

FILE NO. _____

DRAWING NO. _____

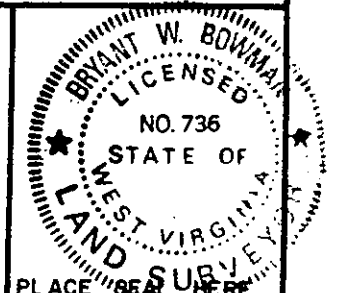
SCALE 1"=1000'

MINIMUM DEGREE OF ACCURACY 1/3000

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)

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

LOCATION: ELEVATION 2599 WATER SHED TONY FORK
DISTRICT OCEANA COUNTY WYOMING
QUADRANGLE MATHENY, WV 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 23058±
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORPORATION LEASE ACREAGE 34585±
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 See Lt. Rol. Rec. Fire Crk. Rec. 456 ESTIMATED DEPTH 2600' 6-6

WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL 20 1998

ADDRESS 999 EXECUTIVE PARK BLVD., SUITE 300 ADDRESS PO BOX 460
KINGSPORT, TN 37660 RAVENCLIFF, WV 25913

DATE MAY 25, 19 98

OPERATOR'S WELL NO. 40C

API WELL NO. 47-109-01743C

STATE COUNTY PERMIT

Department of Mines
Oil & Gas Division

WYO 1743C

WR-35

16-Jul-98
API # 47-109-01743 C

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

Checked by
Date
JAN 21 1999

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP Operator Well No.: 40C

LOCATION: Elevation: 2,599.00 Quadrangle: MATHENY

District: OCEANA County: WYOMING
Latitude: 3200 Feet South of 37 Deg. 45Min. 0 Sec.
Longitude 7600 Feet West of 81 Deg. 32 Min. 30 Sec.

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

Agent: HARRY JEWELL, III

Inspector: OFIE HELMICK
Permit Issued: 07/16/98
Well work Commenced: 09/23/98
Well work Completed: 11/10/98
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 2330'
Fresh water depths (ft) _____
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	10'	10'	0
9 5/8"	257'	257'	112
4 1/2"	2299'	2299'	640
2 3/8"		2270'	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

OPEN FLOW DATA

Poca 6 Coal & Poca 4 Coal;
Beckley Coal, Fire Creek

Producing formation Coal and Fire Creek Sand 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 _____ Hours
 Static rock Pressure N/A _____ 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: 1/15/99

REC 01411

WYO 1743 C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01743c
WELL#: 40C

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

Stage 1	Poca 4 Coal	Perforated from 2234' to 2237' with 12 holes. Breakdown with 500 gallons of 7½% HCL acid and water. Treated with 261 bbls of water and 4435 lbs of 12/20 sand. ATR: 18 BPM ATP: 1250 psi ISIP: 1050 psi
Stage 2	Poca 6 Coal, Lower Fire Creek Coal, and Fire Creek Sand	Perforated the Poca 6 Coal from 2109' to 2112' with 4 holes, Lower Fire Creek Coal from 2080' to 2085' with 6 holes and Fire Creek Sand from 2072' to 2077' with 6 holes. Breakdown with 500 gallons 7½% HCL acid and water. Treated with 316 bbls of water and 14531 lbs 12/20 sand. ATR: 18 BPM ATP: 1600 psi ISIP: 1150 psi
Stage 3	Lower Beckley Coal	Perforated from 1980' to 1984' with 8 holes and 2003' to 2006' with 8 holes. Breakdown with 250 gallons of 7½% HCL acid and water. Treated with 354 bbls of water and 8532 lbs of 12/20 sand. ATR: 18 BPM ATP: 2600 psi ISIP: 1500 psi

Install pump jack and pump water.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale & Coal	0	350	Coals @ 108-109, 160-161, 261-262, 364-366, 690-693, 789-791, 852-854, 1024-1026, 1326-1329
Shale & Coal	350	495	
Sand	495	580	
Sand, Shale & Coal	580	775	
Sand	775	820	
Shale & Coal	820	875	
Sand	875	945	
Sand, Shale, & Coal	945	1550	
Sand	1550	1785	
Sand & Shale	1785	1855	
Sand	1855	1930	
Sand & Shale	1930	1981	
Coal & Shale Lower Beckley	1981	2005	
Sand & Shale	2005	2044	
Sand	2044	2081	
Coal Lower Fire Creek	2081	2084	
Sand & Shale	2084	2110	
Coal Poca 6	2110	2111	
Sand & Shale	2111	2165	
Sand	2165	2235	
Coal Poca 4	2235	2236	
Sand & Shale	2236	2322	No shows reported