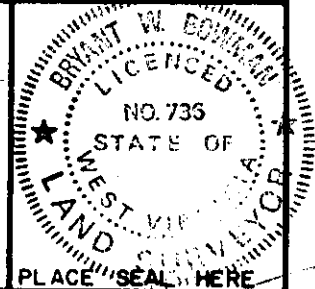


FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1:5000
 PROVEN SOURCE OF ELEVATION COPPER PLUG IN ROCK
 ELEVATION 2754.83

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) *Duncan B. Brummon*
 R.P.E. _____ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE APRIL 11, 2001
 OPERATOR'S WELL NO. LC-80C
 API WELL NO. _____
47 - 109 - 02033C
 STATE COUNTY PERMIT

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 2696 WATER SHED TONEY FORK & RALPH BRANCH OF CLEAR FORK
 DISTRICT OCEANA COUNTY WYOMING
 QUADRANGLE MATHENY, WV 7.5'
 SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 29500±
 OIL & GAS ROYALTY OWNER PENN VIRGINIA OIL & GAS CORPORATION LEASE ACREAGE 29500±
 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 Beekley Fire Creek Formation ESTIMATED DEPTH 2606
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS PO BOX 387 ADDRESS PO BOX 460
DUFFIELD, VA 24244-0387 RAVENCLIFF, WV 25913

WVOM. 2033 C

CHARLESTON BLUEPRINT 092394

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

Permit No. 123

Well Operator's Report of Well Work

Farm Name Pocahontas Land Corporation

Operator Well No.: LC-80C

LOCATION Elevation: 2696

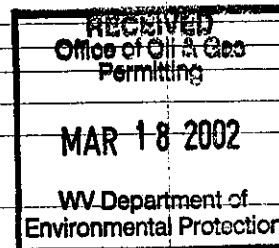
Quadrangle: Matheny 7 1/2'

District: Oceana County: Wyoming
Latitude: 5500 Feet South of 37 Deg. 45 Min. 00 Sec.
Longitude: 7350 Feet West of 81 Deg. 32 Min. 30 Sec.

Company:

Penn Virginia Oil & Gas Corporation

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>2550 East Stone Drive, Suite 110</u>	<u>7"</u>	<u>96'</u>	<u>96'</u>	
<u>Kingsport, TN 37660</u>	<u>4 1/2"</u>	<u>2388'</u>	<u>2388'</u>	<u>389'</u>
Agent: <u>Harry Jewell</u>				
Inspector: <u>Ofie Helmick</u>				
Date Permit Issued: <u>06/14/2001</u>				
Date Well Work Commenced: <u>07/30/2001</u>				
Date Well Work Completed: <u>09/14/2001</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>2,525</u>				
Fresh Water Depth (ft):				
Damp @ <u>63'</u> & <u>1895'</u>				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft):				



OPEN FLOW DATA

Page 4,
 Producing formation Fire Creek & Beckley Coals Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow Not Taken MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests: _____ Hours
 Static rock pressure Not Taken 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 CHANE, TEC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By: William M. Payne
Date: 3/13/02

MAR 22 2002

WV D 2033 C

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

Stage 1 - Lower Fire Creek and Poca 4 Coals - Perforated the Lower Fire Creek from 2182' to 2186' with 16 holes and the Poca 4 from 2232' to 2236' with 16 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 303 bbls water and 9500 lbs 20/40 sand. ISIP: 1465 psi. ATP: 2252 psi. ATR: 20 BPM. Stage 2 - Lower Beckley Coal - Perforated from 2110' to 2114' with 16 holes. Breakdown with 250 gallons of 7.5% HCL acid and water. Treated with 506 bbls water and 20270 lbs 20/40 sand. ISIP: 2879 psi. ATP: 3259 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale & Coal	0	490	Coals @ 45-50, 214-217, 268-270, 320-322, 487-490
Sand & Shale	490	530	
Eagle Coal	530	532	
Sand & Shale	532	788	
Middle War Eagle Coal	788	792	
Sand & Shale	792	968	
Sand, Shale, & Coal	968	1006	Lower War Eagle Coals @ 968-970, 990-993, & 1004-1006
Sand & Shale	1006	1625	
Sand	1625	1907	
Sand & Shale	1907	2110	
Beckley Coal	2110	2116	
Sand & Shale	2116	2185	
Fire Creek Coal	2185	2186	
Sand	2186	2234	
Poca 6 Coal	2234	2236	
Sand & Shale	2236	2360	
Poca 4 Coal	2360	2361	
Sand & Shale	2361	2525	No Shows Reported