

REFERENCES NO SCALE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/10000
 PROVEN SOURCE OF 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) Bryant Bowman
 R. P. E. _____ L. L. S. 736

PLACE SEAL HERE

(+) 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 3293.5' WATER SHED TONEY 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 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 Bxkley Fire Creek Poca 456 ESTIMATED DEPTH 3200'

WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS PO BOX 387 DUFFIELD, VA 24244-0387 ADDRESS PO BOX 460 RAVENCLIFF, WV 25913

NO KNOWN WATER WELLS WITHIN 1500'

DATE JANUARY 25, 20 00
 OPERATOR'S WELL NO. LC-64C
 API WELL NO. 47-109-01883C
 STATE COUNTY PERMIT



Division of Environmental Protection
Office of Oil & Gas

WYO 1883 C

CHARLESTON BLUEPRINT 092941

1-1-2VR

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

Reviewed _____

Well Operator's Report of Well Work

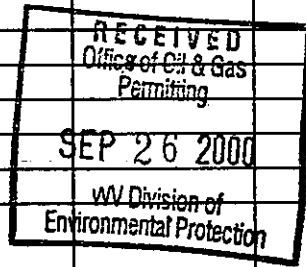
Farm name: Pocahontas Land Corporation Operator Well No.: LC-64C

LOCATION: Elevation: 3293.5 Quadrangle: Pilot Knob, WV 75. 547

District: Oceana County: Wyoming
Latitude: 7950 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 10000 Feet West of 81 Deg. 30 Min. 00 Sec.

Company:
Penn Virginia Oil & Gas Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	13 3/8"	33'	33'	0
Duffield, VA 24244	7"	1300'	1300'	702
Agent: Harry Jewell	4 1/2"	3044'	3044'	428
Inspector: Ofie Helmick				
Date Permit Issued: 3/29/2000				
Date Well Work Commenced: 4/10/2000				
Date Well Work Completed: 6/8/2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 3117'				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): 26-28, 623-625, 674-675, 720-722, 1105-1109				



OPEN FLOW DATA

Producing formation Beckley & Fire Creek Coals 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 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 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: 8/8/00

WV 0 1883C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01883C
WELL #: LC-64C

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

Stage 1 – Fire Creek – Perforated from 2807' to 2810' with 12 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 310 bbls water and 5800 lbs of 20/40 sand. ISIP: 650 psi. ATP: 2487 psi. ATR: 20 BPM.

Stage 2 – Beckley – Perforated from 2763' to 2767' with 16 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 429 bbls water and 9600 lbs of 20/40 sand. ISIP: 860 psi. ATP: 2243 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale, & Coal	0	1109	
Sand & Shale	1109	1398	
Coal	1398	1400	
Sand & Shale	1400	1466	
Coal	1466	1468	
Sand & Shale	1468	1776	
Coal	1776	1778	
Sand & Shale	1778	1950	
Sand	1950	2150	
Sand & Shale	2150	2546	
Coal	2546	2548	
Shale	2548	2590	
Sand	2590	2720	
Sand & Shale	2720	2763	
Beckley Coal	2763	2769	
Shale	2769	2770	
Sand	2770	2806	
Fire Creek Coal	2806	2809	
Sand & Shale	2809	3117	No Shows Reported