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 #: 47-033-03404

Farm name: Lee, Florence G. Et Al Operator Well No.: Lee 1

LOCATION: Elevation: 1337 GL Quadrangle: Clarksburg 7.5

District: Clark County: Harrison
Latitude: 8,280 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 2,040 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: Petroleum Development Corporation

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	290'	290'	351
Agent: Bob Williamson	8 5/8"	1363'	1363'	351
Inspector: Tim Bennett	4 1/2"	4834'	4834'	722
Date Permit Issued: 3-5-2010				
Date Well Work Commenced: 3/15/2010				
Date Well Work Completed: 3/15/2010				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☐ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 4868'				
Total Measured Depth (ft): 4868'				
Fresh Water Depth (ft.): 200', 400'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 250-54, 390-94, 1118-20				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation 5th Sand Pay zone depth (ft) 2701
Gas: Initial open flow 103 MCF/d Oil: Initial open flow ——— Bbl/d
Final open flow 83 MCF/d Final open flow ——— Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 70 psig (surface pressure) after 24 Hours

Second producing formation_____ Pay zone depth (ft)_____
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 JW Wireline GR/CCL from 4868-2300.

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:

3/15/2010: MIRU JW Wireline & run GR/CCL log from 4868-2300. Set Bridge Plug at 2750 and RU Halliburton & bullhead 20% HCl into well & filled hole w/water to pressure test. Press. test csg to 3500 psi. Test OK. Bleed off pressure & Perforate from 2701-2706 (10) & 2715-2720 (10) (Fifth SS).Halliburton pumped an N2 assist X-link with 302 sks of 20/40 brown sand. Break at 1776 psi & avg treating foam rate was 19.6 BPM & ATP was 2153 psi. ISIP = 1844psi, 5min = 1571 psi, 10 min = 1448 psi, 15 min = 1305 psi RDMO Halliburton. 3/16/2010: RU EC & RU swab tools and swab to TD and RU to run tubing & release and trip Bridge Plug out. Release Energy Contractors. 4/7/2012: RU PDC Rig #223 & tag TD at 4800' & swab dry & TIL.

Plug Back Details Including Plug Type and Depth(s): Temp RBP at 2750' pulled after frac.

Formations Encountered: Top Depth / Bottom Depth

Surface:

See Attached WR-35 & "Well Log" from original completion of this well (47-033-3404).

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1ST	BENSON	13 (4753 - 4757)	100	500	500	69

648 BBLS SAND LADEN FLUID

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
KB - GL	0	10	
sand, shale, RR	10	1660	1/2" stream H20 @ 200'
Little Lime	1660	1676	1/2" stream H20 @ 400'
sand, shale	1676	1700	
Big Lime	1700	1764	
Big Injun	1764	1853	
sand, shale	1853	2202	
Gantz	2202	2214	
50 ft	2214	2260	gas check @ 2281' no show
30 ft	2260	2300	
sand, shale	2300	2334	
Gordon	2334	2408	gas check @ 2406' 6/10 - 1" H20
sand, shale	2408	2590	
4th	2590	2640	
sand, shale	2640	2694	
5th	2694	2732	gas check @ 2720' 6/10 - 1" H20
sand, shale	2732	3289	
Speechley	3289	3412	
sand, shale	3412	3534	
Balltown	3534	3626	gas check @ 3588' 18/10 - 2" H20
sand, shale	3626	3790	
Bradford	3790	4070	
sand, shale	4070	4538	gas check @ 4304' 16/10 - 2" H20
Riley	4538	4606	gas check @ 4584' 16/10 - 2" H20
sand, shale	4606	4736	
Benson	4736	4788	gas check @ 4772' 26/10 - 2" H20
sand, shale	4788	4868	Driller TD 12/10 - 2" H20
		4864	Logger TD

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORP.
Well Operator

By: [signature]

Date: 4/21/87

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

10/19/2012