI-SYS
1000.00	78.89	39.63	910.24	135.83	111.36	122.07	22.86	22.75	2.39	MWD-SDI-SYS
1100.00	90.06	43.15	918.14	208.70	179.15	195.58	11.71	11.17	3.52	MWD-SDI-SYS
1200.00	90.00	43.08	918.29	282.05	247.12	269.30	0.09	-0.07	-0.06	MWD-SDI-SYS
1300.00	89.13	42.34	917.69	355.83	314.60	342.58	1.14	-0.87	-0.74	MWD-SDI-SYS
1400.00	88.64	49.88	920.48	425.10	386.58	419.98	7.55	-0.50	7.54	MWD-SDI-SYS
1500.00	88.96	58.24	923.32	483.31	467.74	505.62	8.36	0.33	8.36	MWD-SDI-SYS
1600.00	90.07	64.99	924.82	531.19	555.46	596.94	6.85	1.10	6.76	MWD-SDI-SYS
1700.00	91.45	64.69	923.84	573.99	645.82	690.50	1.42	1.38	-0.30	MWD-SDI-SYS
1800.00	89.84	70.43	923.38	612.66	737.98	785.51	5.96	-1.61	5.74	MWD-SDI-SYS
1900.00	89.85	78.52	923.50	639.30	834.27	883.65	8.09	0.00	8.09	MWD-SDI-SYS
2000.00	90.84	85.62	923.39	653.28	933.21	983.40	7.16	1.00	7.10	MWD-SDI-SYS

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC	Date: 5/27/2008	Time: 08:29:03	Page: 2
Field: MARSHALL COUNTY, WV	Co-ordinate(NE) Reference:	Well: ACCESS MC-59, Grid North	
Site: MC 59 WELL LOCATION	Vertical (TVD) Reference:	1340.49 + 8 1348.4	
Well: ACCESS MC-59	Section (VS) Reference:	Well (0.00N,0.00E,85.32Azi)	
Wellpath: EAST LEG	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2100.00	90.94	85.63	920.59	659.55	1032.97	1083.34	0.10	0.10	0.01	MWD-SDI-SYS
2200.00	88.68	85.77	923.14	667.53	1132.61	1183.29	2.26	-2.26	0.14	MWD-SDI-SYS
2300.00	91.35	87.59	920.80	671.88	1232.46	1283.17	3.23	2.67	1.82	MWD-SDI-SYS
2400.00	89.28	84.99	920.45	677.48	1332.29	1383.12	3.32	-2.07	-2.60	MWD-SDI-SYS
2500.00	88.53	86.78	922.93	685.28	1431.94	1483.08	1.94	-0.75	1.79	MWD-SDI-SYS
2600.00	89.61	86.74	923.97	689.73	1531.83	1583.00	1.08	1.08	-0.03	MWD-SDI-SYS
2700.00	91.38	84.58	923.17	697.77	1631.49	1682.99	2.79	1.77	-2.16	MWD-SDI-SYS
2800.00	90.71	84.70	920.28	706.41	1731.08	1782.94	0.68	-0.67	0.11	MWD-SDI-SYS
2900.00	89.57	83.47	922.68	716.84	1830.49	1882.87	1.68	-1.14	-1.23	MWD-SDI-SYS
3000.00	89.10	82.46	921.39	729.96	1929.60	1982.73	1.11	-0.47	-1.00	MWD-SDI-SYS
3100.00	87.48	83.31	925.08	743.17	2028.65	2082.53	1.83	-1.62	0.85	MWD-SDI-SYS
3200.00	91.41	84.94	925.79	753.57	2128.07	2182.46	4.25	3.93	1.62	MWD-SDI-SYS
3300.00	90.30	84.08	923.41	761.86	2227.69	2282.43	1.40	-1.11	-0.86	MWD-SDI-SYS
3400.00	90.07	82.60	923.85	774.19	2326.93	2382.34	1.49	-0.23	-1.48	MWD-SDI-SYS
3432.00	90.07	82.60	923.81	778.31	2358.66	2414.30	0.00	0.00	0.00	MWD-SDI-SYS

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	←-- Latitude --→			←-- Longitude --→				
							Deg	Min	Sec	Deg	Min	Sec		
EAST LEG TD	-Rectangle (1430x200)	919.00	777.55	2371.63	499162.22	1690322.00	39	51	54.918	N	80	36	11.659	W
EAST CENTER LEG TD	-Rectangle (3180x200)	919.00	2593.86	2668.38	500978.53	1690618.75	39	52	12.904	N	80	36	8.139	W

Scientific Drilling Survey Report - Geographic

Company: CNX Gas Company, LLC	Date: 5/27/2008	Time: 08:30:36	Page: 1
Field: MARSHALL COUNTY, WV	Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North		
Site: MC 59 WELL LOCATION	Vertical (TVD) Reference: 1340.49 + 8 1348.4		
Well: ACCESS MC-59	Section (VS) Reference: Well (0.00N,0.00E,85.32Azi)		
Wellpath: EAST LEG	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: MARSHALL COUNTY, WV Northern West Virginia and Pennsylvania Operations U.S.A.	Map Zone: West Virginia, Northern Zone
Map System: US State Plane Coordinate System 1927	Coordinate System: Well Centre
Geo Datum: NAD27 (Clarke 1866)	Geomagnetic Model: igrf2005
Sys Datum: Mean Sea Level	

Site: MC 59 WELL LOCATION			
Site Position:	Northing: 498384.67 ft	Latitude: 39 51 46.945 N	
From: Map	Easting: 1687950.37 ft	Longitude: 80 36 41.949 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 1340.49 ft		Grid Convergence: -0.71 deg	

Well: ACCESS MC-59	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 498384.67 ft	Latitude: 39 51 46.945 N
+E/-W 0.00 ft	Easting: 1687950.37 ft	Longitude: 80 36 41.949 W
Position Uncertainty: 0.00 ft		

Wellpath: EAST LEG	Drilled From: WEST LEG	
Current Datum: 1340.49 + 8	Tie-on Depth: 1289.00 ft	
Magnetic Data: 5/14/2008	Above System Datum: Mean Sea Level	
Field Strength: 53294 nT	Declination: -8.46 deg	
Vertical Section: Depth From (TVD)	Mag Dip Angle: 67.83 deg	
ft	+N/-S ft	+E/-W ft
0.00	0.00	0.00
		Direction deg
		85.32

Survey Program for Definitive Wellpath				Version: 0	
Date: 5/27/2008	Validated: No		Actual From	To	Survey
	ft	ft			
0.00	584.00		Survey #1	(0)	
584.00	1289.00		Survey #2	(0)	
1289.00	3432.00		Survey #1		
			Drop Gyro-SYS		Drop Gyro Systematic
			MWD-SDI-SYS		Scientific MWD Systematic
			MWD-SDI-SYS		Scientific MWD Systematic

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude		
								Deg	Min	Sec	Deg	Min	Sec
0.00	0.34	290.80	0.00	0.00	0.00	498384.67	1687950.37	39 51	46.945 N	80 36	41.949 W		
100.00	0.65	62.10	100.00	0.53	0.44	498385.20	1687950.81	39 51	46.950 N	80 36	41.943 W		
200.00	0.98	88.50	199.98	0.59	2.03	498385.26	1687952.40	39 51	46.951 N	80 36	41.923 W		
300.00	0.77	74.00	299.97	0.94	3.55	498385.61	1687953.92	39 51	46.955 N	80 36	41.904 W		
400.00	0.79	64.20	399.96	1.39	4.68	498386.06	1687955.05	39 51	46.959 N	80 36	41.889 W		
500.00	0.94	72.70	499.95	1.80	5.94	498386.47	1687956.31	39 51	46.963 N	80 36	41.873 W		
600.00	0.93	102.52	599.94	2.00	7.61	498386.67	1687957.98	39 51	46.966 N	80 36	41.852 W		
700.00	1.49	164.82	699.92	0.57	8.74	498385.24	1687959.11	39 51	46.952 N	80 36	41.837 W		
800.00	23.99	33.21	798.16	10.04	16.82	498394.71	1687967.19	39 51	47.046 N	80 36	41.735 W		
900.00	56.14	37.24	871.30	64.80	53.86	498449.47	1688004.23	39 51	47.592 N	80 36	41.269 W		
1000.00	78.89	39.63	910.24	135.83	111.36	498520.50	1688061.73	39 51	48.301 N	80 36	40.543 W		
1100.00	90.06	43.15	918.14	208.70	179.15	498593.37	1688129.52	39 51	49.029 N	80 36	39.685 W		
1200.00	90.00	43.08	918.29	282.05	247.12	498666.72	1688197.49	39 51	49.762 N	80 36	38.825 W		
1300.00	89.13	42.34	917.69	355.83	314.60	498740.50	1688264.97	39 51	50.500 N	80 36	37.971 W		
1400.00	88.64	49.88	920.48	425.10	386.58	498809.77	1688336.95	39 51	51.193 N	80 36	37.059 W		
1500.00	88.96	58.24	923.32	483.31	467.74	498867.98	1688418.11	39 51	51.778 N	80 36	36.028 W		
1600.00	90.07	64.99	924.82	531.19	555.46	498915.86	1688505.83	39 51	52.262 N	80 36	34.910 W		
1700.00	91.45	64.69	923.84	573.99	645.82	498958.66	1688596.19	39 51	52.696 N	80 36	33.758 W		
1800.00	89.84	70.43	923.38	612.66	737.98	498997.33	1688688.35	39 51	53.090 N	80 36	32.583 W		
1900.00	89.85	78.52	923.50	639.30	834.27	499023.97	1688784.64	39 51	53.365 N	80 36	31.352 W		



Scientific Drilling
CBM Directional Operations

CNX Gas Company, LLC



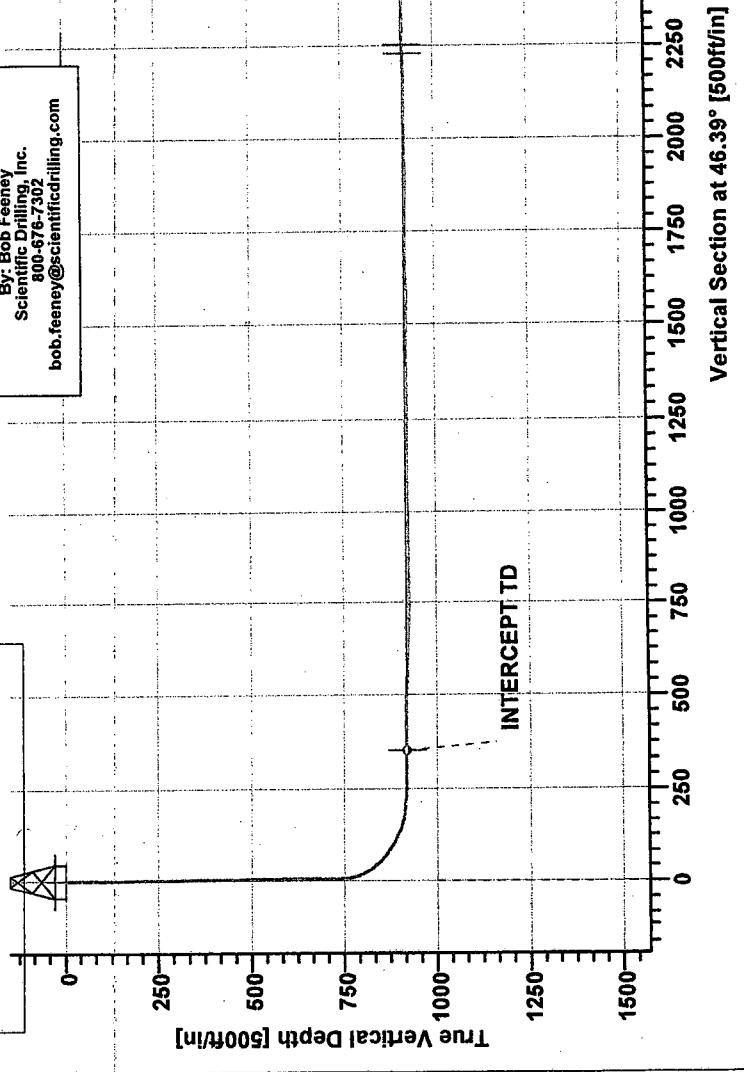
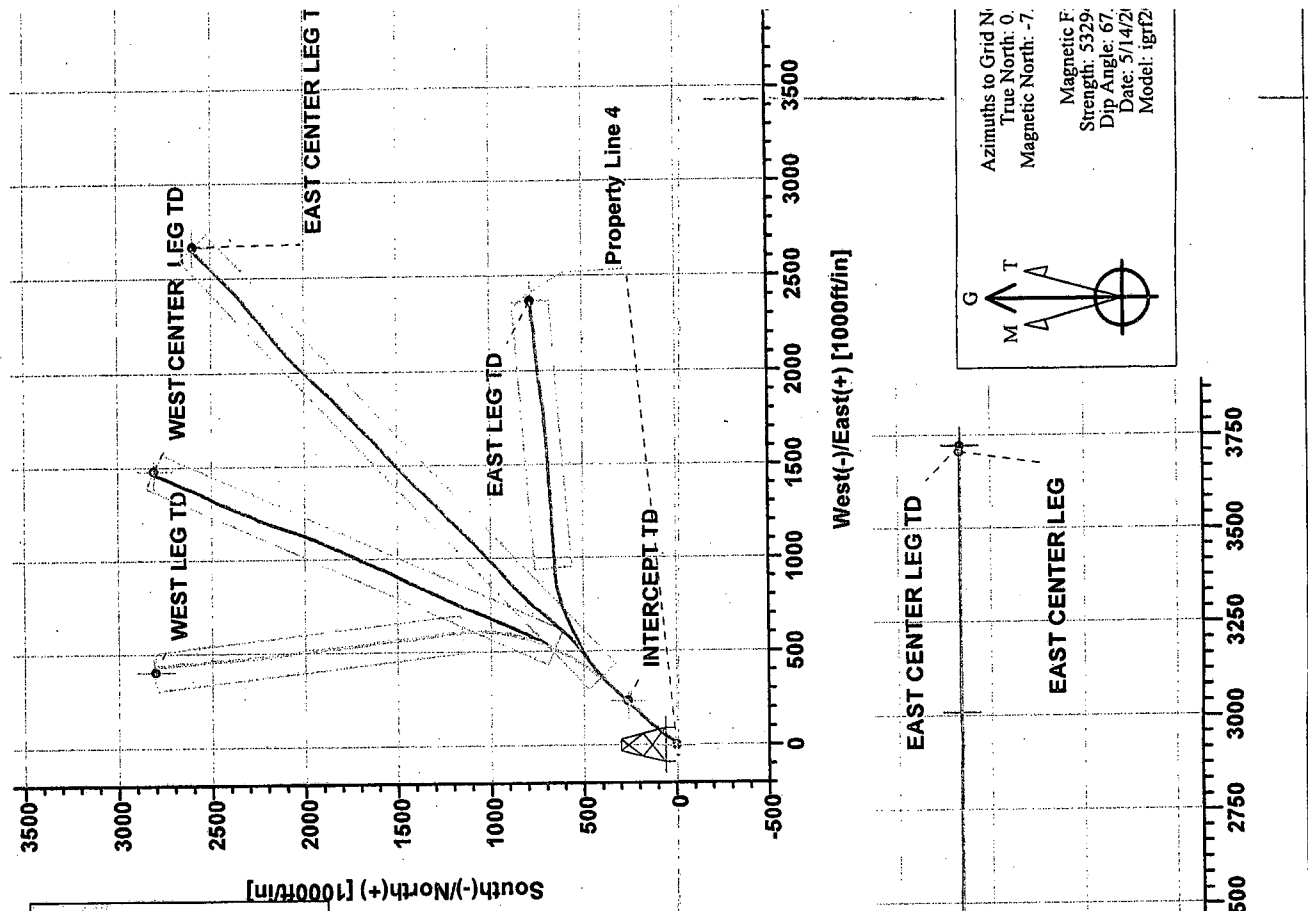
Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: EAST CENTER LEG

TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
INTERCEPT TD	919.00	261.16	238.79	498645.83	1688189.16	Circle (Radius: 1)
EAST CENTER LEG TD	919.00	2593.86	2688.38	500976.53	1690618.75	Rectangle (3180x200)
EAST LEG TD	919.00	777.55	2371.63	499162.22	1690322.00	Rectangle (1430x200)
Property Line 1	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 2	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 3	0.00	0.00	0.00	498384.67	1687950.37	Polygon
Property Line 4	0.00	0.00	0.00	498384.67	1687950.37	Polygon
WEST CENTER LEG TD	919.00	2807.24	1481.41	501191.91	1688431.78	Rectangle (2359x200)
WEST LEG TD	919.00	2806.36	407.85	501191.03	1688358.22	Rectangle (1669x200)

SITE DETAILS
MC 59 WELL LOCATION
Site Centre Northing: 498384.67
Easting: 1687950.37
Ground Level: 1340.49
Positional Uncertainty: 0.00
Convergence: -0.71

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Centre: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.45
Section (VS) Reference: Slot - (0.00N,0.00E)
Measured Depth Reference: 1340.49 + 8 1348.45
Calculation Method: Minimum Curvature

Plot Date: 5/27/2008
By: Bob Feeney
Scientific Drilling, Inc.
800-676-7302
bob.feeney@scientificdrilling.com



Vertical Section at 46.39° [500ft/in]

Azimuths to Grid N:
True North: 0
Magnetic North: -7
Magnetic F:
Strength: 5329
Dip Angle: 67
Date: 5/14/21
Model: tgrt2

Scientific Drilling Survey Report

Company: CNX Gas Company, LLC
Field: MARSHALL COUNTY, WV
Site: MC 59 WELL LOCATION
Well: ACCESS MC-59
Wellpath: EAST CENTER LEG

Date: 5/27/2008 **Time:** 08:41:37 **Page:** 2
Co-ordinate(NE) Reference: Well: ACCESS MC-59, Grid North
Vertical (TVD) Reference: 1340.49 + 8 1348.4
Section (VS) Reference: Well (0.00N,0.00E,46.39Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2000.00	90.49	45.50	921.96	843.02	813.67	1170.61				
2100.00	90.06	49.68	921.86	910.76	887.19	1270.56	4.23	0.96	4.12	MWD-SDI-SYS
2200.00	90.26	46.77	921.72	977.66	961.48	1370.50	4.21	-0.43	4.19	MWD-SDI-SYS
2300.00	88.67	46.36	921.13	1046.80	1033.72	1470.49	2.92	0.20	-2.91	MWD-SDI-SYS
2400.00	89.49	45.95	923.59	1115.78	1106.07	1570.46	1.64	-1.59	-0.41	MWD-SDI-SYS
							0.91	0.81	-0.42	MWD-SDI-SYS
2500.00	90.28	44.78	921.25	1186.73	1176.48	1670.38				
2600.00	89.78	45.86	921.46	1257.47	1247.16	1770.34	1.41	0.80	-1.16	MWD-SDI-SYS
2700.00	89.25	44.86	922.25	1326.86	1319.15	1870.33	1.19	-0.50	1.07	MWD-SDI-SYS
2800.00	90.78	44.78	920.69	1399.17	1388.18	1970.19	1.13	-0.53	-0.99	MWD-SDI-SYS
2900.00	89.54	46.23	920.85	1468.66	1460.09	2070.18	1.54	1.53	-0.08	MWD-SDI-SYS
							1.91	-1.24	1.45	MWD-SDI-SYS
3000.00	91.19	47.28	920.34	1536.79	1533.27	2170.16				
3100.00	91.27	46.81	916.98	1605.21	1606.12	2270.10	1.96	1.66	1.05	MWD-SDI-SYS
3200.00	90.54	45.56	916.57	1674.49	1678.23	2370.09	0.47	0.08	-0.47	MWD-SDI-SYS
3300.00	90.65	45.25	915.50	1744.96	1749.16	2470.06	1.45	-0.73	-1.25	MWD-SDI-SYS
3400.00	88.88	46.36	916.74	1813.99	1821.48	2570.04	0.33	0.11	-0.31	MWD-SDI-SYS
							2.09	-1.77	1.11	MWD-SDI-SYS
3500.00	90.00	42.60	917.28	1885.24	1891.62	2669.97				
3600.00	89.74	43.52	916.85	1959.08	1959.03	2769.71	3.92	1.12	-3.76	MWD-SDI-SYS
3700.00	88.20	44.65	918.30	2031.20	2028.29	2869.59	0.95	-0.26	0.92	MWD-SDI-SYS
3800.00	92.74	49.11	919.02	2099.76	2100.97	2969.51	1.91	-1.54	1.13	MWD-SDI-SYS
3900.00	89.82	50.96	915.17	2163.52	2177.86	3069.17	6.37	4.54	4.47	MWD-SDI-SYS
							3.46	-2.92	1.85	MWD-SDI-SYS
4000.00	89.04	49.86	917.50	2227.57	2254.62	3168.92				
4100.00	90.46	49.44	917.77	2292.31	2330.83	3268.75	1.34	-0.78	-1.10	MWD-SDI-SYS
4200.00	88.92	47.63	916.90	2358.62	2405.66	3368.67	1.48	1.41	-0.42	MWD-SDI-SYS
4300.00	90.87	45.92	918.10	2427.26	2478.37	3468.66	2.38	-1.54	-1.82	MWD-SDI-SYS
4400.00	89.26	45.14	917.42	2497.08	2549.94	3568.63	2.59	1.95	-1.71	MWD-SDI-SYS
							1.79	-1.61	-0.78	MWD-SDI-SYS
4500.00	89.73	44.47	917.38	2568.28	2620.14	3668.58				
4535.00	89.73	44.47	917.55	2593.26	2644.66	3703.56	0.82	0.47	-0.67	MWD-SDI-SYS
							0.00	0.00	0.00	MWD-SDI-SYS

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
							Deg	Min	Sec	Deg	Min	Sec		
INTERCEPT TD	-Circle (Radius: 1)	919.00	261.16	238.79	498645.83	1688189.16	39	51	49.555	N	80	36	38.928	W
EAST CENTER LEG TD	-Rectangle (3180x200)	919.00	2593.86	2668.38	500978.53	1690618.75	39	52	12.904	N	80	36	8.139	W

