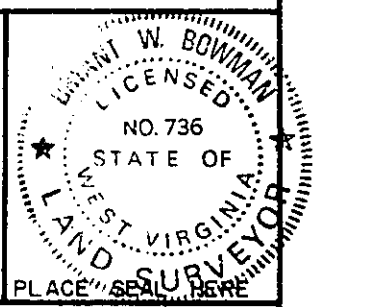


FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=1000'  
MINIMUM DEGREE OF ACCURACY 1:5000  
PROVEN SOURCE OF ELEVATION COPPER PLUG IN ROCK  
ELEVATION 2783.54

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
(SIGNED) [Signature]  
R.P.E. \_\_\_\_\_ L.L.S. 736



WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506



DATE MAY 24, 19 98  
OPERATOR'S WELL NO. 38C  
API WELL NO. 47-109-01742C  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS", PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_)

LOCATION: ELEVATION 2798 WATER SHED TONEY FORK  
DISTRICT OCEANA COUNTY WYOMING  
QUADRANGLE MATHENY, WV 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 23058±  
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORPORATION LEASE ACREAGE 34586±  
LEASE NO. \_\_\_\_\_

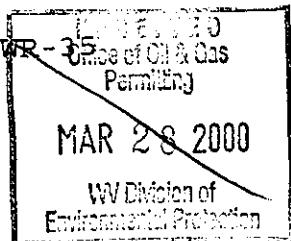
PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION Beckley, Fire Creek, Roca 6.5.4 ESTIMATED DEPTH 2600' JUL 20 1998

WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JRWEL  
ADDRESS 999 EXECUTIVE PARK BLVD. SUITE 300 ADDRESS PO BOX 460  
KINGSFORD, TN 37660 RAVENCLIFF, WV 25913

WYO 1742C



16-Jul-98  
API # 47-109-01742 C

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed ALB

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP Operator Well No.: 38C

LOCATION: Elevation: 2,798.00 Quadrangle: MATHENY

District: OCEANA County: WYOMING  
Latitude: 4800 Feet South of 37 Deg. 45Min. 0 Sec.  
Longitude 6320 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: PENN VIRGINIA OIL AND GAS  
999 EXEC. PARK BLVD., STE. 300  
KINGSPORT, TN 37660-0000

Agent: HARRY JEWELL, III

Inspector: OFIE HELMICK  
Permit Issued: 07/16/98  
Well work Commenced: 08/26/99  
Well work Completed: 10/05/99  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2566'  
Fresh water depths (ft) Damp at  
65'  
Salt water depths (ft) \_\_\_\_\_

Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	19'	19'	0
7"	572'	572'	124 cu ft
4 1/2"	2507'	2507'	378 cu ft
2 3/8"		2411'	

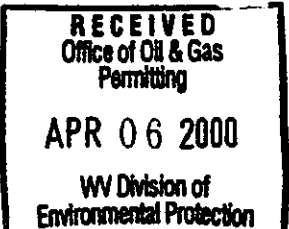
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Poca 5, Poca 6, Fire Creek, Beckley <sup>Coals</sup> Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow Show MCF/d Final open flow n/a Bbl/d  
 Time of open flow between initial and final tests n/a Hours  
 Static rock Pressure n/a psig (surface pressure) after \_\_\_\_\_ 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.



For: PENN VIRGINIA OIL AND GAS CORPORATION

By: William M. Pycus  
Date: 4/4/00

APR 14 2000

WYO 1742 C

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Stage 1	Poca 5 Coal, Poca 6 Coal Lower Poca 6Coal	Perforated the Poca 6 Coal from 2344' to 2346' with 8 holes, the Lower Poca 6 Coal from 2361' to 2363' with 8 holes and the Poca 5 from 2380' to 2386' with 18 holes. Breakdown with 500 gallons of 7.5% HCL acid and water. Treated with 313 bbls of water and 8007 lbs 20/40 sand. ATR: 20 BMP          ATP: 1402 psi          ISIP: 1263 psi
Stage 2	Lower Fire Creek	Perforated from 2302' to 2304' with 10 holes and from 2307' to 2309' with 10 holes. Breakdown with 500 gallons 7.5% HCL acid and water. Treated with 313 bbls of water and 7980 lbs 20/40 sand. ATR: 20.7 BMP          ATP: 1714 psi          ISIP: 1254 psi
Stage 3	Beckley Coal	Perforated from 2196' to 2200' with 12 holes and from 2228' to 2230' with 8 holes. Breakdown with 500 gallons of 7.5% HCL acid and water. Treated with 358 bbls of water and 11095 lbs of 20/40 sand. ATR: 19.9 BMP          ATP: 1845 psi          ISIP: 1122 psi

FORMATIONS

TOP

BOTTOM

REMARKS

Sand, Shale & Coal	0	640'	Coals @ 54'-56', 114'-116', 320'-322', 448'-450', 550'-554', 640'-642', 886'-890', 1050'-1052', and 1072'-1074'.
Sand & Shale	640'	886'	
Sand, Shale & Coal	886'	1074'	
Sand & Shale	1074'	1766'	
Sand	1766'	2020'	
Sand & Shale	2020'	2196'	
Lower Beckley Coal	2196'	2200'	
Shale	2200'	2238'	
Lower Beckley Coal	2238'	2240'	
Sand & Shale	2240'	2270'	
Sand	2270'	2302'	
Lower Fire Creek Coal	2302'	2304'	
Shale	2304'	2307'	
Coal	2307'	2308'	
Sand & Shale	2308'	2343'	
Poca 6 Coal	2343'	2344'	
Shale	2344'	2361'	
Lower Poca 6 Coal	2361'	2362'	
Shale	2362'	2381'	
Poca 5 Coal	2381'	2382'	
Sand & Shale	2382'	2566'	

No shows reported @ TD.

47-109-01742  
LC-38C  
2010