WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/8/2011
API #: 47-502250

RECEIVED
Office of Oil & Gas
OCT 1 2 2011
WV Department of
Environmental Protection

Farm name: Berwin Winifrede Operator Well No.: BW-49 (F)

LOCATION: Elevation: 1073 FT Quadrangle: Belle 7.5'

District: Sherman County: Boone
Latitude: 1,220 Feet South of 38 Deg. 07 Min. 59 Sec.
Longitude 5,870 Feet West of 81 Deg. 36 Min. 32 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
900 Lee St. E Ste. 940 Charleston, WV	Conduct.	35'	35'	
Agent: James Abcouwer	9 5/8"	580'	580'	578
Inspector: Barry Stollings	7"	1698'	1698'	343
Date Permit Issued: 03/31/2008	4 1/2"		5174'	408
Date Well Work Commenced: 7/24/2009				
Date Well Work Completed: 7/24/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5186'				
Total Measured Depth (ft): 5174'				
Fresh Water Depth (ft.): 245'				
Salt Water Depth (ft.): 1257'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 658'-678'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Huron Pay zone depth (ft) 4346
Gas: Initial open flow 420 MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 280 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 380 psig (surface pressure) after 48 Hours

Second producing formation Lime Pay zone depth (ft) 2046
Gas: Initial open flow cmgd 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 10-10-11

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were _____ Electrical, Y____ Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

Perforated Intervals, Fracturing, or Stimulating:

2 fracture zones performed on the well BJ Services Tested lines to 4200 psi

1st- Lower Huron Perf Intervals 4783'-5100' Nitrogen Fracture, 22 holes total Total N2 =10061 bbls.

200 gal. 7.5% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 13 pref ba

2nd- Middle Huron Perf Intervals 3728'-4352' N2 Fracture,18 holes total, Total Nitrogen = 15082 bbl

100 gal. 7.5% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 18 pref ba

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Sub Base	0'	10'
Fill	10'	21'
Sand and Shale	21'	935'
Upper Maxon	1610'	1636'
Lower Maxon	1685'	1705'
Little Lime	1720'	1785'
Big Lime	1808'	1995'
Big Injun	2006'	2039'
Middle Weir	2059'	2085'
Lower Weir	2203'	2240'
Berea	2452'	2462'
Middle Huron	3777'	3954'
Lower Huron	4044'	4284'
Marcellus Shale	5132'	5186'

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/8/2011
API #: 47-502132

Farm name: Berwin Winifrede Operator Well No.: BW-51 (F)

LOCATION: Elevation: 1041 FT Quadrangle: Belle 7.5'

District: Sherman County: Boone
Latitude: 13,600 Feet South of 38 Deg. 10 Min. 00 Sec.
Longitude 3580 Feet West of 81 Deg. 35 Min. 00 Sec.

RECEIVED
Office of Oil & Gas
OCT 12 2011
WV Department of
Environmental Protection

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
900 Lee St. E Ste. 940 Charleston, WV	Conduct.	28'	28'	
Agent: James Abcouwer	9 5/8"	565'	565'	258
Inspector: Barry Stollings	7"	1809'	1809'	366
Date Permit Issued: 03/31/2008	4 1/2"		5161'	498
Date Well Work Commenced: 4/12/2008				
Date Well Work Completed: 4/12/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5183'				
Total Measured Depth (ft): 5171'				
Fresh Water Depth (ft.): 296',362'				
Salt Water Depth (ft.): 1257', 1428'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 385-388				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Huron Pay zone depth (ft) 4346
Gas: Initial open flow 420 MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 280 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 380 psig (surface pressure) after 48 Hours

Second producing formation Lime Pay zone depth (ft) 2046
Gas: Initial open flow cmgd 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 10-10-11

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were _____ Electrical, Y Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

2 fracture zones performed on the well Universal Well Services Tested lines to 4200 psi

1st- Huron Perf Intervals 3111'-4346' Nitrogen Fracture, 16 holes total Total Nitrogen = 1.55 mil SC

200 gal. 15% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 15 pref bal

2nd- Big Lime Perf Intervals 1902'-2046' N2 Fracture, 8 holes total, Total Nitrogen = 168,000 SCF

2750 gal. 15% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 6 pref bal

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Sub Base	0'	10'
Fill	10'	21'
Sand and Shale	21'	935'
Upper Maxon	1011'	1129'
Lower Maxon	1496'	1625'
Little Lime	1771'	1822'
Big Lime	1828'	2052'
Big Injun	2063'	2107'
Middle Weir	2183'	2199'
Lower Weir	2248'	2284'
Berea	2514'	2524'
Middle Huron	3715'	3922'
Lower Huron	4003'	4348'
Marcellus Shale	5131'	5162'

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

API # 4709101213

Log & Deviation Surveys attached.

Farm Name Robert P. & Shirley J. Turoczy
Location Elevation 1420
District Unknown

Well Number 513128
QUAD Rosemont
County Taylor,WV
WV

Latitude Degree 39 Minutes 20 Seconds 00

Longitude West Degree 80 Minutes 07 Seconds 30

Company EQT Plaza
Suite 1700
625 Liberty Avenue
Pittsburgh, Pa 15222

Longitude 39.31632
Latitude -80.16281

Agent Cecil Ray
Inspector Brian Harris
Permit Issued 1/24/2011

Well Work Commenced 2/2/2011
Well Work Completed 9/4/2011
Verbal Plugging

Rotary Rig X **Rotary Rig**

Total Depth 11,957.00
TVD 7493'

Casing &Tubing Size	Used In Drilling	Left in Well	Cement Cubic FT
13 3/8	927.60	927.60	944.00
13 3/8	927.60	927.60	944.00
9 5/8	2539.50	2,539.50	956.99
5 1/2	11914.00	11,914.00	432.30
5 1/2	11914.00	11,914.00	921.30
	42.00	42.00	
	11914.00	11,914.00	432.30
	11914.00	11,914.00	921.30

Type	From
Not Reported	

Type	From		
Red Rock	220.00 ft. -	230.00	ft.
Red Rock	250.00 ft. -	265.00	ft.
Red Rock	280.00 ft. -	290.00	ft.
Red Rock	330.00 ft. -	350.00	ft.
Coal	403.00 ft. -	406.00	ft.
Coal	675.00 ft. -	677.00	ft.
Red Rock	993.00 ft. -	996.00	ft.
Shale	6,958.00 ft. -	7,072.00	ft.
Shale	7,072.00 ft. -	7,173.00	ft.
Shale	7,173.00 ft. -	7,219.00	ft.
Limestone	7,219.00 ft. -	7,276.00	ft.
Shale	7,276.00 ft. -	7,401.00	ft.
Shale	7,401.00 ft. -	7,461.00	ft.
Limestone	7,461.00 ft. -	7,489.00	ft.
Limestone	7,489.00 ft. -		ft.

RECEIVED
Office of Oil & Gas
OCT 12 2011
WV Department of
Environmental Protection

Producing Formation MARCELLUS

Gas: Initial Open Flow

Final Open Flow 4416 MCFD

Static Rock Pressure 872 PSI

NOTE: On back of this form put the following
1) Details of Perforated intervals, fracturing or stimulating, physical change,etc.
2) The well log, a systematic detailed geologfical record of all formations including coal encountered in the well bore

For EQT Production Company

By Mike Brobeck

Date 10-4-2011

Formation record

Formation Name	Top	Bottom	Thickness
Speechley	3,076.62	3,410.44	333.82
Bradford	3,410.44	3,581.44	171.00
Riley	3,790.33	4,427.19	636.86
Benson	4,427.19	6,644.14	2,216.95
Sonyea	6,644.14	6,951.06	306.92
Middlesex	6,951.06	7,065.56	114.50
Genesee	7,065.56	7,169.60	104.04
Geneseo	7,169.60	7,214.00	44.40
Tully	7,214.00	7,274.00	60.00
Hamilton	7,274.00	7,405.26	131.26
Marcellus	7,405.26	7,467.02	61.76
Purcell	7,467.02	7,500.75	33.73
Cherry Valley	7,500.75		

Gas Tests

Depth	Gas	Comments
0.00	0	

Stage	Formation	Frac Type			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/21/2011	11633 - 11875		7,817.00	8,146.00	5 Min: 5258
					10 Min: 5076
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4971
97.00	8,552.00	5,739.00	1.1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
380,394.00	9,938.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/22/2011	11333 - 11575		6,725.00	7,912.00	5 Min: 5216
					10 Min: 5106
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5005
94.00	9,472.00	5,561.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,714.00	11,011.00		2,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/22/2011	11033 - 11275		7,125.00	7,621.00	5 Min: 5586
					10 Min: 5504
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5442
96.00	7,986.00	5,876.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
405,429.00	10,282.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/23/2011	10733 - 10975		6,016.00	7,747.00	5 Min: 5731
					10 Min: 5725
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5614
99.00	7,966.00	5,870.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
407,411.00	11,046.00		2,000.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/23/2011	10433 - 10675		6,230.00	7,709.00	5 Min: 5775
					10 Min: 5710
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5680
101.00	8,020.00	5,830.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
410,620.00	10,296.00		2,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/24/2011	10133 - 10375		6,300.00	7,539.00	5 Min: 5617
					10 Min: 5445
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5341
97.00	7,947.00	5,871.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
407,226.00	10,258.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/24/2011	9833 - 10075		6,902.00	7,418.00	5 Min: 5769
					10 Min: 5663
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5594
90.00	8,402.00	6,040.00	1.24		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
405,587.00	11,414.00		2,000.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/25/2011	9533 - 9775		7,255.00	7,942.00	5 Min: 5441
					10 Min: 5383
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5321
99.00	8,236.00	5,664.00	1.19		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,930.00	9,998.00		2,000.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/25/2011	4475 - 9233		7,745.00	7,667.00	5 Min: 5609
					10 Min: 5325
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5132
96.00	8,243.00	5,953.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,459.00	11,260.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/25/2011	8933 - 9175		7,457.00	7,696.00	5 Min: 5862
					10 Min: 5730
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5598
100.00	7,987.00	6,357.00	1.28		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
407,320.00	10,178.00		2,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/26/2011	8633 - 8875		7,047.00	7,708.00	5 Min: 5864
					10 Min: 5760
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5601
94.00	8,547.00	6,210.00	1.26		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
405,573.00	10,015.00		2,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/26/2011	8333 - 8575		6,929.00	7,575.00	5 Min: 5512
					10 Min: 5375
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5228
100.00	8,164.00	5,841.00	1.12		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
403,746.00	9,781.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/26/2011	8033 - 8275		7,284.00	7,570.00	5 Min: 5430
					10 Min: 5166
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5096
101.00	7,996.00	5,598.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
412,547.00	9,977.00		2,000.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
7/27/2011	7883 - 8005		7,392.00	7,718.00	5 Min:
					10 Min:
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min:
100.00	7,979.00	4,699.00	1.2		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
181,946.00	5,060.00		2,000.00		

PHOENIX
TECHNOLOGY SERVICES USA INC.

EQT Production - Marcellus

Taylor County, WV
Taylor County 513128
Well #513128

Main Wellbore

Survey: Surveys

Standard Survey Report

22 February, 2011

RECEIVED
Office of Oil & Gas

OCT 1 2 2011

WV Department of
Environmental Protection

PHOENIX
TECHNOLOGY SERVICES USA INC.

Survey Report

Company:	EQT Production - Marcellus	**Local Co-ordinate Reference:**	Site Taylor County 513128
Project:	Taylor County, WV	**TVD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Site:	Taylor County 513128	**MD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Well:	Well #513128	**North Reference:**	Grid
Wellbore:	Main Wellbore	**Survey Calculation Method:**	Minimum Curvature
Design:	513128 Surveys	**Database:**	EQT2010

Project Taylor County, WV

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		Using geodetic scale factor

Site Taylor County 513128

Site Position:		**Northing:**	298,013.60ft	**Latitude:**	39.3163228
From:	Map	**Easting:**	1,812,475.62ft	**Longitude:**	-80.1628092
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	-0.42 °

Well Well #513128

Well Position	**+N/-S**	0.0 ft	**Northing:**	298,013.60 ft	**Latitude:**	39.3163228
	+E/-W	0.0 ft	**Easting:**	1,812,475.62 ft	**Longitude:**	-80.1628092
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	1,420.0ft

Wellbore Main Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/22/2010	-8.78	67.09	52,658

Design 513128 Surveys

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	328.91

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,500.0	0.85	9.05	2,499.9	11.9	-1.9	11.1	0.00	0.00	0.00
Tie-In @ 2500ft									
2,550.0	0.90	19.70	2,549.9	12.6	-1.7	11.7	0.34	0.10	21.30
2,568.0	0.70	15.70	2,567.9	12.8	-1.6	11.8	1.15	-1.11	-22.22
2,600.0	0.70	21.00	2,599.9	13.2	-1.5	12.1	0.20	0.00	16.56
2,631.0	0.70	53.10	2,630.9	13.5	-1.3	12.2	1.25	0.00	103.55
2,663.0	1.50	67.80	2,662.9	13.8	-0.7	12.2	2.63	2.50	45.94
2,695.0	1.50	83.00	2,694.9	14.0	0.1	11.9	1.24	0.00	47.50
2,726.0	2.00	90.50	2,725.9	14.0	1.0	11.5	1.77	1.61	24.19
2,758.0	2.50	100.70	2,757.9	13.9	2.3	10.7	2.00	1.56	31.87
2,790.0	3.10	108.50	2,789.8	13.5	3.8	9.6	2.22	1.87	24.37
2,821.0	3.80	109.10	2,820.8	12.9	5.6	8.2	2.26	2.26	1.94
2,852.0	4.30	124.00	2,851.7	11.9	7.5	6.3	3.74	1.61	48.06
2,884.0	5.00	123.90	2,883.6	10.5	9.6	4.0	2.19	2.19	-0.31
2,915.0	5.60	127.60	2,914.5	8.8	12.0	1.3	2.23	1.94	11.94
2,946.0	6.20	130.90	2,945.3	6.8	14.4	-1.7	2.22	1.94	10.65
3,041.0	8.90	136.20	3,039.5	-1.9	23.4	-13.7	2.93	2.84	5.58
3,135.0	10.30	143.20	3,132.1	-13.9	33.5	-29.2	1.94	1.49	7.45
3,229.0	11.30	149.70	3,224.5	-28.6	43.1	-46.7	1.67	1.06	6.91
3,323.0	12.50	155.20	3,316.5	-45.8	52.0	-66.1	1.76	1.28	5.85

Company:	EQT Production - Marcellus	**Local Co-ordinate Reference:**	Site Taylor County 513128
Project:	Taylor County, WV	**TVD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Site:	Taylor County 513128	**MD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Well:	Well #513128	**North Reference:**	Grid
Wellbore:	Main Wellbore	**Survey Calculation Method:**	Minimum Curvature
Design:	513128 Surveys	**Database:**	EQT2010

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,417.0	12.00	162.80	3,408.3	-64.3	59.2	-85.7	1.79	-0.53	8.09
3,511.0	12.00	173.40	3,500.3	-83.4	63.2	-104.0	2.34	0.00	11.28
3,605.0	12.00	181.70	3,592.2	-102.8	64.1	-121.1	1.83	0.00	8.83
3,699.0	13.40	187.90	3,683.9	-123.4	62.3	-137.8	2.08	1.49	6.60
3,793.0	13.00	194.30	3,775.5	-144.4	58.2	-153.7	1.61	-0.43	6.81
3,888.0	13.20	204.00	3,868.0	-164.7	51.1	-167.4	2.32	0.21	10.21
3,982.0	13.60	213.60	3,959.5	-183.7	40.6	-178.3	2.40	0.43	10.21
4,076.0	14.70	221.40	4,050.6	-201.9	26.6	-186.6	2.34	1.17	8.30
4,170.0	15.50	229.30	4,141.4	-219.0	9.2	-192.3	2.35	0.85	8.40
4,264.0	17.00	233.90	4,231.6	-235.3	-11.4	-195.6	2.10	1.60	4.89
4,359.0	18.30	238.00	4,322.2	-251.4	-35.3	-197.1	1.89	1.37	4.32
4,454.0	18.90	241.40	4,412.2	-266.7	-61.5	-196.6	1.30	0.63	3.58
4,548.0	19.70	247.20	4,500.9	-280.1	-89.4	-193.7	2.21	0.85	6.17
4,642.0	21.10	252.50	4,589.0	-291.3	-120.2	-187.4	2.46	1.49	5.64
4,737.0	23.10	253.00	4,677.0	-301.9	-154.3	-178.9	2.11	2.11	0.53
4,831.0	23.70	254.30	4,763.3	-312.4	-190.1	-169.4	0.84	0.64	1.38
4,926.0	22.60	252.20	4,850.7	-323.2	-225.9	-160.1	1.45	-1.16	-2.21
5,020.0	23.10	253.40	4,937.3	-333.9	-260.8	-151.3	0.73	0.53	1.28
February 16th Survey = 5020' MD									
5,114.0	24.10	257.90	5,023.4	-343.2	-297.2	-140.5	2.19	1.06	4.79
5,208.0	22.50	251.90	5,109.8	-352.8	-333.1	-130.2	3.04	-1.70	-6.38
5,302.0	22.20	248.20	5,196.7	-365.0	-366.7	-123.3	1.53	-0.32	-3.94
5,396.0	21.90	246.70	5,283.8	-378.6	-399.2	-118.0	0.68	-0.32	-1.60
5,490.0	21.80	244.80	5,371.1	-392.9	-431.1	-113.9	0.76	-0.11	-2.02
5,584.0	19.70	246.20	5,459.0	-406.8	-461.4	-110.1	2.30	-2.23	1.49
5,678.0	19.80	239.80	5,547.5	-421.2	-489.7	-107.8	2.30	0.11	-6.81
5,772.0	20.10	243.30	5,635.8	-436.4	-517.9	-106.3	1.31	0.32	3.72
5,866.0	20.70	249.10	5,723.9	-449.6	-547.8	-102.2	2.24	0.64	6.17
5,960.0	22.70	253.40	5,811.3	-460.7	-580.7	-94.7	2.72	2.13	4.57
6,054.0	23.30	258.80	5,897.8	-469.5	-616.4	-83.8	2.33	0.64	5.74
6,148.0	20.80	260.80	5,984.9	-475.8	-651.1	-71.3	2.78	-2.66	2.13
6,242.0	17.70	260.70	6,073.7	-480.8	-681.7	-59.8	3.30	-3.30	-0.11
6,336.0	15.10	262.60	6,163.8	-484.7	-707.9	-49.5	2.82	-2.77	2.02
6,431.0	12.00	265.90	6,256.2	-487.0	-730.0	-40.1	3.36	-3.26	3.47
6,525.0	9.30	267.90	6,348.6	-487.9	-747.4	-32.0	2.90	-2.87	2.13
6,619.0	7.50	273.10	6,441.5	-487.9	-761.1	-24.8	2.08	-1.91	5.53
6,713.0	5.40	283.20	6,535.0	-486.5	-771.5	-18.3	2.53	-2.23	10.74
6,808.0	2.90	285.30	6,629.7	-484.9	-778.2	-13.4	2.64	-2.63	2.21
6,902.0	0.00	173.70	6,723.7	-484.3	-780.5	-11.7	3.09	-3.09	0.00
6,996.0	0.90	106.00	6,817.7	-484.5	-779.8	-12.2	0.96	0.96	0.00
7,035.0	1.50	106.30	6,856.6	-484.7	-779.0	-12.8	1.54	1.54	0.77
7,066.0	1.20	92.80	6,887.6	-484.8	-778.3	-13.3	1.40	-0.97	-43.55
7,090.0	1.10	93.20	6,911.6	-484.8	-777.8	-13.6	0.42	-0.42	1.67
7,121.0	2.30	325.60	6,942.6	-484.3	-777.9	-13.1	9.99	3.87	-411.61
7,153.0	5.70	325.70	6,974.5	-482.5	-779.1	-10.9	10.63	10.62	0.31
7,184.0	8.20	335.00	7,005.3	-479.2	-780.9	-7.2	8.82	8.06	30.00
7,215.0	11.20	340.40	7,035.9	-474.4	-782.9	-2.0	10.10	9.68	17.42
7,247.0	14.30	341.60	7,067.1	-467.7	-785.2	4.9	9.72	9.69	3.75
7,278.0	16.50	342.30	7,097.0	-459.9	-787.7	12.9	7.12	7.10	2.26
7,309.0	19.00	345.20	7,126.5	-450.8	-790.3	22.0	8.55	8.06	9.35
7,404.0	28.20	347.70	7,213.4	-413.8	-799.1	58.2	9.74	9.68	2.63
7,498.0	36.50	349.20	7,292.8	-364.6	-809.1	105.5	8.87	8.83	1.60
7,592.0	46.30	350.30	7,363.2	-303.5	-820.1	163.5	10.45	10.43	1.17
7,685.0	58.30	348.90	7,420.0	-231.3	-833.4	232.3	12.96	12.90	-1.51

Company:	EQT Production - Marcellus	**Local Co-ordinate Reference:**	Site Taylor County 513128
Project:	Taylor County, WV	**TVD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Site:	Taylor County 513128	**MD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Well:	Well #513128	**North Reference:**	Grid
Wellbore:	Main Wellbore	**Survey Calculation Method:**	Minimum Curvature
Design:	513128 Surveys	**Database:**	EQT2010

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,780.0	70.60	347.10	7,460.9	-147.6	-851.2	313.1	13.06	12.95	-1.89
7,874.0	81.40	343.60	7,483.6	-59.5	-874.3	400.5	12.04	11.49	-3.72
7,968.0	88.30	341.50	7,492.0	29.7	-902.4	491.4	7.67	7.34	-2.23
8,015.0	89.10	340.60	7,493.1	74.2	-917.7	537.3	2.56	1.70	-1.91
8,069.0	90.30	336.30	7,493.4	124.4	-937.5	590.6	8.27	2.22	-7.96
8,163.0	91.50	335.20	7,491.9	210.1	-976.1	683.9	1.73	1.28	-1.17
8,257.0	90.40	334.50	7,490.3	295.1	-1,016.0	777.4	1.39	-1.17	-0.74
8,351.0	92.40	338.50	7,488.0	381.3	-1,053.5	870.5	4.76	2.13	4.26
8,445.0	91.60	341.70	7,484.8	469.6	-1,085.5	962.6	3.51	-0.85	3.40
8,540.0	90.90	342.00	7,482.7	559.9	-1,115.1	1,055.2	0.80	-0.74	0.32
8,634.0	90.60	343.70	7,481.5	649.7	-1,142.8	1,146.4	1.84	-0.32	1.81
8,728.0	91.60	346.20	7,479.7	740.4	-1,167.2	1,236.8	2.86	1.06	2.66
8,822.0	90.60	344.10	7,477.8	831.3	-1,191.3	1,327.0	2.47	-1.06	-2.23
8,917.0	87.90	340.90	7,479.1	921.8	-1,219.8	1,419.3	4.41	-2.84	-3.37
9,011.0	88.90	340.20	7,481.7	1,010.4	-1,251.1	1,511.3	1.30	1.06	-0.74
9,104.0	89.80	340.10	7,482.8	1,097.9	-1,282.7	1,602.5	0.97	0.97	-0.11
9,198.0	89.50	339.90	7,483.3	1,186.2	-1,314.8	1,694.8	0.38	-0.32	-0.21
9,292.0	90.90	339.30	7,483.0	1,274.3	-1,347.6	1,787.1	1.62	1.49	-0.64
9,386.0	90.80	339.60	7,481.6	1,362.4	-1,380.6	1,879.5	0.34	-0.11	0.32
9,480.0	88.60	339.90	7,482.1	1,450.5	-1,413.1	1,971.9	2.36	-2.34	0.32
9,574.0	89.00	340.30	7,484.1	1,538.9	-1,445.1	2,064.1	0.60	0.43	0.43
9,668.0	88.60	340.60	7,486.1	1,627.5	-1,476.6	2,156.1	0.53	-0.43	0.32
9,763.0	89.50	339.50	7,487.6	1,716.7	-1,509.0	2,249.3	1.50	0.95	-1.16
9,857.0	90.50	339.40	7,487.6	1,804.8	-1,542.0	2,341.7	1.07	1.06	-0.11
9,950.0	91.80	339.10	7,485.8	1,891.7	-1,574.9	2,433.2	1.43	1.40	-0.32
10,044.0	90.80	338.70	7,483.6	1,979.4	-1,608.7	2,525.8	1.15	-1.06	-0.43
10,138.0	91.60	338.80	7,481.7	2,067.0	-1,642.8	2,618.4	0.86	0.85	0.11
10,232.0	90.90	338.30	7,479.6	2,154.4	-1,677.2	2,711.0	0.92	-0.74	-0.53
10,326.0	92.70	340.10	7,476.7	2,242.3	-1,710.5	2,803.5	2.71	1.91	1.91
10,421.0	91.60	341.10	7,473.1	2,331.8	-1,742.1	2,896.4	1.56	-1.16	1.05
10,515.0	90.10	339.60	7,471.7	2,420.3	-1,773.7	2,988.5	2.26	-1.60	-1.60
10,609.0	89.20	339.00	7,472.3	2,508.2	-1,806.9	3,081.0	1.15	-0.96	-0.64
10,704.0	90.30	339.00	7,472.7	2,596.9	-1,840.9	3,174.5	1.16	1.16	0.00
10,798.0	90.30	338.10	7,472.2	2,684.4	-1,875.3	3,267.2	0.96	0.00	-0.96
10,892.0	90.00	335.90	7,471.9	2,770.9	-1,912.0	3,360.2	2.36	-0.32	-2.34
10,986.0	92.10	337.90	7,470.2	2,857.4	-1,948.9	3,453.3	3.08	2.23	2.13
11,080.0	93.00	338.00	7,466.0	2,944.4	-1,984.2	3,546.1	0.96	0.96	0.11
11,174.0	92.40	337.70	7,461.6	3,031.4	-2,019.6	3,638.8	0.71	-0.64	-0.32
11,269.0	92.40	337.50	7,457.6	3,119.1	-2,055.7	3,732.6	0.21	0.00	-0.21
11,363.0	91.80	336.80	7,454.2	3,205.7	-2,092.2	3,825.6	0.98	-0.64	-0.74
11,457.0	91.60	340.10	7,451.4	3,293.1	-2,126.7	3,918.2	3.52	-0.21	3.51
11,551.0	90.90	342.60	7,449.4	3,382.1	-2,156.8	4,010.0	2.76	-0.74	2.66
11,645.0	90.80	342.00	7,448.0	3,471.7	-2,185.3	4,101.4	0.65	-0.11	-0.64
11,739.0	91.80	343.00	7,445.8	3,561.3	-2,213.6	4,192.8	1.50	1.06	1.06
11,834.0	90.80	341.90	7,443.7	3,651.8	-2,242.2	4,285.1	1.56	-1.05	-1.16
11,914.0	91.10	344.40	7,442.3	3,728.4	-2,265.4	4,362.7	3.15	0.37	3.12
11,957.0	91.10	344.40	7,441.5	3,769.8	-2,277.0	4,404.1	0.00	0.00	0.00

PHOENIX
TECHNOLOGY SERVICES USA INC.

Survey Report

Company:	EQT Production - Marcellus	**Local Co-ordinate Reference:**	Site Taylor County 513128
Project:	Taylor County, WV	**TVD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Site:	Taylor County 513128	**MD Reference:**	KB est @ 1430.0ft (Original Well Elev)
Well:	Well #513128	**North Reference:**	Grid
Wellbore:	Main Wellbore	**Survey Calculation Method:**	Minimum Curvature
Design:	513128 Surveys	**Database:**	EQT2010

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,500.0	2,499.9	11.9	-1.9	Tie-In @ 2500ft
5,020.0	4,937.3	-333.9	-260.8	February 16th Survey = 5020' MD

Checked By: _____ Approved By: _____ Date: _____

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 9/28/2010
API #: 47-502318

Farm name: Berwin Winifrede Operator Well No.: BW-53

LOCATION: Elevation: 1010 FT Quadrangle: Belle 7.5'

District: Sherman County: Boone
Latitude: 430 Feet South of 38 Deg. 07 Min. 30 Sec.
Longitude 3580 Feet West of 81 Deg. 35 Min. 00 Sec.

Company: NorthStar Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
900 Lee St. E Ste. 940 Charleston, WV	Conduct.	32'	30'	
Agent: James Abcouwer	9 5/8"	515'	506'	376
Inspector: Barry Stollings	7"	1938'	1928'	392
Date Permit Issued: 02/05/2009	4 1/2"	5250'	5236'	486
Date Well Work Commenced: 1/1/2011				
Date Well Work Completed: 1/12/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5256				
Total Measured Depth (ft): 5250				
Fresh Water Depth (ft.): , 382,439				
Salt Water Depth (ft.): 1486, 1745				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): 368, 905,				
Void(s) encountered (N/Y) Depth(s) N				

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation LH, Rhinestreet, Marc. Pay zone depth (ft) 4680
Gas: Initial open flow 270 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 214 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 460 psig (surface pressure) after 48 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature 9-27-11
Date

Were core samples taken? Yes_____ No*_____ Were cuttings caught during drilling? Yes*_____ No_____

Were _____ Electrical, Y_____Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

2 fracture zones performed on the well BJ Services Tested lines to 4200 psi

1st- Marcellus Perf Intervals 4750'-4850' Nitrogen Fracture, 16 holes total Total Nitrogen = 20,043

125 gal. 15% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 10 pref bal

2nd- Rhinestreet Perf Intervals 4600'-4700' N2 Fracture, 14 holes total, Total Nitrogen = 14,044

125 gal. 15% HCL in Hole. Broke and dislplaced treated water with 75 Mscf N2 dropped 8 pref balls

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Sub Base	0'	10'
Fill	10'	21'
Sand and Shale	21'	935'
Upper Maxon	1020'	1043'
Lower Maxon	1684'	1698'
Little Lime	1745'	1813'
Big Lime	1857'	2100'
Big Injun	2111'	2138'
Middle Weir	2328'	2343'
Lower Weir	2485'	2506'
Berea	2561'	2573'
Middle Huron	3753'	4167'
Lower Huron	4654'	5072'
Marcellus Shale	5165'	5212'

WR-35 API# 47-013-04738

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Hannah, Helen R. Operator Well No. Joker #7
Location: Elevation: 939' Quadrangle: Annamoriah 7.5'
District: Center County: Calhoun
Latitude: 2,960 Feet South of 38 Degrees 55 Minutes 00 Seconds
Longitude: 10,300 Feet West of 81 Degrees 7 Minutes 30 Seconds

Company: Central West Virginia Oil & Gas, LLC
957 Bug Ridge
Sutton, WV 26601

Agent: William Hunt
Inspector: Ed Gainer
Permit Issued: 7/5/2011
Well work Commenced: 8/11/2011
Well work Completed: 8/16/2011
Verbal Plugging Permission granted on: _____
Rotary X Cable Tool ____ Rig
Total Vertical Depth (ft): 2502'
Total Measured Depth (ft): LTD- 2502' DTD- 2498'
Fresh Water Depths (ft): None reported
Salt Water Depths (ft): 1" stream at 1628'
Is coal being mined in area: No Void(s) encountered: No Depth(s): _____
Coal Depths: None reported

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"			
13 ⅜"	30'	30'	n/a
9 ⅝"	295'	295'	144 cf
7"			
4 ½"		2450'	148 cf

OPEN FLOW DATA:
Producing formation(s): Big Lime & Berea Pay zone depth (ft) see page 2
Gas: Initial open flow NEG MCF/D Oil: Initial open flow 0 Bbl/d
Final open flow 400 MCF/D Final open flow 0 Bbl/d
Time of open flow between initial and final tests: 8 Hours
Static rock pressure 80 psig (surface pressure) after 24 Hours

Second producing formation(s): _____ 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 THE 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.

FOR: Central WV ~~Oil &~~ Gas, LLC
BY: [signature]
DATE: 9/27/11

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

August 30, 2011

MIRU Pioneer Wireline Services to run GR/CBL/CCL.

Logger's TD -- 2502′ Calc TOC -- 1225′ Actual TOC -- 1442′ Marker Joint 1745′

September 2, 2011

MIRU Universal Well Services to conduct a 3-stage completion. Tested lines to 4500 psi.

RIH with 3 1/8″ Hollow gun, perforated Berea (2352 - 2354′) - 12 holes total. ROH with gun.

Hole dry, spotted 500 gals. 15% HCl, brokedown and displaced with treated water.

1st Stage - Berea: (2352 - 2354′) - 12 holes total. 60Q Foam Frac.

12 Bbls. (500 gals.) 15% HCl; 30,000# 20/40 sand; 2.5-7.5 ppg; 230 Bbls water; 156.5 Mscf N_2.

BKDN -- 1221 psi. ATP -- 1580 psi. AIR -- 8.7 bpm. ISIP -- 1628 psi.

RIH with 3 1/8″ Hollow gun, perforated Big Injun (1984 - 1994′) - 22 holes total. ROH with gun.

Set "Small Mouth" Frac Plug at 2000′. Dropped frac ball in 12 Bbls. 15% HCl, followed by treated water.

2nd Stage - Big Injun: (1984 - 1994′) - 22 holes total. 60Q Foam Frac.

12 Bbls. (500 gals.) 15% HCl; 50,100# 20/40 sand; 2.5-7.5 ppg; 343 Bbls water; 215 Mscf N_2.

BKDN -- 1654 psi. ATP -- 1397 psi. AIR -- 8.5 bpm ISIP -- 1840 psi.

RIH with 3 1/8″ Hollow gun, perforated Big Lime (1929 - 1936′) - 16 holes total. ROH with gun.

Set "Large Mouth" Frac Plug at 1950′. Dropped frac ball in 12 Bbls. 15% HCl, followed by treated water.

3rd Stage - Big Lime: (1929 - 1936′) - 16 holes total. Energized Acid Frac.

76.8 Bbls. (3,200 gals.) 15% HCl; 113 Mscf N_2.

BKDN -- 3827 psi. ATP -- 2050 psi. AIR -- 4.0 bpm ISIP -- 2221 psi.

Dropped 28 perf balls thru stage.

Formation Depths taken from Gamma Ray Log

Strata	Depths	Remarks
Sub Base	0′ -- 8′	
Fill	8′ -- 30′	
Shaley Sand	30′ -- 425′	
Sand & Shale	425′ -- 1006′	
Gas Sand	**1006′ -- 1098′**	
Shale	1098′ -- 1130′	
Salt Sand	**1130′ -- 1272′**	
Shale	1272′ -- 1348′	
Salt Sand	**1348′ -- 1384′**	
Shale	1384′ -- 1632′	1" stream at 1628'
Maxton	**1632′ -- 1815′**	
Shale	1815′ -- 1820′	
Little Lime	**1820′ -- 1839′**	
Pencil Cave	**1839′ -- 1857′**	
Big Lime	**1857′ -- 1951′**	
Big Injun	**1951′ -- 1999′**	
Shale	1999′ -- 2338′	
Sunbury Shale	**2338′ -- 2352′**	
Berea	**2352′ -- 2356′**	
Shale	2356′ -- TD	DTD - 2498'
		No core samples taken and no cuttings caught

Total Depth: 2502' **Well Electric Logged by:** Weatherford

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 9/28/2010
API #: 47-502361

Farm name: Berwin Winifrede Operator Well No.: BW-62

LOCATION: Elevation: 1424 FT Quadrangle: Belle 7.5'

District: Sherman County: Boone
Latitude: 14,030 Feet South of 38 Deg. 10 Min. 00 Sec.
Longitude 4,210 Feet West of 81 Deg. 35 Min. 00 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
900 Lee St. E Ste. 940 Charleston, WV	Conduct.	32'	30'	
Agent: James Abcouwer	9 5/8"	946'	940'	376
Inspector: Barry Stollings	7"	2248'	2244'	487
Date Permit Issued: 12/28/2010				
Date Well Work Commenced: 1/24/2011				
Date Well Work Completed: 2/1/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5588				
Total Measured Depth (ft): 5585				
Fresh Water Depth (ft.): 235, 342,412				
Salt Water Depth (ft.): 1345, 1867				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): 328, 887, 894				
Void(s) encountered (N/Y) Depth(s) N				

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Lime, Inj, Ber, Weir Hul Pay zone depth (ft) 5335
Gas: Initial open flow 312 MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 243 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 290 psig (surface pressure) after 48 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature 9-27-11
Date

Were core samples taken? Yes_____ No*_____ Were cuttings caught during drilling? Yes*_____ No_____

Were _____ Electrical, Y_____Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Naturally Producing Well

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Sub Base	0'	10'
Fill	10'	21'
Sand and Shale	21'	935'
Upper Maxon	1018'	1032'
Lower Maxon	1158'	1191'
Little Lime	2118'	2188'
Big Lime	2304'	2474'
Big Injun	2481'	2510'
Middle Weir	2608'	2645'
Lower Weir	2853'	2900'
Berea	2938'	2943'
Middle Huron	4112'	4454'
Lower Huron	4975'	5438'
Marcellus Shale	5504	5558'

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 9/28/2010
API #: 47-3906280

Farm name: Berwin Marmet Operator Well No.: BM-26

LOCATION: Elevation: 955 FT Quadrangle: Belle 7.5'

District: Loudon County: Kanawha
Latitude: 13,000 Feet South of 38 Deg. 15 Min. 00 Sec.
Longitude 11,220 Feet West of 81 Deg. 32 Min. 30 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
900 Lee St. E Ste. 940 Charleston, WV	Conduct.	32'	30'	
Agent: James Abcouwer	9 5/8"	436'	432'	318
Inspector: Terry Urban	7"	1348'	1344'	395
Date Permit Issued: 12/28/2010				
Date Well Work Commenced: 1/16/2011				
Date Well Work Completed: 1/23/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 2236				
Total Measured Depth (ft): 2230				
Fresh Water Depth (ft.): 286, 364				
Salt Water Depth (ft.): 856, 1086				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 220, 645, 866				
Void(s) encountered (N/Y) Depth(s) N				

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Lime, Inj, Weir Pay zone depth (ft) 2150
Gas: Initial open flow 243 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 156 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 280 psig (surface pressure) after 48 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 9-27-11

Were core samples taken? Yes_____ No*_____ Were cuttings caught during drilling? Yes*_____ No_____

Were _____ Electrical, Y Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Naturally Producing Well

Formations Encountered:	Top Depth /	Bottom Depth
Surface:		
Sub Base	0'	10'
Fill	10'	21'
Sand and Shale	21'	935'
Upper Maxon	935'	972'
Lower Maxon	1032'	1062'
Little Lime	1347'	1486'
Big Lime	1664'	1742'
Big Injun	1780'	1798'
Middle Weir	1983'	2017'
Lower Weir	2133'	2185'

WR-35
Rev (5-01)

DATE:
API #: 47-5101402

CR

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

Well Operator's Report of Well Work

Farm name: HAZLETT, FREDERICK S. Operator Well No.: SHL-1F-HS

LOCATION: Elevation 1166.13' Quadrangle: MAJORSVILLE

District: SANDHILL County MARSHALL
Latitude: Feet South of 39 Deg. 58 Min. 24.1 Sec.
Longitude Feet West of 80 Deg. 34 Min. 29.54 Sec.

Company: CNX Gas Company LLC	**Casing & Tubing**	**Used in drilling**	**Left in well**	**Cement fill up Cu. Ft.**
Address: 200 Evergreene Drive				
Waynesburg, PA 15370				
Agent: Tim Rinehart				
Inspector: Bill Hendershot				
Date Permit Issued: 01/24/2011				
Date Well Work Commenced: 09/27/2011	30"	39'	39'	Grouted in
Date Well Work Completed:				
Verbal Plugging N/A	13 3/8"	1016'	1016'	670 sks
Date Permission granted on: 01/26/2011				
Rotary Cable Rig X	9 5/8"	2913'	2913'	950 sks
Total Depth (feet): 9,201'	5 ½"	9,111'	9,111'	1,069 sks
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.) 652'-658'				

OPEN FLOW DATA

Producing formation Marcellus 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

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

***Commingled with previous formations**

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.

Signed: Tim
By: Tim Rinehart
Date: 09-28-11

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

WR-35
Rev (5-01)
Page 2 of 2

WELL: 47-5101402

Were core samples taken? Yes / No **Were cuttings caught during drilling?** Yes / No

Were Electrical Yes / No, **Mechanical** Yes / No, **or Geophysical logs** Yes / No **recorded on this well?**

NOTE: IN THE AREA BELOW PUT THE FOLLOWING:

1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR PHYSICAL CHANGE, ETC.
2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

PERFORATED INTERVALS, FRACTURING, OR STIMULATING:

FORMATIONS ENCOUNTERED:

GAMMA RAY /FORMATION TOPS

FORMATION **TOP** **BASE**

Depths Determined By Drillers Log

Driller's Log	
Depth	**Formation**
0'-15'	Fill
15'-150'	Shale
150'-652'	Shale/Sand
652'658'	Coal
658'-762'	Shale/Sand
762'-1013'	Red Rock
1013'-1249'	Shale
1249'-1377'	Shale/Sand
1377'-1408'	Shale/Lime
1408'-1502'	Shale/Sand
1502'-1659'	Sand
1659'-1721'	Sand/Lime
1721'-1782'	Sand/Shale/Lime
1782'-1847'	Sand
1847'-2003'	Shale/Sand
2003'-2097'	Shale/Lime
2097'-2253'	Sand/Shale/Lime
2253'-2284'	Sand/Shale/Lime
2284'-2378'	Sand/Lime/Silt
2378'-2473'	Red Rock/Shale
2473'-2505'	Red Rock/Shale
2505'-2599'	Shale/Lime
2599'-2694'	Sand/Shale/Lime
2694'-2820'	Sand/Shale/Silt
2820'-2946'	Shale/Lime
2946'-3027'	Sand/Shale/Silt
3027'-3500'	Sand/Silt

Depth Determined From AIR-Quad/Gamma Logs

CONSOL ENERGY

Geological Top Estimations

Well (Pad) Name	SHL01 pad
Datum (GR)	1163

	TVD	S.L.	
Gas Sand Top	1262	-99	
Gas Sand Base	1326	-163	
1st Salt Sand Top	1358	-195	
1st Salt Sand Base	1366	-203	
2nd Salt Sand Top	1463	-300	The salt sands could possibly be a fluid thief zone
2nd Salt Sand Base	1518	-355	
3rd Salt Sand Top	1551	-388	
3rd Salt Sand Base	1592	-429	
Maxton Top	1613	-450	
Maxton Base	1693	-530	
Big Lime Top	1697	-534	
Big Injun Top	1730	-567	
Big Injun Base	1916	-753	
Berea Top	2212	-1049	
Berea Base	2229	-1066	
Gantz Top	2265	-1102	
Gantz Base	2313	-1150	
Gordon Top	2631	-1468	
Gordon Base	2649	-1486	
Fifth Top	2741	-1578	
Fifth Base	2772	-1609	
Burkett Shale	6302	-5139	
Tully Top	6310	-5147	
Hamilton Top	6343	-5180	
Marcellus	~6449	-5286	
Onondaga	~6508	-5345	

TVD: ~6530

WR-35
Rev (5-01)

DATE: 9-12-11
API #: 47-5101387

CR

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

Well Operator's Report of Well Work

Farm name: HAZLETT, FREDERICK S. Operator Well No.: SHL-1B-HS

LOCATION: Elevation 1163.45' Quadrangle: MAJORSVILLE

District: SANDHILL County MARSHALL
Latitude: Feet South of 39 Deg. 58 Min. 23.96 Sec.
Longitude Feet West of 80 Deg. 34 Min. 29.22 Sec.

Company: CNX Gas Company LLC	**Casing & Tubing**	**Used in drilling**	**Left in well**	**Cement fill up Cu. Ft.**
Address: 200 Evergreene Drive				
Waynesburg, PA 15370				
Agent: Tim Rinehart				
Inspector: Bill Hendershot				
Date Permit Issued: 01/24/2011				
Date Well Work Commenced: 01/26/2011	30"	39'	39'	Grouted In
Date Well Work Completed: 09/02/2011	20"	80'	80'	105 sks
Verbal Plugging N/A	13 3/8"	959'	959'	670 sks
Date Permission granted on: 01/26/2011				
Rotary Cable Rig X	9 5/8"	2896'	2896'	950 sks
Total Depth (feet): 12,964'	5 ½"	12,885'	12,885'	2,176 sks
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.) 652'-658'				

OPEN FLOW DATA

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

Producing formation Marceullus Pay zone depth (ft)12,964'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure.5 psi/ft at a TVD of 7,057' 3,528.5 psi 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

***Commingled with previous formations**

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.

Signed: Tim
By: Tim Rinehart
Date: 09-02-11

WR-35
Rev (5-01)
Page 2 of 2

WELL: 47-5101387

Were core samples taken? Yes / No **Were cuttings caught during drilling?** Yes / No

Were Electrical Yes / No, **Mechanical** Yes / No, **or Geophysical logs** Yes / No **recorded on this well?**

NOTE: IN THE AREA BELOW PUT THE FOLLOWING:

1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR PHYSICAL CHANGE, ETC.
2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

PERFORATED INTERVALS, FRACTURING, OR STIMULATING:

FORMATIONS ENCOUNTERED:

GAMMA RAY /FORMATION TOPS

FORMATION **TOP** **BASE**

Depths Determined By Drillers Log

Driller's Log	
Depth	**Formation**
0'-15'	Fill
15'-150'	Shale
150'-652'	Shale/Sand
652'658'	Coal
658'-762'	Shale/Sand
762'-1013'	Red Rock
1013'-1249'	Shale
1249'-1377'	Shale/Sand
1377'-1408'	Shale/Lime
1408'-1502'	Shale/Sand
1502'-1659'	Sand
1659'-1721'	Sand/Lime
1721'-1782'	Sand/Shale/Lime
1782'-1847'	Sand
1847'-2003'	Shale/Sand
2003'-2097'	Shale/Lime
2097'-2253'	Sand/Shale/Lime
2253'-2284'	Sand/Shale/Lime
2284'-2378'	Sand/Lime/Silt
2378'-2473'	Red Rock/Shale
2473'-2505'	Red Rock/Shale
2505'-2599'	Shale/Lime
2599'-2694'	Sand/Shale/Lime
2694'-2820'	Sand/Shale/Silt
2820'-2946'	Shale/Lime
2946'-3027'	Sand/Shale/Silt

3027'-3500'	Sand/Silt

Depth Determined From AIR-Quad/Gamma Logs

CONSOL ENERGY

Geological Top Estimations

Well (Pad) Name	SHL01 pad
Datum (GR)	1163

	TVD	S.L.	
Gas Sand Top	1262	-99	
Gas Sand Base	1326	-163	
1st Salt Sand Top	1358	-195	
1st Salt Sand Base	1366	-203	
2nd Salt Sand Top	1463	-300	The salt sands could possibly be a fluid thief zone
2nd Salt Sand Base	1518	-355	
3rd Salt Sand Top	1551	-388	
3rd Salt Sand Base	1592	-429	
Maxton Top	1613	-450	
Maxton Base	1693	-530	
Big Lime Top	1697	-534	
Big Injun Top	1730	-567	
Big Injun Base	1916	-753	
Berea Top	2212	-1049	
Berea Base	2229	-1066	
Gantz Top	2265	-1102	
Gantz Base	2313	-1150	
Gordon Top	2631	-1468	
Gordon Base	2649	-1486	
Fifth Top	2741	-1578	
Fifth Base	2772	-1609	
Burkett Shale	6302	-5139	
Tully Top	6310	-5147	
Hamilton Top	6343	-5180	
Marcellus	~6449	-5286	
Onondaga	~6508	-5345	

TVD: ~6530

WR-35
Rev (5-01)

DATE: 9/28/11
API #:47-5101367

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

Well Operator's Report of Well Work

Farm name: CNX GAS COMPANY LLC Operator Well No.: SHL-3G-HS

LOCATION: Elevation 1290' Quadrangle: MAJORSVILLE

District: SANDHILL County MARSHALL
Latitude: Feet South of 39 Deg. 58 Min. 15.75 Sec.
Longitude Feet West of 80 Deg. 33 Min. 25.22 Sec.

Company: CNX Gas Company LLC	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 200 Evergreene Drive				
Waynesburg, PA 15370				
Agent: Ben Geary				
Inspector: Derek Haught				
Date Permit Issued: 11/01/2010				
Date Well Work Commenced: 09/21/2011	20"	40'	40'	Grouted in
Date Well Work Completed:				
Verbal Plugging N/A	13 3/8"	1025'	1025'	587 sks
Date Permission granted on: 11/01/2010				
Rotary X Cable Rig	9 5/8"	3129'	3129'	236 bbls
Total Depth (feet): 4250'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.) 660'-665'				

OPEN FLOW DATA

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

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

*Commingled with previous formations

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.

Signed: [signature]
By: Luke Beebe
Date: 9/29/11

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

2458'-2696'	SH SLTST
2696'-2758'	SH SIL
2758'-3166'	SD SH
3166'-3556'	SH SLTST
3587'-3649'	SH
3649'-3807'	SH TRC SLTST
3807-4250'	SH

Depth Determined From AIR-Quad/Gamma Logs

CONSOLENERGY

Geological Top Estimations

Well (Pad) Name **SHL03 pad**
Datum (GR) **1290'**

	TVD	S.L.
Pittsburgh Coal	**660**	630
Mahoning Coal	**1112**	178
Gas Sand Top	**1457**	-167
Gas Sand Base	**1521**	-231
1st Salt Sand Top	**1553**	-263
1st Salt Sand Base	**1561**	-271
2nd Salt Sand Top	**1658**	-368
2nd Salt Sand Base	**1713**	-423
3rd Salt Sand Top	**1746**	-456
3rd Salt Sand Base	**1787**	-497
Maxton Top	**1808**	-518
Maxton Base	**1888**	-598
Big Lime Top	**1892**	-602
Big Injun Top	**1925**	-635
Big Injun Base	**2111**	-821
Berea Top	**2407**	-1117
Berea Base	**2424**	-1134
Gantz Top	**2460**	-1170
Gantz Base	**2508**	-1218
Gordon Top	**2826**	-1536
Gordon Base	**2844**	-1554
Fifth Top	**2936**	-1646
Fifth Base	**2967**	-1677
Burkett Shale	**6497**	-5207
Tully Top	**6505**	-5215
Hamilton Top	**6538**	-5248
Marcellus	**6643**	-5353
Onondaga	**6695**	-5405

The salt sands could possibly be a fluid thief zone

TVD: **~6845**

WR-35
Rev (8-10)

DATE: 9/19/2011
API #: 4700103198

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

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protection

Well Operator's Report of Well Work

Farm name: QUEEN, DONNA Operator Well No.: 1

LOCATION: Elevation: 1781' Quadrangle: NESTORVILLE

District: COVE County: BARBOUR
Latitude: 810 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 40 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 01/11/11	9 5/8"	465	465	215
Date Well Work Commenced: 06/23/11				
Date Well Work Completed: 06/30/11	7"	2025	2025	265
Verbal Plugging:				
Date Permission granted on:	4 ½"	5631	5631	230
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5832				
Total Measured Depth(ft.): 5832				
Fresh Water Depth (ft.): 55, 322, 740				
Salt Water Depth (ft.):				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 165, 675				
Void(s) encountered (N/Y) Depth(s): N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5517' - 5522'
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 146 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1500 psig(surface pressure) after 96 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5175' - 5186'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-22-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5517' - 5522' (15 shots). BD 4185 #. 100 sks 20/40 & 200 sks 40/70. 566 bbl. Gel Frac.
Perfed 3rd Elk 5175' - 5186" (22 shots). BD 3350 #. 110 sks 20/40 & 200 sks 40/70. 644 bbl. Gel Frac.
Perfed Alexander 4491' - 4522' (32 shots). BD 3150 #. 109 sks 20/40 & 150 sks 40/70. 735 bbl. Gel Frac.
Perfed Balltown C 3432' - 3437' (15 shots). BD 4600 #. 86 sks 20/40 & 75 sks 40/70. 403 bbl. Gel Frac.
Perfed Speechley C 2846' - 2852' (18 shots). BD 3734#. 108 sks 20/40 & 100 sks 40/70. 423 bbl. Gel Frac

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	16	
SANDSTONE	16	24	
SANDY SHALE	24	52	
SHALE	52	75	DAMP @ 55'
SANDY SHALE	75	112	
SHALE	112	165	
COAL	165	170	
SANDSTONE	170	230	
SANDY SHALE	230	285	
SANDSTONE	285	390	1/2" FW @ 322'
SANDY SHALE	390	410	
REDROCK	410	450	
SANDSTONE	450	485	
SANDY SHALE	485	675	
COAL	675	680	
SANDY SHALE	680	760	DAMP @ 740'
SANDSTONE	760	845	
SHALE	845	900	
SANDY SHALE	900	990	
SANDSTONE	990	1075	
SANDY SHALE	1075	1115	
REDROCK	1115	1280	
SANDSTONE	1280	1355	
REDROCK	1355	1468	
LITTLE LIME	1468	1483	
PENCIL CAVE SHALE	1483	1515	
BIG LIME	1515	1740	
SANDY SHALE	1740	1760	
WEIR SANDSTONE	1760	1807	
SHALE	1807	1917	
UPPER GANTZ SANDSTONE	1917	19311	
SHALE	19311	1952	
GANTZ SANDSTONE	1952	2054	
SANDY SHALE	2054	2844	
SPEECHLEY C SANDSTONE	2844	2871	
SANDY SHALE	2871	3422	
BALLTOWN C SANDSTONE	3422	3450	
SANDY SHALE	3450	4294	
BENSON SILTSTONE	4294	4303	
SANDY SHALE	4303	4490	
ALEXANDER SILTSTONE	4490	4525	
SANDY SHALE	4525	4700	
1ST ELK SILTSTONE	4700	4808	
SANDY SHALE	4808	4957	
2ND ELK SILTSTONE	4957	4988	
SHALE	4988	5057	
2ND ELK A SILTSTONE	5057	5090	
SANDY SHALE	5090	5179	
3RD ELK SILTSTONE	5179	5250	
SANDY SHALE	5250	5303	
4TH ELK SILTSTONE	5303	5350	
SANDY SHALE	5350	5503	
5TH ELK SILSTONE	5503	5561	
SHALE	5561	5832	TD

Third Producing formation: ALEXANDER Pay zone Depth (ft) 4491' - 4522'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN C Pay zone Depth (ft) 3432' - 3237'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: SPEECHLEY C Pay zone Depth (ft) 2846' - 2852'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/19/2011
API #: 4700103155

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

Well Operator's Report of Well Work

Farm name: SIGLEY, RALPH Operator Well No.: 6

LOCATION: Elevation: 1416' Quadrangle: FELLOWSVILLE

District: COVE County: BARBOUR
Latitude: 6,898 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 9,140 Feet West of 79 Deg. 50 Min. 0 Sec.

RECEIVED
Office of Oil & Gas
OCT 5 2011
WV Department of
Environmental Protec

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 10/07/10	9 5/8"	465	465	170
Date Well Work Commenced: 07/01/11				
Date Well Work Completed: 07/11/11	7"	1646	1646	230
Verbal Plugging:				
Date Permission granted on:	4 ½"	5041	5041	180
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5520				
Total Measured Depth(ft.): 5520				
Fresh Water Depth (ft.): 75, 530				
Salt Water Depth (ft.):				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s): N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 3RD ELK Pay zone Depth (ft) 4883' - 4888'
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 231 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1225 psig(surface pressure) after 96 Hours

Second Producing formation: ALEXANDER Pay zone Depth (ft) 4218' - 4224'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-22-11
Date

Were core samples taken? Yes ___ No X . Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 3rd Elk 4883' - 4888' (15 shots). BD 4083 #. 100 sks 20/40 & 200 sks 40/70. 466 bbl. Gel Frac.
Perfed Alexander 4218' - 4224' (18 shots). BD 3629 #. 100 sks 20/40 & 100 sks 40/70. 276 bbl. Gel Frac.
Perfed Benson 3994' - 4000' (18 shots). BD 3174 #. 100 sks 20/40 & 50 sks 40/70. 288 bbl. Gel Frac.
Perfed Balltown C 3124' - 3137' (16 shots). BD 3081 #. 100 sks 20/40 & 100 sks 40/70. 310 bbl. Gel Frac.
Perfed Balltown B 2976' - 2994' (20 shots). BD 4150#. 150 sks 20/40 & 200 sks 40/70. 520 bbl. Gel Frac

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	12	
SANDY SHALE	12	35	
SANDSTONE	35	65	
SANDY SHALE	65	315	1/2" FW @ 75'
SANDSTONE	315	430	
SANDY SHALE	430	465	
SANDSTONE	465	495	
SANDY SHALE	495	815	DAMP @ 530'
SANDSTONE	815	925	
REDROCK	925	935	
SANDY SHALE	935	975	
REDROCK	975	1015	
SANDY SHALE	1015	1095	
SANDSTONE	1095	1127	
LITTLE LIME	1127	1142	
PENCIL CAVE SHALE	1142	1170	
BIG LIME	1170	1427	
SANDY SHALE	1427	1454	
WEIR SANDSTONE	1454	1493	
SHALE	1493	1599	
UPPER GANTZ SANDSTONE	1599	1617	
SHALE	1617	1639	
GANTZ SANDSTONE	1639	1755	
SANDY SHALE	1755	2445	
SPEECHLEY B SANDSTONE	2445	2464	
SANDY SHALE	2464	2960	
BALLTOWN B SANDSTONE	2960	3140	
SANDY SHALE	3140	3993	
BENSON SILTSTONE	3993	4003	
SANDY SHALE	4003	4195	
ALEXANDER SILTSTONE	4195	4240	
SANDY SHALE	4240	4403	
1ST ELK SILTSTONE	4403	4444	
SANDY SHALE	4444	4651	
2ND ELK SILTSTONE	4651	4700	
SHALE	4700	4755	
2ND ELK A SILTSTONE	4755	4810	
SANDY SHALE	4810	4885	
3RD ELK SILTSTONE	4885	4935	
SANDY SHALE	4935	5018	
4TH ELK SILTSTONE	5018	5067	
SANDY SHALE	5067	5213	
5TH ELK SILSTONE	5213	5267	
SHALE	5267	5520	TD

Third Producing formation: BENSON Pay zone Depth (ft) 3994' - 4000'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN C Pay zone Depth (ft) 3124' - 3137'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: BALLTOWN B Pay zone Depth (ft) 2976' - 2994'
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/28/2011
API #: 4709101199

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

Well Operator's Report of Well Work

Farm name: WALTER, ARTHUR Operator Well No.: 2

LOCATION: Elevation: 1333' Quadrangle: THORNTON

District: KNOTTSVILLE County: TAYLOR
Latitude: 280 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 6,780 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 09/27/10	9 5/8"	465	465	205
Date Well Work Commenced: 07/21/11				
Date Well Work Completed: 07/27/11	7"	1438	1438	200
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5161	237
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5610				
Total Measured Depth(ft.): 5610				
Fresh Water Depth (ft.): 90, 210, 300, 350, 400, 508				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 290				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
OCT 7 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 3RD ELK Pay zone Depth (ft) 5003 - 5045
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 189 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 680 psig(surface pressure) after 96 Hours

Second Producing formation: BALLTOWN A Pay zone Depth (ft) 2823 - 2830
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-30-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 3rd Elk 5003' - 5045' (24 shots). BD 2160 #. 250 sks 40/70 & 105 sks 20/40. 755 bbl. Gel Frac.
Perfed Balltown A 2823' - 2830' (21 shots). BD 4250 #. 150 sks 40/70 & 110 sks 20/40. 524 bbl. Gel Frac.
Perfed Bayard & Speechley A 2235' - 2299' (24 shots). BD 4320 #. 200 sks 40/70 & 110 sks 20/40. 536 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SANDY SHALE	15	25	
SANDSTONE	25	45	
SANDY SHALE	45	145	DAMP FW @ 90'
SANDSTONE	145	205	
SANDY SHALE	205	290	1" FW @ 210'
COAL	290	300	1" FW @ 300'
SANDY SHALE	300	365	1 1/2" FW @ 350'
SANDSTONE	365	425	3" FW @ 400'
SANDY SHALE	425	740	1/2" FW @ 508'
REDROCK SHALE	740	795	
SANDY SHALE	795	945	
REDROCK SHALE	945	980	
SANDY SHALE	980	987	
LITTLE LIME	987	1001	
PENCIL CAVE SHALE	1001	1023	
BIG LIME	1023	1226	
SHALE	1226	1260	
SQUAW SANDSTONE	1260	1280	
SHALE	1280	1312	
WEIR SANDSTONE	1312	1379	
SHALE	1379	1460	
BEREA SANDSTONE	1460	1481	
UPPER GANTZ SANDSTONE	1481	1492	
SHALE	1492	1517	
GANTZ SANDSTONE	1517	1546	
SHALE	1546	1563	
LOWER GANTZ SANDSTONE	1563	1581	
SHALE	1581	2027	
LOWER FOURTH SAND	2027	2040	
SANDY SHALE	2040	2222	
BAYARD SANDSTONE	2222	2253	GAS SHOW @ 2237' TSTM
SHALE	2253	2282	
SPEECHLEY A SANDSTONE	2282	2305	GAS SHOW @ 2300' TSTM
SANDY SHALE	2305	2364	
SPEECHLEY B SANDSTONE	2364	2375	
SANDY SHALE	2375	2818	
BALLTOWN A SANDSTONE	2818	2837	
SANDY SHALE	2837	3944	
LOWER RILEY SILTSTONE	3944	3962	
SHALE	3962	4309	
ALEXANDER SILTSTONE	4309	4357	
SANDY SHALE	4357	4503	
1ST ELK SILTSTONE	4503	4543	
SANDY SHALE	4543	5004	
3RD ELK SILTSTONE	5004	5045	GAS SHOW @ 5007' TSTM
SHALE	5045	5610	TD

Third Producing formation:	BAYARD & SPEECHLEY A	Pay zone Depth (ft)		2235' - 2299'	
Gas: Initial open flow:	Co-mingled	MCF/D	Oil: Initial open flow:	0	Bbl/d
Final open flow	Co-mingled	MCF/D	Oil: Final open flow:	0	Bbl/d
Time of open flow between initial and final tests:		Hours			
Static rock Pressure:	Co-mingled	psig(surface pressure) after		-	Hours

WR-35
Rev (8-10)

DATE: 9/28/2011
API #: 4700103206

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

Well Operator's Report of Well Work

Farm name: HARKER, ARTHUR Operator Well No.: 3

LOCATION: Elevation: 1454' Quadrangle: THORNTON

District: COVE County: BARBOUR
Latitude: 6,320 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 5,690 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 02/03/11	9 5/8"	465	465	180
Date Well Work Commenced: 08/11/11				
Date Well Work Completed: 08/19/11	7"	1603	1603	220
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5455	205
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5541				
Total Measured Depth(ft.): 5541				
Fresh Water Depth (ft.): 117, 365, 590				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 95, 290, 408				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
OCT 7 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5321 - 5363
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 375 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1230 psig(surface pressure) after 120 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 4993 - 5011
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-30-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5321' - 5363' (26 shots). BD 3369 #. 250 sks 40/70 & 103 sks 20/40. 643 bbl. Gel Frac.
Perfed 3rd Elk 4993' - 5011' (22 shots). BD 4040 #. 200 sks 40/70 & 105 sks 20/40. 601 bbl. Gel Frac.
Perfed 2nd Elk 4764' - 4769' (15 shots). BD 3940 #. 75 sks 40/70 & 81 sks 20/40. 425 bbl. Gel Frac.
Perfed Alexander 4310' - 4329' (21 shots). BD 4019 #. 200 sks 40/70 & 106 sks 20/40. 591 bbl. Gel Frac.
Perfed Benson 4098' - 4103' (15 shots). BD 3818 #. 75 sks 40/70 & 81 sks 20/40. 413 bbl. Gel Frac.
Perfed Balltown B 3052' - 3058' (18 shots). BD 3500 #. 100 sks 40/70 & 109 sks 20/40. 424 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SHALE	15	25	
SANDY SHALE	25	95	
COAL	95	100	
SANDY SHALE	100	160	DAMP FW @ 117'
SANDSTONE	160	225	
SANDY SHALE	225	285	
SANDSTONE	285	290	
COAL	290	295	
SANDY SHALE	295	408	5" FW @ 365'
COAL	408	412	
SANDSTONE	412	465	
SANDY SHALE	465	470	
SANDSTONE	470	520	
SANDY SHALE	520	555	
SANDSTONE	555	680	DAMP FW @ 590'
SANDY SHALE	680	735	
SANDSTONE	735	800	
SANDY SHALE	800	980	
SANDSTONE	980	1060	
SANDY SHALE	1060	1125	
REDROCK SHALE	1125	1178	
LITTLE LIME	1178	1193	
PENCIL CAVE SHALE	1193	1218	
BIG LIME	1218	1441	
SQUAW SANDSTONE	1441	1491	
SHALE	1491	1500	
WEIR SANDSTONE	1500	1646	
BEREA SANDSTONE	1646	1654	
SHALE	1654	1689	
GANTZ SANDSTONE	1689	1728	
LOWER GANTZ SANDSTONE	1728	1758	GAS SHOW - 235 MCF
SANDY SHALE	1758	2372	
BAYARD SANDSTONE	2372	2381	
SANDY SHALE	2381	2422	
SPEECHLEY A SANDSTONE	2422	2465	
SANDY SHALE	2465	3052	
BALLTOWN B SANDSTONE	3052	3062	
SHALE	3062	4099	
BENSON SILTSTONE	4099	4105	
SANDY SHALE	4105	4290	
ALEXANDER	4290	4332	
SHALE	4332	4493	
1ST ELK SILTSTONE	4493	4550	
SANDY SHALE	4550	4765	
2ND ELK SILTSTONE	4765	4772	
SANDY SHALE	4772	4989	
3RD ELK SILTSTONE	4989	5040	
SANDY SHALE	5040	5321	
5TH ELK SILTSTONE	5321	5364	
SHALE	5364	5541	TD

Third Producing formation: 2ND ELK Pay zone Depth (ft) 4764 - 4769
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: ALEXANDER Pay zone Depth (ft) 4310 - 4329
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: BENSON Pay zone Depth (ft) 4098 - 4103
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Sixth Producing formation: BALLTOWN B Pay zone Depth (ft) 3052 - 3058
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/28/2011
API #: 4700103207

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

Well Operator's Report of Well Work

Farm name: HARKER, ARTHUR Operator Well No.: 4

LOCATION: Elevation: 1682' Quadrangle: THORNTON

District: COVE County: BARBOUR
Latitude: 6,130 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 4,630 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 02/03/11	9 5/8"	465	465	170
Date Well Work Commenced: 08/04/11				
Date Well Work Completed: 08/11/11	7"	1857	1857	250
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5673	253
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5790				
Total Measured Depth(ft.): 5790				
Fresh Water Depth (ft.): 110, 740				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 750				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
OCT 7 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5533 - 5565
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 304 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 810 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5205 - 5233
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-30-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5533' - 5565' (21 shots). BD 3147 #. 155 sks 40/70 & 100 sks 20/40. 501 bbl. Gel Frac.
Perfed 3rd Elk 5205' - 5233' (28 shots). BD 4180 #. 250 sks 40/70 & 112 sks 20/40. 875 bbl. Gel Frac.
Perfed 1st Elk 4763' - 4767' (12 shots). BD 4520 #. 105 sks 40/70 & 100 sks 20/40. 437 bbl. Gel Frac.
Perfed Balltown B 3258' - 3268' (20 shots). BD 3800 #. 200 sks 40/70 & 115 sks 20/40. 539 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SANDY SHALE	15	30	
SANDSTONE	30	42	
SANDY SHALE	42	210	1/2" FW @ 110'
SANDSTONE	210	340	1/4" FW @ 240'
SANDY SHALE	340	375	
SANDSTONE	375	400	
SANDY SHALE	400	550	
SANDSTONE	550	640	
SANDY SHALE	640	750	
COAL	750	755	
SHALE	755	800	
SANDSTONE	800	980	
SANDY SHALE	980	1215	
SANDSTONE	1215	1280	
SANDY SHALE	1280	1396	
LITTLE LIME	1396	1401	
PENCIL CAVE SHALE	1401	1437	
BIG LIME	1437	1663	
SQUAW SANDSTONE	1663	1689	
SHALE	1689	1715	
WEIR SANDSTONE	1715	1764	
SHALE	1764	1849	
BEREA SANDSTONE	1849	1858	
SHALE	1858	1904	
GANTZ SANDSTONE	1904	1944	
LOWER GANTZ SANDSTONE	1944	1983	
SANDY SHALE	1983	2579	
BAYARD SANDSTONE	2579	2615	
SANDY SHALE	2615	2631	
SPEECHLEY A SANDSTONE	2631	2676	
SANDY SHALE	2676	3247	
BALLTOWN B SANDSTONE	3247	3272	
SHALE	3272	4317	
BENSON SILTSTONE	4317	4323	
SANDY SHALE	4323	4507	
ALEXANDER	4507	4545	
SHALE	4545	4707	
1ST ELK SILTSTONE	4707	4771	
SANDY SHALE	4771	4948	
2ND ELK SILTSTONE	4948	5002	
SANDY SHALE	5002	5200	
3RD ELK SILTSTONE	5200	5264	
SANDY SHALE	5264	5525	
5TH ELK SILTSTONE	5525	5578	
SHALE	5578	5790	TD

Third Producing formation: 1ST ELK Pay zone Depth (ft) 4763 - 4767
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN B Pay zone Depth (ft) 3258 - 3268
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/28/2011
API #: 4700103208

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

Well Operator's Report of Well Work

Farm name: HARKER, ARTHUR Operator Well No.: 5

LOCATION: Elevation: 1626 Quadrangle: THORNTON

District: COVE County: BARBOUR
Latitude: 4,090 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 3,680 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 02/15/11	9 5/8"	466	466	180
Date Well Work Commenced: 07/28/11				
Date Well Work Completed: 08/04/11	7"	1857	1857	255
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5621	205
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5766				
Total Measured Depth(ft.): 5766				
Fresh Water Depth (ft.): 670				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 295, 415, 425, 555				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
OCT 7 2011
WV Department of Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5514 - 5526
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 215 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 840 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5159' - 5179
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-30-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5514' - 5526' (18 shots). BD 3421 #. 150 sks 40/70 & 110 sks 20/40. 554 bbl. Gel Frac.
Perfed 3rd Elk 5159' - 5179' (15 shots). BD 3150 #. 100 sks 40/70 & 110 sks 20/40. 518 bbl. Gel Frac.
Perfed Alexander 4499' - 4506' (21 shots). BD 4148 #. 200 sks 40/70 & 100 sks 20/40. 574 bbl. Gel Frac.
Perfed Balltown B 3212' - 3222' (20 shots). BD 3600 #. 100 sks 40/70 & 107 sks 20/40. 419 bbl. Gel Frac.
Perfed Balltown A 3154' - 3164' (20 shots). BD 2895 #. 100 sks 40/70 & 105 sks 20/40. 448 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SANDY SHALE	15	42	
SHALE	42	60	
SANDSTONE	60	85	
SHALE	85	175	
SANDY SHALE	175	270	
SANDSTONE	270	295	
COAL	295	300	
SHALE	300	322	
SANDSTONE	322	400	
SANDY SHALE	400	415	
COAL	415	420	
SHALE	420	425	
COAL	425	430	
SANDY SHALE	430	555	
COAL	555	560	
SANDY SHALE	560	735	DAMP FW @ 670'
SANDSTONE	735	850	
SANDY SHALE	850	970	
RED ROCK SHALE	970	1030	
SANDY SHALE	1030	1150	
SANDSTONE	1150	1210	
SANDY SHALE	1210	1250	
RED ROCK SHALE	1250	1315	
SANDY SHALE	1315	1350	
LITTLE LIME	1350	1365	
PENCIL CAVE SHALE	1365	1390	
BIG LIME	1390	1607	
SHALE	1607	1631	
SQUAW SANDSTONE	1631	1641	
SHALE	1641	1665	
WEIR SANDSTONE	1665	1711	
SHALE	1711	1808	
BEREA SANDSTONE	1808	1832	
SHALE	1832	1850	
GANTZ SANDSTONE	1850	1893	
LOWER GANTZ SANDSTONE	1893	1956	
SANDY SHALE	1956	2530	
BAYARD SANDSTONE	2530	2566	
SANDY SHALE	2566	3150	
BALLTOWN A SANDSTONE	3150	3223	
SHALE	3223	4272	
BENSON SILTSTONE	4272	4278	
SANDY SHALE	4278	4454	
ALEXANDER	4454	4510	
SHALE	4510	4664	
1ST ELK SILTSTONE	4664	4700	
SANDY SHALE	4700	5159	
3RD ELK SILTSTONE	5159	5207	
SANDY SHALE	5207	5481	
5TH ELK SILTSTONE	5481	5531	
SHALE	5531	5766	TD

Third Producing formation: ALEXANDER Pay zone Depth (ft) 4499 - 4506
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN B Pay zone Depth (ft) 3212 - 3222
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: BALLTOWN A Pay zone Depth (ft) 3154 - 3164
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/14/2011
API #: 4700103165

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

Well Operator's Report of Well Work

Farm name: ROGERS, WILLIAM Operator Well No.: 6

LOCATION: Elevation: 1701' Quadrangle: NESTORVILLE

District: COVE County: BARBOUR
Latitude: 7,920 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 7,470 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 09/16/10	9 5/8"	462	462	160
Date Well Work Commenced: 06/04/11				
Date Well Work Completed: 06/13/11	7"	1857	1857	230
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5250	185
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5730				
Total Measured Depth(ft.): 5730				
Fresh Water Depth (ft.): 400				
Salt Water Depth (ft.): 1430				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 110, 855				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
SEP 29 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5129 - 5137
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 298 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 920 psig(surface pressure) after 48 Hours

Second Producing formation: ALEXANDER Pay zone Depth (ft) 4451 - 4458
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-15-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5129' - 5137' (18 shots). BD 4294 #. 307 sks 20/40. 538 bbl. Gel Frac.
Perfed Alexander 4451' - 4458" (21 shots). BD 4087 #. 252 sks 20/40. 529 bbl. Gel Frac.
Perfed Benson 4220' - 4226' (18 shots). BD 4367 #. 200 sks 20/40. 470 bbl. Gel Frac.
Perfed Balltown A 3140' - 3156' (32 shots). BD 1880 #. 350 sks 20/40. 668 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SANDY SHALE	15	35	
SANDSTONE	35	42	
SANDY SHALE	42	52	
SANDSTONE	52	110	
COAL	110	115	
SANDY SHALE	115	175	
REDROCK SHALE	175	200	
SANDY SHALE	200	262	
SANDSTONE	262	322	
SANDY SHALE	322	385	
SANDSTONE	385	490	DAMP @ 400'
SANDY SHALE	490	530	
SANDSTONE	530	590	
SANDY SHALE	590	740	
SANDSTONE	740	855	
COAL	855	900	
SANDY SHALE	900	1040	
REDROCK SHALE	1040	1285	
SANDY SHALE	1285	1391	
LITTLE LIME	1391	1411	
PENCIL CAVE SHALE	1411	1443	DAMP @ 1430'
BIG LIME	1443	1660	
SANDY SHALE	1660	1692	
WEIR SANDSTONE	1692	1720	
SHALE	1720	1834	
UPPER GANTZ SANDSTONE	1834	1847	
SHALE	1847	1899	
GANTZ SANDSTONE	1899	1919	
SANDY SHALE	1919	3138	
BALLTOWN A SANDSTONE	3138	3170	
SHALE	3170	3990	
SANDY SHALE	3990	4220	
BENSON SILTSTONE	4220	4226	
SANDY SHALE	4226	4425	
ALEXANDER SILTSTONE	4425	4458	
SANDY SHALE	4458	4626	
1ST ELK SILTSTONE	4626	4670	
SANDY SHALE	4670	4882	
2ND ELK SILTSTONE	4882	4898	
SHALE	4898	5001	
2ND ELK A SILTSTONE	5001	5008	
SANDY SHALE	5008	5129	
3RD ELK SILTSTONE	5129	5150	
SANDY SHALE	5150	5267	
4TH ELK SILTSTONE	5267	5270	
SANDY SHALE	5270	5459	
5TH ELK SILSTONE	5459	5730	
SHALE	5730	5730	TD

Third Producing formation: BENSON Pay zone Depth (ft) 4220 - 4226
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN A Pay zone Depth (ft) 3140 - 3156
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: ____ Pay zone Depth (ft) ____
Gas: Initial open flow: ____ MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow ____ MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: ____ psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/14/2011
API #: 4700103166

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

Well Operator's Report of Well Work

Farm name: ROGERS, WILLIAM Operator Well No.: 7

LOCATION: Elevation: 1707' Quadrangle: NESTORVILLE

District: COVE County: BARBOUR
Latitude: 7,850 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 8,540 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 09/16/10	9 5/8"	465	465	175
Date Well Work Commenced: 06/14/11				
Date Well Work Completed: 06/22/11	7"	1858	1858	230
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5260	185
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5702	2 ⅜"	0	5079	0
Total Measured Depth(ft.): 5702				
Fresh Water Depth (ft.): 55, 140, 790				
Salt Water Depth (ft.):				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 175, 790				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
SEP 29 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 3RD ELK Pay zone Depth (ft) 5120' - 5129
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 158 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 710 psig(surface pressure) after 48 Hours

Second Producing formation: ALEXANDER Pay zone Depth (ft) 4453 - 4465
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-15-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 3rd Elk 5120' - 5129' (21 shots). BD 4150 #. 100 sks 20/40 & 150 sks 40/70. 549 bbl. Gel Frac.
Perfed Alexander 4453' - 4465" (21 shots). BD 3915 #. 114 sks 20/40 & 150 sks 40/70. 601 bbl. Gel Frac.
Perfed Benson 4226' - 4233' (21 shots). BD 4424 #. 113 sks 20/40 & 150 sks 40/70. 550 bbl. Gel Frac.
Perfed Balltown A 3146' - 3167' (34 shots). BD 2950 #. 118 sks 20/40 & 200 sks 40/70. 766 bbl. Gel Frac.
Perfed Balltown Stray 3054' - 3076' (30 shots). BD 2800#. 118 sks 20/40 & 200 sks 40/70. 579 bbl. Gel Frac

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	12	
REDROCK SHALE	12	25	
SANDY SHALE	25	80	1/2" FW @ 55'
SANDSTONE	80	145	1/2" FW @ 140'
SANDY SHALE	145	175	
COAL	175	180	
SANDY SHALE	180	262	
SANDSTONE	262	322	
SANDY SHALE	322	352	
SANDSTONE	352	500	
SANDY SHALE	500	765	
SANDSTONE	765	790	DAMP @ 790'
COAL	790	795	
SANDY SHALE	795	900	
SHALE	900	1140	
SANDSTONE	1140	1230	
SHALE	1230	1370	
SANDY SHALE	1370	1405	
LITTLE LIME	1405	1421	
PENCIL CAVE SHALE	1421	1454	
BIG LIME	1454	1668	
SANDY SHALE	1668	1697	
WEIR SANDSTONE	1697	1725	
SHALE	1725	1867	
UPPER GANTZ SANDSTONE	1867	1890	
SHALE	1890	1908	
GANTZ SANDSTONE	1908	1940	
SANDY SHALE	1940	2568	
SPEECHLEY A SANDSTONE	2568	2600	
SHALE	2600	2766	
SPEECHLEY C SANDSTONE	2766	2786	
SANDY SHALE	2786	3052	
BALLTOWN STRAY SANDSTONE	3052	3084	
SHALE	3084	3144	
BALLTOWN A SANDSTONE	3144	3170	
SANDY SHALE	3170	4226	
BENSON SILTSTONE	4226	4234	
SANDY SHALE	4234	4434	
ALEXANDER SILTSTONE	4434	4465	
SANDY SHALE	4465	4631	
1ST ELK SILTSTONE	4631	4683	
SANDY SHALE	4683	4895	
2ND ELK SILTSTONE	4895	4940	
SHALE	4940	4992	
2ND ELK A SILTSTONE	4992	5019	
SANDY SHALE	5019	5120	
3RD ELK SILTSTONE	5120	5169	
SANDY SHALE	5169	5300	
4TH ELK SILTSTONE	5300	5340	
SANDY SHALE	5340	5455	
5TH ELK SILSTONE	5455	5505	
SHALE	5505	5702	TD

Third Producing formation: BENSON Pay zone Depth (ft) 4226 - 4233
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BALLTOWN A Pay zone Depth (ft) 3146 - 3167
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: BALLTOWN STRAY Pay zone Depth (ft) 3054 - 3076
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/14/2011
API #: 4700103158

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

Well Operator's Report of Well Work

Farm name: FOGG, GERALD Operator Well No.: 3

LOCATION: Elevation: 1592' Quadrangle: FELLOWSVILLE

District: COVE County: BARBOUR
Latitude: 8,448 Feet South of 39 Deg. 16 Min. 9.4 Sec.
Longitude: 9,374 Feet West of 79 Deg. 51 Min. 55.5 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 11/05/10	9 5/8"	465	465	175
Date Well Work Commenced: 07/12/11				
Date Well Work Completed: 07/19/11	7"	1816	1816	245
Verbal Plugging:				
Date Permission granted on:	4 ½"	0	5557	193
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 5714	1 ½"	0	5391	0
Total Measured Depth(ft.): 5714				
Fresh Water Depth (ft.): 210, 710				
Salt Water Depth (ft.): 1460				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 322				
Void(s) encountered (N/Y) Depth(s): N				

RECEIVED
Office of Oil & Gas
SEP 29 2011
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5401 - 5428
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 368 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1275 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5057 - 5069
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-15-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5401' - 5428' (27 shots). BD 3323 #. 100 sks 20/40 & 265 sks 40/70. 631 bbl. Gel Frac.
Perfed 3rd Elk 5057' - 5069' (18 shots). BD 3848 #. 100 sks 20/40 & 222 sks 40/70. 621 bbl. Gel Frac.
Perfed Alexander 4393' - 4400' (21 shots). BD 4090 #. 100 sks 20/40 & 112 sks 40/70. 467 bbl. Gel Frac.
Perfed Benson 4172' - 4178' (18 shots). BD 4155 #. 100 sks 20/40 & 165 sks 40/70. 544 bbl. Gel Frac.
Perfed Balltown C 3302' - 3312' (20 shots). BD 3815 #. 11700 sks 20/40 & 160 sks 40/70. 525 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	18	
REDROCK SHALE	18	32	
SANDSTONE	32	95	
SANDY SHALE	95	120	
SANDSTONE	120	200	
SANDY SHALE	200	322	1/2" FW @ 210'
COAL	322	326	
SANDY SHALE	326	395	
SANDSTONE	395	412	
SANDY SHALE	412	442	
REDROCK SHALE	442	480	
SANDSTONE	480	560	
SANDY SHALE	560	590	
SANDSTONE	590	640	
SANDY SHALE	640	760	1/4" FW @ 710'
SANDSTONE	760	880	
SANDY SHALE	880	955	
REDROCK SHALE	955	1000	
SANDSTONE	1000	1075	
REDROCK SHALE	1075	1120	
SANDSTONE	1120	1250	
REDROCK SHALE	1250	1311	
LITTLE LIME	1311	1326	
PENCIL CAVE SHALE	1326	1350	
BIG LIME	1350	1598	1/4" SW @ 1460'
SANDY SHALE	1598	1637	
WEIR SANDSTONE	1637	1680	
SHALE	1680	1786	
UPPER GANTZ SANDSTONE	1786	1802	
SHALE	1802	1823	
GANTZ SANDSTONE	1823	1840	
SANDY SHALE	1840	3299	
BALLTOWN C SANDSTONE	3299	3317	
SHALE	3317	3345	
SANDY SHALE	3345	4166	
BENSON SILTSTONE	4166	4170	
SANDY SHALE	4170	4368	
ALEXANDER SILTSTONE	4368	4402	
SANDY SHALE	4402	4576	
1ST ELK SILTSTONE	4576	4638	
SANDY SHALE	4638	4830	
2ND ELK SILTSTONE	4830	4868	
SHALE	4868	4929	
2ND ELK A SILTSTONE	4929	4960	
SANDY SHALE	4960	5057	
3RD ELK SILTSTONE	5057	5080	
SANDY SHALE	5080	5193	
4TH ELK SILTSTONE	5193	5220	
SANDY SHALE	5220	5386	
5TH ELK SILSTONE	5386	5445	
SHALE	5445	5714	TD

Third Producing formation: ALEXANDER Pay zone Depth (ft) 4393 - 4400
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fourth Producing formation: BENSON Pay zone Depth (ft) 4172 - 4178
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

Fifth Producing formation: BALLTOWN C Pay zone Depth (ft) 3302 - 3312
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

WR-35
Rev (8-10)

DATE: 9/14/2011
API #: 4700103135

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

Well Operator's Report of Well Work

Farm name: MICK, ROBERT Operator Well No.: 1A

LOCATION: Elevation: 1601' Quadrangle: THORNTON

District: COVE County: BARBOUR
Latitude: 14,460 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 7,950 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive				
Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	SANDED IN
Inspector: Bryan Harris				
Date Permit Issued: 05/17/10	9 5/8"	463	463	120
Date Well Work Commenced: 01/03/11				
Date Well Work Completed: 01/07/11	7"	1726	1726	220
Verbal Plugging:				
Date Permission granted on:				
Rotary [X] **Cable** [ ] **Rig** [ ]				
Total Vertical Depth (ft.): 3160				
Total Measured Depth(ft.): 3160				
Fresh Water Depth (ft.): 650				
Salt Water Depth (ft.):				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s): N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: GORDON Pay zone Depth (ft) 2100 - 2120
Gas: Initial open flow: 620 MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 620 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 925 psig(surface pressure) after 48 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 Oil: Final open flow: _____ Bbl/d
Time of open flow between initial and final tests: ____ Hours
Static rock Pressure: _____ psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

9-15-11
Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ____ No X

Were N Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

NATURALLY PRODUCING WELL

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	7	
CLAY SHALE	7	22	
SANDY SHALE	22	28	
SANDSTONE	28	37	
SANDY SHALE	37	145	
SANDSTONE	145	173	
SANDY SHALE	173	300	
SANDSTONE	300	413	
SANDY SHALE	413	500	
SANDSTONE	500	520	
SHALE	520	570	
SANDY SHALE	570	680	1/2" FW @ 650'
SANDSTONE	680	870	
SANDY SHALE	870	905	
REDROCK	905	1000	
SANDY SHALE	1000	1200	
SANDSTONE	1200	1290	
SANDY SHALE	1290	1530	
SANDY SHALE	1530	1590	
SANDSTONE	1590	1860	
SANDY SHALE	1860	2015	
REDROCK	2015	2040	
SANDY SHALE	2040	2080	
REDROCK	2080	2170	
SANDY SHALE	2170	2670	
SANDSTONE	2670	3100	
SANDY SHALE	3100	3160	TD