

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: 5-7-13
API #: 47-013-04730

Farm name: Joe Frame Operator Well No.: 3 North

LOCATION: Elevation: 706' Quadrangle: Annamoriah 7.5

District: Sheridan County: Calhoun
Latitude: 7930 Feet South of 81 Deg. 11 Min 39.7 Sec.
Longitude 14230 Feet West of 38 Deg. 57 Min 39.7 Sec.

Company: **Francis E. Cain, Cain Oil & Gas**

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
5945 W Little Kanawha Highway				
Big Bend, WV 26136				
Agent: Francis E. Cain	9 5/8	354'	354'	110 sks
Inspector: Edward Gainer	7	1870'	1870'	280 sks
Date Permit Issued: 08/15/2012				
Date Well Work Commenced: 9/5/12				
Date Well Work Completed: 9/12/12				
Verbal Plugging:				
Date Permission granted on: 8/15/12				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): 5200'				
Total Measured Depth (ft): 5200'				
Fresh Water Depth (ft.): 0				
Salt Water Depth (ft.): 1550'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s)				

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

Producing formation Big Injun Pay zone depth (ft) 1746-1758'

Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/d

Final open flow 60 MCF/d Final open flow 3 Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 200 psig (surface pressure) after 24 Hours

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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.

Francis E. Cain

Signature

5/7/13

Date

11/22/2013

13.04730

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 Electrical

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:

100 gallon HCl Acid

Water fracturing

Perforation 1746-1758 20 perfs

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

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Formations Encountered: **Big Injun** Top Depth 0 / 5200' Bottom Depth

Surface:	Top Depth	Bottom Depth	Formation	Top Depth	Bottom Depth
Shale	0	20			
Sand	20	40			
Shale	40	70			
Sand	170	230			
Red Rock, Shale	230	280	Shale	3140	4002
Sand	280	300	Benson Sand	4002	4008
Red Rock, Shale	300	630	Shale	4008	4122
Sand	630	650	Riley	4122	4132
Shale	650	700			
Shale	1340	1430	Shale	4132	4590
Salt Sand	1430	1630	Alexander	4590	4620
Lime	1630	1735			
Shale	1735	1785	Shale	4620	5138
Big Injun	1785	1810	Hamilton Shale		5148
Shale	1810	1900			
Sand	1900	1980	Shale	5148	5200
Shale	1980	2132			
Sand	2132	2135			
Shale & Shell	2135	2490			
Gordon Sand	2490	2495			
Shale	2495	3130			
Sand Balltown	3130	3140			
Shale	3140	4002			

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