

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: JOHN WILCOX

Operator Well No.: BEACH #1

LOCATION: Elevation: 981

Quadrangle: ALUM CREEK

District: WASHINGTON

County: KANAWHA

Latitude: 12,300 Feet South of 38 Deg.

20 Min. 0 Sec.

Longitude: 6,960 Feet West of 81 Deg.

45 Min. 0 Sec.

Company: Base Petroleum, Inc.

Address: Rt. 7, Box 407 1/2
South Charleston, WV 25309

Agent: John B. Wilcox

Inspector: Carlos Hively

Date Permit issued: 9/7/2007

Date Well Work Commenced: 11/3/2008

Date Well Work Completed: 11/11/2008

Verbal Plugging: _____

Date Permission granted on: _____

Rotary Rig YES

Total Depth (feet): 4337

Fresh Water Depth (ft.): 260

Salt Water Depth (ft.): 1168

Is coal mined in area (N/Y)? NO

Coal depths (ft.): _____

Casing & Tubing	Used in drilling	Left in Well	Cement fill Cu. Ft.
13 3/8	30	30	
9 5/8	530	505	218.3
7	1859	1828	449.1
4 1/2	4390	4337	341.4

OPEN FLOW DATA

Producing formation Comingled:
SHALE, BEREA

Gas: Initial open flow SHOW

Final open flow 300

MCF/d No Oil

MCF/d

Static rock Pressure 350 lbs.

in 24 Hrs.

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Office of Oil & Gas
APR 05 2011
WV Department of
Environmental Protection

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: John B. Wilcox
By: Wilcox
Date: 3-9-11

Frac Summary

Stage 1:	Lower Huron	
	500 gal 15%, 1,200,000 scf N2	
	Breakdown pressure	<u>1545 psi</u>
	Average treating pressure	<u>1760 psi</u>
	Max treating pressure	<u>1884 psi</u>
	Average rate	<u>40.4 b.p.m.</u>
	Perforations	<u>4011-4184 ft.</u>
	No. perfs	<u>30</u>
Stage 2:	Upper Huron	
	500 gal 15%, 1,200,000 scf N2	
	Breakdown pressure	<u>1819 psi</u>
	Average treating pressure	<u>1845 psi</u>
	Max treating pressure	<u>2021 psi</u>
	Average rate	<u>40.2 b.p.m.</u>
	Perforations	<u>3683-3965 ft.</u>
	No. perfs	<u>30</u>
Stage 3:	Berea	
	75 Q Foam Frac, 50 gal 15%, 30,000 lb 20/40, 382,000 scf N2	
	Breakdown pressure	<u>2342 psi</u>
	Average treating pressure	<u>2451 psi</u>
	Max treating pressure	<u>2622 psi</u>
	Average rate	<u>6.8 b.p.m.</u>
	Perforations	<u>2487-2490 ft.</u>
	No. perfs	<u>9</u>

Production: Comingled

Before frac	<u> </u>	MCF	Natural
After frac	<u> </u>	MCF	

Formations	Depth Top	Depth Bottom	Remarks
Sand and Shale	<u>0</u>	<u>448</u>	<u> </u>
Sand	<u>448</u>	<u>528</u>	<u> </u>
Sand and Shale	<u>528</u>	<u>779</u>	<u> </u>
Shale	<u>779</u>	<u>928</u>	<u> </u>
Sand and Shale	<u>928</u>	<u>1141</u>	<u> </u>
Salt Sand	<u>1141</u>	<u>1229</u>	<u> </u>
Shale and Sand	<u>1229</u>	<u>1418</u>	<u> </u>
Salt Sand	<u>1418</u>	<u>1485</u>	<u> </u>
Sand and Shale	<u>1485</u>	<u>1625</u>	<u> </u>
Sand	<u>1625</u>	<u>1666</u>	<u> </u>
Shale	<u>1666</u>	<u>1778</u>	<u> </u>
Maxon Sand	<u>1778</u>	<u>1816</u>	<u> </u>
Little Lime	<u>1816</u>	<u>1857</u>	<u> </u>
Big Lime	<u>1857</u>	<u>1990</u>	<u> </u>
Injun Sand	<u>1990</u>	<u>2008</u>	<u> </u>
Shale	<u>2008</u>	<u>2031</u>	<u> </u>
Wier Sand	<u>2031</u>	<u>2063</u>	<u> </u>
Shale	<u>2063</u>	<u>2465</u>	<u> </u>
Coffee Shale	<u>2465</u>	<u>2481</u>	<u> </u>
Berea	<u>2481</u>	<u>2492</u>	<u> </u>
Shale	<u>2492</u>	<u>3681</u>	<u> </u>
Middle Huron	<u>3681</u>	<u>3980</u>	<u> </u>
Lower Huron	<u>3980</u>	<u>4184</u>	<u> </u>
Shale	<u>4184</u>	<u>4368</u>	<u> </u>
TD	<u> </u>	<u>4368</u>	<u>TD</u>