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

API 47-085-10101 County Ritchie District Murphy
Quad Smithville 7.5' Pad Name none Field/Pool Name Eva Field
Farm name Savinkoff, Karl et al Well Number Gill Heirs #3
Operator (as registered with the OOG) Murvin & Meier Oil Co.
Address P. O. Box 396 City Olney State IL Zip 62450

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,319,815 Easting 498,072
Landing Point of Curve Northing na Easting na
Bottom Hole Northing 4,319,815 Easting 498,072

Elevation (ft) 1161 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)
none

Date permit issued May 15, 2014 Date drilling commenced July 21, 2014 Date drilling ceased July 29, 2014
Date completion activities began August 13, 2014 Date completion activities ceased August 15, 2014
Verbal plugging (Y/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 50' (damp) 100' (1/4" stream) Open mine(s) (Y/N) depths _____
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

RECEIVED
Office of Oil and Gas
SEP 12 2014
WV Department of
Environmental Protection

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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		16"	20'	new			
Surface	15"	11 3/4"	337'	new	A500 32#	42'	Y
Coal							
Intermediate 1	11"	8 5/8"	1392'	new	A500 20#	42	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	4 1/2"	2636'	new	WT65 10.5#	1652'	N
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	A	200	15.6	1.18	236	CTS	
Coal							
Intermediate 1	A	333	14.8	1.40	466	CTS	
Intermediate 2							
Intermediate 3							
Production	CBL Poz	200	13.5	1.54	308	1250'	
Tubing							

Drillers TD (ft) 2,673' Loggers TD (ft) 2,666'
 Deepest formation penetrated Berea Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) n/a

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 4 1/2" x 7 7/8": 2584' 2499' 2414' 2330' 1906' 1821' 1737'

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	8-7-2014	2526	2532	18	Berea
	8-7-2014	2176	2178	4	Big 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 (bbbls)	Amount of Nitrogen/other (units)
1	8/13/14	31	1600	1895	740	30,000	627	73,000 scf

Please insert additional pages as applicable.

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PRODUCING FORMATION(S) DEPTHS
same as perforation record _____ TVD _____ MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 500 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
30 mcfpd show bpd - bpd - bpd 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	
	0	8	0	8	
Fill	8	10	8	10	
Sd, Sh, RR	10	1305	10	1305	
Salt Sand	1305	1590	1305	1590	
Shale	1590	1736	1590	1736	
3rd Salt Sand	1736	1820	1736	1820	
Sh, Sd	1820	1940	1820	1940	
Maxon	1940	1955	1940	1955	
Shale	1955	2002	1955	2002	
L. Lime	2002	2018	2002	2018	
Sd, Sh	2018	2039	2018	2039	
Big Lime	2039	2101	2039	2101	
Keener	2101	2113	2101	2113	
Big Injun	2113	2138	2113	2138	

Please insert additional pages as applicable.

Drilling Contractor Nexus Drilling Corporation
 Address P. O. Box 903 City Jane Lew State WV Zip 26378

Logging Company Precision Energy Services
 Address 777 N River Avenue City Weston State WV Zip 26452

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 Kate M. Blackford Telephone 618-395-4405
 Signature *Kate M. Blackford* Title Executive Vice-President Date 9/10/2014

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

Lithology / Formation	Top	Bottom	Top	Bottom	Described Rock Type and Record Quantity and Type of Fluid (Freshwater, Brine, Oil, Gas, H2S, etc.)
	Depth in FT Name TVD	Depth in FT TVD	Depth in FT MD	Depth in FT MD	
Sd, Sh	2138	2231	2138	2231	
Weir	2231	2280	2231	2280	
Sd, Sh	2280	2510	2280	2510	
Berea	2510	2545	2510	2545	
Shale	2545	2673	2545	2673	
Total Depth	2673		2673		