

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  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 1380 Watershed: Glade Run  
District: Simpson County: Harrison Quadrangle: Brownston 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT James R. Willett  
Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 7/21, 1981 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Stephen Casey  
Address Rt. # 2, Box 232-D  
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth \_\_\_\_\_ feet  
Depth of completed well, 5980 feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 140-1350 feet; salt, 0 feet.  
Coal seam depths: 69-71, 215-19, 237-40 is coal being mined in the area? No  
792-95, 836-40  
Work was commenced 12/31, 1981, and completed 1/7, 1982

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	11 3/4	H-40	42	x		25	25	0 sks.	Minds
Fresh water	8 5/8	ERW	23	x		1464.85	1464.85	350 sks.	
Coal	8 5/8	ERW	23	x		1464.85	1464.85	350 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		5955.50	5955.50	300 sks.	Depths set
Liners									Perforations:
									Top Bottom
									4519 4532
									5855 5886

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WV DEPARTMENT OF MINES

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5855-86 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Combined Final open flow, 539 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 6 hours  
Static rock pressure, 1625 psig (surface measurement) after 96 hours shut in  
[If applicable due to multiple completion--]  
Second producing formation Benson Pay zone depth 4519-32 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  
 $= 60 + (0.0075 \times 5955) + 459.7 = 564$  X =  $\frac{1}{53.35} \times 564 = 30108$  = 0.0000332 Pf=1625 x 2.72 (0.0000332)  
(0.622) (5203) (0.9) = 1625 x 2.72 0.097 = 1625 x 1.10 Pf=1791 psi

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

Benson: Perforations: 4519-32 (12 holes)

Fracturing: 15,000 lbs. 80/100 sand: 45,000 lbs. 20/40 sand: 700 Bbls.fluid.

ELK

Haverty: Perforations: 5855-86 (13 holes)

Fracturing: 15,000 lbs. 80/100 sand: 45,000 lbs. 20/40 sand: 700 Bbls. fluid.

WELL 100

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fracn and salt water, coal, oil and gas
Sand & shale			0	69	
Coal			69	71	
White sand			71	95	3/8" stream @ 140'
Sand & shale			95	105	
Grey sand			105	215	Damp @ 860'
Coal			215	219	
Sand			219	230	Gas ck @ 3758 4/10-2" w/water
Red rock and shale			230	237	84,000 cu.ft.
Coal			237	240	
Sand, red rock and shale			240	342	
Red rock and shale			342	405	Gas ck @ 3913 6/10-2" w/water
Red rock, sand & shale			405	551	100,000 cu.ft.
Coal			551	554	
Sand & shale			554	792	Gas ck @ 4750 12/10-2" w/water
Coal			792	795	145,000 cu.ft.
Sand & shale			795	836	
Coal			836	840	Gas ck @ 5092 46/10-1" w/water
Sand, shale & red rock			840	990	71.49 MCF
Sand and shale			990	1330	
Sand, shale & red rock			1330	1518	
Sand			1518	1647	
Big Lime			1647	1747	
Big Injun			1747	1785	
Sand & shale			1785	2185	
Red shale & sand			2185	3730	
Sand			3730	4519	
Benson			4519	4532	
Shale			4532	4570	
Brown sand			4570	4575	
Sand & shale			4575	5855	
<u>Haverty ELK</u>			5855	5886	
Sand & shale			5886	5980	

5980  
4532  
1448

(Attach separate sheets as complete as necessary.)

J & J Enterprises, Inc.

well operator: Peter Battles  
By: Peter Battles  
Its: Geologist

NOTE: Regulation 2.02(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."