

2250'

LATITUDE 37°55'00"

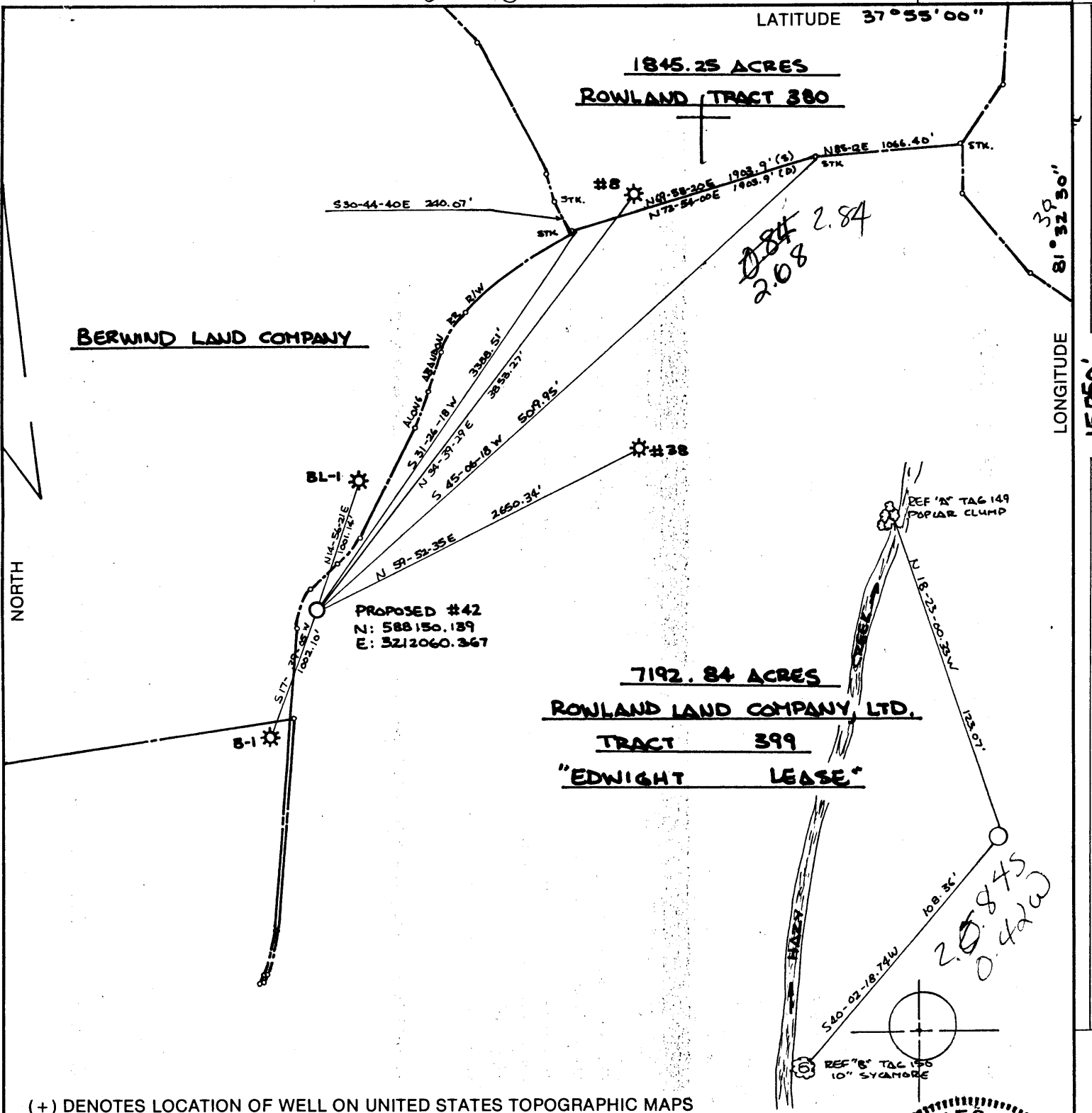
1845.25 ACRES
ROWLAND TRACT 380

BERWIND LAND COMPANY

LONGITUDE 81°22'50"

15050'

NORTH



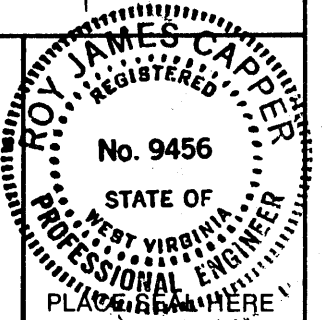
2.84
2.08

2.0845
0.422

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

FILE NO. AW 8808101
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 5000
 PROVEN SOURCE OF ELEVATION BM 40X ON BRIDGE IN EDWIGHT = 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) Roy James Capper
 R.P.E. 9456 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 10 MAY, 19 88
 OPERATOR'S WELL NO. ROWLAND #42
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1082' WATER SHED HAZY CREEK OF MARSH FORK
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE WHITESVILLE 7.5' 677 006 EC6 Bald Knob
 SURFACE OWNER ROWLAND LAND COMPANY, LTD. ACREAGE 7192.84
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 15000

COUNTY NAME PERMIT

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 ALLEGHENY + WESTERN DESIGNATED AGENT DENNIS L. MANU
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHARLESTON, WV 25329 019 CHARLESTON, WV 25329

MAY 20 1988

FORM WW-6 H.T. HALL 48673

hazy Hazy Creek T 11 44 11 (247)

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18-May-88
API # 47- 81-00819

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, LTD Operator Well No.: ROWLAND 42

LOCATION: Elevation: 1082.00 Quadrangle: WHITESVILLE

District: MARSH FORK County: RALEIGH
Latitude: 15050 Feet South of 37 Des. 55Min. 0 Sec.
Longitude 2250 Feet West of 81 Des. 32 Min. 30 Sec.

Company: ALLEGHENY & WESTERN ENERG
P. O. BOX 2587
CHARLESTON, WV

Agent: DENNIS L. MANN

Inspector: RODNEY G. DILLON
Permit Issued: 05/18/88
Well work Commenced: 5/20/88
Well work Completed: 5/26/88

Verbal Plussings
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 3049
Fresh water depths (ft) 20

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Size	Used in	Left	Cement
	Drilling	in Well	Fill Up
			Cu. Ft.
13 3/8	131	131	110 sks
9 5/8	531	531	170 Sks
7	2245	2245	200 sks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3039
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2054 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 560 psig (surface pressure) after 24 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.

OCT 28 1988

Dennis L. Mann

For: ALLEGHENY & WESTERN ENERGY DRILLING CORP

By: *Dennis L. Mann*
Date: June 30, 1988

Natural well

NATURAL

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

sandstone & shale	0	1375
limestone	1375	1418
sand & shale	1418	1664
salt sand	1664	1744
shale & sand	1744	1951
little lime	1951	2009
slate & lime	2009	2027
big lime	2027	2459
shale	2459	2543
weir	2543	2688
shale	2688	2900
sunbury	2900	2919
siltstone & shale	2919	3049

TD. 3049 KB.

7045

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MAY 17 1988

Page 1 of
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: 12 May 1988
Operator's well number
Rowland Land Company #42
API Well No: 47 - 081 - 0819
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 Rowland Land Company, Ltd.
 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, Ltd.
 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 XXX 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: VP/Chief of Operations
Address Post Office Box 2587
Charleston, West Virginia 25329
Telephone 304-343-4567

Subscribed and sworn before me this 16 day of May, 19 88

[Signature] Notary Public
My commission expires 1-12-1992

081-0819 Issued 5/18/88
Expires 5/18/90

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: ⁰⁰⁴ Allegheny and Western Energy Corporation 1100, 2, 676
- 2) Operator's Well Number: Rowland land Company #42 3) Elevation: 1082'
- 4) Well type: (a) Oil ___ / or Gas XX /
(b) If Gas: Production XX / Underground Storage ___ /
Deep ___ / Shallow XX /
- 5) Proposed Target Formation(s): ⁴⁴¹ Weir, Marcellus Shale
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 20
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: none expected
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XX /
- 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#	515	515 <i>cts</i>	300 sks cts
Coal	7"	smls	23#	2530	2530	200 sks
Intermediate						
Production	4 1/2"	smls	10.5#	5900	5900	200-400 sks
Tubing						
Liners						

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MAY 17 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 14 Well Work Permit 14 Reclamation Fund 14 WPCP
Plat 14 WW-9 14 WW-2B 14 Bond 50 Blanket Agent 14
(Type)

7045