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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 47-017-06346 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 #14  
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) 1129' 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 09/09/13 Date drilling commenced 10/30/13 Date drilling ceased 11/03/13  
Date completion activities began 10/20/13 Date completion activities ceased 11/14/13  
Verbal plugging (Y/N) N Date permission granted 10/15/13 Granted by Dave Scranage

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 1550' 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: \_\_\_\_\_

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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"	35'	NEW	J-55	N/A	N
Surface							
Coal	N/A						
Intermediate 1	12-1/4"	9-5/8"	230'	NEW	J-55	N/A	Y
Intermediate 2	8-3/4"	7"	1267'	NEW	J-55	N/A	Y
Intermediate 3							
Production	6-1/2"	4-1/2"	2745'	NEW	J-55	N/A	N
Tubing	N						
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					
Surface							
Coal							
Intermediate 1	CLASS A	90	15.6	1.13		CTS	8 hrs.
Intermediate 2	CLASS A	140	15.6	1.23		CTS	8 hrs.
Intermediate 3							
Production	CBL POZ	160	13.5	1.53		ETOC 1000'	
Tubing							

Drillers TD (ft) 2800' Loggers TD (ft) 2786'

Deepest formation penetrated GORDON 2570' 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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>GORDON</u>	<u>2570</u>	<u>TVD</u>	<u>MD</u>
<u>WEIR</u>	<u>2200</u>		
<u>INJUN</u>	<u>1980</u>		
<u>KEENER</u>	<u>1927</u>		

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2180 psi Bottom Hole 2980 psi DURATION OF TEST 72 hrs

OPEN FLOW Gas 1,061 mcfpd Oil 4 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		FRESH
SALT WATER	1550		1503		SALT WATER
BIG LIME	1840		1840	1910	LIME
INJUN	1980		1955	1985	SAND, OIL AND GAS
WEIR	2170		2144	2210	SAND, SHALE, AND GAS
GANTZ	2350		2346	2350	SAND AND GAS
GORDON	2550		2556	2576	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

Submission 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	1852 TVD	MD

