

WR-35
Rev (9-11)

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

DATE: 10/16/2012
API #: 47-017-04108 F

Farm name: Underwood, Richard A. Operator Well No.: G Rogers 1

LOCATION: Elevation: 956' GL Quadrangle: Salem 7.5

District: _____ County: _____
Latitude: 13.795 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 8.584 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Petroleum Development Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
120 Genesis Boulevard Bridgeport, WV 26330	16"	30'	30'	Sanded In
Agent: Bob Williamson	11 3/4"	177'	177'	130
Inspector: David Scranage	8 5/8"	1609'	1609'	511
Date Permit Issued: 03/22/2010	4 1/2"	5045'	5045'	929
Date Well Work Commenced: 04/05/2010				
Date Well Work Completed: 04/06/2010				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 5087'				
Total Measured Depth (ft): 5087'				
Fresh Water Depth (ft.): 50', 270'				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 200'				
Void(s) encountered (N/Y) Depth(s) N				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Gordon Pay zone depth (ft) 2578, 2854
Gas: Initial open flow 84 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 119 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure NT psig (surface pressure) after _____ Hours

Second producing formation Keener (commingled) Pay zone depth (ft) 1893
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

10/16/2012

Date

10/19/2012

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Pioneer Wireline GR/CCL log from 2800' to 1650'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

MIRU Pioneer Wireline & Halliburton: Pioneer ran a GR/CCL to correlate. Set 4 1/2" composite bridge plug @ 2730'.

Halliburton bullheaded 20% HCl acid into well and filled hole with water to pressure test. Pressure tested casing to 3500 psi. Well held pressure. Bled off pressure and turned well back over to perforators.

Pioneer shot the GORDON formation with the following shots(HSC) 9 (2657-61') & 9 (2577-61').Halliburton completed the GORDON formation. The formation was pumped without incident according to schedule. The job was a N2 ASSIST, X-LINK (30Q foam) with 300 sks of 20/40 mesh brown sand. The breakdown pressure was 2484 psi. The well treated at an average foam rate of 21.9 bpm with an average treating pressure of 2700 psi. The final pressures were as follows: ISIP: 2178 psi, 2 min shut-in: 1866 psi, 5 min shut-in: 1736 psi, 10 min shut-in: 1639 psi, 15 min shut-in: 1570 psi. Spotted acid and flushed for second stage

Pioneer set a 4-1/2" composite flow-through fracplug. Set plug @ 1940'. Chased the frac ball to plug and shot The KEENER formation with the following *** Plug Back Details Including Plug Type and Depth(s):

Bridge plug set @ 2730', frac plug set @ 1940', both drilled out & hole cleaned to original TD of 5089'.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

See Attached WR-35 & "Well Log" from original completion of this well (47-017-04108).

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*** shots(HSC): 12 (1906-12') & 4(1893-95').Halliburton completed the KEENER formation. The formation was pumped without incident according to schedule.

The job was a N2 ASSIST, X-LINK (30Q foam) with 286 sks of 20/40 mesh brown sand. The breakdown pressure was 1055 psi. The well treated at an average foam rate of 14.8 bpm with an average treating pressure of 3217 psi. The final pressures were as follows: ISIP: 2970 psi, 2 min shut-in:2069 psi, 5 min shut-in: 1945 psi, 10 min shut-in: 1830 psi, 15 min shut-in: 1775 psi. RDMOL

10/19/2012

Glenn Rogers #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st	Benson	14 (4924' - 4978')	50	550	500	58

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10	Hole damp @ 50'
sand, shale, RR	10	1634	1/2 stream water @270'
Maxton	1634	1722	
sand, shale	1722	1832	gas chk @ 1763' No Show
Big Lime	1832	1922	
sand, shale	1922	1925	gas chk @ 1919' No Show
Big Injun	1925	1974	
sand, shale	1974	2158	gas chk @2103' 10/10 thru 1"/water
Weir	2158	2262	gas chk @2259' 50/10 thru 1"/water
sand, shale	2262	2350	
Berea	2350	2382	
sand, shale	2382	2656	gas chk @2506' 14/10 thru 1"/water
Gordon	2656	2680	
sand, shale	2680	2912	gas chk @2693' 6/10 thru 2"/water
5th	2912	2980	
sand, shale	2980	3236	gas chk @3127' 6/10 thru 2"/water
Warren	3236	3340	
sand, shale	3340	3377	
Speechley	3377	3795	gas chk @3502' 4/10 thru 2"/water
sand, shale	3795	3850	
Balltown	3850	4248	
sand, shale	4248	4266	
Bradford	4266	4427	
sand, shale	4427	4638	
Riley	4638	4861	gas chk @4809' 4/10 thru 2"/water
sand, shale	4861	4906	
Benson	4906	4962	gas chk @4965' 4/10 thru 2"/water
sand, shale		5089	Drillers TD
		5087	Logger TD

10/19/2012