

WR-35
Rev (9-11)

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

DATE: _____
API #: 47-103-02635

Well Operator's Report of Well Work
Farm name: DALLISTON LUMBER, INC LS HOYT
LS Hoyt Operator Well No.: 401-1H
LOCATION: Elevation: 1375' Quadrange: PINE GROVE 7.5'
District: GRANT County: WETZEL
Latitude: 8261 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude 3604 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: HG ENERGY, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>5260 DUPONT ROAD</u> <u>PARKERSBURG, WV 26101</u>	<u>20" CASING</u>	<u>40'</u>	<u>40'</u>	<u>N/A</u>
Agent: <u>MIKE KIRSCH</u>	<u>94# H-40</u>			<u>Drilled IN</u>
Inspector: <u>DEREK HAUGHT</u>				
Date Permit Issued: <u>7/18/2011</u>	<u>13 3/8" CASING</u>	<u>477'</u>	<u>477'</u>	<u>Cement to SURFACE</u>
Date Well Work Commenced: <u>12/12/2011</u>	<u>54.5" J-55</u>			<u>475 SKS</u>
Date Well Work Completed: <u>4/11/2013</u>				
Verbal Plugging:	<u>9 5/8" CASING</u>	<u>3366'</u>	<u>3366'</u>	<u>Cement to SURFACE</u>
Date Permission granted on:	<u>40" J-55</u>			<u>1175 SKS</u>
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>7420'</u>	<u>5 1/2" CASING</u>	<u>13,794'</u>	<u>13,794'</u>	<u>Cement to SURFACE</u>
Total Measured Depth (ft): <u>13,826'</u>	<u>20" P-10</u>			<u>2220 SKS</u>
Fresh Water Depth (ft.): <u>115', 415'</u>				
Salt Water Depth (ft.): <u>1,915'</u>	<u>2 3/8" TUBING</u>	<u>N/A</u>	<u>7629.10</u>	<u>N/A</u>
Is coal being mined in area (N/Y)? <u>NO</u>	<u>4 1/2" L-80</u>			
Coal Depths (ft.): <u>910', 1005', 1144</u>				
Void(s) encountered (N/Y) Depth(s) <u>N, N/A</u>				

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

Producing formation Marcellus shale Pay zone depth (ft) 7,420' TVD
Gas: Initial open flow 9.1M MCF/d Oil: Initial open flow 49 Bbl/d
Final open flow 8.4M MCF/d Final open flow 35 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 3,000 psig (surface pressure) after 24 Hours

Second producing formation N/A 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 this information, I believe that the information is true, accurate, and complete.

DCW for Josh Hinton
Signature

Date

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Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MUD LOGS AND REALTIME MWD GAMMA RAY LOGS WHILE WE DRILLED THE CURVES AND LATERAL PORTIONS OF THE WELL

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:

- SEE ATTACHED SHEETS -

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ Bottom Depth _____
Surface:

	TVD TOPS	BOTTOM
BIG LIME	2367	2437
BIG INJUN	2437	2659
GORDON STRAY	3223	3254
GORDON	3254	3275
TULLY	7527	7576
HAMILTON	7576	7816
MARCELLUS	7817	TD

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L S Hoyt 401 1H 47-103-02635 - Perforation Detail

Stage 1						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
N/A	13701	NA	NA	NA	NA	NA
Stage 2						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
13615	13575-76	13500-01	13425-26	13350-51	13275-76	PD
Stage 3						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
13225	13175-76	13100-01	13025-26	12950-51	12875-76	PD
Stage 4						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
12820	12775-76	12700-01	12625-24	12550-51	12475-76	PD
Stage 5						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
12425	12375-76	12300-01	12225-24	12150-51	12075-76	PD
Stage 6						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
12025	11975-76	11900-01	11825-26	11750-51	11675-76	PD
Stage 7						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
11625	11575-76	11500-01	11425-26	11350-51	11275-76	PD
Stage 8						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
11225	11175-76	11100-01	11025-26	10950-51	10875-76	PD
Stage 9						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
10830	10775-76	10700-01	10625-26	10550-51	10475-76	PD
Stage 10						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
10425	10375-76	10300-01	10225-26	10150-51	10075-76	PD
Stage 11						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
10028	9975-76	9900-01	9825-26	9750-51	9675-76	PD
Stage 12						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
9400	9350-51	9275-76	9200-01	9125-26	9050-51	PD
Stage 13						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
9000	8950-51	8875-76	8800-01	8725-26	8650-51	PD
Stage 14						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
8600	8550-51	8475-8476	8400-8401	8325-26	8250-51	PD
Stage 15						
Plug Setting Depth	1st Cluster	2nd Cluster	3rd Cluster	4th Cluster	5th Cluster	Perf Method
8200	8150-51	8075-76	8000-01	7925-26	7850-51	PD

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LS Hwy: 401 #1H Proc Summary API #47-103-02635

Step	# of Peds	Total Acid (gal)	Total Water (gal)	Total Sand (lbs)	Total Slurry (lb)	Prod Vol (gal)	100 Mesh (lb)	40/70 Mesh (lb)	20/50 Mesh (lb)	ROP (lb)	ISP (lb)	1. Min 307 (lb)	2 Min 307 (lb)	3 Min 307 (lb)	API (lb)	Avg Rate (lb/line)	Pump Down (gal)
1	NA	1,000	8,078	421,100	8,826	623	120,200	150,200	150,700	5,887	4,083	3,570	3,375	3,156	7,687	70	NA
2	80	1,000	8,107	370,800	8,133	601	70,000	150,200	150,700	N/A	4,823	4,278	4,089	3,783	7,853	69	441
3	80	1,000	7,881	411,000	6,788	602	120,200	150,200	142,800	N/A	4,793	4,354	4,130	3,879	65	62	824
4	80	1,000	7,053	240,900	6,101	615	120,200	150,700		N/A	4,350	3,914	3,719	3,395	7,852	64	306
5	80	1,000	7,810	380,400	6,884	645	140,300	150,200	70,000	N/A	4,802	4,311	4,078	3,747	7,813	78	290
6	80	1,000	8,018	421,100	6,827	621	120,200	150,200	150,700	N/A	4,573	4,143	3,868	3,662	6,882	65	249
7	80	1,000	8,000	421,100	6,809	619	120,200	150,200	150,700	N/A	4,323	3,703	3,574	3,425	6,418	67	213
8	80	1,000	8,007	382,000	6,825	673	120,200	121,900	150,700	5,881	5,884	5,804	5,459	5,222	6,721	63	182
9	80	1,000	8,054	480,000	8,476	685	145,000	145,200	187,000	5,883	5,866	5,649	5,423	5,194	6,882	59	172
10	80	1,000	7,572	283,200	6,413	624	120,200	128,500	80,000	4,879	4,873	4,581	4,344	4,226	6,479	33	389
11	80	1,000	7,330	303,500	7,444	361	60,000	150,200	150,700	5,395	5,171	5,149	5,109	5,183	6,504	60	128
12	80	1,000	8,018	421,100	8,138	321	150,200	150,200	150,700	5,007	5,315	5,326	5,422	5,203	6,413	63	104
13	80	1,000	7,853	421,100	7,123	281	120,200	150,200	150,700	5,975	5,749	5,600	5,320	5,182	6,081	63	87
14	80	1,000	8,064	421,100	10,397	307	120,200	150,200	150,700	N/A	5,570	5,239	5,225	5,282	5,970	65	71
15	80	1,000	7,885	376,100	8,134	315	100,100	131,700	154,000	N/A	5,827	5,497	5,351	5,200	5,996	63	57
TOTAL / AVG	NA	15,000	122,837	5,782,700	134,135	7,884	1,771,800	2,140,000	1,869,000	3,872	4,135	3,719	3,534	3,408	6,202	66	2,794

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