

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

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Office of Oil and Gas

JUN 12 2015

*Correction
JA*

WV Department of
Environmental Protection

API 47 - 085 - 10142 County Ritchie District Grant
Quad Ellenboro Pad Name Mason Field/Pool Name N/A
Farm name Nathanael Mason & Pearl Everett Mason Well Number W-1652
Operator (as registered with the OOG) Haught Energy Corporation
Address 12864 Staunton TPKE City Smithville State WV Zip 26178

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4345259.46 Easting 491589.29
Landing Point of Curve Northing NA Easting NA
Bottom Hole Northing NA Easting NA

Elevation (ft) 1021' 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)
NA

Date permit issued 09/26/2014 Date drilling commenced 01/19/2015 Date drilling ceased 01/26/2015
Date completion activities began 2/4/2015 Date completion activities ceased 3/24/2015
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 175 Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

*JIC 6/12/15
W.A.S. 06/12/15*

API 47- 085 - 10142 Farm name Nathanael Mason & Pearl Everett Mason Well number W-1652

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	15"	13 3/8"	35'	New	48#	NA	Yes
Surface	12 -1/4"	9 5/8"	330'	New	26#	NA	Yes
Coal							
Intermediate 1	8 -7/8"	7"	2130	New	17#	1600	Yes
Intermediate 2							
Intermediate 3							
Production	6 -3/8"	4 1/2"	6447.3	New	11.6#	6000, 5000	No
Tubing							
Packer type and depth set							

Comment Details 115 Sacks of cement used on production string (as below) providing approximately 2,000 + feet fill up.

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	Type 1/Class A	7	14.8	1.4	8.8	Surface	8
Surface	Type 1/Class A	90	14.8	1.38	124.2	Surface	8
Coal							
Intermediate 1	Type 1/Class A	300	14.8	1.4	420	Surface	8
Intermediate 2							
Intermediate 3							
Production	Strong Lite 150	115	13.1	1.94	223.1	4,450'	24
Tubing							

Drillers TD (ft) 6,480' Loggers TD (ft) 6,490'

Deepest formation penetrated Oriskany Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) NA

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 _____

Centralizers were used on Fresh water, Intermediate and Production strings as necessary to ensure a centered up casing string for optimal cement circulation and setting.

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 _____

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[illegible]

STIMULATION INFORMATION PER STAGE

[illegible]

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Please insert additional pages as applicable.

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DEPTHS

SHUT-IN PRESSURE Surface 200 psi Bottom Hole 1400 psi DURATION OF TEST 24 hrs

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY			
200	mcfpd	NA	bpd	NA	bpd	NA	bpd	☒ Estimated ☐ Orifice ☐ Pilot

[illegible][illegible]

Drilling Contractor Top Drilling Corporation

Address	107 Lancaster Street	City	Marietta	State	OH	Zip	45750
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Logging Company Nabors Completion & Production Services Co.

Address P.O. Box 975682 City Dallas State TX Zip 75397

Cementing Company Universal Well Services, Inc.

Address P.O. Box 200969 City Dallas State TX Zip 75320

Stimulating Company Universal Well Services, Inc.

Address P.O. Box 200969 City Dallas State TX Zip 75320

Please insert additional pages as applicable.

Completed by Haught Energy Corporation

Telephone 304-477-3333

Signature  Title Development Director Date 3/25/15

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

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Mason W-1652
API # 47-085-10142

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	604	
Sand	604	639	
Red Rock	639	719	
Sand	719	739	
Red Rock	739	794	
Slate	794	874	
Dunkard Sand	874	884	
Slate & Shells	884	1264	
Gas Sand	1264	1374	
Slate	1374	1442	
1st Salt Sand	1442	1502	
Shale	1502	1538	
2nd Salt Sand	1538	1556	
Shale	1556	1584	
3rd Salt Sand	1584	1694	
Slate	1694	1780	
Maxon Sand	1780	1819	
Shale	1819	1889	
Little lime	1889	1914	
Pencil Cave	1914	1918	
Big Lime	1918	2016	
Big Injun Sand	2016	2076	
Slate Break	2076	2080	
Squaw Sand	2080	2094	
Slate & Shells	2094	2358	
Coffee Shale	2358	2392	
Berea Sand	2392	2396	
Slate & Shells	2396	2512	
Sand	2512	2524	
Slate & Shells	2524	2784	
Sand	2784	2796	
Slate & Shells	2796	4428	
Benson Sand	4428	4454	
Slate & Shells	4454	4949	
Alexander Sand	4949	4960	
Slate & Shells	4960	5358	
Sand	5358	5378	
Slate & Shells	5378	6008	
Hamilton Shale	6008	6032	
Tully Lime	6032	6036	
Marcellus Shale	6036	6074	
Onondaga Lime	6074	6300	
Oriskany Sand	6300	6360	
Lime	6360	6480	
TD	6480		

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