

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 21 2014

API 47-017-06452 County Doddridge District New Milton  
Quad New Milton 7.5 Pad Name Key Oil Field/Pool Name \_\_\_\_\_  
Farm name Richard and Vickie Schultz Well Number Bartlett #3  
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 39.23270 Easting 80.70914  
Landing Point of Curve Northing N/A Easting N/A  
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1270' 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 02/04/2014 Date drilling commenced 09/30/2014 Date drilling ceased 10/08/2014  
Date completion activities began 10/26/2014 Date completion activities ceased 10/27/2014  
Verbal plugging (Y/N) N Date permission granted 10/08/2014 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 110 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1400 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"	168	NEW	J-55		90 SKS. CTS (Y)
Intermediate 2	8-3/4"	7"	1528	NEW	J-55		220 SKS. CTS (Y)
Intermediate 3							
Production	6-1/2"	4-1/2"	5583	NEW	J-55		300 SKS. CBL POZ (N)
Tubing							ETOC 2500'
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	90	15.6	1.13		CTS	8 HRS.
Coal							
Intermediate 1							
Intermediate 2	CLASS A	220	15.6	1.23		CTS	8 HRS.
Intermediate 3							
Production	CBL POZ	300	13.5	1.53		ETOC 2500'	
Tubing							

Drillers TD (ft) 5780' Loggers TD (ft) 5780'  
 Deepest formation penetrated Alexander 5450' 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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
ALEXANDER	5450	TVD _____ MD _____
BRADFORD	4650	_____
BALLTOWN	4220	_____
SPEECHLEY/WARREN	3724	_____

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Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1500 psi Bottom Hole 3994 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 1517 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	110	113	110	113	FRESH
SALT WATER	1400	1410	1400	1410	SALT WATER
SAND & SHALE	1410	2100	1410	2100	SAND & SHALE (BROWN)
LITTLE LIME	2100	2130	2100	2130	SAND (GRAY)
SAND	2130	2200	2130	2200	SAND (GRAY)
BIG LIME	2200	2250	2200	2250	SAND (GRAY)
SHALE	2250	2450	2250	2450	SHALE (BROWN)
WEIR	2450	2470	2450	2470	SAND (BROWN)
SHALE	2470	2610	2470	2610	SHALE (BROWN)
GANTZ	2610	2620	2610	2620	SAND (GRAY)
SHALE	2620	2830	2620	2830	SHALE (GRAY)
GORDON	2830	2840	2830	2840	SHALE (BROWN)
SHALE	2840	3496	2840	3496	SHALE (GRAY)

Please insert additional pages as applicable.

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

Logging Company NABORS WELL SERVICE  
Address 82 ELKINS ROAD City BUCKHANNON State WV Zip 26201

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 *Jan Chapman* Title PRESIDENT Date 11/14/2014

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

12/12/2014

**CONTINUED**

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Rev. 8/23/13

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	0		0		
SPEECHLEY	3496	3700	3496	3700	SAND (GREY)
SHALE	3700	3850	3700	3850	SHALE (BROWN)
BALLTOWN	3850	4220	3850	4220	SAND (GREY)
SHALE	4220	4600	4220	4600	SHALE (GREY)
BRADFORD	4600	4680	4600	4680	SAND (BROWN)
SHALE	4680	5030	4680	5030	SHALE (BROWN)
RILEY	5030	5050	5030	5050	SAND (GREY)
SHALE	5050	5140	5050	5140	SAND & SHALE (BROWN)
BENSON	5140	5150	5140	5150	SAND & SHALE (BROWN)
SAND & SHALE	5150	5430	5150	5430	SAND (GREY)
ALEXANDER	5430	5500	5430	5500	SHALE (GREY)
SHALE	5500	5720	5500	5720	SHALE (GREY)
TD	5720				TD

Please insert additional pages as applicable.

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