

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

API 47-039-06344 County Kanawha District Union
Quad Pocatalico Pad Name n/a Field/Pool Name n/a
Farm name Fisher, Howard Well Number Fisher #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 512,449 (42,510,000) 38,405,023 2 Easting 1,769,112 (64,374,118) 81,716,910 9
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 851 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 11/27/2012 Date drilling commenced 4/8/2013 Date drilling ceased 4/19/2013
Date completion activities began 5/24/2013 Date completion activities ceased 5/24/2013
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 70 Open mine(s) (Y/N) depths NO
Salt water depth(s) ft 1320 Void(s) encountered (Y/N) depths NO
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths NO
Is coal being mined in area (Y/N) NO

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
OCT 15 2013
Reviewed by: 12/06/2013
WV Department of Environmental Protection

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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	17 1/2	13 3/8	18	New	48.0	none	cement by hand to surface
Surface	12 1/4	9 5/8	336.60	New	26.0	84	yes, 5 bbls to pit
Coal							
Intermediate 1	8 7/8	7	1985.25	New	17.0	295	yes, 5 bbls to pit
Intermediate 2							
Intermediate 3							
Production	6 1/2	4 1/2	4645	New	11.6	Joints: 20, 30, 40, 50, 60	displaced plug w/ 63 bbls
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	Portland	7				GL	6
Surface	Type 1	125				GL	12
Coal							
Intermediate 1	Unifillight/Class A	165/75	12.7/15.6	1.84/1.18	303.6/88.5	GL	10
Intermediate 2							
Intermediate 3							
Production	Stronglite 250	185	12.3	2.34	432.9	4626	19
Tubing							

Drillers TD (ft) ⁴⁶⁵⁰ _____ Loggers TD (ft) ⁴⁶⁵⁶ _____
 Deepest formation penetrated Devonian Shale Plug back to (ft) ⁴⁶²⁶ _____
 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 _____

13 3/8": no centralizers used
 9 5/8": no centralizers used
 7": 3 centralizers were used
 4 1/2": 6 centralizers used at joints 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 _____

