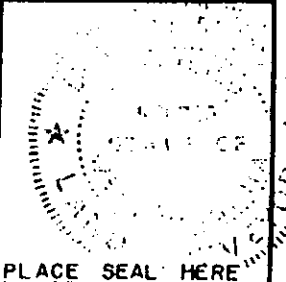


REFERENCES NO SCALE

FILE NO. _____
DRAWING NO. _____
SCALE 1"=2000'
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) Bryan D. Bowman
R.P.E. _____ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP
FORM IV-6 (8-78)
WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS #10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

DATE JANUARY 11 2000
OPERATOR'S WELL NO. LC-128
API WELL NO. 47-109-01874
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___)
LOCATION: ELEVATION 2547 WATER SHED CRANE FORK OF CLEAR FORK
DISTRICT OCEANA COUNTY WYOMING
QUADRANGLE PILOT Knob, WV 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 22500±
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORPORATION LEASE ACREAGE 22500±
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 Ravencliff, Big Lime, Garden ESTIMATED DEPTH 4700'
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

WYO 1874

WR-35

DATE: 6/27/00
API #: 47-109-01874

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-128

LOCATION: Elevation: 2547' Quadrangle: Pilot Knob

District: Oceana County: Wyoming
Latitude 2300 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 2200 Feet West of 81 Deg. 30 Min. 0 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"	32'	32'	0
Duffield, VA 24244	9 5/8"	185'	185'	115
Agent: Harry Jewell	7"	2013'	2013'	405
Inspector: Ofie Helmick	4 1/2"	4560'	4560'	428
Date Permit Issued: 02/22/00				
Date Well Work Commenced: 03/06/00				
Date Well Work Completed: <u>5/15/00</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 4610'				
Fresh Water Depth (ft.): Damp at 66'				
1 1/2" at 125', Damp at 418', 1 1/2" at 806'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): 258-260', 319-322, 415'-418', 878-881', 1735-1737, 1913-1918				

RECEIVED
Office of Oil & Gas
Permitting
JUL 03 2000
WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation Ravencliff, Big Lime, Gordon Pay zone depth (ft)
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1241 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 385 psig (surface pressure) after 48 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: 6/28/00

AUG 11 2000

WYO 1874

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01874
WELL #: LC-128

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

Stage 1	Gordon	Perforated from 4444' to 4451' with 21 holes. Breakdown with 500 gallons 15% HCL acid and water. Treated with 161 bbls water, 40375 lbs 20/40 sand and 263000 SCF N2. ISIP: 1639 psi. ATP: 1492 psi. ATR: 25 BPM.
Stage 2	Big Lime (Denmar)	Perforated from 3688' to 3693' with 15 holes. Breakdown with 500 gallons 15% HCL acid and N2. Treated with 1500 gallons 15% HCL acid and 224000 SCF N2. ISIP: 2174 psi. ATP: 2495 psi. ATR: 20 BPM
Stage 3	Ravenclyff	Perforated from 2566' to 2574' with 24 holes and from 2556' to 2560' with 8 holes. Breakdown with 500 gallons 15% HCL acid and N2. Treated with 147 bbls water, 26890 lbs 20/40 sand and 346000 SCF N2. ISIP: 2715 psi. ATP: 2568 psi. ATR: 25 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale, & Coal	0	1918	
Sand & Shale	1918	2050	
Sand	2050	2150	
Sand & Shale	2150	2392	
Sand	2392	2437	
Shale	2437	2490	
Sand & Shale	2490	2552	
Ravenclyff Sand	2532	2575	
Avis Limestone	2575	2610	
Shale & Red Rock	2610	3135	Gas checks @ 2629-No show
Sand & Shale	3135	3165	
Sand	3165	3224	
Shale	3224	3242	
Little Lime	3242	3326	
Lime & Shale	3326	3340	
Big Lime	3340	3750	Gas checks @ 3499-88 MCF
Shale	3750	3862	Gas checks @ 3744-139 MCF
Weir	3862	3894	
Shale	3894	4246	
Coffee Shale	4246	4258	
Shale	4258	4436	
Gordon	4436	4457	
Shale	4457	4614	