

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: 9/30/13
API #: 4704901384F

Farm name: Bower, Richard Operator Well No.: Brennan E-581

LOCATION: Elevation: 1459' Quadrangle: Shinnston

District: Lincoln County: Marion
Latitude: 615 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 1450 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: Linn Operating Inc.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
PO Box 1008, Jane Lew, WV 26378				
Agent: Gary Beall	9 5/8"	843'	843'	542 sks
Inspector: Bill Hatfield	7"	1818'	1818'	255 sks
Date Permit Issued: 6/09/2008	4 1/2"	4232'	4232'	250 sks
Date Well Work Commenced: 7/31/2008				
Date Well Work Completed: 8/11/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 4274'				
Total Measured Depth (ft): 4274'				
Fresh Water Depth (ft.): 260'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 770-778'				
Void(s) encountered (N/Y) Depth(s) N/A				

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

Producing formation Big Injun, Pocono, 50', 30', Balltown Pay zone depth (ft) 2183 - 4254

Gas: Initial open flow Show MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow Show 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

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

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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

10-7-13
Date

10/11/2013

49-01384F

Were core samples taken? Yes _____ No _____

Were cuttings caught during drilling? Yes _____ No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

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:

8th Stage Balltown 4235-4254' Open hole Crosslink Frac; Breakdown 3800 psig; Avg Treating 4043 psig@ 20.2 bpm; 436 BBL water; 255 sks sand

7th Stage Balltown 4082 - 4097' 38 Shots Crosslink Frac; Breakdown 4400 psig; Avg Treating 4128 psig@19.8 bpm; 421 BBL water, 166 sks sand

Plug Back Details Including Plug Type and Depth(s):

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

No Change

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