

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: 1400 Watershed: Glade Run
District: Simpson County: Harrison Quadrangle: Brownton 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Harry L. Barnett
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, 4775 feet Rotary / Cable Tools _____
Water strata depth: Fresh 115-245 feet; salt, 0 feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 1/9, 1982, and completed 1/15, 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		
Conductor	11 3/4	H-40	42	x		25	25	0 sks. Kinds
Fresh water	8 5/8	ERW	23	x		1450.10	1450.10	330 sks.
Coal	8 5/8	ERW	23	x		1450.10	1450.10	330 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		4583.40	4583.40	460 sks. Depth set
Tubing								
Liners								Perforations: Top Bottom
								2359 2363
								4504 4506

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OPEN FLOW DATA

Producing formation Benson Pay zone depth 4503-06 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 1,404 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 775 psig (surface measurement) after 96 hours shut in
[If applicable due to multiple completion--]

Second producing formation 4th Sand Pay zone depth 2359-63 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 1 1
t=60+(0.0-75 x4583) + 459.7=554 X=53.35 x 554 =29560 =0.0000338 Pf=775 x 2.72 (0.0000338) (0.622
(3433) (0.9) =775 x 2.72 0.065 =775 x 1.07

08-78]

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

Benson: Perforations: 4503-06 (12 holes)

Fracturing: 10,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 100 Bbls. fluid.

4th Sand: Perforations: 2359-63 (16 holes)

Fracturing: 10,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand: 102 Bbls. fluid.

WELL 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of all fresh and salt water, coal, oil & gas
Fill			0	5	
Shale			5	48	
Sand & shale			48	170	
White sand			170	200	
Black shale			200	210	
Gray sand			210	295	
Sand, shale & red rock			295	455	
Gray sand			455	470	
Sand & shale			470	595	
Sand & shale			595	1245	
Sand & shale			1245	1300	
Red rock, sand & shale			1300	1430	
Sand, shale & red rock			1430	1558	
Big Lime			1558	1660	
Big Injun			1660	1735	
Sand & shale			1735	2020	
Sandy shale & red rock			2020	2245	
Sand, shale and red rock			2245	2359	
4th. sand			2359	2363	
Sand & shale			2363	4503	
<u>Benson</u>			4503	4506	
Sand & shale			4506	4775	
				T.D.	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles 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."