

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



API 47 - 085 - 10053 County Ritchie District Murphy
Quad Smithville 7.5' Pad Name none Field/Pool Name Eva Field
Farm name Schlabach, Dalen R. Well Number Heldreth M2
Operator (as registered with the OOG) Murvin & Meier Oil Co.
Address P. O. Box 396 City Olney State IL Zip 62450

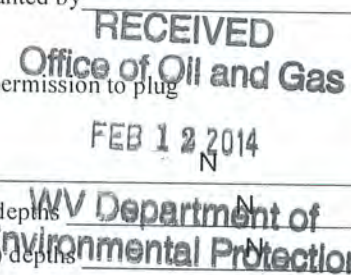
As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,319,638 Easting 497,671
Landing Point of Curve Northing n/a Easting n/a
Bottom Hole Northing 4,319,638 Easting 497,671

Elevation (ft) 836 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 August 14, 2013 Date drilling commenced Sept, 28, 2013 Date drilling ceased October 7, 2013
Date completion activities began October 17, 2013 Date completion activities ceased November 13, 2013
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 32 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: _____

04/04/2014

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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	17 1/2"	16"	39'	new			not cemented
Surface	15"	11 3/4"	336'	new	32#	43'	Y
Coal							
Intermediate 1	11"	8 5/8"	1710'	new	24#	43'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	4 1/2"	5926'	new	10.5#	3417'	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 ²)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Type 1	190	15.6	1.18	224	surface	8
Coal							
Intermediate 1	Type 1	375	14.8	1.40	525	surface	10
Intermediate 2							
Intermediate 3							
Production	Type 1	510	13.5	1.54	785	2480'	
Tubing							

Drillers TD (ft) 6070' Loggers TD (ft) 5946'
 Deepest formation penetrated Rhinestreet 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": 5864', 5569', 5358', 5147', 4936', 4725', 4514', 4389', 4219', 3713', 3502', 3248', 3080'

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 _____

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	1749	1792	1749	1792	
Big Injun	1792	1824	1792	1824	
Sd, Sh	1824	2204	1824	2204	
Berea	2204	2211	2204	2211	
Sd, Sh	2211	3158	2211	3158	
Warren	3158	3224	3158	3224	
Sd, Sh	3224	3506	3224	3506	
Speechley	3506	3530	3506	3530	
Sd, Sh	3530	3759	3530	3759	
Balltown	3759	4144	3759	4144	
Sd, Sh	4144	4229	4144	4229	
Bradford	4229	4242	4229	4242	
Shale	4242	4486	4242	4486	
Riley	4486	4496	4486	4496	
Shale	4496	4546	4496	4546	
Benson	4546	4558	4546	4558	
Shale	4558	4694	4558	4694	
Alexander	4694	4824	4694	4824	
Shale	4824	5106	4824	5106	
First Elk	5106	5196	5106	5196	
Shale	5196	5364	5196	5364	
Second Elk	5364	5399	5364	5399	
Shale	5399	5556	5399	5556	
Rhinestreet	5556	5898	5556	5898	
Shale	5898	6070	5898	6070	
Total Depth	6070		6070		