

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

API 47 - 103 - 02914 County Wetzel District Magnolia  
Quad New Martinsville Pad Name Blake Field/Pool Name Mary  
Farm name Lemons, Gary Well Number #5H  
Operator (as registered with the OOG) Stone Energy Corporation  
Address 1300 Fort Pierpont Dr. - Suite 201 City Morgantown State WV Zip 26508

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,388,583 Easting 517,301  
Landing Point of Curve Northing TBD - Only Top Hole Drilled Easting TBD - Only Top Hole Drilled  
Bottom Hole Northing TBD - Only Top Hole Drilled Easting TBD - Only Top Hole Drilled

Elevation (ft) 1293 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)

Air Drilling additives: air, fresh water, soda ash, KCl, clay guard, PAC, foamer, corrosion inhibitor

Date permit issued 9/23/2013 Date drilling commenced 3/26/2014 Date drilling ceased 4/3/2014  
Date completion activities began Not yet completed Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by MAR 13 2017

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

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft None Reported Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1118 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

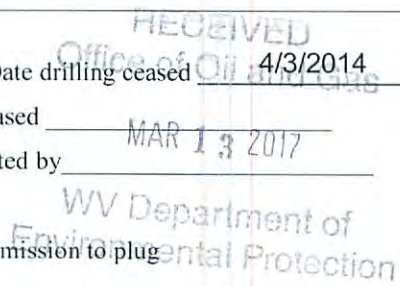
NAME: Ben M H

DATE: 5-25-17

Reviewed by:

DMH

**06/02/2017**



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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	24"	20"	90' KB / 80' GL	New	LS - 94 ppf		N - GTS
Surface	17.5"	13.375"	1290' KB / 1280' GL	New	J55 - 54.5 ppf	100' & 200'	Y - CTS
Coal	17.5"	13.375"	1290' KB / 1280' GL	New	J55 - 54.5 ppf	100' & 200'	Y - CTS
Intermediate 1	12.25"	9.625"	2552' KB / 2542' GL	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set		13.375" x 9.625" annulus inflatable packer set @ 1100' KB					

Comment Details Circulated 30 bbls cement to surface on the 13.375" casing string. Circulated 15 bbls cement to surface on the 9.625" casing string.

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	Type 1	34	15.6	1.18	40	Surface	24+
Surface	Class A	940	15.6	1.20	1128	Surface	8
Coal	Class A	940	15.6	1.20	1128	Surface	8
Intermediate 1	Class A	Lead: 600 / Tail: 230	Lead: 15.6 / Tail: 15.6	Lead: 1.22 / Tail: 1.21	Lead: 732 / Tail: 278	Surface	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 5956 MD / 5934' TVD Loggers TD (ft) N/A

Deepest formation penetrated Devonian Shale Plug back to (ft)     

Plug back procedure     

Kick off depth (ft) TBD - only top hole drilled

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 casing has bow spring centralizers placed on

joints 2, 6, 10, 14, 18, 22, 26 and 30. Intermediate casing has bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56 and 60.

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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**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

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)

Please insert additional pages as applicable.



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PRODUCING FORMATION(S)	DEPTHS
Not yet completed	TVD MD
Not yet producing	

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	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)
Sandstone & Shale	0	1118	0	1118	Fresh water @ 100'
Coal	1118	1122	1118	1122	No salt water reported
Sandstone & Shale	1122	2216	1122	2216	
Big Lime	2216	2331	2216	2331	
Big Injun	2331	2416	2331	2416	
Sandstone & Shale	2416	2786	2416	2786	
Berea Sandstone	2786	2795	2786	2795	
Shale	2795	3036	2795	3036	
Gordon	3036	3060	3036	3060	
Undiff Devonian Shale	3060	5934	3060	5956	

Please insert additional pages as applicable.

Drilling Contractor Highlands (top hole)  
Address 900 Virginia Street - East City Charleston State WV Zip 25301

Logging Company Scientific Drilling (top hole)  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Cementing Company Halliburton (top hole)  
Address 121 Champion Way City Canonsburg State PA Zip 15317

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Greg Zofchak Telephone 304-225-1600  
Signature  Title Drilling Engineer Date 3/6/2017

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