

WR-35
Rev (8-10)

Date May 29, 2013
API # 47 033 - 04975

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

Farm Name: Carnes, Richard & Patricia Operator Well No.: Gerrard 2106

LOCATION: Elevation: 1122' Quadrangle: Wolf Summit
District: Sardis County: Harrison
Latitude: 2762' feet South of 39 DEG. 20' MIN. 00" SEC.
Longitude: 7537' feet West of 80 DEG. 22' MIN. 30" SEC.

Company:

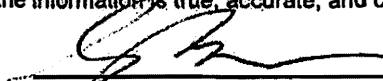
Linn Operating LLC	Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
Address: PO Box 1008 Jane Lew, WV 26378	13 3/8"		44'	Sand In
Agent: Gary Beall Inspector: Tim Bennett	9 5/8"	348'	348'	105 sks
Date Permit Issued: 11/6/2007				
Date Well Work Commenced: 2/4/2008	7"	1275'	1275'	115 sks
Date Well Work Completed: 2/21/2008				
Verbal Plugging: Date Permission granted on:	4 1/2"	4700'	4621'	145 sks
X Rotary Cable Rig	RECEIVED Office of Oil & Gas JUN 06 2013 WV Department of Environmental Protection			
Total Vertical Depth (ft): 4700'				
Total Measured Dept 4700'				
Fresh Water Depth (ft.): 50'				
Salt Water Depth (ft.): NA				
Is coal being mined in area (N/Y) ? N				
Coal Depths (ft): 50-55', 345-348'				
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 Benson, Balltown, Speechley Pay Zone _____
Depth (ft) 2901 - 4458'
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

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

5-31-13

Date

06/07/2013

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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:

1	4448-4458'	Linear Gell Frac: Breakdown 3000 psig; Avg Treating 2093 psig @ 25.5 bpm; 325 sacks 20/40 sand; 486 bbls slurry; ISIP 1450 psig. Standard cubic feet N2: 52,000
2	3225-3254'	Linear Gell Frac: Breakdown 3000 psig; Avg Treating 1760 psig @ 25.5 bpm; 275 sacks 20/40 sand; 414 bbls slurry; ISIP 1280 psig. Standard cubic feet N2: 4900
3	3150-3154'	Linear Gell Frac: Breakdown 2800 psig; Avg Treating 2454 psig @ 21.6 bpm; 150 sacks 20/40 sand; 277 bbls slurry; ISIP 1260 psig. Standard cubic feet N2: 37000
4	3020-3025'	Linear Gell Frac: Breakdown 2800 psig; Avg Treating 2767 psig @ 21.6 bpm; 200 sacks 20/40 sand; 320 bbls slurry; ISIP 1320 psig. Standard cubic feet N2: 45000.
5	2901-2936'	Linear Gell Frac: Breakdown 3400 psig; Avg Treating 2166 psig @ bpm; 250 sacks 20/40 sand; 359 bbls slurry; ISIP psig. Standard cubic feet N2:46000

Formations Encountered:	Top Depth	Bottom Depth
<u>Surface:</u>		
No change in depth		
Fill	0'	15
Shale	15	50
Coal	50	55
Sand/Shale	55	115
Red Rock	115	140
Sand/Shale	140	230
Red Rock	230	250
Sand Shale	250	280
Red Rock	280	300
Sand/shale	300	315
Sand	315	345
Coal	345	348
Sand/Shale	348	450
Sand	450	520
Sand/Shale	520	560
Sand	560	600
Sand/shale	600	720
Shale	720	885
Sand	885	925
Red Rock	925	950
Sand/Shale	950	980
Sand/Shale	980	1160

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Red Rock	1160	1195
Shale	1195	1205
Red Rock	1205	1225
Sand	1225	1340
Big Lime	1340	1380
Sand/Shale	1380	1400
Big Injun	1400	1435
Sand/Shale	1435	1920
50'	1920	1960
Sand/Shale	1960	2010
30'	2010	2060
Sand/Shale	2060	2075
Gordon	2075	1205
Sand/Shale	1205	2280
4th	2280	2320
Sand/Shale	2320	2345
5th	2345	2380
Sand/Shale	2380	2480
Sand	2480	2614
Shale	2614	2780
Sand	2780	2895
Shale	2895	3255
Balltown	3255	3290
Sand/Shale	3290	3520
Bradford	3520	3560
Sand/Shale	3560	4450
Benson	4450	4470
Shale	4470	4540
Sand/Shale	4540	4700