

FILE NO. _____

DRAWING NO. _____

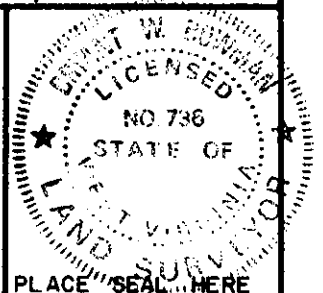
SCALE 1"=2000

MINIMUM DEGREE OF ACCURACY 1:5000

PROVEN SOURCE OF ELEVATION COPPER PLUG IN ROCK
ELEVATION 2753.84

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. Bourman
R. P. E. _____ L. L. S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

DATE APRIL 17, 2001

OPERATOR'S WELL NO. LC-81C

API WELL NO. 47-109-02049C

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 2760 WATER SHED TONEY 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 Berkley Fire Creek, Bca 6, 5, 4 Coal¹³ ESTIMATED DEPTH 2800

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

JUN 15 2001

6-6 248

WYOM. 2049 C

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

for 13

Well Operator's Report of Well Work

Farm name: Pocahontas Land Corporation Operator Well No.: LC-81C

LOCATION: Elevation: 2760 Quadrangle: Wyoming

District: Oceana County: Matheny, WV 7.5'
Latitude: 500 Feet South of 37 Deg. 45 Min. 00 Sec.
Longitude 2400 Feet West of 81 Deg. 32 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	9 5/8"	40'	40'	0
Duffield, VA 24244	7"	453'	453'	101
Agent: Harry Jewell	4 1/2"	2397'	2397'	374
Inspector: Ofie Helmick				
Date Permit Issued: 6/14/01				
Date Well Work Commenced: 8/17/01				
Date Well Work Completed: 9/27/01				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2630'				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 70'-72', 225'-227', 310'-314', 378'-382', 445'-448', 623'-627', 888'-892', 1056'-1058', 1080'-1082', 1210', 1212'				

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 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 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: 10/12/01

OCT 26 2001

WYO 3049 C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-02049C
WELL #: LC-81C

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

Stage 1 – Lower Beckley Coal- Perforated from 2207' to 2213' with 24 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 613 bbls water and 24800 lbs 20/40 sand. ISIP: 2422 psi. ATP: 2570 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, shale & coal	0	1212	
Sand & shale	1212	1290	
Sand	1290	1530	
Sand & shale	1530	1768	
Sand	1768	1968	
Sand & shale	1968	2075	
Sand	2075	2173	
Shale	2173	2206	
Beckley coal	2206	2215	
Shale	2215	2233	
Sand	2233	2261	
Lower Fire Creek coal	2261	2263	
Sand	2263	2304	
Pocahontas 6 coal	2304	2305	
Shale	2305	2385	
Sand & shale	2385	2630	