

JR

WR-35
Rev. 8/23/13

Received
Office of Oil & Gas

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

NOV 07 2014

API 47 - 017 - 06524 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 #17
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 39.23046 Easting 80.72677
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1005' 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)
N/A

Date permit issued 06/26/2014 Date drilling commenced 09/17/14 Date drilling ceased 09/21/2014
Date completion activities began 10/03/2014 Date completion activities ceased 10/06/14
Verbal plugging (Y/N) N Date permission granted 9/21/14 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 90 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1100 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:

12/12/2014

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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"	210	NEW	J-55	100'	80 SKS. CTS (Y)
Intermediate 2	8-3/4"	7"	1232	NEW	J-55	200'	180 SKS. CTS (Y)
Intermediate 3							
Production	6-1/4"	4-1/2"	2701	NEW	J-55		150 SKS. CBL POZ (N)
Tubing							ETOC 1100'
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	N/A	N/A	N/A	N/A	
Surface	CLASS A	80	15.6	1.13		CTS	8 HRS.
Coal							
Intermediate 1							
Intermediate 2	CLASS A	180	15.6	1.23		CTS	8 HRS.
Intermediate 3							
Production	CBL POZ	150	13.5	1.53		ETOC 1100'	
Tubing							

Drillers TD (ft) 2701' Loggers TD (ft) 2892'
 Deepest formation penetrated Gordon 2500' 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 _____

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	TVD	MD
GORDON	2500		
WEIR	2134		
INJUN	1908		
BLUE MONDAY	1792		

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 900 psi Bottom Hole 2065 psi DURATION OF TEST 72 hrs

OPEN FLOW Gas 843 mcfpd Oil 2 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	90	93	90	93	FRESH
SALT WATER	1100	1101	1100	1101	SALT WATER
SAND & SHALE	1101	1770	1101	1770	SAND & SHALE (BROWN)
LITTLE LIME	1770	1790	1770	1790	LITTLE LIME (GRAY)
BLUE MONDAY	1790	1800	1790	1800	BLUE MONDAY (BLUE/GRAY)
INJUN	1800	1910	1800	1910	SAND & SHALE (GRAY)
SHALE	1910	2070	1910	2070	SHALE (GRAY)
WEIR	2070	2160	2070	2160	SAND & SHALE (BROWN)
SHALE	2160	2270	2160	2270	SHALE (BROWN)
GANTZ	2270	2280	2270	2280	SAND & SHALE (GRAY)
SAND & SHALE	2280	2500	2280	2500	SAND & SHALE (BROWN)
GORDON	2500	2510	2500	2510	SAND (BROWN)
TD				2701	TD

Please insert additional pages as applicable.

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

Logging Company WEATHERFORD
Address 603 US 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 WELL SERVICE
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  Title PRESIDENT Date 11/4/2014

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS **Office of Oil & Gas**

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