

PM

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

API 47-015-02893 County Clay District Union
Quad Elkhurst Pad Name _____ Field/Pool Name Rouzer
Farm name Bettie Bell Well Number 8
Operator (as registered with the OOG) Rouzer Oil Company
Address P. O. Box 987 City Spencer State WV Zip 25276

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,256,025.739 Easting 482,812.665
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1056 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)

Date permit issued 9/5/2013 Date drilling commenced 5/22/2014 Date drilling ceased 5/27/2014
Date completion activities began 7/3/2014 Date completion activities ceased 7/11/2014
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft Not determined Open mine(s) (Y/N) depths N
Salt water depth(s) ft Not determined Void(s) encountered (Y/N) depths N
Coal depth(s) ft 120, 250, & 335 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Received
Office of Oil & Gas
OCT 21 2014

Reviewed by: _____

11/07/2014

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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		13"	10'	New			
Surface	12.25"	9-5/8"	378'	New	26 lb.	None	Y
Coal							
Intermediate 1	8.75"	7"	1,480'	New	17 lb.	None	Y
Intermediate 2							
Intermediate 3							
Production	6.5"	4.5"	2,034'	New	10.5 lb.	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 ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Type 1	145	15.6	1.18	171.1	Surface	8
Coal							
Intermediate 1	Type 1	225	14.8	1.4	315	Surface	8
Intermediate 2							
Intermediate 3							
Production	50/50 Poz Cement	65	14.2	1.29	83.9	1,325'	
Tubing							

Drillers TD (ft) 2,080 Loggers TD (ft) 2,063 (2,021 after cementing 4.5" string)
 Deepest formation penetrated Big Injun Sand 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 Centralizer placed at each bottom four collars of 4.5" 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 _____

<u>Formation</u>	<u>Depth (ft.)</u>
Shale & sand	0 – 30
Sand	30 – 120
Coal	120 – 125
Shale	125 – 140
Sand	140 – 160
Shale	160 – 170
Sand	170 – 175
Shale	175 – 180
Sand	180 – 250
Coal	250 – 260
Shale	260 – 275
Sand	275 – 335
Coal	335 – 340
Sand	340 – 380
Shale	380 – 650
Sand	650 – 680
Shale	680 – 740
Sand	740 – 800
Shale	800 – 1100
Salt Sand	1100 – 1434
Shale	1434 – 1474
Red rock	1474 – 1494
Shale	1494 – 1640
Maxon Sand	1640 – 1695
Little Lime	1695 – 1760
Big Lime	1760 – 1870
Keener Sand	1870 – 1900
Big Injun Sand	1900 – 1950
Red Rock	1950 – 2060