

N49°32'02"E  
 3138.159'  
 S38°54'58"W  
 1548.770'  
 S59°32'57"W  
 1640.91'  
 PROPOSED WELL

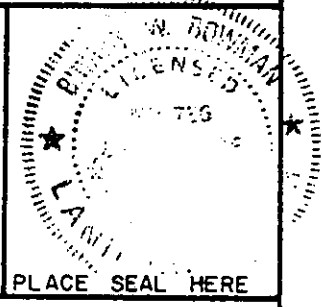
COORDINATES  
 277235.791  
 1842178.318  
 WV SOUTH NAD 27

NO KNOWN WATER WELLS WITHIN 2000'

TOPO LOCATION 7.5'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1/10000  
 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) *Raymond Bowman*  
 R.P.E. \_\_\_\_\_ L.L.S. 736



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



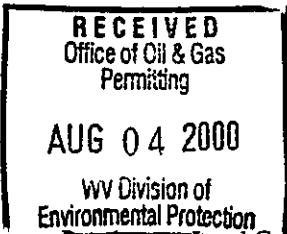
DATE FEBRUARY 16, 20 00  
 OPERATOR'S WELL NO. LC-61C  
 API WELL NO. 47-109-01903C  
 STATE COUNTY PERMIT

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 2987.93 WATER SHED TONY FORK  
 DISTRICT OCEANA COUNTY WYOMING  
 QUADRANGLE PILOT KNOB, WV 7.5'  
 SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 29500±  
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND 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 Rockley, Fire Creek, Poca 4, 5, 6 ESTIMATED DEPTH 2900' APR 28 2000  
 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

6-6 248



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

Reviewed ALB

Well Operator's Report of Well Work

Farm name: Focanomas Land Corporation Operator Well No.: LC-61C-102

LOCATION: Elevation: 2987.93 Quadrangle: Pilot Knob, WV 75.

District: Oceana County: Wyoming  
Latitude: 11480 Feet South of 37 Deg. 47 Min. 30 Sec.  
Longitude 1400 Feet West of 81 Deg. 32 Min. 30 Sec.

Company:

**Penn Virginia Oil & Gas Corporation**

Address: **P.O. Box 387**

**Duffield, VA 24244**

Agent: **Harry Jewell**

Inspector: **Ofie Helmick**

Date Permit Issued: **4/25/2000**

Date Well Work Commenced: **5/18/2000**

Date Well Work Completed: **7/13/2000**

Verbal Plugging:

Date Permission granted on:

Rotary X Cable Rig

Total Depth (feet): **2730'**

Fresh Water Depth (ft.): **1/4" at 50'**

Damp at **2110'**

Salt Water Depth (ft.):

Is coal being mined in area (N/Y)?

Coal Depths (ft.): **175-178', 273-275, 325-327, 521-522, 590-591, 618-621, 635-638, 700-701, 800-801, 880-883,**

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	13 3/8"	30'	30'	0
Duffield, VA 24244	7"	1532'	1532'	662
Agent: Harry Jewell	4 1/2"	2687'	2687'	553
Inspector: Ofie Helmick				
Date Permit Issued: 4/25/2000				
Date Well Work Commenced: 5/18/2000				
Date Well Work Completed: 7/13/2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2730'				
Fresh Water Depth (ft.): 1/4" at 50'				
Damp at 2110'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): 175-178', 273-275, 325-327, 521-522, 590-591, 618-621, 635-638, 700-701, 800-801, 880-883,				

OPEN FLOW DATA

Producing formation Beckley Coal 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 \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests -- Hours  
Static rock Pressure NA psig (surface pressure) after NA 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.

Signed:

By: William M. Ryan  
Date: 8/1/00

AUG 25 2000

WYO 1903C

FORM WR-35R  
(REVERSE)

PERMIT #: 47-109-01903C  
WELL #: LC-61C-102

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

Stage 1 – Lower Beckley – Perforated from 2417' to 2421' with 16 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 347 bbls water and 11100 lbs of 20/40 sand. ISIP: 2756 psi. ATP: 3662 psi. ATR: 14.6 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale, & Coal	0	883	
Sand & Shale	883	1600	
Sand	1600	1793	
Sand & Shale	1793	1984	
Sand	1984	2210	
Sand & Shale	2210	2304	
Sand	2304	2347	
Sand & Shale	2347	2416	
Beckley Coal	2416	2422	
Shale	2422	2445	
Fire Creek Coal	2445	2446	
Sand	2446	2479	
Lower Fire Creek Coal	2479	2480	
Sand	2480	2520	
Poca 6 Coal	2520	2522	
Sand	2522	2630	
Sand & Shale	2630	2730	No Shows Reported