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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 47-017-06344 County Doddridge District New Milton
Quad New Milton 7.5' Pad Name Key Oil Field/Pool Name _____
Farm name I. L. Morris Well Number T. Maxwell #11
Operator (as registered with the OOG) Key Oil Company
Address 22 Garton Plaza City Weston State WV Zip 26452

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

Elevation (ft) 974' 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)

Date permit issued 09/10/13 Date drilling commenced 10/12/13 Date drilling ceased 12/03/13
Date completion activities began 10/01/13 Date completion activities ceased 12/03/13
Verbal plugging (Y/N) N/A Date permission granted 10/01/13 Granted by Douglas Newlon

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

Freshwater depth(s) ft 75' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1280' Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

02/28/2014

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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	20"	13-3/8"	38	NEW	J-55	N/A	N
Surface							
Coal	N/A						
Intermediate 1	12-1/4"	9-5/8"	168	NEW	J-55	N/A	Y
Intermediate 2	8-3/4"	7"	1097	NEW	J-55	N/A	Y
Intermediate 3							
Production	6-1/2"	4-1/2"	2639	NEW	J-55	N/A	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	N/A	N/A					
Surface							
Coal							
Intermediate 1	CLASS A	70	15.6	1.13		CTS	8 hrs.
Intermediate 2	CLASS A	140	15.6	1.23		CTS	8 hrs.
Intermediate 3							
Production	CBL POZ	150	13.5	1.53		ETOC 1000'	
Tubing							

Drillers TD (ft) 2730' Loggers TD (ft) 2721'
 Deepest formation penetrated GORDON 2470' Plug back to (ft) _____
 Plug back procedure _____

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 _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Perfs H. SC.
 PERFS HSC

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	
GORDON	2470	TVD MD
WEIR	2110	
INJUN	1870	
KEENER	1819	

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2040 psi Bottom Hole 2840 psi DURATION OF TEST 36 hrs

OPEN FLOW Gas 822 mcfpd Oil 3 bpd NGL 0 bpd Water 0 bpd GAS MEASURED BY 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		
H2O	75		78		FRESH
SALT WATER	1280		1285		SALT WATER
BIG LIME	1756		1855		LIME
INJUN	1840		1880		SAND, OIL AND GAS
WEIR	2030		2120		SAND AND GAS
GANTZ	2240		2250		SAND AND GAS
GORDON	2460		2470		SAND, SHALE, OIL, AND GAS

Please insert additional pages as applicable.

Drilling Contractor NEXUS DRILLING CORP
Address INDUSTRIAL PARK City JANE LEW State WV Zip 26378

Logging Company WEATHERFORD INTERNATIONAL
Address 603 U S HIGHWAY 19 N City WESTON State WV Zip 26452

Cementing Company UNIVERSAL WELL SERVICE
Address 5 HALL RUN ROAD City BUCKHANNON State WV Zip 26201

Stimulating Company UNIVERSAL
Address 5 HALL RUN ROAD City BUCKHANNON State WV Zip 26201

Please insert additional pages as applicable.

Completed by JAN CHAPMAN Telephone (304) 269-7102
Signature *Jan Chapman* Title PRESIDENT Date 01/13/14

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

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ADDITIONAL PAGE FOR PRODUCING FORMATIONS

PRODUCING FORMATIONS	DEPTHS	
Blue Monday	1754 TVD	MD

RECEIVED
Office of Oil and Gas

JAN 27 2014

WV Dept. of Environmental Protection

02/28/2014