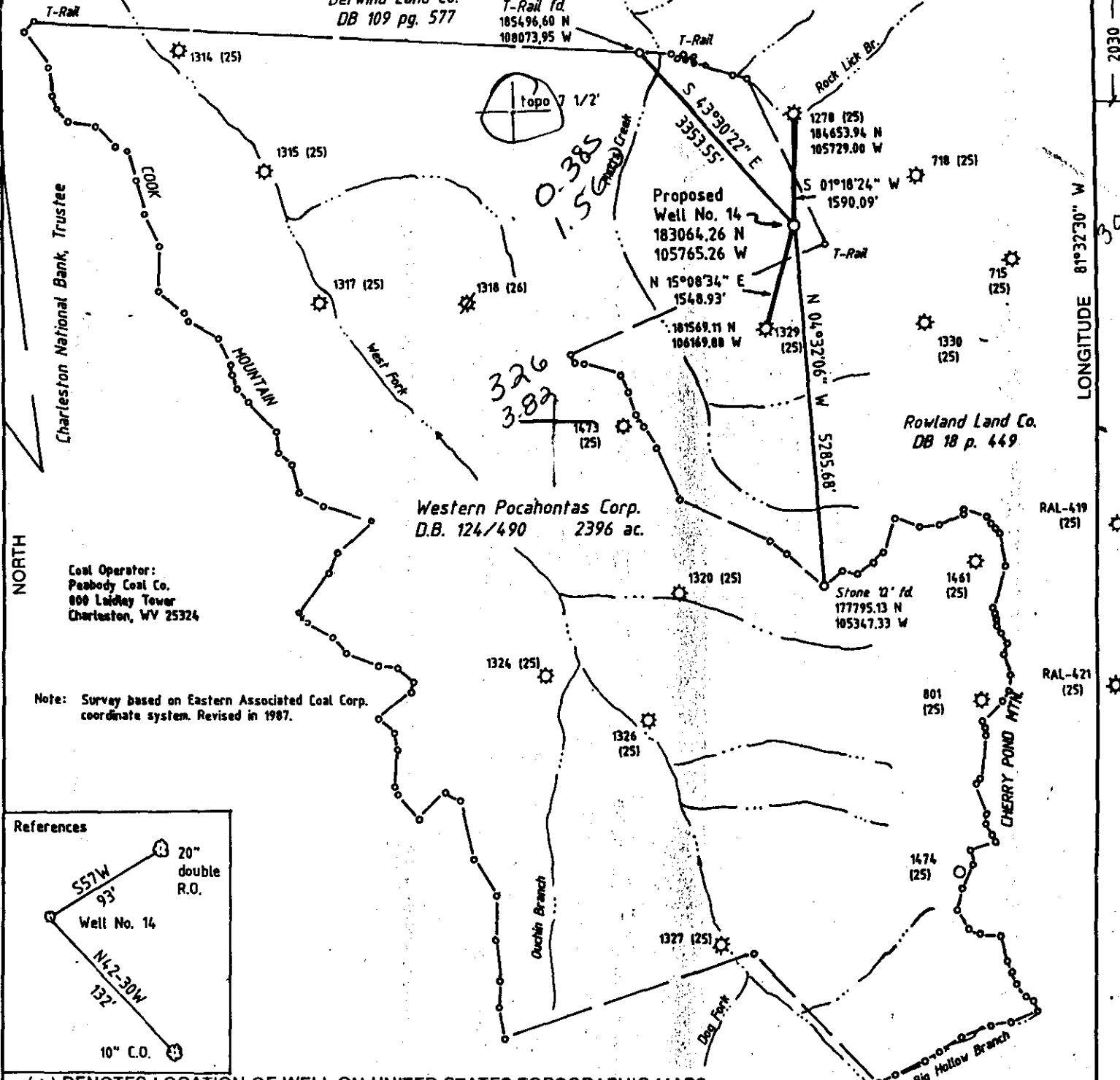


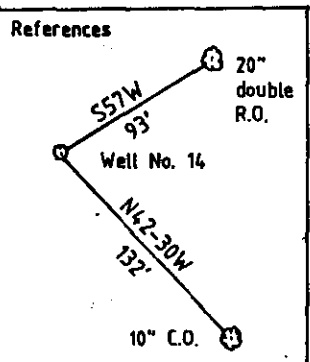
Jamie 6/7/88

8375' 3755
LATITUDE 37°52'30" N
LONGITUDE 81°02'31.8" W



Coal Operator:
Peabody Coal Co.
800 Laidlaw Tower
Charleston, WV 25324

Note: Survey based on Eastern Associated Coal Corp.
coordinate system. Revised in 1987.



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

FILE NO. _____
 DRAWING NO. 2
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 10,000
 PROVEN SOURCE OF ELEVATION BM: Elev. 1440
7700' NW of Location

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 ENERGY.
 (SIGNED) David A. Jackson
 R.P.E. _____ V.L.S. 708

DAVID A. JACKSON
 LICENSED SURVEYOR
 STATE OF WEST VIRGINIA
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE June 1, 19 88
 OPERATOR'S WELL NO. 14
 API WELL NO. 47-005-1479
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 2465 WATERSHED Matts Creek
 DISTRICT Crook COUNTY Boone
 QUADRANGLE Pilot Knob 7 1/2' 547 006 6 Bald Knob EC
 SURFACE OWNER Western Pocahontas Corp. ACREAGE 2396
 OIL & GAS ROYALTY OWNER Western Pocahontas Corp. LEASE ACREAGE 2396
 LEASE NO. 8087

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 Weir ESTIMATED DEPTH 4215
 WELL OPERATOR Natural Resource Management Corp. DESIGNATED AGENT Dave Cash, Natural Resource Management Corp.
 ADDRESS 681 Andersen Drive, Foster Plaza VI ADDRESS 312 Sixth Ave.
Pittsburgh, PA 15220 1049 Charleston, WV 25303

JUN 10 1988

6-6 unnamed (D)

H.T. HALL 48673 FORM WW-6

COUNTY NAME PERMIT

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: WESTERN POCAHONTAS, LTD. Operator Well No.: POCAHONTAS 14

LOCATION: Elevation: 2465.00 Quadrangle: PILOT KNOR

District: CROOK County: BOONE
Latitude: 2030 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude: 8375 Feet West of 81 Deg. 32 Min. 30 Sec.

| | | | | |
|--|------------|----------|---------|-----------|
| Company: NATURAL RESOURCE MANAGEHE | 61 Casings | Used in | Left | Cement |
| 681 ANDERSON DR. FOSTER PLAZA | 1 | 1 | 1 | Fill Up |
| PITTSBURGH, PA | Tubins | Drillins | in Well | Cu. Ft. |
| Agent: DAVE CASH | Size | | | |
| Inspector: JERRY HOLCOMB | 13-3/8" | 40' | - | Conductor |
| Permit Issued: 06/07/88 | | | | |
| Well work Commenced: June 24, 1988 | | | | |
| Well work Completed: July 1, 1988 | 9-5/8" | 1240' | 1240' | 265 SX |
| Verbal Plugging | | | | |
| Permission granted on: | | | | |
| Rotary X Cable Rig | | | | |
| Total Depth (feet) 4375 DTD | 4-1/2" | 4380' | 4380' | 75 SX |
| Fresh water depths (ft) 90 | | | | |
| Salt water depths (ft) None reported | | | | |
| Is coal being mined in area (Y/N)? Y | | | | |
| Coal Depths (ft): 105, 220, 365, 505, 509, 948, 1010, 1070, 1170 | | | | |

OPEN FLOW DATA

Producing formation Berea Pay zone depth (ft) 4315
 Gas: Initial open flow TSTM MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 169 MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 570 psig (surface pressure) after 72 Hours

Second producing formation WEIR Pay zone depth (ft) 3920
 Gas: Initial open flow TSTM MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 2900 MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 700 psig (surface pressure) after 72 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.

Paul J. Shuleski

For: NATURAL RESOURCE MANAGEMENT CORP.

By: Paul J. Shuleski, Regional Geology Manager

9/20/88

JAN 23 1989

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

- 1) Well Operator: ¹⁶⁴⁹ Natural Resource Management Corporation 34550, 1, 546
- 2) Operator's Well Number: Western Pocahontas #14 3) Elevation: 2465' gr.
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production / Underground Storage /
Deep Shallow /
- 5) Proposed Target Formation(s): WEIR 287
- 6) Proposed Total Depth: 4219 feet
- 7) Approximate fresh water strata depths: 60', 520' 1040'
- 8) Approximate salt water depths: None reported
- 9) Approximate coal seam depths: 145', 260', 405', 545', 550', 990', 1050', 1115', 1215'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DRILL
- 12)

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|--------------|------------------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | 13-3/8 | | 48 | 30' | 30' | |
| Fresh Water | | | | | | 30CSR18-11.2 30CSR18-11.1 |
| Coal | 9-5/8 | | 32.3 | 1250' | 1250' | |
| Intermediate | 7 | | 20 | 2650' | 2650' | 100 SKS |
| Production | 4-1/2 | | 10.5 | 4215' | 4215' | 30CSR18-11.1 As required |
| Tubing | | | | | | |
| Liners | | | | | | |

RECEIVED
JUN 06 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: 1516 Well Work Permit 16 Reclamation Fund 16 WPCP 16
16 Plat 16 WW-9 16 WW-2B 16 Bond 50 Blanket Agent 16
(Type)

7157

RECEIVED
JUN 06 1988

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: June 2, 1988
Operator's well number
WESTERN POCAHONTAS #14
API Well No: 47 - 005 - 1479
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Western Pocahontas Limited</u> Address <u>Partnership</u> <u>P. O. Box 2827</u></p> <p>(b) Name <u>Huntington, WV 25727</u> Address <u>Atten: Kevin Wall</u></p> <p>(c) Name _____ Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>Peabody Coal Company</u> Address <u>P. O. Box 1233 Atten: John Eagan</u> <u>Charleston, WV 25324</u></p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Western Pocahontas Limited Partnership</u> Address <u>P. O. Box 2827</u> <u>Huntington, WV 25727</u></p> <p>Name <u>Atten: Kevin Wall</u> Address _____</p> |
| <p>6) Inspector: <u>Jerry Holcomb</u> Address <u>Rt. 2, Box 159, Hwy #34</u> <u>Hamlin, WV 25523</u> Telephone <u>(304)- 824-5963</u></p> | <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Peabody Coal Company</u> Address <u>P. O. Box 1233 Atten: John Eagan</u> <u>Charleston WV 25324</u></p> |

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 7 on the above named parties, by:

- x 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 Natural Resource Management Corporation
By: Robert T. Golier Robert T. Golier
Its: Vice President and Eastern Region Manager
Address 681 Andersen Drive, Foster Plaza VI
Pittsburgh, PA 15220
Telephone 412-921-3700

Subscribed and sworn before me this 2nd day of JUNE, 1988

My commission expires APRIL 3, 1989

Notary Public
EDWARD F. VALENTAS, NOTARY PUBLIC
GREEN TREE BORO, ALLEGHENY COUNTY
MY COMMISSION EXPIRES APRIL 3, 1989
Member, Pennsylvania Association of Notaries

DETAILS OF PERFORATED INTERVALS, FRACTURING, PHYSICAL CHANGES

First Stage: Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perfed 4314' to 4320' ^{169 mcf} with 10 holes. Pumped 304 bbls. water, 10,000# 20/40 sand, 225 SCFN₂/bbl. Brokedown formation at 3280 psig. Average treating rate 10.7 BPM. Average pressure 1025 psig ISIP A/F 550 psig.

Second Stage: Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perfed 3920' to 3938' ^{2900 mcf} with 16 holes. Pumped 659 bbls. water, 60,000# 20/40 sand, 250 SCFN₂/bbl. Brokedown on hydrostatic. Average treating rate 23 BPM. Average pressure 1500 psig. ISIP A/F 530 psig.

WELL LOG

 FORMATION COLOR HARD/SOFT | TOP FEET | BOTTOM FEET | REMARKS

DRILLER'S LOG:

| | | | |
|----------------|------|------|-------------------|
| | | | FW @ 90' |
| Shale | 0 | 670 | |
| Sand and Shale | 670 | 1480 | |
| Shale | 1430 | 2080 | |
| Salt Sand | 2080 | 2530 | |
| Sand and Shale | 2530 | 2940 | |
| Maxton Sand | 2940 | 3300 | |
| Sand and Shale | 3300 | 3430 | |
| Lime | 3430 | 3820 | GC @ 3995' - TSTM |
| Sand and Shale | 3820 | 4100 | GC @ TD - TSTM |
| Shale | 4100 | 4375 | |

DTD 4375

LTD 4420

FROM CDL:

| | | | |
|---------------|------|------|------------------------|
| Princeton SS | 2568 | 2714 | MAXTON TO L. WEIR 1109 |
| Ravenclyff SS | 2732 | 2803 | |
| Avis LS | 2842 | 2876 | |
| Maxton SS | 2942 | 3302 | |
| Little Lime | 3398 | 3454 | |
| Big Lime | 3489 | 3823 | |
| Upper Weir | 3920 | 3967 | |
| Lower Weir | 4049 | 4094 | |
| Sunbury Sh | 4290 | 4308 | |
| Berea SS | 4308 | 4321 | |

7158