

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

API 47 - 085 - 10246 County Ritchie District Murphy
Quad Smithville 7.5' Pad Name none Field/Pool Name Eva Field
Farm name Yoder, Noah L. & Emma Well Number J. E. Gum #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 4,319,472.9 Easting 498,077.60
Landing Point of Curve Northing n/a Easting n/a
Bottom Hole Northing 4,319,472.9 Easting 498,077.6

Elevation (ft) 1058' 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 TD 200

Date permit issued September 8, 2015 Date drilling commenced November 9, 2015 Date drilling ceased November 14, 2015
Date completion activities began November 30, 2015 Date completion activities ceased December 11, 2015
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 none reported Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1750' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft none reported Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

APPROVED

NAME: Michael Gaff
DATE: 3/17/16

RECEIVED
Office of Oil and Gas
MAR 11 2016
Reviewed by:
WV Department of Environmental Protection
AX WS 03/25/2016

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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	24"	20"	20'	new	94		Y
Surface	17"	11.75"	304'	new	42#	40'	Y
Coal							
Intermediate 1	10.625"	8.625"	1275'	new	24#	300'	Y
Intermediate 2							
Intermediate 3							
Production	7.875"	4.5"	2487'	new	10.5#	1686'	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	Construction	10	15.6	1.18	11.8	CTS	8
Surface	Class A	300	15.6	1.18	354	CTS	8
Coal							
Intermediate 1	Class A	329	14.8	1.38	454	CTS	8
Intermediate 2							
Intermediate 3							
Production	CBL Poz	200	13.5	1.54	308	1300'	
Tubing							

Drillers TD (ft) 2540' Loggers TD (ft) 2546'

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": 2455' 2361' 2276' 2192' 2086'
1981' 1897'

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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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 540 psi Bottom Hole _____ psi DURATION OF TEST 72 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
20 mcfpd show bpd - bpd - bpd 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 ₂ S, ETC)
	0		0		
Fill	0	5	0	5	
Sd, Sh, RR	5	1934	5	1934	
L. Lime	1934	1989	1934	1989	
Keener	1989	1990	1989	1990	
B. Lime	1990	2041	1990	2041	
B. Injun	2041	2076	2041	2076	
Shale	2076	2422	2076	2422	
Berea	2422	2429	2422	2429	
Shale	2429	2546	2429	2546	
total depth	2546		2546		

Please insert additional pages as applicable.

Drilling Contractor Top Drilling Corporation
 Address 107 Lancaster Street Suite 301 City Marietta State OH Zip 45750

Logging Company Casedhole Solutions
 Address P. O. Box 267 City Weatherford State OK Zip 73096

Cementing Company CJ Energy Services
 Address 3990 Rogerdale City Houston State TX Zip 77042

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

Please insert additional pages as applicable.

Completed by Kate M. Blackford Telephone 618-395-4405
 Signature *Kate M. Blackford* Title Executive Vice-President Date 3/9/2016

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