

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 7/29/13
API #: 47-5902240

Farm name: BURNING CK MARROWBONE LAND CO Operator Well No.: BNR 11

LOCATION: Elevation: 1217 Quadrangle: NAUGATUCK

District: KERMIT County: MINGO
Latitude: 14568 Feet South of 37 Deg. 50 Min. 30 Sec.
Longitude 870 Feet West of 82 Deg. 20 Min. 00 Sec.

Company: TUG FORK DEVELOPMENT

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
3930 BRANDYWINE DR CATLETTSBURG, KY 41129	13.5	30	30	DRIVE PIPE
Agent: IRA DAVID BARTRAM	9.625	480	480	195
Inspector: JEREMY JAMES	7	2135	2135	332
Date Permit Issued: 1/7/13	4.5	3868	3868	237
Date Well Work Commenced: 1/28/13				
Date Well Work Completed: 5/24/13				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 3890				
Total Measured Depth (ft): 3890				
Fresh Water Depth (ft.): 435				
Salt Water Depth (ft.): 1912				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 435				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation LOWER HURON Pay zone depth (ft) 3594-3804

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 162 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 280 psig (surface pressure) after 72 Hours

Second producing formation INJUN Pay zone depth (ft) 2298-2308

Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 286 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 380 psig (surface pressure) after _____ Hours

Received

JUL 31 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.

[Signature]
Signature

7/29/13
Date

59-02240

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list gamma ray, neutron, temp,
Induction, audio, PE

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:

1ST STAGE DEVONIAN SHALE 3594-3804 (56 HOLES) 1.5 MMSCF N2

2ND STAGE INJUN 2298-2308 10 HOLES 4 MMSCF

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

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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SAND AND SHALE 0-435

COAL 435-440

SAND AND SHALE 440-1440

SALT SAND 1440-1840

SAND AND SHALE 1840-1900

MAXON 1900-1960

LIME AND SAND 1960-2094

BIG LIME 2094-2288

INJUN 2288-2340

GRAY SLATE 2340-2882

COFFEE SHALE 2882-2894

BEREA 2894-2922

GRAY SHALE 2922-3612

LOWER HURON 3612-3810

GRAY SHALE 3810-3890