

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

API 47-039-06353 County Kanawha District Union  
Quad Pocatalico Pad Name n/a Field/Pool Name n/a  
Farm name Davis, Peggy (Heirs) Well Number Davis #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 595,347 (42 42 8 43) 38.3855465 Easting 4,760,604 (0436622) - 81.725673  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1006 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 3/20/2013 Date drilling commenced 4/26/2013 Date drilling ceased 5/10/2013  
Date completion activities began 6/5/2013 Date completion activities ceased 6/5/2013  
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 105 Open mine(s) (Y/N) depths NO  
Salt water depth(s) ft 1388 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

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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	21	New	48.0		cemented by hand to surface
Surface	12 1/4	9 5/8	337	New	26.0	1 at 84'	yes, 5 bbls to pit
Coal							
Intermediate 1	8 7/8	7	2152	New	17.0	1 at 295'	yes, 5 bbls to pit
Intermediate 2							
Intermediate 3							
Production	6 1/2	4 1/2	4675	New	11.6	5 at joints: 20,30,40,50,60	No, cement 200' up inside 7"
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	10
Surface	Type 1	105	14.8	1.40	147.0	GL	11
Coal							
Intermediate 1	Unifillight/Type 1	152/125	12.7/15.6	1.84/1.20	279.7/150.0	GL	18
Intermediate 2							
Intermediate 3							
Production	Stronglite 250	155	12.3	2.34	362.7	200' above TD 7"	10
Tubing							

Drillers TD (ft) 4700 Loggers TD (ft) 4710  
 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": no centralizers used  
 7": no centralizers 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 \_\_\_\_\_

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**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/5/2013	3686	4575	50	Shale, Lower Huron, Devonian Shale
2	6/5/2013	2848	3642	40	Shale

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/5/2013	54.3	2338	2241	2587	none	11	1,000,473 scf
2	6/5/2013	54.3	2338	2241	2587	none	12	1,000,473 scf

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Shale</u>	<u>2848 - 4253</u>	<u>TVD</u> _____ <u>MD</u>
<u>Lower Huron</u>	<u>4253 - 4293</u>	_____
<u>Devonian Shale</u>	<u>4293 - 4575</u>	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 0 psi Bottom Hole 40 psi DURATION OF TEST 10 hrs

OPEN FLOW Gas 103 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor Kanawha Valley Drilling  
Address 929 Charleston Road City Spencer State WV Zip 25276

Logging Company Nabors Completion & Production Services Co.  
Address 515 West Greens Road, Suite 1100 City Houston State TX Zip 77067

Cementing Company Universal Well Services, Inc.  
Address Rt 5 Hall Road City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Services, Inc.  
Address Rt 5 Hall Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Ryan Fields Telephone 304-927-5033  
Signature Ryan Fields Title clerk Date 10/11/2013

