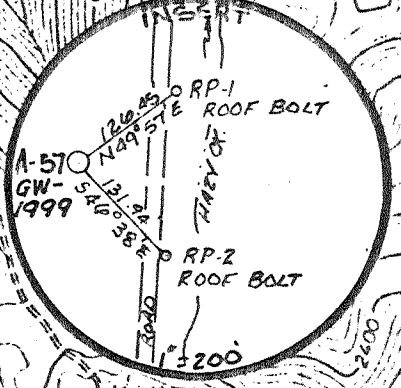
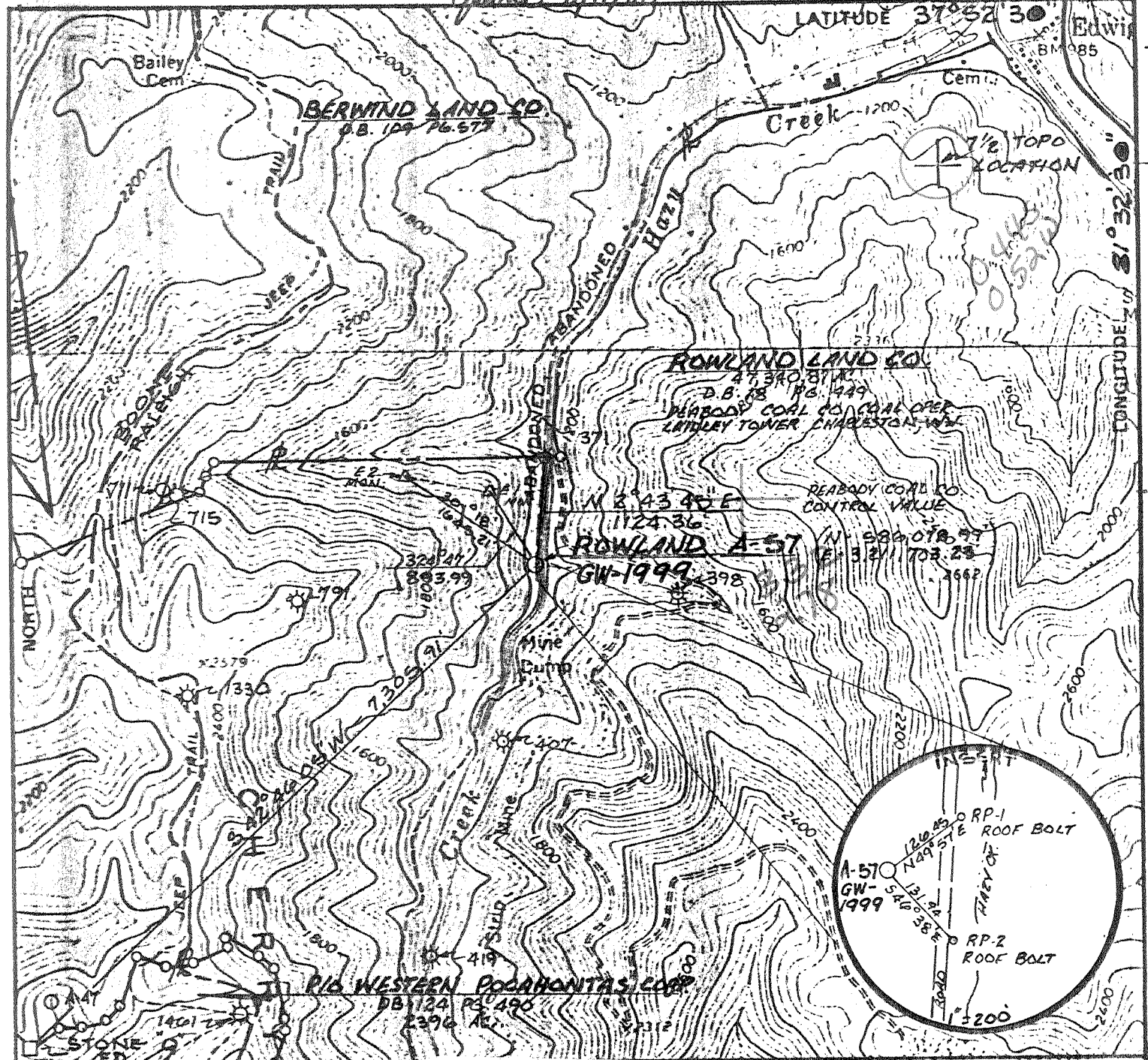


June 8/11/88



FILE NO. KDB-1-G
 DRAWING NO. _____
 SCALE 1" = 1500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION MON. E2 ELEV. 1464.73 PEABODY COAL CO.

CO: 081 PMT: 835
 Loc Digitized from OGIS 7.5' Mylar
 QUAD: 547 DATE: 12-JUN-90
 LAT: 37 52.5 Miles South: 0.41
 LONG: 81 32.5 Miles West: 0.58
 STATEMENT OF MINES
 (SIGNED) Kenneth D. Wilson
 RPE: _____ LLS 837



•• DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV 6
 (8-81)



DATE 6-30 19 88
 OPERATOR'S WELL NO ROWLAND A-57
 API WELL NO GW-1999
47 081 0835
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 IF GAS PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 1,154.88' WATERSHED HAZY CREEK - BIG COAL RIVER
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 347 006 Bald Knob EC
 SURFACE OWNER ROWLAND LAND CO. ACREAGE P/6 47,340.87Ac.
 OIL AND GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 693.579
 LEASE NO. WV 389
 PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL X 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 DEVONIAN SHALE ESTIMATED DEPTH 5715' AUG 22 1988
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873
CHARLESTON, WV. 25323 307 CHARLESTON, WV. 25323

DEEP WELL 6-6 unnumbered

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17-Aug-88
API # 47- 81-00835

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.: A57, GW-1999

LOCATION: Elevation: 1154.88 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
Latitude: 2300 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude 2750 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: OXY USA, INC.
P. O. BOX 873
CHARLESTON, WV

Agent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON

Permit Issued: 08/21/88

Well work Commenced: 11-28-88

Well work Completed: 9-21-89

Verbal Plugging

Permission granted on: _____

Rotary Cable _____ Ris _____

Total Depth (feet) 5767'

Fresh water depths (ft) 65', 170'

Salt water depths (ft) 1865'

Is coal being mined in area (Y/N)? Y

Coal Depths (ft): 107-110'

Casings & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size Conductor			
24"	39'	39'	Surface
Fresh Water			
13-3/8"	162'	162'	Surface
Coal			
9-5/8"	455'	455'	Surface
Intermediate			
7"	2223'	2223'	Surface
Production			
4-1/2"	5736'	5736'	379.4
Tubing			
2-3/8"		4796'	

OPEN FLOW DATA:

Producing formation Lower Huron Pay zone depth (ft) 4182-4815'

Gas: Initial open flow 40.9 MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 37.6 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 620 psig (surface pressure) after 17 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.

Delbert G. Oliver, Appalachian Project Manager

For: OXY USA, INC.

By: Delbert G. Oliver

Date: OCTOBER 23, 1989

OCT 27 1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.:

FORMATION

Lower Huron Perforated 4182-4815' (70 holes). Frac'd with 50,000# sand, 96 BLW, 476 MCF N₂.

WELL LOG (ELECTRIC LOGS DEPTHS)

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
SAND	0	107
COAL	107	110
SAND	110	606
SILTSTONE	606	738
SAND	738	900
SILTSTONE	900	1010
SAND	1010	1040
SILTSTONE	1040	1240
SAND	1240	1260
SILTSTONE	1260	1312
RAVENCLIFF	1312	1382
SILTSTONE	1382	1532
AVIS LIMESTONE	1532	1566
SILTSTONE	1566	1628
UPPER MAXTON	1628	1668
SILTSTONE	1668	1824
MIDDLE MAXTON	1824	1901
SILTSTONE	1901	2018
LOWER MAXTON	2018	2038
SILTSTONE	2038	2102
LITTLE LIME	2102	2158
PENCIL CAVE	2158	2194
BIG LIME	2194	2534
SILTSTONE	2534	2616
UPPER WEIR	2616	2677
SHALE	2677	2739
LOWER WEIR	2739	2775
SHALE	2775	2983
SUNBURY	2983	3003
BEREA	3003	3012
UPPER DEVONIAN SHALE	3012	3198
GORDON	3198	3207
UPPER DEVONIAN SHALE	3207	4128
LOWER HURON	4128	4826
JAVA	4826	5326
RHINESTREET	5326	5738
MARCELLUS	5738	5776
ONONDAGA	5776	

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DIVISION OF OILS AND GAS
DEPARTMENT OF ENERGY

7534

21

081-0835
Dated 8/21/88 Expires 8/19
Page 3 of 4

FORM WW-2B

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

- 1) Well Operator: 3072 OXY USA INC. 36205, 2, 546
- 2) Operator's Well Number: Rowland Land Co. A-57, GW 1999 3) Elevation: 1154.88
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 5715' feet
- 7) Approximate fresh water strata depths: 253'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DRILL DEVONIAN SHALE WELL

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	20"	H-40	90	50'	50'	Surface
Fresh Water	13-3/8"	H-40	48	300'	300'	Surface
Coal						380SR18-11.3 380SR18-11.2
Intermediate	7"	K-55	23	2280	2280	Surface
Production	4-1/2"	K-55	11.6	5715	5715	380SR18-11.1 400 cu ft
Tubing	2-3/8"	J-55	4.7	5645	5645	
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

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AUG 05 1988

7534
30078
25

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Plat WW-9 WW-2B Bond 50 Blanket Agent
(Type)

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Page 1 of 4
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: August 1, 1988
Operator's well number
Rowland Land Co. A-57, GW 1999
API Well No: 47 - 081 - 0835
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 St., Room 301
Charleston, WV 25301
(b) Name Attn: David R. Pollitt
Address _____
(c) Name _____
Address _____
6) Inspector Rodney Dillon
Address P. O. Box 1526
Sophia, WV 25921
Telephone (304)-683-3989/465-1911

5) (a) Coal Operator:
Name Peabody Coal Company / Toby Waller
Address P. O. Box 1233
Charleston, WV 25324
(b) Coal Owner(s) with Declaration
Name Rowland Land Company, LTD
Address 1033 Quarrier St., Room 301
Charleston, WV 25301
Name Attn: David R. Pollitt
Address _____
(c) Coal Lessee with Declaration
Name Peabody Coal Company / Toby Waller
Address P. O. Box 1233
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
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 4 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X 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 OXY USA INC.
By: Delbert G. Oliver
Its: Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 4 day of August, 1988
Donald J. Bay
My commission expires June 11, 1989
Commissioner
Notary Public