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#:	47-033-03388	F

Farm name: Angotti, Michael, Et Al	Operator Well	No.:Jarvis 1	Α	
LOCATION: Elevation: 1201' GL	Quadrangle:	Clarksburg 7.5	· 	
District: Clark	County: Han	ison		
Latitude: 8,430 Feet South of 39 Deg.	17 Min.			
Longitude 3,630 Feet West of 62 Deg.	20 Min.			
· · · · · · · · · · · · · · · · · · ·				
Company: Petroleum Development Corporation			<del></del>	
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Coment fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	38'	38'	Sanded in
Agent: Bob Williamson	8 5/8"	1225'	1225'	351
Inspector: Tim Bennett	4 1/2"	4691'	4691'	748
Date Permit Issued: 08/06/2007				
Date Well Work Commenced: 7/15/2008				
Date Well Work Completed: 7/18/2008				
Verbal Phygging:				
Date Permission granted on:				]
Rotary Cable Rig				•
Total Vertical Depth (ft): 4743'				
Total Measured Depth (ft): 4743'				
Fresh Water Depth (ft.): 990'				<u>                                     </u>
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None Reported				
Void(s) encountered (N/Y) Depth(s) N				
Gas: Initial open flow 237 MCF/d Oil: Initial open flow 51 MCF/d Final open flow	one depth (ft) 4  ow Bb  Bb  48 Hours	2535 N/d N/d	ta on separate sh	eet)
	e depth (ft)			
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow MCF/d Final open flow				
Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) aft		5		
I certify under penalty of law that I have personally examined a	nd om familier	with the inform	ation submitted	on this document and
all the attachments and that, based on my inquiry of those indiv	iduals immedia	tely responsible	for obtaining tl	e information I believe
that the information is true, accurate, and complete.				
# Clar		10/16	3/2012	
Signature	<del></del>		Date	

Were core samples taken? Ye	csNo_XX	Were cutting	ngs caught during drilling	Yes No XX
Were Electrical, Mechanical or	r Geophysical logs record	ed on this well? If yes,	please list Superior Wireling	GR log from 2700' - 1500'.
NOTE: IN THE AREA I FRACTURING OR STIMU DETAILED GEOLOGICA COAL ENCOUNTERED BY	LATING, PHYSICAL ( L RECORD OF THE	CHANGE, ETC. 2). T TOPS AND BOTTO	HE WELL LOG WHIC DMS OF ALL FORM	THE A SUSTEMATIC
Perforated Intervals, Fracturing				
7/15/2008: MIRU BJ Tools & Super				
Fifth Sand with 20 holes from 2535 - 25	89. RDMO Superior & RU BJ S	ervices & pumped a N2 assi:	st Lighbring 1400 fluid system w	ith 48,000 lbs of 30/50 sand &
534 bbls treated fluid & 89,339 SCF of	N2. Break at 2,220 psi & avg.	treating foam rate was 17 i	BPM & ATP was 1,957 psi. ISC	)P=1990psi, 5 min=1,742 psi.
		· <u>- · · · · · · · · · · · · · · · · · ·</u>	-	
Plug Back Details Including Plug	ng Type and Depth(s): Re	etrlevable bridge plug a	at 2610' pulled after job 8	cleaned to original TD.
Formations Encountered: Surface;		Top Depth	1	Bottom Depth
See Attached WR-35 & "V	Vell Log" from origina	al completion of thi	s weil (47-033-3388)	•
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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 (4585 - 4592)	100	400	500	60

## WELL LOG

RMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL	0	10	
sand, shale, RR	10	1562	1/2" stream H2O @ 990
Big Lime	1562	1625	• • • • • • • • • • • • • • • • • • • •
sand, shale	1625	1630	
Keener	1630	1644	
sand, shale	1644	1649	
Big Injun	1649	1708	
sand, shale	1708	2133	gas check @ 1988' no show
30 ft	2133	2157	
sand, shale	2157	2182	
Gordon Stray	2182	2200	
sand, shale	2200	2215	
Gordon	2215	2248	
sand, shale	2248	2390	
4th	2390	2434	
sand, shale	2434	2470	
4th A	2470	2486	
sand, shale	2486	2540	gas check @ 2516 no show
5th	2540	2575	Pas check 6 5310 HD 8HOW
sand, shale	2575	3008	
Upper Speechley	3008	3162	gas check @ 3028' 50/10 - 1" H20
sand, shale	3162	3244	Bab check 6 3020 30/10 - 1 M20
Speechley	3244	3385	
sand, shale	3385	3446	
Balltown	3446	3638	gas check @ 3555' 80/10 - 1" H20
sand, shale	3638	3840	gas check @ 5555 60/10 - 1" H20
Bradford	3840	3924-	•
sand, shale	3924	4388	
Riley	4388	4442	
sand. shale	4442		The state of the s
Benson	4572	4572	gas check @ 4553' 80/10 - 1" H20
sand, shale	4574	4594	gas check @ 4647' 10/10 - 2" H20
same, share	4 2 9 4	4743	Driller TD 76/10 - 1" H20
	1	4736	Logger TD

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION	
Well Operator	
By: /// //	
Date: 172/87	

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 incl., encountered in the drilling of a well."

10/19/2012