

WR-35
Rev (5-01)

DATE: 3-1-2010
API #: 47-33-05161

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Galvan, Jane & C. Terneus

Operator Well No.: Galvan #1

LOCATION: Elevation: 1149'

Quadrangle: Brownston 7.5

District: Simpson

County: Harrison

Latitude: 1550

Feet South of 39

Deg. 12

Min. 30

Sec.

Longitude: 3550

Feet West of 80

Deg. 12

Min. 30

Sec.

Company: Gastar Exploration USA, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Ca. Ft.
Address: 1331 Lamar, Suite 1080	13 3/8"	30'		Sand
Houston, Texas 77010	9 5/8"		336'	105
Agent: William M. Herlihy	7"		1992'	323
Inspector: Tim Bennett	4 1/2"		4500'	246
Date Permit Issued: 9/22/88	2 7/8"		3938'	bone
Date Well Work Commenced: 1/22/09				
Date Well Work Completed: 5/06/09				
Verbal Plugging:				
Date Permission granted on: 1/20/09				
Rotary X Cable Rig				
Total Depth (feet): 4639				
Fresh Water Depth (ft.): 98,303, 518				
Salt Water Depth (ft.): 1965				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 104-106				

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Office of Oil & Gas

JUN 12 2013

WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 4358-62
 Gas: Initial open flow 34 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 606 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 1650 psig (surface pressure) after 96 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 A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Randy Sleeth
 By: _____
 Date: 3/1/10

06/14/2013

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	Galvan #1		47-33-05161	
Fill	Brown	Soft	0-6	
Shale	Gray	Med	6--12	
Red Rock	Red	Med	12--16	
Sandy & Shale	Gray	Med	16-98	
Shale	Gray	Soft	98-104	damp @ 98'
Coal	Black	Soft	104-106	
Sandy Shale	Gray	Med	106-231	
Sand	Gray	Med	231-270	
Shale	Gray	Soft	270-305	3" stream @ 3031
Sand	Gray	Med	305-318	
Sandy Shale	Gray	Med	318-510	
Shale	Gray	Soft	510-518	damp @ 518'
Sand & Shale	Gray	Med	518-850	
Sand	Light Gray	Med	850-1022	
Sandy Shale	Gray	Med	1022-1430	
Big Lime	Dark Gray	Hard	1430-1482	
Big injun	Brown	Hard	1482-1598	
Sandy Shale	Gray	Soft	1598-1876	
Gantz Sand	Light Gray	Hard	1876-1922	2 1/2" Brine @ 1965'
Sand & Shale	Gray	Med	1922-2134	
Gordon Sand	Gray	Hard	2134-2146	
Shale & Sand	Gray	Med	2146-2382	
Fifth Sand	Gray	Hard	2382-2423	
Sandy Shale	Gray	Med	2423-2883	
Sand	Gray	Med	2883-2895	
Sandy Shale	Gray	Med	2895-4358	
Sand	Gray	Hard	4358-4400	
Sandy Shale	Gray	Med	4400-4639	

06/14/2013

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Galvan Frac.txt

Benson Sand Perforations: 4358-4362 with 12 Holes

broke down w/500 gal. 15% HCL Acid, Fraced w/63.400# 30/50 sand, 2002 Bbls. Sand Laden Fluid.