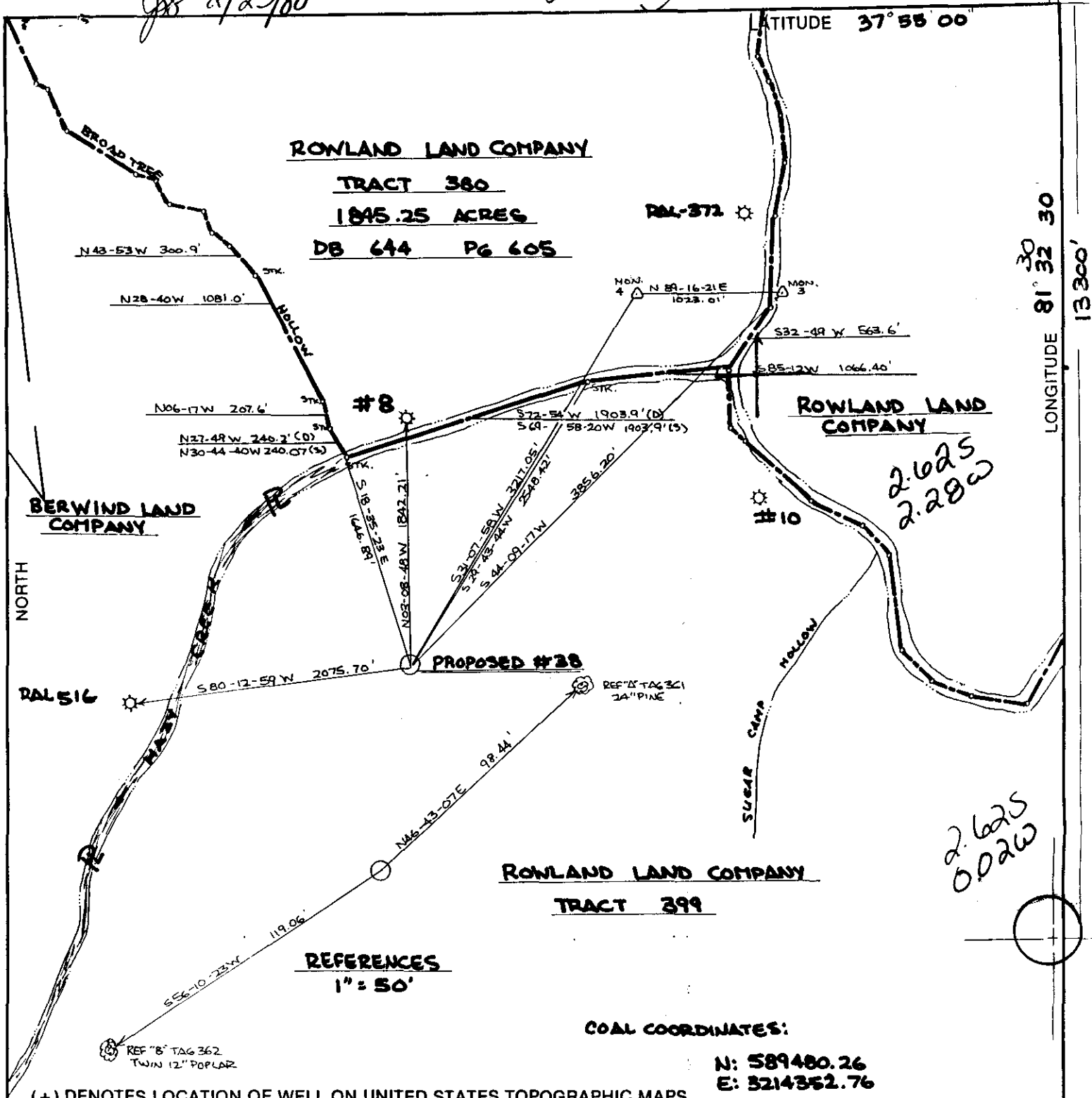


YJS 2/23/88



FILE NO. AW88-081-010
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 10000
 PROVEN SOURCE OF ELEVATION BM N-40x ±3200'
NE OF LOCATION
 ELEVATION = 984.657'

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) Ray James Capper
 R.P.E. 9456 L.L.S.



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE 10 FEBRUARY, 19 88
 OPERATOR'S WELL NO. ROWLAND #28
 API WELL NO. 47-081-0810

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

LOCATION: ELEVATION 1506.2' WATER SHED HAZY CREEK OF MARSH FORK
 DISTRICT MARSH FORK COUNTY RALEIGH
 QUADRANGLE WHITESVILLE 7.5' 677 006 6 Bald Knob EC

SURFACE OWNER ROWLAND LAND COMPANY, LTD. ACREAGE 7192.832
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 15,000
 LEASE NO. _____

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 MARCELLUS ESTIMATED DEPTH 5900'
 WELL OPERATOR ALEGHENY + WESTERN DESIGNATED AGENT DENNIS L. MANN
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHARLESTON, W.VA. 25329 004 CHARLESTON, W.VA. 25329

FEB 29 1988

6-6 Hopkins Fork. Jarrolds Valley (247)

M.T. HALL 4-8673 FORM WW-6

COUNTY NAME PERMIT

iso 2/24/88
 4P 190

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION (100)

- 1) Well Operator: Allegheny and Western Energy Corp., P.O. Box 2587, Chas., WV 25329
- 2) Operator's Well Number: Rowland Land Company #38 3) Elevation: 1506.2'
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Weir, Devonian and Marcellus Shales
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 30' 644' 853' 1115' 1079'
- 8) Approximate salt water depths: 500' 1994' 2233' 2960'
- 9) Approximate coal seam depths: 828'-831' none expected 1425-1428' 616-618' 854'-858' 1051'-1053'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XX /
from Raleigh 516, 517, 741, 743, 756
- 11) Proposed Well Work: Drill and Stimulate
- 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						
Fresh Water	9 5/8"	smls	32#	939	939	300 sks cts <i>38CSR18-113</i>
Coal	7"	smls	23#	2954	2954	200 sks <i>38CSR18-112</i>
Intermediate						
Production	4 1/2"	smls	10.5#	5900	5900	200-400 sks <i>38CSR18-111</i>
Tubing						
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 5 Well Work Permit 50 Reclamation Fund 50 WPCP
 Plat 5 WW-9 5 WW-2B 50 Bond 50 Blanket 50 Agent

6651

DEPARTMENT OF OIL & GAS
3

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

Date: 8 February 1988
Operator's well number
Rowland Land Company #38
API Well No: 47 - 081 - 0810
State - County - Permit

- 4) Surface Owner(s) to be served:
- (a) Name Rowland Land Company
Address 1033 Quarrier Street
Charleston, WV 25301
 - (b) Name
Address
 - (c) Name
Address
- 6) Inspector Rodney Dillon
- Address P.O. Box 1526
Sophia, WV 25921
 - Telephone (304)-683-3989
- 5) (a) Coal Operator:
- Name Peabody Coal Company
Address 1018 Kanawha Blvd., East
Charleston, WV 25301
 - (b) Coal Owner(s) with Declaration
Name Rowland Land Company
Address 1033 Quarrier Street
Charleston, WV 25301
 - Name
Address
 - (c) Coal Lessee with Declaration
Name Peabody Coal Company
Address 1018 Kanawha Blvd., East
Charleston, WV 25301

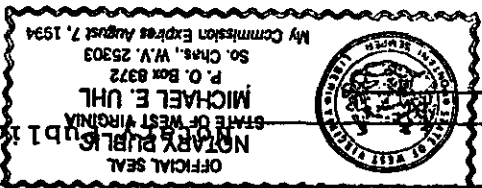
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

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) 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 Allegheny and Western Energy Corporation

By: *[Signature]*
Its: *[Signature]*
Address Post Office Box 2587
Charleston, West Virginia 25329
Telephone 304-343-4567

Subscribed and sworn before me this 19 day of February 1988
My commission expires August 7, 1994
[Signature]
My commission expires August 7, 1994



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

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: ROWLAND LAND COMPANY Operator Well No.: ROWLAND 38

LOCATION: Elevation: 1506.20 Quadrangle: WHITESVILLE

District: MARSH FORK County: RALEIGH
Latitude: 13800 Feet South of 37 Des. 55Min. 0 Sec.
Longitude 150 Feet West of 81 Des. 32Min. 30 Sec.

Company: ALLEGHENY & WESTERN ENERGY/DRILLING CORP				
P. O. BOX 2587 CHARLESTON, WV	Casings & Tubings	Used in Drillings	Left in Well	Cement Fill Up Cu. Ft.
Agent: DENNIS L. MANN	Size			
Inspector: RODNEY G. DILLON	13 3/8	40	0	0
Permit Issued: 02/24/88				
Well work Commenced: 3/11/88				
Well work Completed: 3/20/88				
Verbal Pluggings granted on:	9 5/8	968	969	355 sks
Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Ris				
Total Depth (feet) 5988	7	2538	2538	200 sks
Fresh water depths (ft) 30				
Salt water depths (ft) 500	4 1/2	5964	5964	235 sks
Is coal being mined in area (Y/N)? <input type="checkbox"/>				
Coal Depths (ft): N/A				

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 2937
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 409 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 525 psid (surface pressure) after 24 Hours

Second producing formation Devonian Shale Pay zone depth (ft) 3314
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 910 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 525 psid (surface pressure) after 24 Hours

1319
Mcf
FOF
for
well

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.

Dennis L. Mann VP/Chief of Operations
For: ALLEGHENY & WESTERN ENERGY/DRILLING CORP
By: *Dennis L. Mann* JUN 27 1988
Date: 6/17/88

J - R -
 5303-5926 perf w/ 50 holes frac w/ 45,000# 20/50 sd + 1250 gal 15% acid + 1,276,000 scf n2
 UpD 4018-5235 perf w/ 50 holes frac w/ 60,000# 20/50 sd + 1,000 gal 15% acid + 1,236,000 scf n2
 Weir 2937-3894 perf w/ 41 holes frac w/ 60,000# 20/50 sd + 1,000 gal 15% acid + 870,000 scf n2
 UpD

sandstone & shale	0	1696
salt sand	1696	1948
shale	1948	2036
salt sand	2036	2159
sand & shale	2159	2404
little lime	2404	2443
slate & lime	2443	2502
big lime	2502	2847
shale	2847	2921
weir	2921	3014
shale	3014	3304
sunbury shale	3304	3314
sandy siltstone & shale	3314	3510
grey & brown shale	3510	<u>5988</u>

TD 5988 KB.

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DEPARTMENT OF ENERGY

404 3314 1200
 815 4514 750
 820 5264 200
 825 5464 100
 830 5764

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