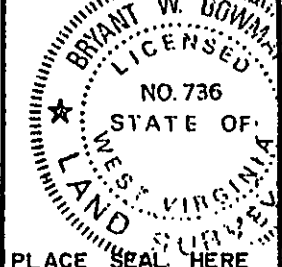


REFERENCES NO SCALE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/10000
 PROVEN SOURCE OF ELEVATION MM-T MONUMENT NE OF LOCATION F.L.F. 1948

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



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE JUNE 23, 19 98
 OPERATOR'S WELL NO. 48C-MM3
 API WELL NO. 47-081-01143CP
 STATE COUNTY PERMIT

Oil & Gas Division

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 1979 WATER SHED UT OF MAPLE MINING CREEK
 DISTRICT TRAP HILL COUNTY RALEIGH
 QUADRANGLE ARNETT, WV 7.5'
 SURFACE OWNER MAPLE MEADOW MINING ACREAGE 340±
 OIL & GAS ROYALTY OWNER MAPLE MEADOW MINING LEASE ACREAGE 1100±
 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 COAL ESTIMATED DEPTH 850'
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS 999 EXECUTIVE PARK BLVD., SUITE 300 ADDRESS PO BOX 460
KINGSPORT, TN 37660 RAVENCLIFF, WV 25913

RAI 1143 CP

WR-35

22-Jul-98
API # 47- 81-01143 C

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

Well Operator's Report of Well Work

Farm name: MAPLE MEADOW MINING Operator Well No.: 48C-MM3

LOCATION: Elevation: 1,979.00 Quadrangle: ARNETT

District: TRAP HILL County: RALEIGH
Latitude: 12350 Feet South of 37 Deg. 47Min. 30 Sec.
Longitude 450 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: PENN VIRGINIA OIL AND GAS
999 EXEC. PARK BLVD., STE. 300
KINGSPORT, TN 37660-0000

Agent: HARRY JEWELL, III

Inspector: RODNEY DILLON
Permit Issued: 07/22/98
Well work Commenced: 08/11/98
Well work Completed: 08/24/98
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 780'
Fresh water depths (ft) _____
3" at 170'
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 501-504, 545-549

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	20'	20'	0
7"	450'	450'	118

OPEN FLOW DATA

Producing formation Beckley Coal-open mine Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 15 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure TSTM _____ 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.

For: PENN VIRGINIA OIL AND GAS CORPORATION

By: William M. Ryan
Date: 1/21/99

FEB 19 1999

RAL 1143 C

FORM WR-35R
(REVERSE)

PERMIT #: 47-081-01143 C
WELL#: 48C-MM3

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand & Shale	0	501	
Coal	501	504	
Sand & Shale	504	545	
Coal	545	549	
Sand & Shale	549	762	
Open Mine	762	768	Show of gas in open mine
Sand	768	780	