RECEIVED

WR-35
Rev. 8/23/13

DEC 30 2013

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

W2

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

API 47 - 103 - 1721 County WETZEL District GRANT
Quad PINE GROVE 7.5' Pad Name L.S. HOYT Field/Pool Name WILEYVILLE
Farm name DALLISON LUMBER INC. Well Number 104
Operator (as registered with the OOG) H.G. 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 4,383,701 M Easting 529,924 M
Landing Point of Curve Northing ____ Easting ____
Bottom Hole Northing ____ Easting ____

Elevation (ft) 1,370' 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)
N/A

Date permit issued 7/16/13 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 7/29/13 Date completion activities ceased 7/29/13
Verbal plugging (Y/N) N 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 None Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,216'-1,221' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

Pine Grove Camp Run(40) 8-0

RECEIVED
DEC 30 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV

WR-35
Rev. 8/23/13

API 47- 103 - 1721 Farm name DALLISON LUMBER INC. Well number 104

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface		8 5/8"	1,293'	Existing			Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	3,490'	Existing			Existing
Tubing							
Packer type and depth set							

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							
Surface	Existing	580					
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Existing	275					
Tubing							

Drillers TD (ft) 3538' Loggers TD (ft) 3534'
Deepest formation penetrated Gordon Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft)

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
Existing

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

RECEIVED
DEC 30 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV

WR-35
Rev. 8/23/13

API 47- 103 - 1721 Farm name DALLISON LUMBER INC. Well number 104

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	Existing	3424'	3428'	16	Gordon
1	Existing	3422'	3430'	48	Gordon

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	7/29/13	10	3086	2548	3725	15,000	345	

Please insert additional pages as applicable.

RECEIVED
DEC 30 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV

WR-35
Rev. 8/23/13

API 47- 103 - 1721 Farm name DALLISON LUMBER INC. Well number 104

PRODUCING FORMATION(S)	DEPTHS TVD	MD
Gordon		3418'-3424'

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☐ Open Flow OIL TEST ☐ Flow ☐ Pump

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

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY ☐ Estimated ☐ Orifice ☐ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT 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_2S, ETC)
	0		0		See original Well Record

Please insert additional pages as applicable.

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company Producers Service Corp.
Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
Signature [signature] Title Operations Mgr Date 11/26/13

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

Prepared for:

H G Energy

PRODUCERS SERVICE CORP.

INVOICE #:	15615
WELL NAME:	L S Hoyt #104
STATE & COUNTY:	WV/ Wetzel
TOWNSHIP/FIELD:	Wielyville
DATE of SERVICE:	7/29/2013
CUSTOMER PO#	

Description	Notes	Amount
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1
BLENDER CHARGE 0-10 BPM		1
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	140
IC ACID 15%		300
PRO HIB II		0.5
ACID DELIVERY		2
PRO CLA LOK (KCL SUBSTITUTE)		20
PRO NE-21		10
PRO GEL 4		250
BUFFER I		50
BUFFER II		50
BIO CLEAR 750		1
AP BREAKER		22
BXL-A		15
BXL-10C		15
SAND 20/40 OTTAWA		150
SAND DELIVERY / TON MILES		525
DATA VAN		1

Customer Approval: _____

RECEIVED
DEC 30 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV