

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

Farm Name: Sheila Lightfoot, Et Al Operator Well No.: E-0639

LOCATION: Elevation: 1257' Quadrangle: Shinnston
District: Lincoln County: Marion
Latitude: 1200' feet South of 39 DEG. 30 MIN. 00 SEC.
Longitude: 4455 feet West of 80 DEG. 17 MIN. 30 SEC.

Company: Linn Operating, Inc
480 Industrial Park Road
Jane Lew, WV 26378

Agent: Gary Beall
Inspector: Tim Bennett
Permit Issued: 8/12/2005
Well Work Commenced: November 28, 2005
Well Work Completed: December 20, 2005
Verbal Plugging: _____
Permission granted on:
Rotary X Cable _____
Total Depth (feet) 4037'
Fresh Water Depths (ft) 49', 250'
Salt Water Depths (ft) N/a
Is coal being mined in area (Y / N) ? N
Coal Depths (ft) 110', 160', 355', 455', Open mine at 575'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
13"	605'	605'	C.T.S.
9 5/8"	630'	630'	C.T.S.
7"	1830'	1830'	C.T.S.
4 1/2"	4037'	4037'	195 sks

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OPEN FLOW DATA

Producing Formation Big Injun, Gordon, 5th Sand, Balltown Pay Zone Depth (ft) 1965-3866
Gas: Initial Open Flow Show MCF/d Oil: Initial Open Flow Show Bbl/d
Final Open Flow 70 MCF/d Final Open Flow Show Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock pressure _____ 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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Linn Operating, Inc.

By: _____

Date: 7-29-13

49-01619

Form IV-35
(Reverse)

Well # E-0639
API # 47-049-01018

Details Of Perforated Intervals, Fracturing, or Stimulating Physical Change Etc

1	1985' - 2001'	20 Shots	N2 Assist, Sand & Water
2	2751' - 2882'	20 Shots	N2 Assist, Sand & Water
3	2862' - 2985'	19 Shots	N2 Assist, Sand & Water
4	3882' - 3886'	16 Shots	N2 Assist, Sand & Water

Formation color hard or soft	Top Feet	Bottom Feet	Remarks
Dirt	0	76	H2O 48'
Shale	76	110	
Coal	110	115	
Shale	115	160	
Coal	160	168	
Sand/Shale	168	210	
Shale	210	355	H2O 250'
Coal	355	359	
Shale	359	380	
Sand/Shale	380	455	
Coal	455	458	
Shale	458	485	
Sand	485	500	
Shale	500	520	
Sand/Shale	520	575	
Open Mine	575	585	
Sand/Shale	585	700	
Sand	700	730	
Shale	730	755	
Sand	755	820	
Shale/Sand	820	895	
Shale	895	980	
Sand	980	1220	
Sand/Shale	1220	1300	
Sand	1300	1380	
Shale	1380	1460	
Sand/Shale	1460	1630	
Sand	1630	1805	
L Lime	1805	1830	
Shale	1830	1867	
B Lime	1867	1945	
Sand	1945	2025	
Shale	2025	2035	
Sand	2035	2200	
Sand/Shale	2200	2240	
Sand	2240	2460	
Sand/Shale	2460	2515	
Sand	2515	2610	
Shale	2610	2640	
Red Rock	2640	2740	
Red Rock/Shale	2740	2830	
Shale	2830	3240	
Sand/Shale	3240	3350	
Shale	3350	3480	
Sand/Shale	3480	3790	
Sand	3790	3885	
Shale	3885	3980	
Sand	3980	4010	
Shale	4010	4037	

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08/02/2013