

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

API 47-039-06343 County Kanawha District Union
Quad Pocatalico Pad Name n/a Field/Pool Name n/a
Farm name Fisher, Howard Well Number Creston #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 512,591 (4251052) 38.4055542 Easting 1,765,315 (6438089) 21.7096760
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 976 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

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Date permit issued 12/11/2012 Date drilling commenced 3/25/2013 Date drilling ceased 4/5/2013
Date completion activities began 4/15/2013 Date completion activities ceased 4/15/2013
Verbal plugging (Y/N) n/a Date permission granted n/a Granted by WV n/a

Environmental Protection

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 1640 Void(s) encountered (Y/N) depths NO
Coal depth(s) ft 634-640, 785-790 Cavern(s) encountered (Y/N) depths NO
Is coal being mined in area (Y/N) NO

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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	n/a	cement by hand to surface
Surface	12 1/4	9 5/8	337	New	26.0	84, 42	Yes, 5 bbl to pit
Coal							
Intermediate 1	8 7/8	7	2111	New	17.0	295	Yes, 5 lb to pit
Intermediate 2							
Intermediate 3							
Production	6 1/2	4 1/2	4658	New	11.6	joints: 7, 14, 21, 28, & 35	Grouted 7" w/ 3 bbl
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	14
Surface	Type 1	120	14.8	1.40	168.0	GL	10
Coal							
Intermediate 1	Unifillight/Class A	155/125	12.7/15.6	1.84/1.18	285.2/147.5	GL	12
Intermediate 2							
Intermediate 3							
Production	Strong Lite 250	185	12.3	2.34	432.9	4658	14
Tubing							

Drillers TD (ft) 4682 Loggers TD (ft) 4660
 Deepest formation penetrated Devonian Shale Plug back to (ft) 4658
 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": no centralizers used _____
 4 1/2": 6 at joints: 6, 13, 20, 27, 34, & 41 _____

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 _____

