

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. DATUM

CO: 081 PMT: 834
 THIS Loc Digitized from OGIS 7.5' Meter
 KNC QUAD: 547 DATE: 12-JUN-90
 INFO LAT: 37 52.5 Miles South: 0.56
 LAT LONG: 81 32.5 Miles West: 0.11
 MEN
 (SIGNED) Kenneth D. Dias
 R.P.E. _____ LLS 837



(X) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 7-28 19 88
 OPERATOR'S WELL NO. RLC A-56 REV.
 API WELL NO. 47-081-00834
 STATE COUNTY PERMIT

Revised Plat

WELL TYPE OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 1560.9' WATER SHED Hazy Ck. Marsh Fk. - Big Coal River -
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 547 006 6 Bald Knob EC
 SURFACE OWNER ROWLAND LAND CO ACREAGE 7/16 47,340.87 AC.
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 693.579 AC.
 LEASE NO. WV 389
 PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X 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 6,039'
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873
CHARLESTON, WV 25323 3072 CHARLESTON, WV 25323

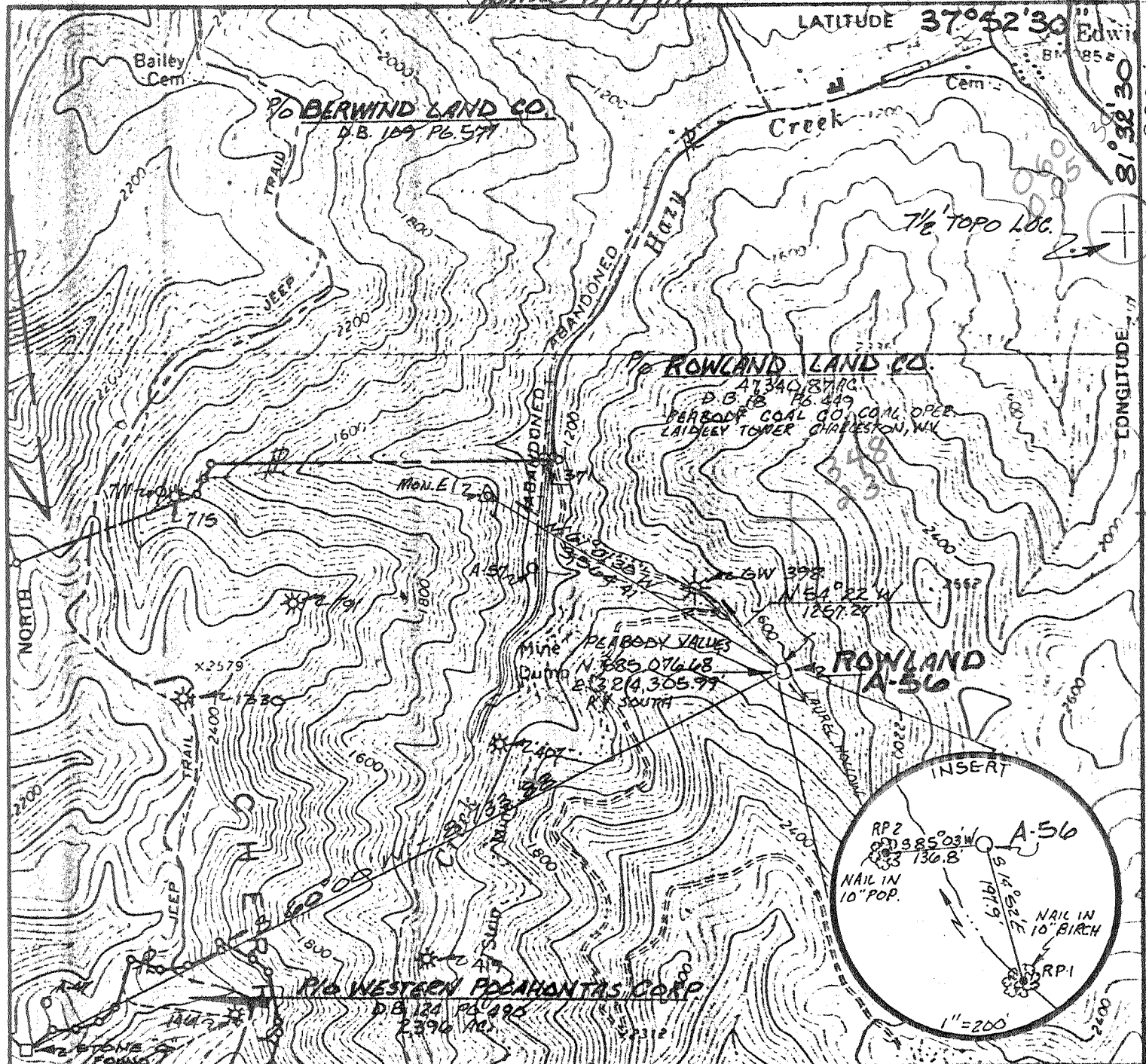
OCT 10 1988

DEEP WELL 6-6 unnamed (10)

June 8/11/88

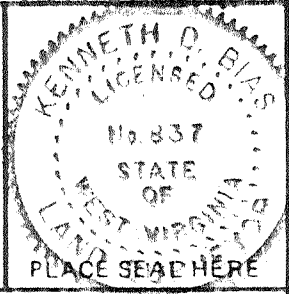
LATITUDE 37°52'30"

LONGITUDE 81°32'30"



FILE NO. KDB-1-6
 DRAWING NO. _____
 SCALE 1" = 1500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION MON E2 ELEV. 1464.73
PEABODY COAL CO. DATUM

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 MINES
 (SIGNED) Kenneth D. Deas
 R.P.E. _____ L.L.S. 837



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



DATE 7-28 19 88
 OPERATOR'S WELL NO RLC A-56
 API WELL NO _____
47 - 081 - 0834
 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 X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 1558.90' WATER SHED HAZY CK - MARSH FK. - BIG COAL RIVER
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 547 006
 SURFACE OWNER ROWLAND LAND CO ACREAGE 47,340.87 AC.
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 693.579 AC.
 LEASE NO WV 389
 PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X 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 6039' 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 3072 CHARLESTON, WV 25323

RECEIVED JUN 06 1989

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

Well Operator's Report of Well Work

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Form Name: ROWLAND LAND COMPANY LTD. Operator Well No.: A-56, GW-1998

LOCATION: Elevation: 1558.90 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
Latitude: 3200 Feet South of 37 Des. 52Min. 30 Sec.
Longitude: 250 Feet West of 81 Des. 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: 10-1-88
Well work Completed: 5-18-89

Verbal Plugging
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 6085
Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 60; 158

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. TOC Surface

OPEN FLOW DATA

Producing formation: Devonian Shale Pay zone depth (ft) 3584-6010'
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow 112 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 8 Hours
Static rock Pressure 525 psia (surface pressure) after 96 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 psia (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 WELLSBORE.

Delbert G. Oliver
For: OXY USA, INC.

By: Delbert G. Oliver
Date: 6-2-89

JUN 16 1989

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

Whinestreet (5618-6010') Perforated with 63 holes. Fracture stimulated with 50,000# sand.
 Lower Huron (4530-5151') Perforated with 69 holes. Fracture stimulated with 50,000# sand.
 Upper Devonian (3584-4322') Perforated with 68 holes. Fracture stimulated with 50,000# sand.

WELL LOG

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sand	0	60
Coal	60	64
Sand	64	86
Siltstone	86	158
Coal	158	162
Sand	152	231
Siltstone	231	314
Sand	314	351
Siltstone	351	554
Sand	554	673
Siltstone	673	717
Sand	717	932
Siltstone	932	1047
Sand	1047	1268
Siltstone	1268	1307
Sand	1307	1377
Siltstone	1377	1425
Sand	1425	1496
Siltstone	1496	1692
Sand	1692	1760
Siltstone	1760	1861
Lavencliff	1861	1950
Siltstone	1950	2014
Upper Maxton	2014	2050
Siltstone	2050	2202
Middle Maxton	2202	2271
Siltstone	2271	2405
Lower Maxton	2405	2418
Siltstone	2418	2484
Little Lime	2484	2543
Pencil Cave	2543	2559
Big Lime	2559	2924
Siltstone	2924	2998
Upper Weir	2998	3095
Lower Weir	3095	3158
Shale	3158	3383
Ambury	3383	3392
Devonian Shale	3392	3584
Lordon	3584	3595
Devonian Shale	3595	4527
Lower Huron	4527	5159
Java	5159	5656
Whinestreet	5656	6026
Farcellus	6026	6081
Onondaga	6081	

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

10.6085

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081-0834
Issued 8/21/88 Expired 8/21/90
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

3072 36205, 2, 546

- 1) Well Operator: OXY USA INC.
- 2) Operator's Well Number: Rowland Land Co. A-56, GW 1998 3) Elevation: 1559'
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 6039 feet
- 7) Approximate fresh water strata depths: None
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths:
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill Devonian Shale Well
- 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	20"	H-40	90	45'	45'	Surface
Fresh Water	13-3/8"	H-40	48	350'	350'	Surface
Coal						380SR18-11.3 380SR18-11.2.2
Intermediate	7"	K-55	23	2588	2588	Surface
Production	4-1/2"	K-55	11.6	6039	6039	380SR18-11.1 400 cu ft
Tubing	2-3/8"	J-55	4.7	5969	5969	
Liners						

PACKERS : Kind
Sizes
Depths set

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AUG 05 1988

7533

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
Agent
Bond 50 Blanket

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AUG 05 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: August 1, 1988
Operator's well number
Rowland Land Company A-56, GW 1998
API Well No: 47 - 081 - 8834
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)
- XX 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 *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

James J. Bay
My commission expires June 11, 1989

Commissioner
Notary Public