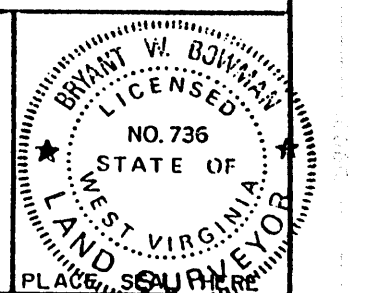


FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=2000'  
MINIMUM DEGREE OF ACCURACY 1:5000  
PROVEN SOURCE OF ELEVATION EXISTING WELL 1300 ELEVATION 1833

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) Bryant W. Bowman  
R.P.E. \_\_\_\_\_ L.L.S. 736



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

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS", PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
LOCATION: ELEVATION 2135 WATER SHED BRUSHY FORK OF HUFF CREEK  
DISTRICT OCEANA COUNTY WYOMING  
QUADRANGLE PILOT KNOB, 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 \_\_\_\_\_ 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 PRN, BVC, MAY - BL ESTIMATED DEPTH 3,800  
WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL  
ADDRESS 2550 EAST STONE DRIVE SUITE 110 ADDRESS PO BOX 460  
KINGSPORT, TN 37660 RAYENCLIFF, WV 25913

DATE JANUARY 18 20 02  
OPERATOR'S WELL NO. LC-225  
API WELL NO. 47 - 109 - 02140  
STATE COUNTY PERMIT

Division of Environmental Protection  
Office of Oil & Gas

MAR 2 2 2002

6-6 266 Mann - Oceana

✓  
GCS

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

Well Operator's Report of Well Work

Farm Name Pocahontas Land Corporation

Operator Well No.: LC-225

LOCATION: Elevation: 2135

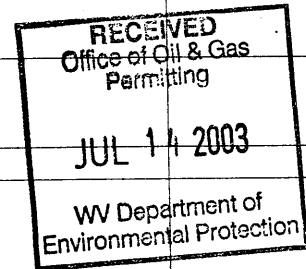
Quadrangle: Pilot Knob 7 1/2'

District: Oceana County: Wyoming  
Latitude: 10900 Feet South of 37 Deg. 47 Min. 30 Sec.  
Longitude: 2550 Feet West of 81 Deg. 35 Min. 00 Sec.

Company:

**Penn Virginia Oil & Gas Corporation**

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 2550 East Stone Drive, Suite 110	12.75"	20	20	0
Kingsport, TN 37660	9.625"	661	661	283
Agent: Harry Jewell	7"	2077	2077	438
Inspector: Ronald Scott	4.5"	3607	3607	246
Date Permit Issued: 03/18/2002				
Date Well Work Commenced: 12/04/2002				
Date Well Work Completed: 05/30/2003				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 3,663				
Fresh Water Depth (ft):				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft): 214-217, 303-306, 543-545, 749-750, 1630-1632				



OPEN FLOW DATA

Producing formation Ravencloff, Big Lime-Denmar Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 392 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests: 4 Hours

Static rock pressure 550 psig (surface pressure) after 72 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: 7/7/03

AUG 6

AUG 01 2003

WYO 2140

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

1st Stage-Big Lime (Denmar)-Perforated from 3498' to 3518' with 40 holes. Treated with 2500 gallons 15% HCL acid and 97.5 MSCF N2. ISIP: 1410 psi. ATP: 1369 psi. ATR: 20 BPM.

2nd Stage-Big Lime (Denmar)-Perforated from 3450' to 3470' with 40 holes. Treated with 2500 gallons 15% HCL acid and 150 MSCF N2. ISIP: 1505 psi. ATP: 1455 psi. ATR: 20 BPM.

3rd Stage-Ravenclyff-Perforated from 2420' to 2430' with 20 holes and from 2436' to 2446' with 20 holes. Treated with 199 BW, 396 MSCF N2 and 45000 lbs 20/40 sand. ISIP: 2768 psi. ATP: 2957 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale, & Coal	0	1632	
Sand & Shale	1632	1962	
Shale	1962	2050	
Sand	2050	2240	
Sand & Shale	2240	2420	
Ravenclyff Sand	2420	2447	
Shale	2447	2470	
Avis Limestone	2470	2510	
Shale	2510	2550	
Sand	2550	2598	
Shale & Red Rock	2598	2930	
Sand & Shale	2930	3070	
Shale	3070	3110	
Little Lime	3110	3180	
Shale & Lime	3180	3205	
Big Lime	3205	3545	gas check @ 3478-trace
Shale	3545	3663	gas check @ TD-trace