

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: 7/24/13  
API #: 47-013-  
4730

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

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 dba Cain Oil and Gas

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>5945 W Lt1. Kanawha Hwy.</u> <u>Big Bend, WV 26136</u>	<u>9 5/8</u>	<u>354'</u>	<u>354'</u>	<u>110 sks</u>
Agent: <u>Francis E. Cain</u>	<u>7</u>	<u>1870'</u>	<u>1870'</u>	<u>280 sks</u>
Inspector: <u>Edward Gainer</u>				
Date Permit Issued: <u>8/15/12</u>				
Date Well Work Commenced: <u>9/5/12</u>				
Date Well Work Completed: <u>9/12/12</u>				
Verbal Plugging:				
Date Permission granted on: <u>8/15/12</u>				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): <u>5200'</u>				
Total Measured Depth (ft): <u>5200'</u>				
Fresh Water Depth (ft.): <u>0</u>				
Salt Water Depth (ft.): <u>1550'</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>None</u>				
Void(s) encountered (N/Y) Depth(s)				

Received  
AUG 25 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection

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

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

Received

AUG 19 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

7/24/13

Date

11/08/2013

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

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

Formations Encountered:	Top Depth	Bottom Depth
Surface:		
Shale	0	20
Sand	20	40
Shale	40	70
Sand	170	230
Red Rock, Shale	230	280
Sand	280	300
Red Rock, Shale	300	630
Sand	630	650
Shale	650	700
Shale	1340	1430
Salt Sand	1430	1630
Lime	1630	1735
Shale	1735	1785
Big Injun	1785	1810
Shale	1810	1900
Sand	1900	1980
Shale	1980	2130
Sand	2130	2060
Shale	2060	2120
Sand	2120	2165
Shale	2165	2220
Sand	2220	2230
Shale & sand	2330	2345
Shale	2345	2400
Sand	2400	5220'

11/08/2013