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WR-35  
Rev. 8/23/13

Page 1 of 5

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

RECEIVED  
Office of Oil and Gas

AUG 18 2014

API 47-103-02743 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 N-1H  
Operator (as registered with the OOG) HG Energy, LLC  
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

WV Department of  
Environmental Protection

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,382,678 Easting 529,402  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing 4,383,200 Easting 527,770

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 4/3/2012 Date drilling commenced 1/14/2013 Date drilling ceased 9/5/2013  
Date completion activities began 11/7/2013 Date completion activities ceased 11/19/2013  
Verbal plugging (Y/N) n/a Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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 N  
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 - 02743 Farm name Dallison Lumber, Inc Well number L S Hoyt 403 N-1H

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	No Cement - Drilled in
Surface	17-1/2"	13-3/8"	1222'	New	AT-50 / 1222' /54.5#	n/a	Cement to Surface
Coal							
Intermediate 1	12-1/4"	9-5/8"	3290'	New	J-55 / 3290' /40#	n/a	Cement to Surface
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	12,798'	New	P-110 / 12,798' /20#	n/a	Cement to Surface
Tubing		2-3/8"		New	4.7L-80 / 7066'		
Packer type and depth set		n/a					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Drilled in						
Surface	Gas Block	1250	15.6	1.21	1333	Surface	12
Coal							
Intermediate 1	Type 1/Type 1	356 lead/741 tail	T - 15.0	1.29	1416	Surface	12
Intermediate 2			L - 15.0	1.29			
Intermediate 3							
Production	50/50 POZ/Prem NE 1	1367 lead/1112 tail	T - 14.7	1.49	3340	Surface	12
Tubing			L - 14.3	1.23			

Drillers TD (ft) 12,844' Loggers TD (ft) 12,844'  
 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 Surface - 13  
Intermediate - 16  
Prod - 86

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 - 02743

Farm name Dallison Lumber, Inc

Well number L S Hoyt 403 N-1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/7/2013	12707			Marcellus
2	11/7/2013	12407	12608	50	Marcellus
3	11/7/2013	12107	12308	50	Marcellus
4	11/8/2013	11807	12008	50	Marcellus
5	11/8/2013	11507	11708	50	Marcellus
6	11/11/2013	11207	11408	50	Marcellus
7	11/11/2013	10907	11108	50	Marcellus
8	11/12/2013	10607	10808	50	Marcellus
9	11/12/2013	10307	10508	50	Marcellus
10	11/13/2013	10007	10208	50	Marcellus
11	11/13/2013	9707	9908	50	Marcellus
12	11/15/2013	9407	9608	50	Marcellus
13	11/15/2013	9107	9308	50	Marcellus
14	11/16/2013	8807	9008	50	Marcellus
15	11/16/2013	8507	8708	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	11/7/13	65.4	7760	n/a	3824	223200	7237	n/a
2	11/7/13	72.8	7439	5421	4650	425500	10758	n/a
3	11/7/13	72.8	7414	5208	4283	425500	10005	n/a
4	11/8/13	77.7	7228	5671	4740	425500	9494	n/a
5	11/8/13	79.2	7248	5636	4316	425500	9559	n/a
6	11/11/13	80.3	7152	5557	4551	425500	9172	n/a
7	11/11/13	79	7229	5898	4890	425500	9549	n/a
8	11/12/13	80	7110	5487	4481	425500	9365	n/a
9	11/12/13	79.3	6991	6180	4110	425500	9174	n/a
10	11/13/13	80	6963	5989	4482	425500	9822	n/a
11	11/13/13	80	6849	5584	4264	425500	9247	n/a
12	11/15/13	80	6676	5112	3943	425500	9013	n/a
13	11/15/13	77.4	7326	5519	4617	425500	8928	n/a
14	11/16/13	73.3	6650	5397	5014	425500	8644	n/a
15	11/16/13	74.4	5918	4289	3649	425500	8583	n/a
	See	Page	4					

Please insert additional pages as applicable.

API 47- 103 - 02743 Farm name Dallison Lumber, Inc Well number L S Hoyt 403 N-1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
16	11/18/2013	8207	8408	50	Marcellus
17	11/19/2013	7869	7867	20	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	11/18/13	72.5	5108	3477	3529	425500	9167	n/a
17	11/19/13	46	4046	3599	3290	41800	1259	n/a

Please insert additional pages as applicable.

API 47- 103 - 02743 Farm name Dallison Lumber, Inc Well number L S Hoyt 403 N-1H

PRODUCING FORMATION(S)	DEPTHS
Marcellus LP - TD	7215' - 7235' TVD 8435' - 12844' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 4837 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas 12768 mcfpd Oil 0 bpd NGL 190 bpd Water 203 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
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'	7235'	3150'	12844'	
TD	7235'		12844'		

Please insert additional pages as applicable.

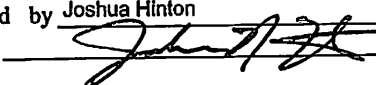
Drilling Contractor Dallas-Morris  
Address 103 South Kendal City Bradford State PA Zip 16701

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

Cementing Company Baker Hughes  
Address P O 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

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