

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

JK

API 47 - 085 - 10061 County Ritchie District Murphy
Quad Smithville 7.5' Pad Name none Field/Pool Name Eva Field
Farm name Difilippo, Dennis N. & Debra Well Number Cox M2A
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 196,677 Easting 1,560,725
Landing Point of Curve Northing n/a Easting n/a
Bottom Hole Northing 196,677 Easting 1,560,725

Elevation (ft) 1148 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)
5C-900 shale control co-polymer

Date permit issued August 26, 2013 Date drilling commenced Sept. 4, 2013 Date drilling ceased Sept. 15, 2013
Date completion activities began Sept. 25, 2013 Date completion activities ceased October 23, 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 50' (damp) Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2006' (damp) 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		16"	19'	new	A-500 42#		
Surface	15"	11 3/4"	550'	new	A-500 32#	42'	Y
Coal							
Intermediate 1	11"	8 5/8"	2055'	new	J-55 24#	42'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	4 1/2"	6282'	new	WT 65 10.5#	4518' 4165'	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	325	15.6	1.18	383	surface	8
Coal							
Intermediate 1	A	485	14.8	1.40	679	surface	8
Intermediate 2							
Intermediate 3							
Production	CBL Poz	540	13.5	1.54	832	3000'	
Tubing							

Drillers TD (ft) 6330' Loggers TD (ft) 6332'
 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": 6238', 6017', 5841', 5665', 5488', 5312', 5091', 4826', 4606', 4429', 4209', 4032', 3856', 3680'

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	4903	5121	4903	5121	
Alexander	5121	5146	5121	5146	
Sd, Sh	5146	5422	5146	5422	
First Elk	5422	5520	5422	5520	
Sd, Sh	5520	5655	5520	5655	
Second Elk	5655	5728	5655	5728	
Sd, Sh	5728	5860	5728	5860	
Rhinestreet	5860	6248	5860	6248	
Shale	6248	6332	6248	6332	
Total Depth	6332		6332		