

MAY 28 1982

OIL & GAS DIVISION DEPT. OF MINES STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal (If "Gas", Production X / Underground storage / Deep / Shallow X) LOCATION: Elevation: 1560 Watershed: Brushy Fork District: Simpson County: Harrison Quadrangle: Brownton

WELL OPERATOR: J&J Enterprises, Inc. DESIGNATED AGENT: Harry L. Barnett Address: P.O. Box 48 Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate X Plug off old formation / Perforate new formation / Other physical change in well (specify)

PERMIT ISSUED ON 3/12, 19 82 OIL & GAS INSPECTOR FOR THIS WORK: Name: Stephen Casey Address: Rt. # 2, Box 232-D Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth: feet Depth of completed well, 4836 feet Rotary X / Cable Tools Water strata depth: Fresh, 35 feet; salt, Nonfeet. Coal seam depths: 1160-65 Is coal being mined in the area? NO Work was commenced 4/12, 19 82, and completed 4/18, 19 82

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Depths set, Perforations: Top, Bottom)

OPEN FLOW DATA

Producing formation: Benson Pay zone depth: 3933-4716 feet Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d Combined Final open flow, 174 Mcf/d Final open flow, Bbl/d Time of open flow between initial and final tests, 4 hours Static rock pressure, 1280 psig (surface measurement) after 96 hours shut in [If applicable due to multiple completion--] Second producing formation: Balltown & Speechley Pay zone depth: 3260-63 feet 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

Bottom Hole Pressure Static rock pressure, psig (surface measurement) after hours shut in Pf=PweXGLS t=60+(0.0075x4792) +459.7+556 X=53.35x556 =29643 =0.0000337 Pf=1280x2.72 (0.0000337) (0.650) (3988) (0.9) =1280x2.72^0.079 =1280x 1.08 Pf=1385

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Benson: Perforations: 4714-16 (4 holes) 4728-31 (4 holes) 4546-48 (4 holes) 3933-35 (3 holes)  
Fracturing: 10,000 lbs. sand: 40,000 lbs. 20/40 sand: 498 Bbls. fluid: 200 gal. Acid:

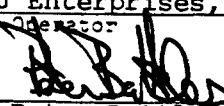
Balltown: Perforations: 3438-42 (12 holes)  
Fracturing: 10,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 400 gal. Acid:  
359 Bbls. fluid.

Speechley: Perforations: 3260-63 (12 holes)  
Fracturing: 10,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 900 gal. Acid:  
360 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil, fresh and salt water, coal, oil and gas
Fill & shale			0	30	
Sand & shale			30	90	
Shale & sand			90	125	Wet @ 35'
Sand & shale			125	450	
Sand, shale & red rock			450	815	Gas Ck @ 1924 No show
Sand & shale			815	1120	
Sand & shale			1120	1160	Gas ck @ 2606 No show
Coal			1160	1165	
Sand & shale			1165	1220	Gas ck @ 4312 No show
Sand & shale			1220	1370	
Sand & shale			1370	1525	Gas ck @ 4404 No show
Sand, shale & red rock			1525	1560	
Red rock & shale			1560	1595	Gas ck @ 4713 12/10-1/2" w/water
Sand & shale			1595	1720	6,521 cu.ft.
Big Lime			1720	1795	
Big Injun			1795	1907	
Sand, shale & red rock			1907	3260	
Speechley			3260	3263	
Sand & shale			3263	3438	
Balltown			3438	3442	
Sand & shale			3442	4380	
Riley			4380	4385	
Sand & shale			4385	4685	
<u>Benson</u>			4685	4716	
Shale			4716	4836	
				TD	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.  
well operator  
By   
Peter Battles  
Geologist

NOTE: Regulation 2.32(d) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."