

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 - 06522 County Doddridge District New Milton
Quad New Milton 7.5 Pad Name Key Oil Field/Pool Name _____
Farm name Alan and Carol Smith Well Number Iva Windon #2
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 39.22852 Easting 80.71938
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1057' 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 09/23/2014 Date drilling ceased 09/26/2014
Date completion activities began 10/10/2014 Date completion activities ceased 10/13/14
Verbal plugging (Y/N) N Date permission granted 09/26/2014 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 80 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

API 47-017 - 06522 Farm name Alan and Carol Smith Well number Iva Windon #2

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		80 SKS. CTS (Y)
Intermediate 2	8-3/4"	7"	1225	NEW	J-55		180 SKS. CTS (Y)
Intermediate 3							
Production	6-1/4"	4-1/2"	2754	NEW	J-55		150 SKS. CBL POZ (N)
Tubing							ETOC 1200'
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 1200'	
Tubing							

Drillers TD (ft) ²⁸²⁷ _____ Loggers TD (ft) ²⁸¹⁴ _____
 Deepest formation penetrated GORDON 2600' 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>	
	TVD	MD
GORDON	2601	
WEIR	2236	
INJUN	2020	
KEENER	1964	

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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 500 psi Bottom Hole 1722 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
750 mcfpd 2 bpd 0 bpd 0 bpd 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	80	83	80	83	FRESH
SALT WATER	1100	1105	1100	1105	SALT WATER
SHALE	1105	1850	1105	1850	SAND & SHALE (BROWN)
BLUE MONDAY	1850	1890	1850	1890	SAND (GRAY)
SAND	1890	1950	1890	1950	SAND (GRAY)
KEENER	1950	1970	1950	1970	SAND (GRAY)
BIG LIME	1970	2020	1970	2020	SAND & SHALE (BROWN)
SHALE	2020	2170	2020	2170	SHALE (BROWN)
WEIR	2170	2250	2170	2250	SAND (BROWN)
SAND	2250	2370	2250	2370	SAND (GRAY)
GANTZ	2370	2380	2370	2380	SHALE & SAND (GRAY)
SHALE	2380	2600	2380	2600	SHALE (BROWN)
GORDON	2600	2610	2600	2610	SAND (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 [Signature] Title PRESIDENT Date 11/14/2014

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

12/12/2014

