

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



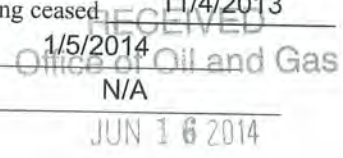
API 47 - 15 - 02890 County CLAY District UNION
Quad ELKHURST 7.5' Pad Name _____ Field/Pool Name _____
Farm name ROBERT TAYLOR Well Number KING #14
Operator (as registered with the OOG) RAVEN RIDGE ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

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) 1,285' 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)
SOAP

Date permit issued 6/26/2013 Date drilling commenced 10/31/2013 Date drilling ceased 11/4/2013
Date completion activities began 12/19/2013 Date completion activities ceased 1/5/2014
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A



Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 200' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1150' - 1650' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NONE OF RECORD Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N



Reviewed by: _____

06/27/2017

API 47-15 - 02890

Farm name ROBERT TAYLOR

Well number KING #14

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	14 1/4"	13 3/8"	30'	NEW	J-55 - 42 LBS	NONE	SAND -IN BY RIG
Surface	12 1/4"	9 5/8"	377'	NEW	J-55 - 29 LBS	120'	YES
Coal							
Intermediate 1	8 3/4"	7"	1967'	NEW	J-55 - 17LBS	335'	YES
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2300'	NEW	J-55 - 10.5 LBS	NONE	
Tubing							
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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS I	10 - RIG				GROUND LEVEL	8
Surface	CLASS I	130	15.6	1.18		GROUND LEVEL	8
Coal							
Intermediate 1	CLASS I	120	15.6	1.18		GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production	CLASS I	212	15.6	1.40		1475'	8
Tubing							

Drillers TD (ft) ^{2410'} _____ Loggers TD (ft) ^{2274'} _____

Deepest formation penetrated ^{WEIR} _____ Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

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 CENTRALIZERS RUN ON 4 1/2" JOINTS 1, 3, 5, 7

RECEIVED
Office of Oil and Gas

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JUN 10 2014

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS WV Department of Environmental Protection

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 15 - 02890 Farm name ROBERT TAYLOR Well number KING #14

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>INJUN</u>	<u>2111' - 2138'</u>	<u>TVD</u>	<u>MD</u>
<u>SQUAW</u>	<u>2152' - 2168'</u>		

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 200 psi Bottom Hole _____ psi DURATION OF TEST 12 hrs

OPEN FLOW Gas 15 mcfpd Oil 5 bpd NGL _____ bpd Water _____ 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)
SAND/SHALE	0	1570'	0		
SALT SANDS	1570'	1660'			
SAND/SHALE	1660'	1818'			
LITTLE LIME	1818'	1972'			
PENCIL CAVE	1872'	1886'			
BIG LIME	1886'	2004'			
INJUN	2004'	2058'			
SQUAW	2058'	2082'			
SAND/SHALE	2082'	2122'			
WEIR	2122'	2180'			
SAND SHALE	2180'	2410'			
BEREA					

Please insert additional pages as applicable.

Drilling Contractor WACO OIL & GAS
Address P.O. BOX 397 City GLENVILLE State WV Zip 26351

Logging Company NABORS COMPLETION & PRODUCTION, CO.
Address 82 ELKINS ROAD City BUCKHANNON State WV Zip 26201

Cementing Company ALLIED OIL & GAS, LLC
Address 100 HOPE ROAD City CLARKSBURG State WV Zip 26301

Stimulating Company PRODUCERS SERVICE CORPORATION
Address 109 SOUTH GRAHAM STREET City ZANESVILLE State WV Zip 26401

Please insert additional pages as applicable.

Completed by DANIELLE N. BOGGS Telephone 304-344-9291
Signature *Danielle N. Boggs* Title OPERATIONS MANAGER Date 5/30/2014

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

RECEIVED
 Office of Oil and Gas
 JUN 16 2014
 WV Department of
 Environmental Protection

06/27/2017