

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

API 47-039-06327 County Kanawha District Elk
Quad Big Chimney Pad Name n/a Field/Pool Name n/a
Farm name Central WV Regional Airport Well Number Yeager #2
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 602,865 (4248088) 38,379,478.4 Easting 1,798,012 (170448052) 781,594,754.9
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 785 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 12/19/2011 Date drilling commenced 08/27/2013 Date drilling ceased 09/06/2013
Date completion activities began n/a Date completion activities ceased n/a
Verbal plugging (Y/N) n/a Date permission granted n/a Granted by n/a
NOV 25 2013

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

Freshwater depth(s) ft n/a Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 768, 1011 Void(s) encountered (Y/N) depths RECEIVED
Coal depth(s) ft 1062 - 1065 Cavern(s) encountered (Y/N) depths Office of Oil and Gas
Is coal being mined in area (Y/N) NO

OCT 15 2013
Reviewed by:

WV Department of Environmental Protection
12/06/2013

WR-35
Rev. 8/23/13

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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	18.00	New	48.0	none	No, cement by hand to surface
Surface	12 1/4	9 5/8	336.00	New	26.0	1 at 84'	yes, 5 bbls to pit
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 3/4	7	1646.00	New	17.0	1 at 295'	yes, 5 bbls to pit
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	7
Surface	Type 1	120	14.8	1.4	168	GL	13
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Type 1	225	14.8	1.4	315	GL	16
Tubing							

Drillers TD (ft) 4326 Loggers TD (ft) 4336
 Deepest formation penetrated Devonian Shale 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 _____
13 3/8": no centralizers used
9 5/8": 1 centralizer used at joint 6
7": 3 centralizers used at joints: 10, 20, 34

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 _____

