

WR-35
Rev (9-11)

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

DATE: 12-12-2013
API #: 47-009-00154

Farm name: Thomas Parkinson BRK 8H Operator Well No.: 837060

LOCATION: Elevation: 1,160' Quadrangle: Bethany

District: Buffalo County: Brooke
Latitude: 6,330' Feet South of 40 Deg. 15 Min. 00 Sec.
Longitude 13,570' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	118'	118'	224 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	363'	363'	404 Cu. Ft.
Inspector: Bill Hendershot & Gayne J. Knitowski	9 5/8"	1,780'	1,780'	819 Cu. Ft.
Date Permit Issued: 2-8-2013	5 1/2"	12,667'	12,667'	3,020 Cu. Ft.
Date Well Work Commenced: 3-9-2013				
Date Well Work Completed: 7-30-2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6072'				
Total Measured Depth (ft): 12671'				
Fresh Water Depth (ft.): 183'				
Salt Water Depth (ft.): 640'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 318'				
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 Marcellus Pay zone depth (ft) 6,280-12,495

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 3,027* MCF/d Final open flow 325 Bbl/d

Time of open flow between initial and final tests 48 Hours

Static rock Pressure 3,947* psig (surface pressure) after 48 Hours *Calculated.

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

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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.

Marlene Williams
Signature

12-16-2013
Date

02/28/2014

PERFORATION RECORD ATTACHMENT

Well Number and Name: 837060 Thomas Parkinson BRK 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
6/27/2013	12,120	12,495	6/27/2013	12,120	12,495	Sik wtr	9,050	Sand	539,620	77
6/27/2013	11,671	12,046	6/27/2013	11,671	12,046	Sik wtr	8,977	Sand	538,920	79
6/27/2013	11,221	11,597	6/27/2013	11,221	11,597	Sik wtr	9,200	Sand	540,260	77
6/27/2013	10,772	11,148	6/28/2013	10,772	11,148	Sik wtr	9,179	Sand	541,000	78
6/28/2013	10,323	10,699	6/28/2013	10,323	10,699	Sik wtr	9,183	Sand	538,860	77
6/28/2013	9,875	10,249	6/28/2013	9,875	10,249	Sik wtr	8,973	Sand	540,860	72
6/28/2013	9,424	9,800	6/28/2013	9,424	9,800	Sik wtr	8,930	Sand	540,900	74
6/28/2013	8,975	9,351	6/29/2013	8,975	9,351	Sik wtr	8,882	Sand	542,280	79
6/29/2013	8,526	8,902	6/29/2013	8,526	8,902	Sik wtr	8,798	Sand	542,700	80
6/29/2013	8,077	8,452	6/29/2013	8,077	8,452	Sik wtr	8,721	Sand	537,360	80
6/29/2013	7,628	8,003	6/29/2013	7,628	8,003	Sik wtr	14,229	Sand	543,600	67
6/30/2013	7,178	7,554	6/29/2013	7,178	7,554	Sik wtr	8,893	Sand	411,420	69
6/30/2013	6,729	7,105	6/30/2013	6,729	7,105	Sik wtr	8,715	Sand	540,600	79
6/30/2013	6,280	6,656	6/30/2013	6,280	6,656	Sik wtr	8,859	Sand	540,460	79

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6072 ft TVD @ 12671 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SILT	0	0	318	318
PITTSBURG COAL	318	318	322	322
LS/SILT	322	322	440	440
SHALE	440	440	880	880
SS/SILT/SHALE	880	880	1090	1090
SHALE	1090	1090	1150	1150
SS	1150	1150	1240	1240
SHALE/SS	1240	1240	1330	1330
BIG LIME	1330	1330	1394	1394
BIG INJUN (SS)	1394	1394	1638	1638
SHALE	1638	1638	5828	5798
GENESEO (SH)	5828	5798	5846	5812
TULLY (LS)	5846	5812	5922	5868
HAMILTON (SH)	5922	5868	6164	5975
MARCELLUS (SH)	6164	5975		
TD OF LATERAL			12671	6072

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