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Office of Oil & Gas

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WR-35
Rev. 8/23/13

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OCT 30 2014

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

API 47-87-04732 County ROANE District SMITHFIELD
Quad LOONEYVILLE Pad Name _____ Field/Pool Name _____
Farm name JEREMIAH DONALDSON Well Number SUMMERFIELD 4A
Operator (as registered with the OOG) RAVEN RIDGE ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing N/A 4,279,684 Easting N/A 470,900
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 918' 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)
SOAP

Date permit issued 3/20/2013 Date drilling commenced 5/21/2013 Date drilling ceased 5/27/2013
Date completion activities began 6/22/2013 Date completion activities ceased 7/5/2013
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1100' - 1600' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NONE LISTED ON TITLE Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

11/28/2014

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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	14 1/4"	13 3/8"	30'	NEW	J-55 - 48LBS	NONE	YES - CEMENTED BY RIG
Surface	12 1/4"	9 5/8"	380'	NEW	J-55 - 29LBS	110'	YES
Coal							
Intermediate 1	7"	7"	1746'	NEW	J-55 - 23LBS	350'	YES
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2450'	NEW	N80 - 11.6LBS	2400'	YES
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	CLASS I	10 - CEMENTED BY HAND				GROUND LEVEL	8
Surface	CLASS I	160	15.6	1.18	188.8	GROUND LEVEL	8
Coal							
Intermediate 1	CLASS I	290	15.6	1.18	342.2	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production	CLASS I	180	14.2	1.29	232.2	GROUND LEVEL	8
Tubing							

Drillers TD (ft) ^{2466'} _____ Loggers TD (ft) ^{1967'} _____
 Deepest formation penetrated BIG INJUN Plug back to (ft) _____
 Plug back procedure _____

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 _____

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)
1	6/20/2013	1876'	1883'	6	LIME
2	6/20/2013	1887'	1902'	10	INJUN

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	6/22/13	16	20	631	1437	∅	512	∅

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>LIME</u>	<u>1876' - 1883'</u>	<u>TVD</u>	<u>MD</u>
<u>INJUN</u>	<u>1887' - 1902'</u>		

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 90 psi Bottom Hole _____ psi DURATION OF TEST 12 hrs

OPEN FLOW Gas _____ mcfpd Oil 1 bpd NGL _____ bpd Water 18 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
SHALE	0	35'	0		
SAND	35'	60'			
SHALE	60'	250'			
SAND	250'	280'			
SHALE	280'	490'			
SEL-SHALE	490'	1320'			
SALT SAND	1320'	1515'			
SHALE	1515'	1550'			
MAXTON	1550'	1625'			
SAND/SHALE	1625'	1876'			
BIG LIME	1876'	1883'			
SHALE	1885'	1887'			
BIG INJUN	1887'	1902'			
SAND	1902'	2466'			

Please insert additional pages as applicable.

Drilling Contractor PETTEY OILFIELD SERVICES, INC.
Address 7752 LYNN AVENUE City HAMLIN State WV Zip 25523

Logging Company WEATHERFORD
Address 286 WEATHERFORD BLVD. City BUCKHANNON State WV Zip 26201

Cementing Company ALLIED OIL & GAS
Address 691 GOOD HOPE PIKE City CLARKSBURG State WV Zip 26301

Stimulating Company PRODUCERS SERVICE CORP.
Address 109 GRAHAM STREET City ZANESVILLE State OH Zip 43701

Please insert additional pages as applicable.

Completed by DANIELLE N. BOGGS Telephone 304-344-9291
Signature *Danielle N. Boggs* Title OPERATIONS MGR. Date 10/10/2014

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