

POCA. LAND CORP.
NEW RIVER COOR.:
N. 52,838.94'
W. 11,212.39'

Janice
12/11/91

LATITUDE 37°32'30"

1700'

POCA. LAND CORP. (FEE)
24,965 AC.

WB-47
(PLC NO.9)

3" REDBUD
1196Y

2244.75'

2644.64'

WEST

14" POPLAR
PAINTED ON LINE

EAST

N74°05'E 3377.50'

S47°16'W 1365.59'

LONGITUDE 81°35'00"

10,960'

1008 (25)
2233'

1022 (16)
2400'

WB-46
1606'
1240

WB-47
2400'

1204 (16)
1293'

01234
GAS

POCA. LAND CORP. (SUR.)
BERWIND LAND CO. (MIN.)
209.57 AC.

2.06
0.32

NORTH

SOUTH
3014.61'

01203

01202

01230

BAILEY BR.

WELL REFERENCES:
N38°30'E, 73' TO 12" HICKORY
S06°W, 76.50' TO 15" R.OAK

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

4.94
0.32

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1 in 2500
PROVEN SOURCE OF
ELEVATION TOP OF KNOB 450' N.E.
OF LOCATION ELEV. - 2052'

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 ENERGY.
(SIGNED) _____
R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE SEPTEMBER 13, 19 91
OPERATOR'S WELL NO. WB-47
API WELL NO. PLC NO. 9

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

LOCATION: ELEVATION 2014' WATERSHED INDIAN CREEK
DISTRICT CENTER 3 COUNTY WYOMING
QUADRANGLE PINEVILLE 7.5 min. *CL SC*

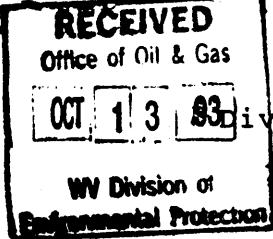
SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 24,965
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10050.85

PROPOSED WORK: DRILL 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 ESTIMATED DEPTH 2200'

WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
ADDRESS P. O. BOX 1430 ADDRESS P. O. BOX 1430
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

COUNTY NAME
PERMIT



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

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: WB 47 PLC 9

LOCATION: Elevation: 2,000.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
 Latitude: 10860 Feet South of 37 Deg. 32Min. 30 Sec.
 Longitude 1700 Feet West of 81 Deg. 35 Min. Sec.

Company: BOWIE, INC.
 P. O. DRAWER 1430
 CLARKSBURG, WV 26302-1430

Agent: WILLIAM H. BOWIE

Inspector: RODNEY DILLON
 Permit Issued: 12/13/91
 Well work Commenced: 3/2/90
 Well work Completed: 3/11/92
 Verbal Plugging
 Permission granted on:
 Rotary X Cable Rig
 Total Depth (feet) 2810 DTD
 Fresh water depths (ft) 164
 Salt water depths (ft) N/A
 Is coal being mined in area (Y/N)? Y
 Coal Depths (ft): 789-92 804-08 938-42
 1173-77 1226-30 1292-97

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 95/8 | 30' | -- | -- |
| 7" | 1425' | 1425' | 240sks |
| 4 1/2 | 2766' | 2766' | 135sks |
| | | | |
| | | | |

OPEN FLOW DATA

Producing formation Ravencliff/ Maxton Pay zone depth (ft) 1976-2656
 Gas: Initial open flow Show MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 474 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 360 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.

Reviewed TMG
 Recorded _____

For: BOWIE, INC. *W H Bowie*

By: _____
 Date: 10-17-93

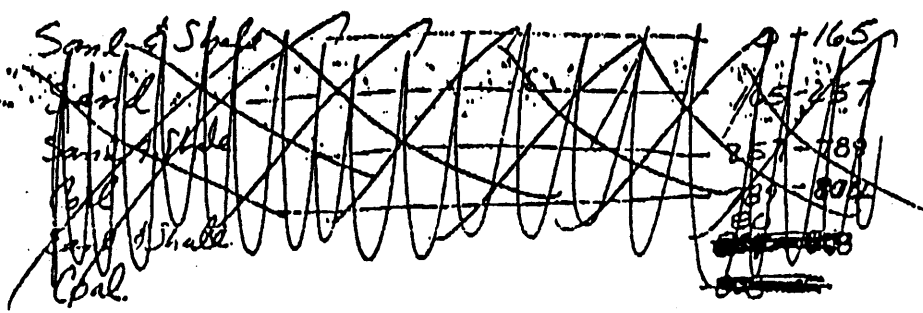
1993



I (2558-21656) 29 holes, 750 gal 15% HCL, 520 BBL 75Q FOAM, 400 SKS SAND, ATP = 3800'

II (1976-2045) 26 holes, 750 gal 15% HCL, 560 BBL 75Q FOAM, 500 SKS SAND, ATP = 3900'

7 1/2
10 1/2



| | |
|--------------|-------------------|
| FILL | 0 - 8 |
| Sand & Shale | 8 - 257 |
| Sand & Shale | 257 - 789 |
| Coal | 789 - 792 |
| Shale | 792 - 804 |
| Coal | 804 - 808 |
| Sand & Shale | 808 - 938 |
| Coal | 938 - 942 |
| Sand & Shale | 942 - 1173 |
| Coal | 942 - 1173 - 1177 |
| Sand & Shale | 1177 1173 - 1226 |
| Coal | 1226 - 1230 |
| Sand & Shale | 1230 - 1292 |
| Coal | 1292 - 1297 |
| Sand & Shale | 1297 - 1949 |
| Ravencliff | 1949 - 2045 |
| AVIS | 2045 - 2103 |
| Sand & Shale | 2103 - 2502 |
| MAXTON | 2502 - 2608 |
| Shale & Sand | 2608 - 2810 |

see next

GAS SHOW

GAS SHOW

DTD ..

DF-311

DPT-325

13019

RECEIVED
DEC 10 1991
DEPT. OF ENERGY
Page ____ of ____

109-1239
Drawn 12/13/91
Expires 12/13/93

FORM WW-2B

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

- 1) Well Operator: BOWIE, INC ¹⁰¹⁷ 6610 (3) 548
- 2) Operator's Well Number: WB-47 PLC # 9 3) Elevation: 2000
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep 319 Shallow
- 5) Proposed Target Formation(s): RAVENCLIFF
- 6) Proposed Total Depth: 2200 feet
- 7) Approximate fresh water strata depths: 500'
- 8) Approximate salt water depths: NA Wyo - 1008
- 9) Approximate coal seam depths: 879 947 1234
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: New Well
- 12)

CASING AND TUBING PROGRAM

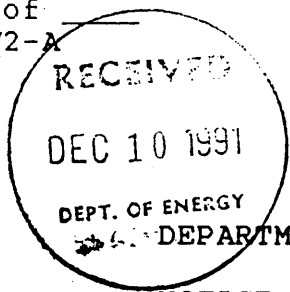
| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|--------------------|----------------|-------------------|----------------|--------------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | Fill-up (cu. ft.) |
| Conductor | 11 | API New | 40 | 39 | 30 | 38CSR 18-11-3 |
| Fresh Water | | | | | | |
| Coal | 7 | | | 1300' | 1300' | CMT. TO SURFACE |
| Intermediate | 7 | API New | 20 | 330 | 330 | 38CSR 18-11-2 |
| Production | 4 1/2 | API New | 10.5 | 2200 | 2200 | 38CSR 18-11-1 |
| Tubing | | | | | | |
| Liners | | | | | | |

PACKERS : Kind _____
Sizes _____
Depths set _____

2329
30

For Division of Oil and Gas Use Only

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



1) Date: September 19, 1991
2) Operator's well number WB 47 PIC # 9
3) API Well No: 47 - 109 - 1239
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 Pocahontas Land Corp.
Address Box 1517
Bluefield, WV 24701
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name U.S. Steel Mining Co.
Address P.O. Box 430
Gary, WV 24836
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Rodney Dillon
Address P.O. Box 131
President Bradley, WV 25818
Telephone (304)-877-2912

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
X 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)
- ___ 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 Bowie, Inc.
By: W. B. Boush
Its: President
Address P.O. Box 1430
Clarksburg, Wv 26302-1430
Telephone 304 622-8896

Subscribed and sworn before me this 22nd day of October, 1991

Dwight Rob Notary Public
My commission expires 09/21/98