

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

DATE: 1-2-2012
API #: 047-049-2192

Farm name: PERRY HUGHES Operator Well No.: HUGHES #1 - LBJ #17

LOCATION: Elevation: 1253' Quadrangle: SHINNSTON

District: MANNINGTON County: MARION
Latitude: 1490 Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 9925 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: LBJ ENERGY ASSOCIATES, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>PO Box 930</u> <u>BRIDGEPORT, WV 26330</u>				
Agent: <u>BRADLEY THOMAS</u>	<u>13 3/8"</u>	<u>40'</u>	<u>40'</u>	<u>—</u>
Inspector: <u>WILLIAM HENDERSON</u>				
Date Permit Issued: <u>11-10-2011</u>	<u>9 5/8"</u>	<u>508'</u>	<u>508'</u>	<u>CTS</u>
Date Well Work Commenced: <u>11-29-2011</u>				
Date Well Work Completed: <u>12-3-2011</u>	<u>7"</u>	<u>1610'</u>	<u>1610'</u>	<u>220SKS</u>
Verbal Plugging:				
Date Permission granted on:	<u>4 1/2"</u>	<u>2928'</u>	<u>2828'</u>	<u>195SKS</u>
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): <u>2948' DTD</u>				
Total Measured Depth (ft): <u>2952' LTD</u>				
Fresh Water Depth (ft.): <u>50', 250', 340'</u>				
Salt Water Depth (ft.): <u>NONE ENCOUNTERED</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>30'-322', 432'-440', 820'-828'</u>				
Void(s) encountered (N/Y) Depth(s) <u>NO</u>				

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

Producing formation 5th SAND, GORDON Pay zone depth (ft) 2589-2823'

Gas: Initial open flow SHOW MCF/d Oil: Initial open flow — Bbl/d

Final open flow: 189 MCF/d Final open flow — Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 140" psig (surface pressure) after 12 Hours

Second producing formation 50', SQUAW, FAYUW Pay zone depth (ft) 1886-2421

Gas: Initial open flow SHOW MCF/d Oil: Initial open flow — Bbl/d

Final open flow COMMINGLED MCF/d Final open flow — Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure COMMINGLED psig (surface pressure) after 12 Hours

RECEIVED
Office of Oil & Gas

JAN 06 2012

WV Department 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.

Bradley W. Thomas
Signature

1-2-2012
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Y Electrical, Y Mechanical, N or Geophysical logs recorded on this well?
 Y/N Y/N Y/N

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:

STAGE 1 (2810-2813) 12 holes, 500gal Hcl, 100SKS SAND, 150 BBL X-LINK GELLED FLUID W/N₂ ASSIST
 STAGE 2 (2655-2704) 6 holes, 500gal HCL, 100 SKS SAND, 210 BBL X-LINK GELLED FLUID W/N₂ ASSIST
 STAGE 3 (2589-2618) 6 holes, 500gal HCL, 100SKS SAND, 210 BBL X-LINK GELLED FLUID W/N₂ ASSIST
 STAGE 4 (2320-2421) 19 holes, 750gal HCL, 100SKS SAND, 230 BBL X-LINK GELLED FLUID W/N₂ ASSIST
 STAGE 5 (1924-1932) 16 holes, 500gal Hcl, 175 SKS SAND, 200 BBL X-LINK GELLED FLUID W/N₂ ASSIST
 STAGE 6 (1876-1900) 18 holes, 500gal Hcl, 200 SKS SAND, 210 BBL X-LINK GELLED FLUID W/N₂ ASSIST

Formations Encountered: Top Depth / Bottom Depth
 Surface:

Formations Encountered	Top Depth	Bottom Depth
SAND & SHALE	SURFACE	53'
SHALE	SOFT	230'
SAND & SHALE	MEDIUM	316'
COAL	SOFT	322'
SAND & SHALE	MEDIUM	432'
COAL	SOFT	440'
SAND & SHALE	MEDIUM	1126'
SAND	HARD	1490'
SHALE	SOFT	1700'
LIME & SAND	HARD	1945'
SHALE	SOFT	2350'
SAND & SHALE	HARD	2708'
SHALE & SAND	SOFT	2948'