

WR-35

API# 47-045-01870

Revised: 9-27-2011

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Feamster Operator Well No. 214
Location: Elevation: 1182' Quadrangle: Mallory 7.5
District: Triadelphia County: Logan
Latitude: 2,645 Feet South of 37 Degrees 45 Minutes 00 Seconds
Longitude: 10,295 Feet West of 81 Degrees 50 Minutes 00 Seconds

Company: Jackson Resources Co.
P. O. Box 498
Hamlin, WV 25523

Agent: Dale Coleman
Inspector: Ralph Triplett
Permit Issued: 6/19/2006
Well work Commenced: 10/9/2007
Well work Completed: 10/21/2007
Verbal Plugging Permission granted on: NA
Rotary X Cable Tool Rig
Total Depth (ft): LTD- 5014' DTD- 5016'
Fresh Water Depths (ft): none reported
Salt Water Depths (ft): none reported
Is coal being mined in area: No
Coal Depths: none reported

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	33'	33'	
9 5/8"	927'	927'	448
7"	2391'	2391'	570
4 1/2"		4961'	237

OPEN FLOW DATA:

Producing formation(s): Big Lime, Berea, Lower & Middle Huron Pay zone depth (ft) See back
Gas: Initial open flow 1,000 MCF/D Oil: Initial open flow 0 Bbl/d
Final open flow 112 MCF/D Final open flow 0 Bbl/d
Time of open flow between initial and final tests: 72 Hours
Static rock pressure 55 psig (surface pressure) after Hours
Second producing formation(s): Pay zone depth (ft) See back
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

NOTE: ON THE 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.

FOR: JACKSON RESOURCES Co.
BY: Dale Coleman
DATE: 3/5/2012

RECEIVED
Office of Oil & Gas

MAR 08 2012

WV Department of
Environmental Protection
03/09/2012

All depths taken from "Open Hole" e-log

10/30/2007

Well producing naturally from Big Lime, will fracture sometime in the future.

7/21/2011

MIRU service rig, swab well to 2800', RDMO service rig.

7/22/2011

MIRU Superior Well Services, perforate 4 cement holes at 2805'. MIRU BJ Services, pump 10 Bbls water, 10 Bbls gel, 72 Bbls water (break circulation), pump 15 Bbls (65sk) Type I + 3% CaCl (15.6 ppg, 1.21cf/sk), displace with 45Bbl water and cement plug to a depth of 2770', 1440psi. Bleed off to 1150psi, shut-in well. RDMO Superior Well Services and BJ Services.

7/26-27/2011

MIRU service rig, drill out cement plug and cement, run sinker bar to TD. RDMO service rig.

8/5/2011

MIRU Superior Well Services, run Gamma Ray, CCL/VDL Cement Bond log, cement bond good, top at 2481'. MIRU BJ Services to stimulate Lower Huron shale:

RIH Upsi with 3 1/8" hollow gun, perforate 6 holes from 4852-4857', breakdown, displace water with N2.

RIH Upsi with 3 1/8" SF perforating gun, perforate Lower Huron, 3 1/16" baffle at 4836'.

1st Stage, Lower Huron (4598-4735', 20 holes) Nitrogen Frac

9 Bbls. (375 gals) 15% HCl and frac ball, 748 Mscf N₂, N₂ flush (Total Stage Products, TSP)

Dropped 20 perf balls in five stages

BKDN - 2119 psi, ATP - 2448 psi, AIR - 44,715 scf/m, ISIP - 1918 psi, 3 Min SI - 1683 psi

RIH Upsi with 3 1/8" SF perforating gun, perforate Middle Huron, 3 5/16" frac baffle at 4554'.

2nd Stage, Middle Huron (4309-4479', 17 holes) Nitrogen Frac

9 Bbls. (375 gals) 15% HCl and frac ball, 755 Mscf N₂, N₂ flush (Total Stage Products, TSP)

Dropped 15 perf balls in four stages

BKDN - 2717 psi, ATP - 2937 psi, AIR - 48,606 scf/m, ISIP - 1928 psi, 3 Min SI - 1562 psi

Open well - flowback

8/17/2011

MIRU Superior Well Services. MIRU BJ Services to stimulate the Berea and Big Lime:

RIH Upsi with 3 1/8" SF perforating gun, perforate Berea, 3 7/16" frac baffle at 3474'.

3rd Stage, Berea (3264-3274', 16 holes) 75 Quality Foam Frac

12 Bbls. (500 gals) 15% HCl and frac ball, 47,000 lbs. 20/40 sand, 1-3 ppg,

224 Bbls. Twtr, 463 Mscf N₂

BKDN – 1510 psi, ATP – 1647 psi, AIR – 5.4 BPM, ISIP – 1638 psi, 3 Min SI – 1582 psi

RIH Upsi with 3 1/8" Hollow gun, perforate Big Lime, 3 9/16" frac baffle at 2898'.

4th Stage, Big Lime (2627-2637', 12 holes) Energized Acid Frac62 Bbls. (2,583 gals) 15% HCl and frac ball, 151 Mscf N₂, N₂ flush

BKDN – 3023 psi, ATP – 1506 psi, AIR – 10 BPM, ISIP – 1717 psi, 3 Min SI – 1119 psi

RIH Upsi with 3 1/8" Hollow gun, perforate Big Lime, drop 17 perf balls

4th Stage, Big Lime (2608-2612', 5 holes) Energized Acid Frac30 Bbls. (1,250 gals) 15% HCl and frac ball, 151 Mscf N₂, N₂ flush

BKDN – 1659 psi, ATP – 1872 psi, AIR – 10 BPM, ISIP – 1305 psi, 3 Min SI – 1305 psi

RDMO Superior Well Service and BJ Services

Open well – flowback

Formation Depths taken from Gamma Ray Log

Sub base	0	-	10'
Shale & Sand	10	-	100'
Sand & Shale	100	-	305'
Shale & Sand	305	-	495'
Sand	495	-	560'
Shale & Siltstone	560	-	685'
Sand	685	-	990'
Shale & Sand	990	-	1185'
Salt Sands	1185	-	1820'
Shale & Sand	1820	-	1940'
Upper Maxon Sand	1940	-	2028'
Shale & Sand	2028	-	2220'
Middle Maxon Sand	2220	-	2262'
Shale & Sand	2262	-	2315'
Lower Maxon Sand	2315	-	2330'
Shale	2330	-	2362'
Little Lime	2362	-	2423'
Big Lime	2423	-	2642'
Shale & Siltstone	2642	-	2712'

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Weir	2712	-	2897'	
Shale	2897	-	3227'	
Sunbury	3227	-	3253'	
Berea	3253	-	3282'	
Shale	3282	-	4307'	
Middle Huron	4307	-	4539'	
Lower Huron	4539	-	4744'	
Java	4744	-	4876'	
Pipe Creek	4876	-	4880'	
Angola	4880	-	5014'	LTD Gas Check 5014'--1,000 Mcf

Well Logged by Allegheny Wireline Services

LTD 5014'

DTD 5016'
