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WR-35
Rev. 8/23/13

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

API 47-103-02747 County Wetzel District Grant
Quad Pine Grove 7.5' Pad Name L S Hoyt Unit 403 Field/Pool Name Wileyville
Farm name Dallison Lumber, Inc Well Number L S Hoyt 403 S-5H
Operator (as registered with the OOG) HG Energy, LLC
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,382,690 Easting 529,409
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,381,476 Easting 530,764

Elevation (ft) 1250 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Water based salt polymer mud

Date permit issued 03/30/2012 Date drilling commenced 1/11/2013 Date drilling ceased 7/9/2013
Date completion activities began 9/26/2013 Date completion activities ceased 10/31/2013
Verbal plugging (Y/N) n/a Date permission granted _____ Granted by _____

RECEIVED
Office of Oil and Gas
AUG 18 2014
WV Department of Environmental Protection

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
Freshwater depth(s) ft 310', 1050' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1550' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 820', 910', 1050' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

10/03/2014

API 47-103 - 02747 Farm name Dallison Lumber, Inc Well number L S Hoyt 403 S-5H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	20"	20"	80'	New	H-40/ 40' /94#	n/a	n/a - Drilled in
Surface	17-1/2"	13-3/8"	1222'	New	AT-50/54.5/1222'	n/a	Cement to surface
Coal							
Intermediate 1	12-1/4"	9-5/8"	3300'	New	J-55/40/3300'	n/a	Cement to surface
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	12889'	New	P110/20/12,889'	n/a	Cement to surface
Tubing		2-3/8"		New	L-80/4.77/472.08'	n/a	Cement to surface
Packer type and depth set		n/a					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Drilled in						
Surface	Gas Block	1105	15.6	1.21	1333	Surface	12
Coal							
Intermediate 1	Type 1 75/CO-32 & Type 1 148/Floto	1287	1 - 15.0	1.30	1662	Surface	12
Intermediate 2	Gas Block		t - 15.0	1.30			
Intermediate 3							
Production	Premium NE-1 & Class A	2496	1 - 14.7	1.49	3377	Surface	12
Tubing	Class A tsc tail - 50-50 class A lead		t - 14.3	1.23			

Drillers TD (ft) 12,937 Loggers ID (ft) 12,939 12937'
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) N/A

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Surf - 15
Inter - 15
Prod - 85

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 103 - 02747

Farm name Dallison Lumber, Inc

Well number L S Hoyt 403 S-5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/26/2013	12795		n/a	Marcellus
2	9/26/2013	12495	12696	50	Marcellus
3	9/27/2013	12195	12396	50	Marcellus
4	9/30/2013	11895	12096	50	Marcellus
5	10/1/2013	11595	11796	50	Marcellus
6	10/2/2013	11295	11496	50	Marcellus
7	10/3/2013	10995	11196	50	Marcellus
8	10/4/2013	10695	10896	50	Marcellus
9	10/7/2013	10395	10596	50	Marcellus
10	10/8/2013	10095	10296	50	Marcellus
11	10/9/2013	9795	9996	50	Marcellus
12	10/10/2013	9495	9696	50	Marcellus
13	10/11/2013	9195	9396	50	Marcellus
14	10/14/2013	8895	9096	50	Marcellus
15	10/15/2013	8595	9796	50	Marcellus
	See	Page	4		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	9/26/13	66.7	7225	n/a	3726	440000	9070	n/a
2	9/26/13	59	7943	5752	5518	119000	6103	n/a
3	9/27/13	65.8	7094	n/a	n/a	414900	9328	n/a
4	9/30/13	81	7392	n/a	n/a	366200	8478	n/a
5	10/1/13	78.1	7916	5611	4926	420000	10450	n/a
6	10/2/13	79.5	7463	5748	4933	420000	9629	n/a
7	10/3/13	76.4	7667	5588	4959	362400	8814	n/a
8	10/4/13	80	7564	5580	4875	426000	8696	n/a
9	10/7/13	81.1	7527	5483	4778	426000	8746	n/a
10	10/8/13	76.5	7465	5517	4690	426000	8987	n/a
11	10/9/13	78.7	7756	5512	n/a	390000	8168	n/a
12	10/10/13	70	7592	5447	4403	426000	8962	n/a
13	10/11/13	75.4	7168	5540	4529	416000	8431	n/a
14	10/14/13	75.2	7210	5468	4219	367500	8589	n/a
15	10/15/13	74.9	6604	5403	4616	416000	9524	n/a
	See	Page	4					

Please insert additional pages as applicable.

API 47-103 - 02747 Farm name Dallison Lumber, Inc Well number L S Hoyt 403 S-5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
16	10/16/2013	8295	8496	50	Marcellus
17	10/17/2013	7995	8196	50	Marcellus
18	10/18/13	7695	7896	50	Marcellus

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
16	10/16/13	73	6518	4518	4841	432500	8838	n/a
17	10/17/13	72	6457	5462	5569	432500	8819	n/a
18	10/18/13	75	6442	5199	4805	432500	8754	n/a

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus (LP - TD)	<u>7240' - 7316'</u> TVD	<u>7640' - 12937'</u> MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3350 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 7392 mcfpd Oil 0 bpd NGL 80 bpd Water 270 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Sand/Shale	0	0	0	0	
Pittsburgh Coal	n/a	n/a	n/a	n/a	
Sand/Shale	0	2242'	0	2242'	
Big Lime	2242'	2312'	2242'	2312'	
Big Injun	2312'	2534'	2312'	2534'	
Shale	2534'	3098'	2534'	3098'	
Fifty Foot					
Shale					
Sand					
Shale					
Fifth Sand	3098'	3150'	3098'	3150'	
Shale	3150'	7316'	3150'	12937'	
TD	7316'		12937'		

Please insert additional pages as applicable.

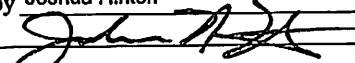
Drilling Contractor Dallas-Morris
Address 103 South Kendall City Bradford State PA Zip 16701

Logging Company Empirica Surface Logging
Address 85 Karago Ave, Suite 12 City Youngstown State OH Zip 44512

Cementing Company Baker Hughes
Address PO Box 301057 City Dallas State TX Zip 75303-1057

Stimulating Company Producers Service Corporation
Address PO Box 2277 City Zanesville State OH Zip 43702-2277

Please insert additional pages as applicable.

Completed by Joshua Hinton Telephone 304-420-1103
Signature  Title Operations Manager Date 8-15-14

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry