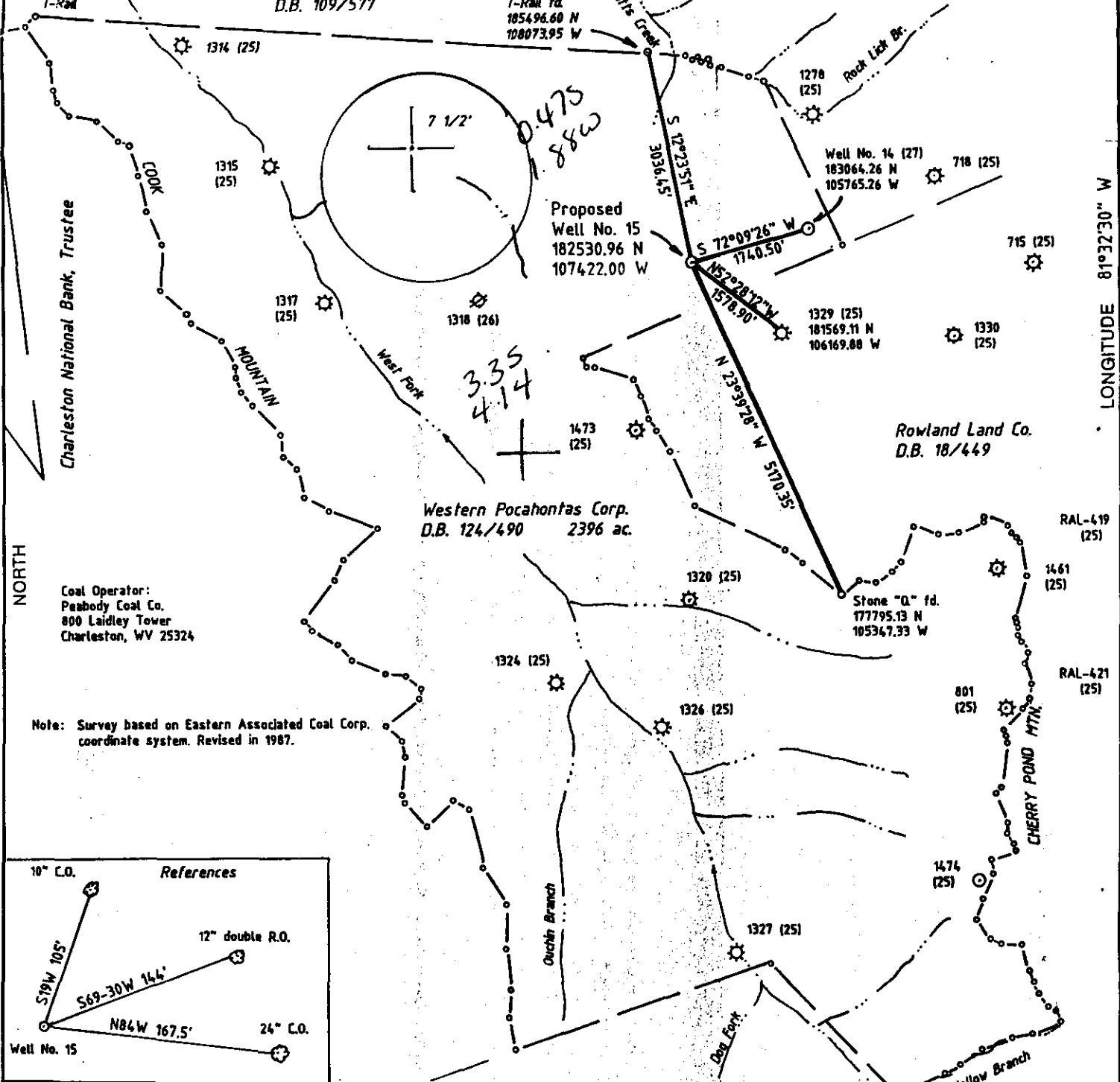
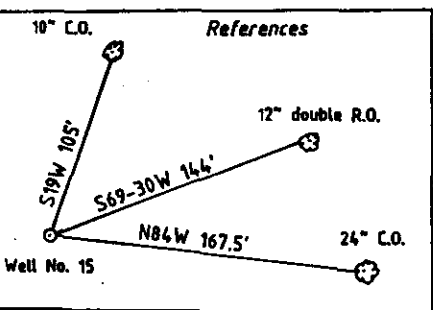


Jemie G/7/88



Coal Operator:
Peabody Coal Co.
800 Laidley 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
6000' 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 L. Jackson
R.P.E. _____ I.L.S. 708



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE June 2, 19 88
OPERATOR'S WELL NO. 15
API WELL NO. 47-005-1480
STATE 47 COUNTY 005 PERMIT 1480

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

LOCATION: ELEVATION 2087 WATERSHED Matts Creek
DISTRICT Crook 1 COUNTY Boone
QUADRANGLE Pilot Knob 7 1/2' 547 006 v 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 3850

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.
Pittsburg, PA 15220 1049 Charleston, WV 25303

JUN 10 1988

FORM WW-6 H.T. HALL 6-8673

COUNTY NAME PERMIT

6-6 unnamed (0)



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 15

LOCATION: Elevation: 2087.00 Quadrangle: PILOT KNOB

District: CROOK County: BOONE
Latitude: 2550 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude 9980 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: NATURAL RESOURCE MANAGEMEN	-----			
681 ANDERSON DR. FOSTER PLAZA	61	Casing	Used in	Left
PITTSBURGH, PA				Cement
				Fill Up
Agent: DAVE CASH		Tubing	Drilling	in Well
				Cu. Ft.
Inspector: JERRY HOLCOMB		Size		
Permit Issued: 06/07/88	13-3/8"	40'	-	Conductor
Well work Commenced: 6/15/88	-----			
Well work Completed: 6/22/88	9-5/8"	1030'	1030'	325 sx
Verbal Pluggings	-----			
Permission granted on:	-----			
Rotary <input checked="" type="checkbox"/> Cable _____ Ris _____				
Total Depth (feet) 4070 DTD	7"	2281'	2281'	100 sx
Fresh water depths (ft) 100	-----			
Salt water depths (ft) 1800	4-1/2"	4048'	4048'	75 sx

Is coal being mined in area (Y/N)? <u>Y</u>				
Coal Depths (ft): 153, 590, 652, 710, 843				

OPEN FLOW DATA

Producing formation WEIR Pay zone depth (ft) 3570
 Gas: Initial open flow 151M MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1390 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

Second producing formation Berea Pay zone depth (ft) 3552
 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

Commingled

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
 Date: 9/20/88

JAN 23 1989

DETAILS OF PERFORATED INTERVALS, FRACTURING, PHYSICAL CHANGES

Baffle at 3750' spotted 500 gal. 15% HCL, 500 gal. MeOH. Perfed 3949' to 3953' with 10 holes, pumped 210 bbls. gelled water, 8,500# 20/40 sand, 150 SCFN₂/bbl. Brokedown formation at 2100 psig. Average treating rate 10 BPM. Average pressure 850 psig. ISIP A/F 400 psig. Spotted 500 gal. 15% HCL and 500 gal. MeOH. Seated frac ball. Perfed 3566' to 3575' with 15 holes. Pumped 468 bbls. gelled water, 30,000# 20/40 sand, 150 SCFN₂/bbl. Formation brokedown on hydrostatic. Average treating rate 24 BPM. Average pressure 1300 psig. ISIP A/F 600 psig.

WELL LOG

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

DRILLER'S LOG:

Sand and Shale	0	1550	1-1/2" Str Sw @ 1800'
Shale	1550	1820	
Salt Sand	1820	2200	Odor of Gas @ 3600'
Sand and Shale	2200	3350	GC @ TD TSTM
Lime	3350	3450	
Sand and Shale	3450	3600	
Shale	3600	4070	
DTD	4070		
LTD	4080		

FROM CDL:

Princeton SS	2244	2343	
Ravenclyff SS	2362	2459	
Avis LS	2472	2506	
Maxton SS	2613	2956	
Little Lime	3034	3092	
Big Lime	3132	3460	
Upper Weir	3565	3599	
Lower Weir	3690	3715	
Sunbury Sh.	3923	3944	
Berea SS	3944	3952	

7158

FORM WW-2B

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

- 1) Well Operator: ¹⁰⁴⁹ Natural Resource Management Corporation 34550, 1, 546
- 2) Operator's Well Number: Western Pocahontas #15 3) Elevation: 2,087'
- 4) Well type: (a) Oil or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep Shallow
- 5) Proposed Target Formation(s): WEIR 387
- 6) Proposed Total Depth: 3,850 feet
- 7) Approximate fresh water strata depths: 170', 450', 660', 899'
- 8) Approximate salt water depths: None reported
- 9) Approximate coal seam depths: 150', 587, 647, 717, 837 *possible open mine at 899-703'*
- 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	Fill-up (cu. ft.)
Conductor	13-3/8		48	30'	30'	
Fresh Water						38CSR18-11.3 38CSR18-11.2
Coal	9-5/8		32.3	900' 930'	900' 930'	CTS
Intermediate	7		20	2,300'	2,300'	100 SKS
Production	4-1/2		10.5	3,850'	3,850'	← 38CSR-18-11.1 As required
Tubing						
Liners						

RECEIVED
 JUN 06 1988

PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

1517
 7158
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 5 Blanket Agent
 (Type)

RECEIVED
JUN 06 1988

DIVISION OF OIL & GAS³
DEPARTMENT OF ENERGY

Date: June 2, 1988
Operator's well number
WESTERN POCAHONTAS #15
API Well No: 47 - 005 - 1480
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 Western Pocahontas Limited
Address Partnership
P. O. Box 2827

(b) Name Huntington, WV 25727
Address Atten: Kevin Wall

(c) Name _____
Address _____

6) Inspector Jerry Holcomb
Address Rt. 2, Box 159, Hwy #34
Hamlin, WV 25523
Telephone (304)- 824-5963

5) (a) Coal Operator:

Name Peabody Coal Company
Address P. O. Box 1233 Atten: John Eagan
Charleston, WV 25324

(b) Coal Owner(s) with Declaration
Name Western Pocahontas Limited Partnership

Address P. O. Box 2827
Huntington, WV 25727

Name _____ Atten: Kevin Wall
Address _____

(c) Coal Lessee with Declaration
Name Peabody Coal Company
Address P. O. Box 1233 Atten: John Eagan
Charleston, WV 25324

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

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

