

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

API 47-039-06326 County Kanawha District Elk  
Quad Charleston East Pad Name n/a Field/Pool Name n/a  
Farm name Central WV Regional Airport Well Number Yeager #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 500,145 (4247259) 30.319736 Easting 4,795,996 (20447437) 81.6017295  
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 08/09/2013 Date drilling ceased 08/22/2013  
Date completion activities began 09/03/2013 Date completion activities ceased 09/03/2013  
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 60 Open mine(s) (Y/N) depths NO  
Salt water depth(s) ft 855 Void(s) encountered (Y/N) depths NO  
Coal depth(s) ft 1164 - 1174 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  
NOV 25 2013  
RECEIVED  
Office of Oil and Gas  
Environmental Protection  
OCT 19 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	18.00	New	48.0	None	No, hand cemented to surface
Surface	12 1/4	9 5/8	336.00	New	26.0	1 at 84'	Yes, 3 bbl to pit
Coal							
Intermediate 1	8 7/8	7	1735.00	New	17.0	1 at 295'	Yes, 5 bbl to pit
Intermediate 2							
Intermediate 3							
Production	6 1/2	4 1/2	4395.25	New	11.6	6 at joints: 11,21,31,41,51	
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Portland	7				GL	14
Surface	Type 1	120	14.8	1.4	168	GL	13
Coal							
Intermediate 1	Type 1	225	14.8	1.4	315	GL	13
Intermediate 2							
Intermediate 3							
Production	Tufflite	140	12.0	2.49	348.6	4424	10
Tubing							

Drillers TD (ft) <sup>4424</sup> \_\_\_\_\_ Loggers TD (ft) <sup>4436</sup> \_\_\_\_\_  
 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 7  
7": 3 centralizers used at joints: 10, 20, 30  
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 \_\_\_\_\_





