

8,950

LATITUDE 39-22-30 N

Todbielski et al
69.06 ac.

Derrison
88 ac.

Goddard
56 ac.

Location
Day No. 1

3000
(25)

N87-33W 1364'

N75-30W 1540'

stone

stone

S09-30E 218.6'

S86-30W 57.8'

(fd. 16" history of
3 way fence corner)

480 0?

N75-30E 79.2'

chestnut

small R.O.

N04-30E 781.0'

stone & W.O.

N21-30E 243.3'

C.O.

N07-30E 401.5'

stone

N50W 367.1'

stone

N32-45E 272.2'

beech

N10-45E 267.0'

stone

Todd
42 ac.

N58-30W 643.8'

5
6

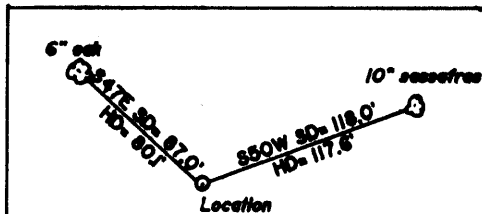
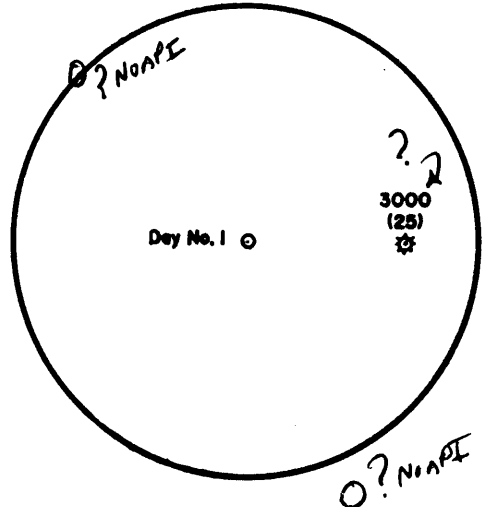
Goddard
5.4 ac.

W.O.
(fd. corner of
rail fence)

Miller
132.78 ac.

Homan
85.29 ac.

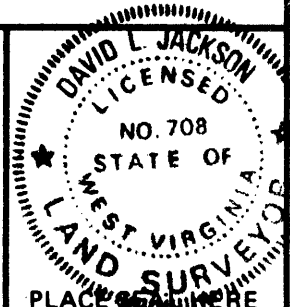
1.815 ?
351W
4.375 = 15'
1.70 W



REFERENCES

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1 in 200
PROVEN SOURCE OF
ELEVATION Hill Top 2,300' SE
of Location: elev. 1454'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) David L. Jackson
R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



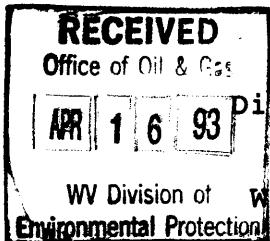
DATE September 4, 19 92
OPERATOR'S WELL NO. Day No. 1
API WELL NO.
47 - 033 - 3904
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1390 WATER SHED Grass Run
DISTRICT Sards COUNTY Harrison
QUADRANGLE Salem 7112' Antwerp (E.C.)
SURFACE OWNER Bertha L. Morgan ACREAGE 66.9
OIL & GAS ROYALTY OWNER Rosalena Day LEASE ACREAGE 66.9
LEASE NO. 460900
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

OCT 16 1992

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Benson ESTIMATED DEPTH 5000
WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Eric R. Stearns 6-6 Salem (102)

FORM IV-6 (8-78)



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

WV Division of Environmental Protection Well Operator's Report of Well Work

Farm name: MORGAN, BERTHA L. Operator Well No.: DAY #1

LOCATION: Elevation: 1390.00 Quadrangle: SALEM

District: SARDIS County: HARRISON
Latitude: 7800 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 8950 Feet West of 80 Deg. 30 Min. 0 Sec.

Company: PETROLEUM DEVELOPMENT COR
P. O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: TIM BENNETT
Permit Issued: 10/09/92
Well work Commenced: 11/20/92
Well work Completed: 11/28/92
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5654'
Fresh water depths (ft) _____
359; 816; 2117
Salt water depths (ft) _____
n/a
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 360-365; 703-708;
880-884; 1264-1268

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	38'	38'	
8 5/8"	1359'	1359'	325 sks
4 1/2"	5565'	5565'	440 sks

OPEN FLOW DATA

Producing formation Benson/Speechley Pay zone depth (ft) 3865-3866.5
Gas: Initial open flow 58 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 301 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1570 psig (surface pressure) after 72 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.

Eric R. Stearns

For: PETROLEUM DEVELOPMENT CORP.

Reviewed TMB
Recorded _____

By: Eric R. Stearns
Date: March 17, 1993

Day #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st	Benson / Speechley	6(3865-3866.5) 6(5416-5417.5)	100	700	500	84

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10	
sand, shale, RR	10	2387	1/2" Stream H2O @ 359
Little Lime	2387	2403	3/4" Stream H2O @ 816
sand, shale	2403	2433	3/4" Stream H2O @ 2117
Big Lime	2433	2476	Coal 360-365; 703-708
sand, shale	2476	2483	Coal 880-884; 1264-1268
Big Injun	2483	2548	gas chk @ 2381' No Show
sand, shale	2548	2553	
Squaw	2553	2574	
sand, shale	2574	2935	gas chk @ 2662' No Show
Gantz	2935	2948	
sand, shale	2948	3035	
Gordon Stray	3035	3051	
sand, shale	3051	3108	gas chk @ 3100' No Show
Gordon	3108	3156	
sand, shale	3156	3184	
4th	3184	3180	
sand, shale	3180	3539	gas chk @ 3223' No Show
Speechley	3539	3936	gas chk @ 3412' No Show
sand, shale	3936	3986	
Balltown	3986	4417	gas chk @ 4007' No Show
sand, shale	4417	4463	
Bradford	4463	4579	gas chk @ 4820' No Show
sand, shale	4579	5295	gas chk @ 5165' 12/10-2"H2O
Riley	5295	5393	gas chk @ 5352' 20/10-2"H2O
sand, shale	5393	5455	gas chk @ 5446' 30/10-2"H2O
Benson	5455	5512	gas chk @ 5509' 30/10-2"H2O
sand, shale	5512	5664	Driller TD 30/10-1"H2O
		5654	Logger TD

DF-424
DFF-435

RECEIVED
 Environmental Protection
 FORM WW-2B
 SEP 25 1992
 Permitting
 Office of Oil & Gas

ISSUED 10/9/92
 033-3904 Expires 10/9/94

Page ___ of ___

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Petroleum Development Corporation 38200 (7) 595
- 2) Operator's Well Number: Day #1 3) Elevation: 1390'
- 4) Well type: (a) Oil ___ / or Gas XX /
 (b) If Gas: Production XX / Underground Storage ___ /
 Deep 439 / Shallow XX /
- 5) Proposed Target Formation(s): Alexander Sand
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 45', 135', 235', 630', 840'
- 8) Approximate salt water depths: 2115' - If Present
- 9) Approximate coal seam depths: 910', 1170', 1250'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XX /
- 11) Proposed Well Work: Drill & Stimulate New Well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"	H-40	42#	30'	-----	-----
Fresh Water						3805R1811.3
Coal						3805R1811.2
Intermediate	8 5/8"	H-40	20/23#	1350'	1350'	Surface
Production	4 1/2"	J-55	10.5#	5900'	5900'	400 SKS
Tubing						3805R1811.1
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Surety Blanket Agent
 (Type)

14327

001444
 33

RECEIVED
WV Division of
Environmental Protection
SEP 25 92
Permitting
Office of Oil & Gas

1) Date: September 8, 1992
2) Operator's well number
Day #1
3) API Well No: 47 - 033 - 3904
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Bertha L. Morgan
Address 2100 Lakewood Drive
Baltimore, MD 21207
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
- Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name Consolidation Coal Corporation
Address 1800 Washington Road
Pittsburgh, PA 15241
- 6) Inspector Phillip Tracy
Address Route 2, Box 37A
Montrose, WV 26283
Telephone (304)- 636-8798

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties; by:

- _____ Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

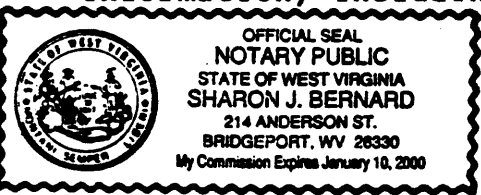
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator, Petroleum Development Corporation
By: [Signature]
Its: Geologist
Address P.O. Box 26
Bridgeport, WV 26330
Telephone (304) 842-6256

Subscribed and sworn before me this 8th day of SEPTEMBER, 1992



[Signature] Notary Public
My commission expires January 10, 2000

