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	j
API#:	47-033-03797	W

ON: Elevation: 1343' GL	Quadrangle: Brownton 7.5			
District: Elk	County: Harr	ison		
Latitude: 10,700 Feet South of 39 Deg.	12 Min.	30 Sec.		
Longitude 9,850 Feet West of 80 Deg.	12 Min.	Sec.		•
Company: Petroleum Development Corporation				
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Lest in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	22'	0	
Agent: Bob Williamson	8 5/8"	1341'	1341'	386
Inspector: Tim Bennett	4 1/2"	4647'	4647'	634
Date Permit Issued: 03/23/2009			<u></u>	
				
Date Well Work Commenced.				
Date Well Work Completed.				
Verbal Plugging:				ļ
Date Permission granted on:				
Rotary Cable Rig 🗸				
Total Vertical Depth (ft): 4685'				
Total Measured Depth (ft): 4685'				
Fresh Water Depth (ft.): 165'				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 98-102, 267-71, 520-25, 892-96, 1037-40				1
	<u> </u>	<u> </u>		
Void(s) encountered (N/Y) Depth(s) N		<u> </u>	<u> </u>	
N FLOW DATA (If more than two producing formation	ons please inclu	de additional da	ita on separate s	sheet)
	zone depth (ft)			
Gas: Initial open flow 750 MCF/d Oil: Initial open fl				
Final open flow 193 MCF/d Final open flow				
Time of open flow between initial and final tests	Hours ter ⁷² Hou			
paig (surface pressure) at		13		
second producing formation 5th Sand (commingled) Pay zon	ne depth (ft <u>) ²⁵⁸</u>	34		
Gas: Initial open flowMCF/d Oil: Initial open fl	lowBI	bl/d		
Final open flow MCF/d Final open flow		ol/d		
	Hours			
Time of open flow between initial and final tests Static rock Pressure				

Signature

Date

Were core samples taken? Y	esNo_XX	Were cut	ttings caught during drilli	ing? Yes	No XX
Were Electrical, Mechanical o		led on this well? If y	es, please list JW Wireline	GR/CCL from 3	3200 - 1800.
NOTE: IN THE AREA FRACTURING OR STIMU DETAILED GEOLOGICA COAL ENCOUNTERED B	JLATING, PHYSICAL L RECORD OF THE	CHANGE, ETC. 2). TOPS AND BOT	THE WELL LOG WITOMS OF ALL FOR	HICH IS A SYS	STEMATIC
Perforated Intervals, Fracturin	g, or Stimulating:				
8/19/2009: MIRU JW Wireline &	run GR/CCL log from 3200)-1800. Set SBP @ 266	30' & RU BJ & bullhead 20	% HCl in front of	treated water
& pressure test casing to 348	36 psi. Held OK. Bleed	off pressure & RU.	IW & perforate 12 holes	s from 2644-50	@ 2 SPF.
RU BJ pumped a 30 Q N2 assist X-	link with 15,989 lbs of 20/40	sand & 323 bbls treated	fluid & 120.6 MSCF of N2. E	3reak at 4117 psi 8	avg treating
foam rate was 24 BPM & ATP was 2914 p	si. Well screened out. RDMO BJ 8	& JW. 8/20/2009: RU EC Rig	& clean sand to below perfs. Set (CBP at 2610'. Spot tub	ling for 2nd zone.
BJ RU & spot 12 bbls acid over upper z	one. EC pulled tog & RU JW & p	perf 2584-92 w/16 holes. Ri	DMO BJ.8/25/2009: RU Univers	ai & pumped a 30 Q	N2 assist X-link
with 216 sx of 20/40 sand & 575 bb	is treated fluid & 120.0 MSCF	of N2. Break at 2278 psi	& avg treating foam rate was	18.9 BPM & ATP	was 2754 psi.
Plug Back Details Including P	'lug Type and Depth(s):	3P's at 2680 & 261	0 were drilled out & ho	e cleaned to	original TD.
Formations Encountered: Surface:		Top Depth		Bottom De	<u>apth</u>
See Attached WR-35 & "	'Well Log" from origi	nal completion of	this well (47-033-37	797) .	
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Stuart #4

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
IST	Benson	13 (4569-4572)	. 0	600	500	85

WELL LOG

FORMATION	mon no		REMARKS: FRESH & SALT
FORMATION	TOP FE	ET BOTTOM FEET	WATER, COAL, OIL & GAS
KB - GL		0 10	
sand, shale, Ri	Ř	10 1614	1/2" Stream H2O @ 165'
Little Line		1639	Coal 98=102;267-271
sand, shale		1673	Coal 520-525;892-896
Big Lime		1749	Coal 1037-1040
Big Injun	17	49 1835	
and, shale	18	35 2034	gas chk @ 1883' No Show
antz	. 20	34 2052	•
nd, shale	20	2073	
. ft	20	73 2128	
and, shale		.28 2137	gas chk @ 2069' No Show
30 ft		.37 2167	-
sand, shale		.67 2301	gas chk @ 2224' No Show
Gordon		101. 232 9	••
sand, shale		2449	gas chk @ 2349' No Show
4th		49 2532	
sand, shale		2574	gas chk @ 2537' No Show
5th		2612	
sand, shale		2642	
Bayard		2654	•
sand, shale		54 2932	
Speechley		32 3344	gas chk @ 3291' No Show
sand, shale		3411	
Balltown		3760	gas chk @ 3664' No Show
sand, shale		60 3782	
Bradford		3880	gas chk @ 3850' No Show
sand, shale		4276	
Riley		276 4446	gas chk @ 4417' No Show
sand, shale		46 4548	gas chk @ 4508' No Show
Benson		4544	gas chk @ 4603' 40/10-1"H20
sand, shale	45	4700	Drillers TD No Show DC's 12/10-1"H2O
		4685	Logger TD