

FILE NO. _____
DRAWING NO. _____
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/10000
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. Leonard
R. P. E. _____ L. L. S. 736

STATE OF WEST VIRGINIA
DEPARTMENT OF LAND MINES AND WATER
LICENSED SURVEYOR
NO. 736
PLACE SEAL HERE

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

DATE MARCH 1, 2000
OPERATOR'S WELL NO. LC-45C
API WELL NO. 47-109-01925C
STATE COUNTY PERMIT

Division of Environmental Protection
Office of Oil & Gas

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___)

LOCATION: ELEVATION 1860.50 WATER SHED TONNEY 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 Berkley, Fire Creek, Poca 4, 5, 6 ESTIMATED DEPTH 1800'
WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
ADDRESS P. O. BOX 387 ADDRESS PO BOX 460
DUFFIELD, VA 24244-0387 RAVENCLIFF, WV 25913 MAY 26 2000

WYO 1925C

6-6 248

Charleston WV

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-45C

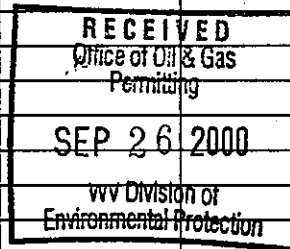
LOCATION: Elevation: 1860.50 Quadrangle: Pilot Knob, WV 7.5

District: Toney Fork County: Wyoming
Latitude: 12000 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 4550 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"	20'	20'	0
Duffield, VA 24244	7"	765'	765'	182
Agent: Harry Jewell	4 1/2"	1576'	1576'	227
Inspector: Ofie Helmick				
Date Permit Issued: 5/24/2000				
Date Well Work Commenced: 6/6/2000				
Date Well Work Completed: 7-7-00				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1615'				
Fresh Water Depth (ft.): None Reported				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 195-197, 200-203, 275-278, 314-317, 390-392, 1070-1072				



OPEN FLOW DATA

Producing formation Lower Beckley Sand, Lower Beckley Coal, Lower Fire Creek Sand & Lower Fire Creek 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 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. Rojas
Date: 9/7/00

WV 01925C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01925C
WELL #: LC-45C

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

Stage 1 – Fire Creek Coal/Sand – Perforated from 1326' to 1330' with 8 holes and from 1346' to 1348' with 8 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 379 bbls water and 15250 lbs of 20/40 sand. ISIP: 1750 psi. ATP: 3204 psi. ATR: 20 BPM.

Stage 2 – Lower Beckley Coal/Sand – Perforated from 1255' to 1257' with 4 holes and from 1260' to 1264' with 16 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 506 bbls water and 20600 lbs of 20/40 sand.
ISIP: 1263 psi. ATP: 2102 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale, & Coal	0	500	
Sand	500	770	
Shale	770	880	
Sand	880	1075	
Coal	1075	1076	
Sand	1076	1207	
Upper Beckley Coal	1207	1208	
Sand & Shale	1208	1260	
Lower Beckley Coal	1260	1264	
Sand & Shale	1264	1345	
Shale	1345	1382	
Poca 6 Coal	1382	1383	
Sand & Shale	1383	1615	No Shows Reported