

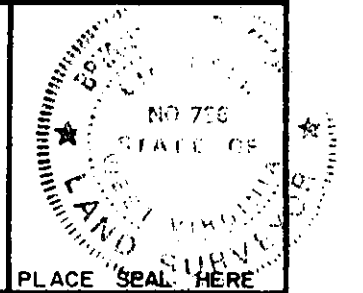
2.56
2.37

NO KNOWN WATER WELLS WITHIN 2000'

TOPO LOCATION 7.5'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:7500
 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) Bryan D. 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 X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 2789.23 WATER SHED CRANE FORK OF CLEAR 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 Beckley, Fire Creek, Poca 6.5.4 ESTIMATED DEPTH 2800'
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS P. O. BOX 387 ADDRESS P. O. BOX 460
DUFFIELD, VA 24244-0387 RAVENCLIFF, WV 25913

DATE APRIL 18, 20 00
 OPERATOR'S WELL NO. LC-60 CR
 API WELL NO. _____
47 - 109 - 01906C
 STATE COUNTY PERMIT
 Division of Environmental Protection
 Office of Oil & Gas

WYO 1906 C
 MAY 26 2000
 Charleston, WV

6-6 248

CHARLESTON BLUEPRINT 092941

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

FOI

Well Operator's Report of Well Work

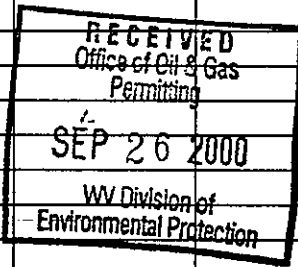
Farm name: Pocahontas Land Corporation Operator Well No.: LC-60CR

LOCATION: Elevation: 2789.23 Quadrangle: Pilot Knob, WV 7.5

District: Oceana County: Wyoming
Latitude: 13500 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 1950 Feet West of 81 Deg. 32 Min. 30 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"	43'	43'	0
Duffield, VA 24244	7"	1324'	1324'	662
Agent: Harry Jewell	4 1/2"	2498'	2498'	378
Inspector: Ofie Helmick				
Date Permit Issued: 5/24/2000				
Date Well Work Commenced: 6/2/2000				
Date Well Work Completed: 7/14/2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2572'				
Fresh Water Depth (ft.): None Reported				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 415-417, 672-674				



OPEN FLOW DATA

Producing formation Beckley, Lower Firecreek, & Poca 6 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 NA 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: 9/7/00

WYO 1906C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01906C
WELL #: LC-60CR

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

Stage 1 – Fire Creek/Poca 6 Coal – Perforated from 2286' to 2288' with 8 holes and from 2326' to 2328' with 8 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 253 bbls water and 5000 lbs of 20/40 sand. ISIP: 950 psi. ATP: 2313 psi. ATR: 20 BPM.

Stage 2 – Lower Beckley Coal – Perforated from 2227' to 2231' with 20 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 413 bbls water and 13000 lbs of 20/40 sand. ISIP: 1176 psi. ATP: 2204 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand	0	220	
Sand & Shale	220	415	
Coal	415	417	
Sand & Shale	417	672	
Coal	672	674	
Sand & Shale	674	1055	
Shale	1055	1430	
Sand	1430	1595	
Sand & Shale	1595	1787	
Sand	1787	2012	
Sand & Shale	2012	2090	
Sand	2090	2150	
Sand & Shale	2150	2227	
Beckley Coal	2227	2232	
Shale	2232	2261	
Sand	2261	2286	
Poca 6 Coal	2286	2287	
Sand & Shale	2287	2326	
Poca 4 Coal	2326	2327	
Sand & Shale	2327	2572	No shows reported