

PM

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

API 47-039-06363 County Kanawha District Union
Quad St. Albans Pad Name _____ Field/Pool Name WV5U
Farm name Board of Governors, WV5U Well Number #1
Operator (as registered with the OOG) Reserve Oil and Gas, Inc.
Address 929 Charleston Road 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 4247780 Easting 0432920
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 594 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 8/29/2013 Date drilling commenced 4/8/2014 Date drilling ceased 5/2/2014
Date completion activities began 5/16/2014 Date completion activities ceased 5/18/14
Verbal plugging (Y/N) N/A 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 80', 98', & 575' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1130' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

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Office of Oil and Gas
JUL 10 2014
WV Department of
Environmental Protection

Reviewed by:
R.F.

08/15/2014

API 47- 039 - 06363 Farm name Board of Governors WVSU Well number #1

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	N/A	20"	15'	New	N/A	N/A	filled with dirt
Surface	17 1/2"	13 3/8"	63'	New	26lb	N/A	to surface by hand
Coal							
Intermediate 1	12 1/4"	9 5/8"	336'	New	26 lb	84'	No,
Intermediate 2	8 7/8"	7"	1730'	New	17lb	295'	Yes, 10 bbls to pit,
Intermediate 3							
Production	6 1/2"	4 1/2"	4409.95'	New	11.6 lb	JTS: 10, 20, 30, 40, 50	
Tubing							
Packer type and depth set							

Comment Details Grouted backside of 9 5/8" w/ 50 sacks cement and cement stayed up.

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	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surface	Type 1	40	N/A	N/A	N/A	0	13hrs
Coal							
Intermediate 1	Type 1 / 3% CaCl ₂ 25 f/ha	150	15.6	1.18	177.0	0	18hrs
Intermediate 2	Type 1 / 2% gel 3% CaCl ₂ 25 f/ha	270	14.8	1.40	378.0	0	10hrs
Intermediate 3							
Production	Strong Life 250/Kolseal	160	12.6	2.11	337.6	0	
Tubing							

Drillers TD (ft) 4425 Loggers TD (ft) 4416

Deepest formation penetrated Rhinestreet Plug back to (ft) 4410

Plug back procedure N/A

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 _____

20": N/A

13 3/8": N/A

9 5/8": N/A

7": N/A

4 1/2": JTS: 10, 20, 30, 40, 50, 60

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 _____

