

87.04777

HP
Survey Report - Geographic



Company: HG Energy, LLC	Local Co-ordinate Reference: Well C. McGraw #207
Project: Roane County, West Virginia	TVD Reference: WELL @ 1065.0usft (Decker #9)
Site: C. McGraw #207	MD Reference: WELL @ 1065.0usft (Decker #9)
Well: C. McGraw #207	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: Compass

Project	Roane County, West Virginia		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site C. McGraw #207

Site Position: Northing: 14,058,800.52 usft Latitude: 38° 42' 52.200 N

From: Lat/Long Easting: 1,562,017.62 usft Longitude: 81° 16' 29.500 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: -0.17 °

Well C. McGraw #207

Well Position +N/-S 0.0 usft Northing: 14,058,800.52 usft Latitude: 38° 42' 52.200 N

+E/-W 0.0 usft Easting: 1,562,017.62 usft Longitude: 81° 16' 29.500 W

Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 1,057.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/4/2015	-8.00	66.36	51,923

Design Wellbore #1

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section: **Depth From (TVD) (usft)** **+N/-S (usft)** **+E/-W (usft)** **Direction (°)**

0.0 0.0 0.0 266.52

Survey Program		Date 6/16/2015
From (usft)	To (usft)	Survey (Wellbore)
500.0	2,350.0	MWD (Wellbore #1)
		Tool Name
		MWD default
		Description
		MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	14,058,800.52	1,562,017.62	38° 42' 52.200 N	81° 16' 29.500 W
500.0	0.00	0.00	500.0	0.0	0.0	14,058,800.52	1,562,017.62	38° 42' 52.200 N	81° 16' 29.500 W
First Survey @ 500' MD / 500' TVD									
527.0	1.10	170.95	527.0	-0.3	0.0	14,058,800.26	1,562,017.67	38° 42' 52.180 N	81° 16' 29.499 W
557.0	1.19	167.38	557.0	-0.8	0.2	14,058,799.67	1,562,017.78	38° 42' 52.192 N	81° 16' 29.498 W
587.0	1.19	195.76	587.0	-1.4	0.1	14,058,799.07	1,562,017.76	38° 42' 52.188 N	81° 16' 29.498 W
617.0	1.99	244.98	617.0	-2.0	-0.4	14,058,798.55	1,562,017.21	38° 42' 52.181 N	81° 16' 29.505 W
647.0	3.31	265.48	646.9	-2.3	-1.8	14,058,798.26	1,562,015.87	38° 42' 52.178 N	81° 16' 29.522 W
677.0	4.91	273.28	676.9	-2.3	-3.9	14,058,798.27	1,562,013.72	38° 42' 52.178 N	81° 16' 29.549 W
707.0	6.01	274.29	706.7	-2.1	-6.7	14,058,798.46	1,562,010.88	38° 42' 52.179 N	81° 16' 29.585 W
737.0	7.29	277.55	736.5	-1.7	-10.2	14,058,798.82	1,562,007.42	38° 42' 52.183 N	81° 16' 29.629 W
767.0	8.88	278.17	766.2	-1.1	-14.4	14,058,799.40	1,562,003.24	38° 42' 52.189 N	81° 16' 29.681 W

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June 16, 2015
West Virginia Department of Environmental Protection

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Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well C. McGraw #207
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
797.0	9.99	278.48	795.8	-0.4	-19.2	14,058,800.12	1,561,998.38	38° 42' 52.195 N	81° 16' 29.743 W
827.0	10.78	278.48	825.3	0.4	-24.6	14,058,800.91	1,561,993.03	38° 42' 52.203 N	81° 16' 29.810 W
857.0	11.62	277.86	854.8	1.2	-30.4	14,058,801.74	1,561,987.26	38° 42' 52.211 N	81° 16' 29.883 W
887.0	12.51	277.55	884.1	2.1	-36.6	14,058,802.58	1,561,981.05	38° 42' 52.219 N	81° 16' 29.962 W
917.0	13.21	277.55	913.3	2.9	-43.2	14,058,803.46	1,561,974.43	38° 42' 52.228 N	81° 16' 30.045 W
947.0	14.10	276.89	942.5	3.8	-50.2	14,058,804.35	1,561,967.40	38° 42' 52.236 N	81° 16' 30.134 W
977.0	14.80	275.17	971.5	4.6	-57.7	14,058,805.13	1,561,959.96	38° 42' 52.244 N	81° 16' 30.228 W
1,007.0	15.60	274.29	1,000.5	5.3	-65.5	14,058,805.78	1,561,952.12	38° 42' 52.250 N	81° 16' 30.327 W
1,037.0	16.08	272.35	1,029.4	5.7	-73.7	14,058,806.25	1,561,943.95	38° 42' 52.254 N	81° 16' 30.430 W
1,067.0	16.31	269.49	1,058.2	5.9	-82.0	14,058,806.38	1,561,935.58	38° 42' 52.256 N	81° 16' 30.536 W
1,097.0	16.70	266.18	1,086.9	5.5	-90.6	14,058,806.06	1,561,927.07	38° 42' 52.252 N	81° 16' 30.643 W
1,127.0	17.10	264.15	1,115.6	4.8	-99.2	14,058,805.32	1,561,918.38	38° 42' 52.245 N	81° 16' 30.753 W
1,157.0	16.79	261.95	1,144.3	3.7	-107.9	14,058,804.27	1,561,909.70	38° 42' 52.234 N	81° 16' 30.862 W
1,187.0	16.62	261.29	1,173.1	2.5	-116.5	14,058,803.01	1,561,901.17	38° 42' 52.221 N	81° 16' 30.970 W
1,217.0	16.70	261.55	1,201.8	1.2	-125.0	14,058,801.73	1,561,892.67	38° 42' 52.208 N	81° 16' 31.077 W
1,247.0	17.41	261.16	1,230.5	-0.1	-133.7	14,058,800.40	1,561,883.97	38° 42' 52.195 N	81° 16' 31.187 W
1,277.0	18.12	262.08	1,259.1	-1.4	-142.7	14,058,799.07	1,561,874.91	38° 42' 52.181 N	81° 16' 31.301 W
1,307.0	19.09	263.05	1,287.5	-2.7	-152.2	14,058,797.83	1,561,865.42	38° 42' 52.169 N	81° 16' 31.421 W
1,337.0	19.89	265.65	1,315.8	-3.7	-162.2	14,058,796.85	1,561,855.46	38° 42' 52.159 N	81° 16' 31.547 W
1,367.0	20.28	266.36	1,343.9	-4.4	-172.4	14,058,796.14	1,561,845.19	38° 42' 52.152 N	81° 16' 31.676 W
1,397.0	21.21	266.36	1,372.0	-5.1	-183.0	14,058,795.46	1,561,834.58	38° 42' 52.145 N	81° 16' 31.810 W
1,427.0	22.18	267.59	1,399.9	-5.6	-194.1	14,058,794.88	1,561,823.51	38° 42' 52.138 N	81° 16' 31.950 W
1,457.0	23.29	266.97	1,427.5	-6.2	-205.7	14,058,794.33	1,561,811.93	38° 42' 52.133 N	81° 16' 32.096 W
1,487.0	23.60	265.78	1,455.1	-6.9	-217.6	14,058,793.57	1,561,800.02	38° 42' 52.125 N	81° 16' 32.246 W
1,517.0	23.29	264.77	1,482.6	-7.9	-229.5	14,058,792.59	1,561,788.12	38° 42' 52.115 N	81° 16' 32.396 W
1,547.0	22.58	262.57	1,510.2	-9.2	-241.1	14,058,791.30	1,561,776.50	38° 42' 52.102 N	81° 16' 32.543 W
1,577.0	22.09	260.85	1,538.0	-10.9	-252.4	14,058,789.66	1,561,765.22	38° 42' 52.085 N	81° 16' 32.685 W
1,607.0	21.61	259.79	1,565.8	-12.7	-263.4	14,058,787.79	1,561,754.22	38° 42' 52.066 N	81° 16' 32.824 W
1,637.0	21.30	259.97	1,593.7	-14.7	-274.2	14,058,785.86	1,561,743.41	38° 42' 52.047 N	81° 16' 32.960 W
1,667.0	21.61	260.28	1,621.7	-16.5	-285.0	14,058,783.98	1,561,732.60	38° 42' 52.028 N	81° 16' 33.097 W
1,697.0	22.80	262.57	1,649.4	-18.2	-296.2	14,058,782.29	1,561,721.39	38° 42' 52.011 N	81° 16' 33.238 W
1,727.0	23.69	263.36	1,677.0	-19.7	-308.0	14,058,780.84	1,561,709.64	38° 42' 51.996 N	81° 16' 33.386 W
1,757.0	24.22	262.66	1,704.4	-21.2	-320.1	14,058,779.36	1,561,697.55	38° 42' 51.981 N	81° 16' 33.539 W
1,787.0	24.48	262.48	1,731.7	-22.8	-332.3	14,058,777.76	1,561,685.29	38° 42' 51.965 N	81° 16' 33.694 W
1,817.0	24.79	261.47	1,759.0	-24.5	-344.7	14,058,776.01	1,561,672.91	38° 42' 51.947 N	81° 16' 33.850 W
1,847.0	24.79	261.69	1,786.2	-26.3	-357.2	14,058,774.17	1,561,660.46	38° 42' 51.929 N	81° 16' 34.007 W
1,877.0	24.48	262.26	1,813.5	-28.1	-369.5	14,058,772.43	1,561,648.08	38° 42' 51.911 N	81° 16' 34.163 W
1,907.0	24.70	262.39	1,840.8	-29.8	-381.9	14,058,770.76	1,561,635.71	38° 42' 51.894 N	81° 16' 34.319 W
1,937.0	24.61	262.39	1,868.1	-31.4	-394.3	14,058,769.10	1,561,623.30	38° 42' 51.878 N	81° 16' 34.476 W
1,967.0	25.01	260.98	1,895.3	-33.2	-406.8	14,058,767.28	1,561,610.85	38° 42' 51.859 N	81° 16' 34.633 W
1,997.0	24.48	260.45	1,922.5	-35.3	-419.2	14,058,765.25	1,561,598.46	38° 42' 51.839 N	81° 16' 34.789 W
2,027.0	23.99	261.16	1,949.9	-37.2	-431.3	14,058,763.29	1,561,586.30	38° 42' 51.819 N	81° 16' 34.942 W
2,057.0	24.22	260.19	1,977.3	-39.2	-443.4	14,058,761.30	1,561,574.21	38° 42' 51.799 N	81° 16' 35.095 W
2,087.0	24.39	259.57	2,004.6	-41.4	-455.6	14,058,759.13	1,561,562.06	38° 42' 51.777 N	81° 16' 35.248 W
2,117.0	24.70	259.57	2,031.9	-43.6	-467.8	14,058,756.87	1,561,549.80	38° 42' 51.755 N	81° 16' 35.403 W
2,147.0	24.70	258.38	2,059.2	-46.0	-480.1	14,058,754.48	1,561,537.49	38° 42' 51.731 N	81° 16' 35.558 W
2,177.0	24.88	256.88	2,086.4	-48.7	-492.4	14,058,751.78	1,561,525.21	38° 42' 51.703 N	81° 16' 35.713 W
2,207.0	24.61	255.96	2,113.6	-51.7	-504.6	14,058,748.83	1,561,513.00	38° 42' 51.674 N	81° 16' 35.867 W
2,267.0	23.20	254.37	2,168.5	-57.9	-528.1	14,058,742.62	1,561,489.50	38° 42' 51.612 N	81° 16' 36.163 W
2,350.0	23.20	254.37	2,244.8	-66.7	-559.6	14,058,733.81	1,561,458.01	38° 42' 51.524 N	81° 16' 36.550 W

TD @ 2350' MD / 2245' TVD

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Environmental Protection
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HP
Survey Report - Geographic



Company: HG Energy, LLC
Project: Roane County, West Virginia
Site: C. McGraw #207
Well: C. McGraw #207
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well C. McGraw #207
TVD Reference: WELL @ 1065.0usft (Decker #9)
MD Reference: WELL @ 1065.0usft (Decker #9)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	First Survey @ 500' MD / 500' TVD
2,350.0	2,244.8	-66.7	-559.6	TD @ 2350' MD / 2245' TVD

Checked By: _____	Approved By: _____	Date: _____
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HG Energy, LLC
Roane County, West Virginia
C. McGraw #207
C. McGraw #207
Wellbore #1

Design: Wellbore #1

HG Energy EOW Report

16 June, 2015

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HG Energy EOW Report

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Project: Roane County, West Virginia
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Geo Datum: NAD83 West Virginia - HARN
Map Zone: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

Site: C. McGraw #207
Site Position: Northing: 14,058,800.51 usft Latitude: 38° 42' 52.200 N
 From: Easting: 1,562,017.62 usft Longitude: 81° 16' 29.500 W
Position Uncertainty: Slot Radius: 13-3/16 " Grid Convergence: -0.17°

Well: C. McGraw #207
Well Position: +N/-S 0.0 usft Latitude: 38° 42' 52.200 N
 +E/-W 0.0 usft Longitude: 81° 16' 29.500 W
Position Uncertainty: Wellhead Elevation: 0.0 usft Ground Level: 1,057.0 usft

Wellbore	Wellbore #1	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
		IGRF2015	6/4/2015	-8.00	66.36	51,923

Design	Wellbore #1	Phase:	Tie On Depth:	Direction (°)
		ACTUAL	+E/-W (usft)	266.52
Versign:	1.0		0.0	
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	
		0.0	0.0	

Audit Notes:
Versign: 1.0
Vertical Section:
 Depth From (TVD) (usft) 0.0
 Tie On Depth: +E/-W (usft) 0.0
 Direction (°) 266.52

Design: Wellbore #1
Audit Notes:
Versign: 1.0
Vertical Section:
 Depth From (TVD) (usft) 0.0
 Tie On Depth: +E/-W (usft) 0.0
 Direction (°) 266.52

Survey Program: Survey (Wellbore)
Date: 6/16/2015
Time: 2:53:00 MWD (Wellbore #1)

Tool Name: MWD default
Description: MWD - Standard

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 Database: Compass

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.0	0.00	
First Survey @ 500' MD / 500' TVD										
527.0	1.10	170.95	527.0	-0.3	0.0	0.0	4.07	0.3	170.95	
557.0	1.19	167.38	557.0	-0.8	0.2	-0.1	0.38	0.9	169.65	
587.0	1.19	195.76	587.0	-1.4	0.1	0.0	1.94	1.5	174.57	
617.0	1.99	244.98	617.0	-2.0	-0.4	0.5	5.04	2.0	192.02	
647.0	3.31	265.48	646.9	-2.3	-1.8	1.9	5.35	2.9	217.86	
677.0	4.91	273.28	676.9	-2.3	-3.9	4.0	5.64	4.5	240.00	
707.0	6.01	274.29	706.7	-2.1	-6.7	6.9	3.88	7.1	253.02	
737.0	7.29	277.55	736.5	-1.7	-10.2	10.3	4.45	10.3	260.58	
767.0	8.88	278.17	766.2	-1.1	-14.4	14.4	5.31	14.4	265.57	
797.0	9.99	278.48	795.8	-0.4	-19.2	19.2	3.70	19.3	268.81	
827.0	10.78	278.48	825.3	0.4	-24.6	24.5	2.63	24.6	270.92	
857.0	11.62	277.86	854.8	1.2	-30.4	30.2	2.83	30.4	272.31	
887.0	12.51	277.55	884.1	2.1	-36.6	36.4	2.97	36.6	273.23	
917.0	13.21	277.55	913.3	2.9	-43.2	42.9	2.33	43.3	273.89	
947.0	14.10	276.89	942.5	3.8	-50.2	49.9	3.01	50.4	274.36	
977.0	14.80	275.17	971.5	4.6	-57.7	57.3	2.74	57.9	274.57	
1,007.0	15.60	274.29	1,000.5	5.3	-65.5	65.1	2.78	65.7	274.59	
1,037.0	16.08	272.35	1,029.4	5.7	-73.7	73.2	2.38	73.9	274.45	
1,067.0	16.31	269.49	1,058.2	5.9	-82.0	81.5	2.77	82.3	274.09	
1,097.0	16.70	266.18	1,086.9	5.5	-90.6	90.1	3.39	90.7	273.50	
1,127.0	17.10	264.15	1,115.6	4.8	-99.2	98.8	2.38	99.4	272.77	
1,157.0	16.79	261.95	1,144.3	3.7	-107.9	107.5	2.37	108.0	271.99	
1,187.0	16.62	261.29	1,173.1	2.5	-116.5	116.1	0.85	116.5	271.23	
1,217.0	16.70	261.55	1,201.8	1.2	-125.0	124.7	0.36	125.0	270.55	

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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)
1,247.0	17.41	261.16	1,230.5	-0.1	-133.7	133.4	2.40	133.7	269.95
1,277.0	18.12	262.08	1,259.1	-1.4	-142.7	142.5	2.54	142.7	269.42
1,307.0	19.09	263.05	1,287.5	-2.7	-152.2	152.1	3.39	152.2	268.99
1,337.0	19.89	265.65	1,315.8	-3.7	-162.2	162.1	3.93	162.2	268.71
1,367.0	20.28	266.36	1,343.9	-4.4	-172.4	172.4	1.53	172.5	268.54
1,397.0	21.21	266.36	1,372.0	-5.1	-183.0	183.0	3.10	183.1	268.42
1,427.0	22.18	267.59	1,399.9	-5.6	-194.1	194.1	3.57	194.2	268.34
1,457.0	23.29	266.97	1,427.5	-6.2	-205.7	205.7	3.79	205.8	268.28
1,487.0	23.60	265.78	1,455.1	-6.9	-217.6	217.6	1.89	217.7	268.17
1,517.0	23.29	264.77	1,482.6	-7.9	-229.5	229.6	1.69	229.6	268.02
1,547.0	22.58	262.57	1,510.2	-9.2	-241.1	241.2	3.71	241.3	267.81
1,577.0	22.09	260.85	1,538.0	-10.9	-252.4	252.6	2.72	252.6	267.54
1,607.0	21.61	259.79	1,565.8	-12.7	-263.4	263.7	2.07	263.7	267.23
1,637.0	21.30	259.97	1,593.7	-14.7	-274.2	274.6	1.06	274.6	266.94
1,667.0	21.61	260.28	1,621.7	-16.5	-285.0	285.5	1.10	285.5	266.68
1,697.0	22.80	262.57	1,649.4	-18.2	-296.2	296.8	4.90	296.8	266.48
1,727.0	23.69	263.36	1,677.0	-19.7	-308.0	308.6	3.14	308.6	266.34
1,757.0	24.22	262.66	1,704.4	-21.2	-320.1	320.8	2.00	320.8	266.22
1,787.0	24.48	262.48	1,731.7	-22.8	-332.3	333.1	0.90	333.1	266.08
1,817.0	24.79	261.47	1,759.0	-24.5	-344.7	345.6	1.74	345.6	265.93
1,847.0	24.79	261.69	1,786.2	-26.3	-357.2	358.1	0.31	358.1	265.78
1,877.0	24.48	262.26	1,813.5	-28.1	-369.5	370.6	1.30	370.6	265.65
1,907.0	24.70	262.39	1,840.8	-29.8	-381.9	383.0	0.76	383.1	265.54
1,937.0	24.61	262.39	1,868.1	-31.4	-394.3	395.5	0.30	395.6	265.44
1,967.0	25.01	260.98	1,895.3	-33.2	-406.8	408.0	2.38	408.1	265.33
1,997.0	24.48	260.45	1,922.5	-35.3	-419.2	420.5	1.92	420.6	265.19
2,027.0	23.99	261.16	1,949.9	-37.2	-431.3	432.8	1.90	432.9	265.07

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 City of Oil and Gas
 AUG 20 2016
 Department of
 Environmental Protection

10/23/2015



87.04777

HP
HG Energy EOW Report

Company: HG Energy, LLC
Project: Roane County, West Virginia
Site: C. McGraw #207
Well: C. McGraw #207
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well C. McGraw #207
TVD Reference: WELL @ 1065.0usft (Decker #9)
MD Reference: WELL @ 1065.0usft (Decker #9)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D/Leg ("/100usft)	Closure Distance (usft)	Closure Azimuth (")
2,057.0	24.22	260.19	1,977.3	-39.2	-443.4	445.0	1.53	445.1	264.95
2,087.0	24.39	259.57	2,004.6	-41.4	-455.6	457.2	1.02	457.4	264.81
2,117.0	24.70	259.57	2,031.9	-43.6	-467.8	469.6	1.03	469.9	264.67
2,147.0	24.70	258.38	2,059.2	-46.0	-480.1	482.0	1.66	482.3	264.52
2,177.0	24.88	256.88	2,086.4	-48.7	-492.4	494.5	2.18	494.8	264.35
2,207.0	24.61	255.96	2,113.6	-51.7	-504.6	506.8	1.57	507.3	264.15
2,267.0	23.20	254.37	2,168.5	-57.9	-528.1	530.7	2.58	531.3	263.74
2,350.0	23.20	254.37	2,244.8	-66.7	-559.6	562.6	0.00	563.6	263.20
TD @ 2350' MD / 2245' TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	Local Coordinates +E/W (usft)	Comment
500.0	500.0	0.0	0.0	First Survey @ 500' MD / 500' TVD
2,350.0	2,244.8	-66.7	-559.6	TD @ 2350' MD / 2245' TVD

Checked By: _____ Approved By: _____ Date: _____

87.0477



C. McGraw #207
Roane County, West Virginia
Q150481 & AM-150414
Design #1

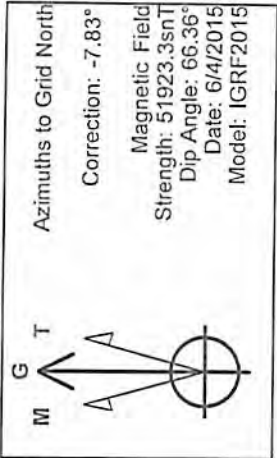
Company Name: HG Energy, LLC
C. McGraw #207
Roane County, West Virginia
Rig: Decker #9
Created By: Shano Robbins
Date: 6/16/2015

PROJECT DETAILS: Roane County, West Virginia
Geodetic System: Universal Transverse Mercator
Datum: NAD83 West Virginia - HARN
Elevation: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

DESIGN TARGET DETAILS
Name: TWD 416.5 4E/W 2090.0 -28.9 -472.5142027111 1481542.14 1047.46
*Plan list target center
Longitude: 81°15'35.500 W

ANNOTATIONS
ID MC A1 TWD 416.5 4E/W 2090.0 -28.9 -472.5142027111 1481542.14 1047.46
MC 2090.0 2243.7 2243.8 -25.7 -293.4 542.8 542.8 10 @ 2107 MD; 2242 TWD
Vect Depature Annotation @ 1000 MD; 1648 TWD

WELL DETAILS: C. McGraw #207
1047.46
Ground Level
North: 14258800.31 1942017.62 39°42'52.200 N 81°15'28.000 W
Longitude: 81°15'28.000 W



HG Energy

