

81-00847-f

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-081-00847 - P WELL NO.: WV 141851 (A 71)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: Equitable Production Company, Inc.

COUNTY: Raleigh DISTRICT: Marsh Fork

QUADRANGLE: Whitesville 7.5'

SURFACE OWNER: David Pollitt c/o Rowland Land Co. LLC.

ROYALTY OWNER: Rowland Land Co.

UTM GPS NORTHING: 4188409

UTM GPS EASTING: 454690 GPS ELEVATION: 614 m (2013 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

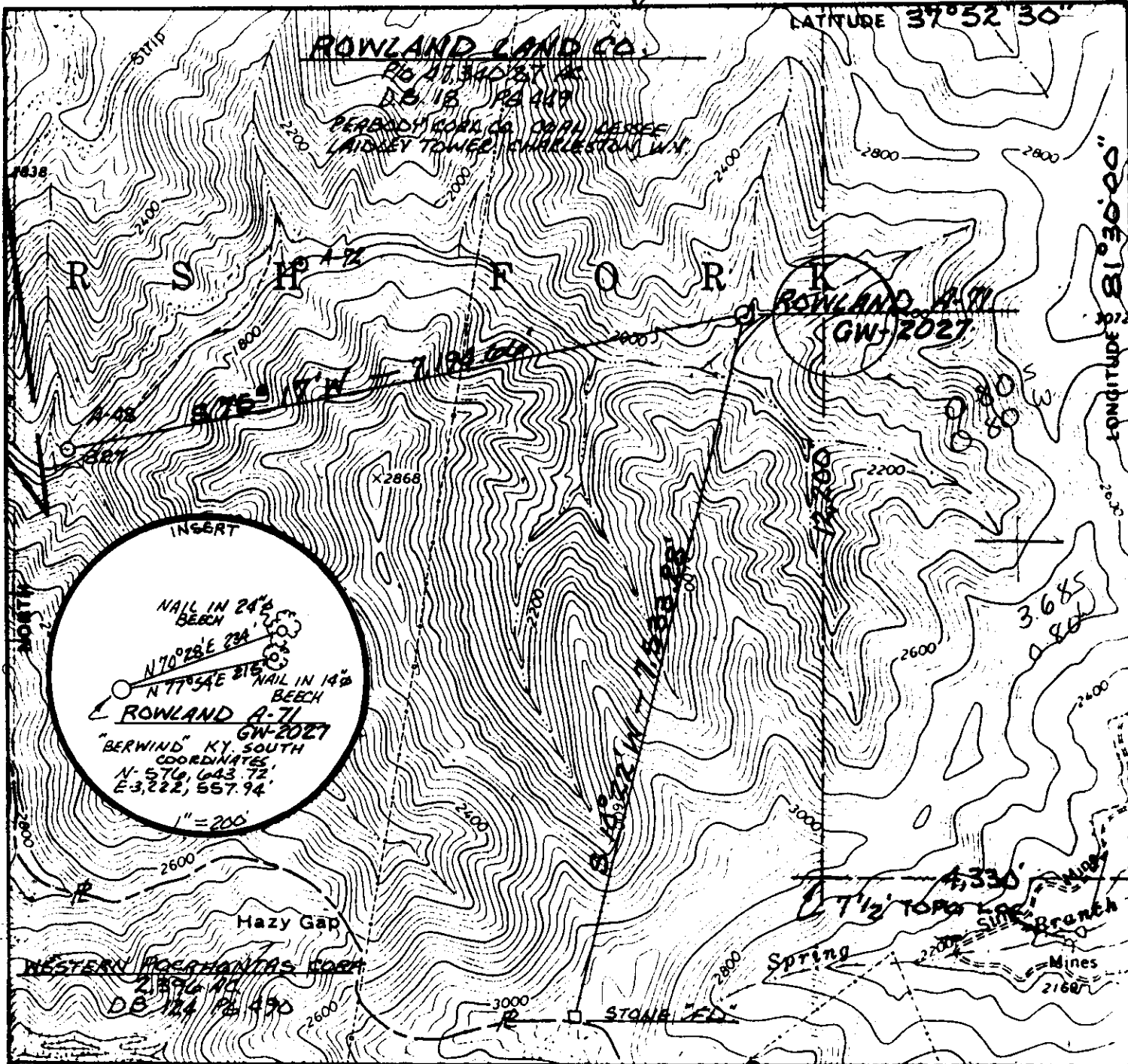
Ben R. Singleton
Signature

Licensed Surveyor
Title

3-21-08
Date

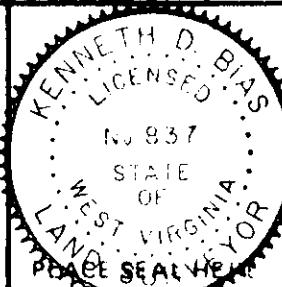
MAY 09 2008

RAE 0847 P



FILE NO KDB-2-R
 DRAWING NO _____
 SCALE 1" = 1,500'
 MINIMUM DEGREE OF ACCURACY 1:2,500'
 PROVEN SOURCE OF ELEVATION PC-66 PEABODY COAL CO. DATUM 1596.91'

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. Bias
 RPE _____ LLS 837



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

DATE JANUARY 17 1989
 OPERATOR'S WELL NO R.L.C. A-71
 API WELL NO GW-2027
47 081 0847
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

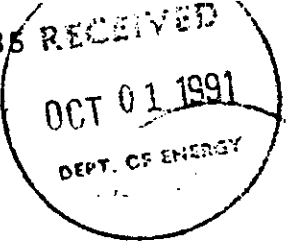
WELL TYPE OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF GAS) PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 2,022.30' WATERSHED HAZY CK - MARSH FORK - BIG COAL RIVER
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 547 0066 Bald Knob EC
 SURFACE OWNER ROWLAND LAND CO. ACREAGE PI 47,340.87
 OIL AND GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 8,229.377
 LEASE NO WV-399

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 DEVONIAN SHALE ESTIMATED DEPTH 6600'
 WELL OPERATOR OXY USA INC. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS BOX 873 3072 ADDRESS BOX 873
CHARLESTON, WV 25323 CHARLESTON, WV 25323

FEB 24 1989

- 6.0 Hopkins Fork - Jarrolds Valley (247)



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

Reviewed IMG
Recorded _____

Well Operator's Report of Well Work

Farm name: ROWLAND LAND COMPANY Operator Well No.: A-71 GW-2027

RECEIVED

LOCATION: Elevation: 2022.30 Quadrangle: PILOT KNOB

OCT 10 91

District: MARSH FORK County: RALEIGH
Latitude: 12200 Feet South of 37 Deg. 52Min. 30 Sec. Division of Energy
Longitude 4330 Feet West of 81 Deg. 30 Min. 0 Sec. Gas Section

Company: OXY USA, INC.
P. O. BOX 873
CHARLESTON, WV 25323-0873

Agent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON
Permit Issued: 02/21/89
Well work Commenced: 4-6-89 ?
Well work Completed: 4-6-89 ?
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5570'
Fresh water depths (ft) 90'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13"	23'	23'	
9-5/8"	1003'	1003'	TOC Surface
7"	2861'	2861'	450 sx
4-1/2"	5715'	5715'	TOC 2425'
2-3/8"		5511'	

Salt water depths (ft) None

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 47', 211', 423'

OPEN FLOW DATA

Producing formation Big Lime, Devonian Shale Pay zone depth (ft) 2922-5519'
Gas: Initial open flow 17 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 19 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 14 Hours
Static rock Pressure 255 psig (surface pressure) after 12 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

WELL IS TEMPORARILY ABANDONED.

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.

For: Delbert G. Oliver
OXY USA, INC.

By: Delbert G. Oliver

Date: SEP 26, 1991

OCT 10 1991

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

- 1) Well Operator: OXY USA Inc. 36205, 2, 546
- 2) Operator's Well Number: Rowland Land Co. A-71, GW 2027 3) Elevation: 2022.30'
- 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: 6600' feet
- 7) Approximate fresh water strata depths: 575', 582'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 1890', 1788' & 1690' (all solid coal) 76T-772
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill & Stimulate New 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	94#	40'	40'	Surface
Fresh Water	9-5/8"	H-40	32#	925'	925'	Surface
Coal						<i>Cement to surface</i> 38CSR18-11.3 38CSR18-11.2.2
Intermediate	7"	J-55	23#	2950'	2950'	Surface
Production	4-1/2"	J-55	11.6#	6600'	6600'	38CSR18-11.1 380 cu ft
Tubing	2-3/8"	EUE	4.7#	6600'	6600'	
Liners						

RECEIVED
 FEB 17 1989

PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

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

30100
 4
[Handwritten initials]

RECEIVED
FEB 17 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: February 10, 1989
Operator's well number
Rowland Land Company A-71, GW 2027
API Well No: 47 - 081 - 0847
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Rowland Land Company</u>
Address <u>1033 Quarrier St., Rm. 301</u>
<u>Charleston, WV 25301, Attn: David Pollitt</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>Peabody Coal Company</u>
Address <u>P. O. Box 1233</u>
<u>Charleston, WV 25324, Attn: Toby Waller</u></p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Rowland Land Company</u>
Address <u>1033 Quarrier St., Rm. 301</u>
<u>Charleston, WV 25301, Attn: David Pollitt</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Peabody Coal Company</u>
Address <u>P. O. Box 1233</u>
<u>Charleston, WV 25324, Attn: Toby Waller</u></p> |
| <p>6) Inspector <u>Rodney Dillon</u>
Address <u>P. O. Box 1526</u>
<u>Sophia, WV 25921</u>
Telephone (304)- <u>465-1911</u></p> | |

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 4 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 OXY USA Inc.
By: Delbert G. Oliver *Delbert G. Oliver*
Its: Appalachian Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 10 day of February, 1989

My commission expires _____

David J. Bay
June 11, 1989
Commissioner
Notary Public

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

Lower Huron (4722-5519') Perforated with 70 holes. Fracture stimulated with 50,000# sand.
 Upper Devonian and Gordon (3899-4382') Perforated with 70 holes. Fracture stimulated with 50,000# sand.
 Big Lime (3176.5-3182.5'; 3123.5-3132.5'; 2922-2935') Perforated with 59 holes. Acidized with 7,000 gallon 15% HCl.

WELL LOG

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sand	0	37
Siltstone	37	47
Coal	47	48
Siltstone	48	151
Sand	151	211
Coal	211	215
Sand	215	258
Siltstone	258	423
Coal	423	428
Siltstone	428	485
Sand	485	529
Siltstone	529	614
Sand	614	705
Siltstone	705	777
Sand	777	810
Siltstone	810	871
Sand	871	1030
Siltstone	1030	1178
Sand	1178	1297
Siltstone	1297	1337
Sand	1337	1592
Siltstone	1592	1729
Sand	1729	1750
Siltstone	1750	2058
Ravencliff	2058	2069
Siltstone	2069	2123
Avis Limestone	2123	2157
Siltstone	2157	2172
Upper Maxton	2172	2179
Siltstone	2179	2513
Middle Maxton	2513	2611
Siltstone	2611	2664
Lower Maxton	2664	2676
Siltstone	2676	2745
Little Lime	2745	2808
Pencil Cave	2808	2829
Big Lime	2829	3222
Siltstone	3222	3313
Upper Weir	3313	3377
Siltstone	3377	3449
Lower Weir	3449	3461
Shale	3461	3700
Sunbury	3700	3714
Devonian Shale	3714	3898
Gordon	3898	3920
Devonian Shale	3920	4833
Lower Huron	4833	5534
Java	5534	

TD 5570

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