

LATITUDE 38°10'00"

LONGITUDE 82°27'30"

10900'

A. S86°51'07"W 435.350
B. S24°38'00"E 352.886'
C. N85°00'00"E 157.096'
D. S44°40'20"E 431.812'
E. N59°19'04"E 250.488'

MARY ANN ROWE
DB 555/165
TM 22 P-73

WYMAN QUEEN
355/417
23 P-4,5,6, AND 7

DOROTHY WATTS ETAL
DB 174/482

CHARLES BALL
DB 440/485
TM 27 PI

PROPOSED WELL

349 DD

28" FORKED BLACK OAK

BLACK STUMP

FRANCO FRAZIER
587/323
23 P-23.1

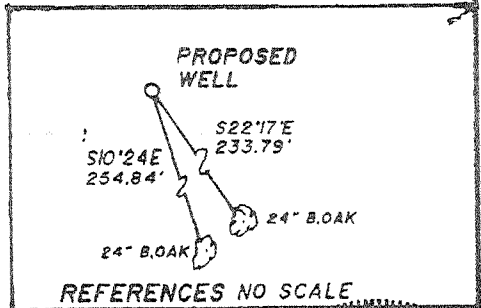
WILLIS FERGUSON
DB 559/223
TM 22 P-50

HELEN MORRISON
WB 16/414
TM 27 P-4

ROUTE 52/55

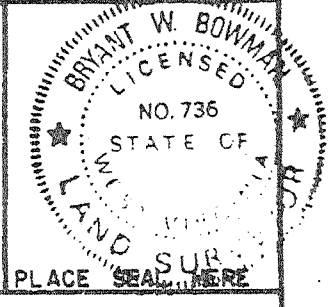
TOPO LOCATION

2.065
0.91W



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/5000
 PROVEN SOURCE OF ELEVATION EXISTING WELL 349
 ELEVATION 920

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND PRESCRIBED BY THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Bryant W. Bowman
 L.L.S. 736



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

DATE JULY 6, 1998
 OPERATOR'S WELL NO. BALL L-1
 API WELL NO. _____

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

47 - 099 - 01944
 COUNTY COUNTY COUNTY

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WATER DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 968 WATER _____ DISTRICT BUTLER COUNTY WAYNE
 QUADRANGLE WAYNE, WV 7.5'

SURFACE OWNER DOROTHY WATTS ETAL ACREAGE 49±
 OIL & GAS ROYALTY OWNER DOROTHY WATTS ETAL LEASE ACREAGE 49±
 LEASE NO. _____

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG _____ OIL FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REGRAB _____
 TARGET FORMATION BIG SIX ESTIMATED DEPTH 4500' 66 353
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNED AGENT MR. HARRY JEWEL
 ADDRESS 999 EXECUTIVE PARK BLVD, SUITE 300 ADDRESS PO BOX 450
KINGSPORT, TN 37660 RAVENCLIFF, WV 25993
DEEP WELL

JUL 27 1998

Charleston, WV

CHARLESTON BLUEPRINT 087163

WAY 1944

WR-35

27-Jul-98
API # 47- 99-01944

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

Reviewed JB

Well Operator's Report of Well Work

Farm name: WATTS, DOROTHY Operator Well No.: BALL L-1

LOCATION: Elevation: 968.00 Quadrangle: WAYNE

District: BUTLER County: WAYNE
Latitude: 10900 Feet South of 38 Deg. 10Min. 0 Sec.
Longitude 4350 Feet West of 82 Deg. 27 Min. 30 Sec.

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

Agent: HARRY JEWELL, III

Inspector: DAVE BELCHER
Permit Issued: 07/23/98
Well work Commenced: 11/23/98
Well work Completed: 3/1/99 STILL TESTING
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 4135
Fresh water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
20"	11'	11'	N/A
13 3/8"	308'	308'	271
9 5/8"	1470'	1470'	482
7"	3367'	3367'	360
4 1/2"	4127'	4127'	130

Salt water depths (ft) 1/2" - 800'
3" - 1354'
Is coal being mined in area (Y/N) _____
Coal Depths (ft): 712' - 715'

RECEIVED
DIVISION OF OIL & GAS
PRODUCTION
JUL 07 1999
DIVISION OF
Environmental Protection

OPEN FLOW DATA

Producing formation LOCKPORT Pay zone depth (ft) 3996-4005
Gas: Initial open flow 103 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 72 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1200 psig (surface pressure) after 60 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: James K. Wilson
Date: 7/6/99

JUL 19 1999

MAY 1999

FORM WR-35
(REVERSE)

PERMIT # 47-99-01944
WELL # L-1

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

PERFS - 3996 - 3999 - 6 SPF
4002 - 4005 - 6 SPF

1-23-99 - BROKE WITH 100 GALLONS OF 7 1/2% HCL
FRACED WITH 7,000 GALLONS GELLED 15% ACID AND 1,000 GALLONS OF TESTED WATER
AVERAGE RATE = 4.5 BL/MIN @ 2791. ISIP = 1314

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
BREATHITT FORMATION	SURFACE	910	
SALT SAND	910	1357	
PENNINGTON FORMATION	1357	1400	
LITTLE LIME	1400	1435	
BIG LIME	1435	1540	
BIG INJUN	1540	1733	
BORDEN	1733	2222	
BEREA	2222	2336	
DEVONIAN SHALE	2336	3313	
CORNIFEROUS	3313	4036	
BIG SIX	4036	4066	
ROSE HILL	4066	TD	

