

CROOK DISTRICT

CHARLESTON NATIONAL BANK

COORDINATES
289062.138
1822019.044
WV SOUTH
NAD 27

LONGITUDE 81°35'00"

NORTH

AIDA OSBORNE

POCAHONTAS LAND CORPORATION

A. N86°34'34"E 256.235'
B. S45°53'43"E 115.627'
C. N79°06'43"W 345.017'

2.81
1-78

SET STONE FOUND

1354

PROPOSED WELL

TRIADELPHIA DISTRICT

COUNTY
COUNTY

LOGAN WYOMING

OCEANA DISTRICT

4457725
4182766.0

TOPO LOCATION 7.5'

NO KNOWN WATER WELLS WITHIN 1500'

6" CHESTNUT OAK

N58W 188.9'

PROPOSED WELL

S07E 133.5'

8" HICKORY

REFERENCES NO SCALE

FILE NO. _____

DRAWING NO. _____

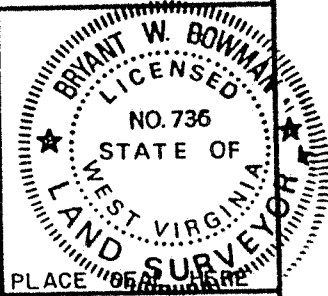
SCALE 1"=1000"

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) Bryant W. Bowman
R.P.E. _____ L.L.S. 736



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

FORM IV-6 (8-78)



DATE JULY 4, 20 01
OPERATOR'S WELL NO. LC-83C
API WELL NO. 47-45-01433C
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 2757 WATER SHED BUFFALO CREEK
DISTRICT TRIADELPHIA COUNTY LOGAN
QUADRANGLE PILOT KNOB, 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 _____ 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 War Creek, Gilbert + Douglas Co ESTIMATED DEPTH 2400
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

AUG 17 2001

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

Ar-17

Well Operator's Report of Well Work

Farm Name Pocahontas Land Corporation

Operator Well No.: LC-83C

LOCATION Elevation: 5757-2757

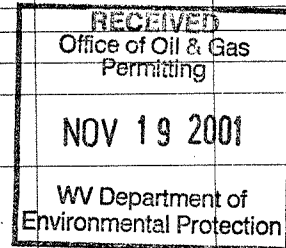
Quadrangle: Pilot Knob 7 1/2'

District: Triadelphia County: Logan
Latitude: 14870 Feet South of 37 Deg. 50 Min. 00 Sec.
Longitude: 9400 Feet West of 81 Deg. 35 Min. 00 Sec.

Company:

Penn Virginia Oil & Gas Corporation

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	9 5/8"	30'	30'	0
Duffield, VA 24244	7"	1017'	1017'	197
Agent: Harry Jewell	4 1/2"	2175'	2175'	301
Inspector: Ofie Helmick				
Date Permit Issued: 08/16/2001				
Date Well Work Commenced: 08/29/2001				
Date Well Work Completed: 11/15/2001				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2,250				
Fresh Water Depth (ft):				
Damp @ 100'				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):				
528'-531', 635'-637', 705'-707' See Log				



OPEN FLOW DATA

Producing formation War Eagle, Gilbert, & Douglas Coals 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 CHANE, TEC. 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: 11/16/01

NOV 30 2001

LOG 1433C

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

PERFORATIONS AND FRACTURING

Stage-1- Upper Douglas Coal- Perforated from 1980' to 1982' with 8 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 220 bbls water and 4900 lbs 20/40 sand. ISIP: 1511 psi. ATP: 3520 psi. ATR: 17 BPM.

Stage 2- Lower War Eagle & Gilbert A Coals - Perforated from 1702' to 1704' with 8 holes, 1714' to 1716' with 8 holes, 1768' to 1770' with 8 holes, 1780' to 1782' with 8 holes and 1818' to 1820' with 8 holes. Breakdown with 375 gallons 7.5% HCL acid and water. Treated with 537 bbls water and 20000 lbs 20/40 sand. ISIP: 1035 psi. ATP: 1495 psi. ATR: 20 BPM.

Stage 3-Upper War Eagle, Middle War Eagle Coals- Perforated from 1475' to 1479' with 16 holes, 1528' to 1530' with 8 holes, 1545' to 1547' with 8 holes and 1586' to 1588' with 8 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 535 bbls water and 20100 lbs 20/40 sand. ISIP: 1273 psi. ATP: 2295 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, shale, & coal	0	707	
Sand & shale	707	1100	
Coal	1100	1103	
Sand	1103	1158	
Shale	1158	1181	
Coal	1181	1183	
Sand & shale	1183	1267	
Eagle coal	1267	1272	
Sand, shale, & coals	1272	1370	
Shale	1370	1474	
Upper War Eagle	1474	1475	
Sand & shale	1475	1532	
Shale & coal	1532	1547	Middle War Eagle coals @ 1530-1532 & 1546-1547
Sand & shale	1547	1702	
Sand, Shale, & coals	1702	1819	Lower War Eagle coals @ 1702-1704 & 1715-1716,
Sand & shale	1819	1980	Gilbert A coal @ 1818-1819
Upper Douglas Coal	1980	1982	
Sand & shale	1982	2005	
Sand	2005	2130	
Shale	2130	2250	No shows reported