

pm

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

Received  
Office of Oil & Gas  
NOV 07 2014

API 47-017-06525 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 #18  
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 39.22521 Easting 80.73843  
Landing Point of Curve Northing N/A Easting N/A  
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1172' 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 09/10/2014 Date drilling ceased 09/14/2014  
Date completion activities began 09/20/2014 Date completion activities ceased 09/22/14  
Verbal plugging (Y/N) N Date permission granted 09/14/2014 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 100 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1200 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

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Reviewed by: \_\_\_\_\_

12/12/2014

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/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	100'	80 SKS. CTS (Y)
Intermediate 2	8-3/4"	7"	1266	NEW	J-55	200'	200 SKS. CTS (Y)
Intermediate 3							
Production	6-1/4"	4-1/2"	2801	NEW	J-55		160 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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	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	200	15.6	1.23		CTS	8 HRS.
Intermediate 3							
Production	CBL POZ	160	13.5	1.53		ETOC 1100'	
Tubing							

Drillers TD (ft) 2860' Loggers TD (ft) 2847'  
 Deepest formation penetrated GORDON 2620' 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
<u>GORDON</u>	<u>2619</u>	<u>          </u>	<u>          </u>
<u>WEIR</u>	<u>2260</u>	<u>          </u>	<u>          </u>
<u>INJUN</u>	<u>2030</u>	<u>          </u>	<u>          </u>
<u>KEENER</u>	<u>1982</u>	<u>          </u>	<u>          </u>

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 800 psi Bottom Hole 2012 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 531 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 <sub>2</sub> S, ETC)
	0		0		
H2O	100	103	100	103	FRESH
SALT WATER	1200	1203	1200	1203	SALT WATER
SHALE	100	1840	100	1840	SHALE (BROWN)
LITTLE LIME	1840	1860	1840	1860	LITTLE LIME (GRAY)
BLUE MONDAY	1860	1890	1860	1890	BLUE/GRAY
SHALE	1890	1940	1890	1940	SAND & SHALE (GRAY)
INJUN/KEENER	1940	2040	1940	2040	SAND (GRAY)
SHALE	2040	2180	2040	2180	SHALE (GRAY)
WEIR	2180	2270	2180	2270	SAND & SHALE (BROWN)
SHALE	2270	2590	2270	2590	SHALE (BROWN)
GORDON	2590	2620	2590	2620	SAND (BROWN)
SHALE	2620	2800	2620	2800	SAND & SHALE (GRAY)
TD			2801		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 *J. Chapman* Title PRESIDENT Date 11/4/2014

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

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WR-35  
Rev. 8/23/13

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PRODUCING FORMATION(S)

DEPTHS

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>BLUE MONDAY</u>	<u>1882</u>	<u>TVD</u>	<u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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