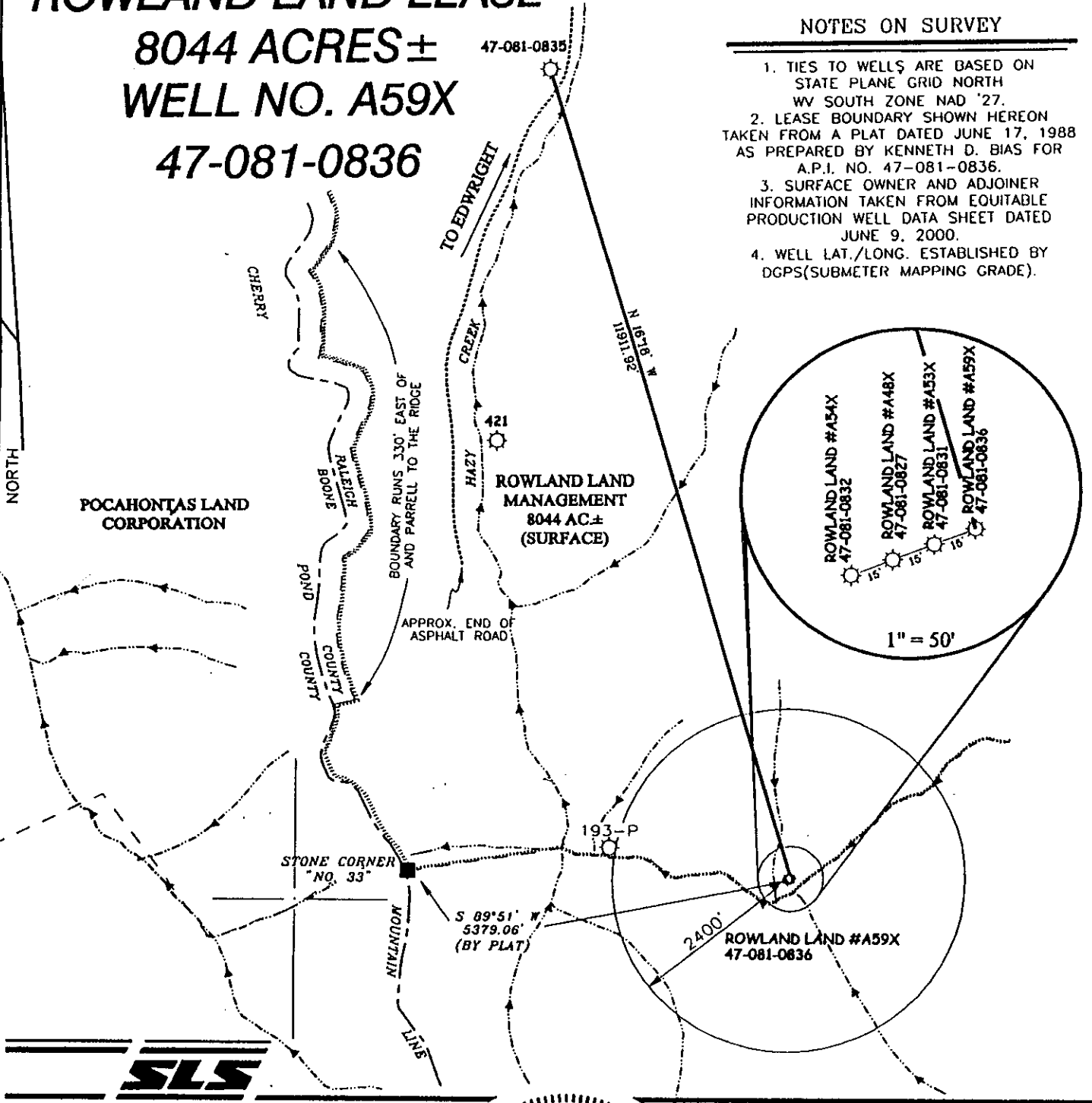


# ROWLAND LAND LEASE

## 8044 ACRES ± WELL NO. A59X 47-081-0836

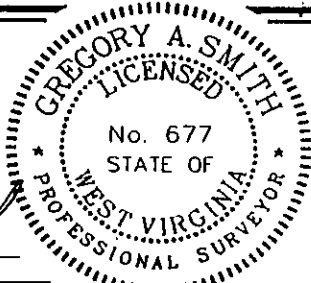
### NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED JUNE 17, 1988 AS PREPARED BY KENNETH D. BIAS FOR A.P.I. NO. 47-081-0836.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM EQUITABLE PRODUCTION WELL DATA SHEET DATED JUNE 9, 2000.
4. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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.

P.S. 677 *Gregory A. Smith*




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

DATE JUNE 26, 2000  
 OPERATORS WELL NO. #A59X  
 API WELL NO. 47 - 081 - 0836P  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4425PA59X (93-10)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 2312' SCALE 1" = 2000'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS



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

LOCATION : ELEVATION 1642' WATERSHED TRIBUTARY OF HAZY CREEK  
 DISTRICT MARSH FORK COUNTY RALEIGH QUADRANGLE PILOT KNOB 7.5'

SURFACE OWNER ROWLAND LAND MANAGEMENT ACREAGE 8044  
 ROYALTY OWNER ROWLAND LAND MANAGEMENT LEASE ACREAGE 8044

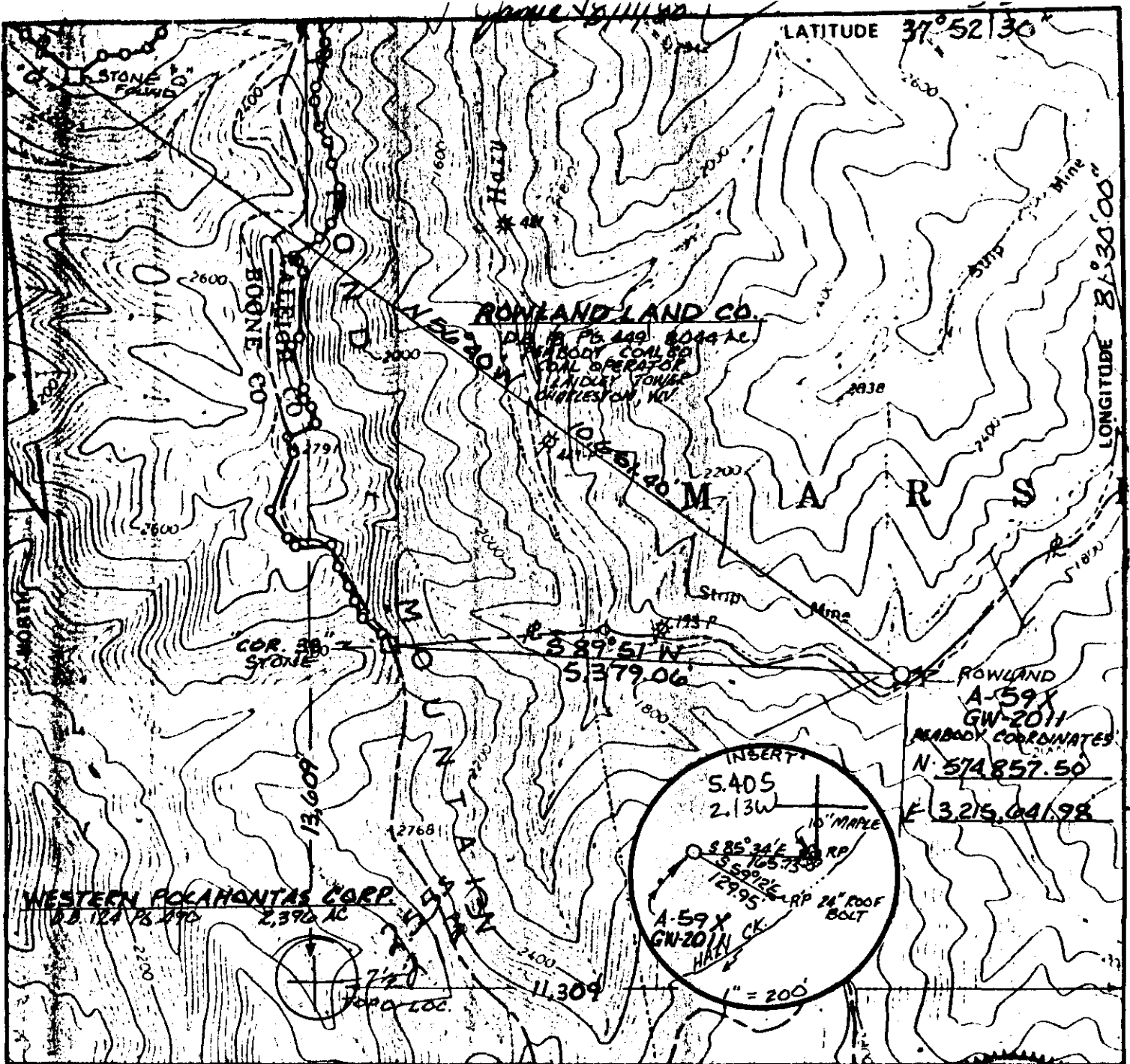
PROPOSED WORK : LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) : \_\_\_\_\_ TARGET FORMATION DEVONIAN SHALE  
 ESTIMATED DEPTH 6931'

WELL OPERATOR CLOWSER WELL SERVICE, INC. DESIGNATED AGENT JOHN CLOWSER  
 ADDRESS RT. 3 BOX 37-A, SALEM, WV 26426 ADDRESS RT. 3 BOX 37-A, SALEM, WV 26426

JUL 28 2000

COUNTY NAME RALEIGH  
 PERMIT 0836P





FILE NO KDB-1-6  
 DRAWING NO \_\_\_\_\_  
 SCALE 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY 1:2500'  
 PROVEN SOURCE OF ELEVATION PC-66 PEABODY COAL CO. (U.S.G.S.) 1596.91' IN HAZY CREEK HOLLOW

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

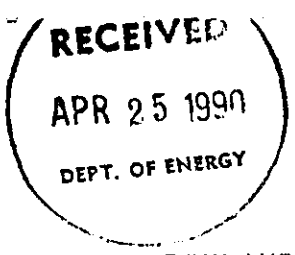


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV 6 (8-781)  
 WELL TYPE OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION ELEVATION 1627.72 WATERSHED HAZY CK OF BIG COAL RIVER  
 DISTRICT MARSH FORK 2 COUNTY RALEIGH  
 QUADRANGLE PILOT KNOB 547 006 6 Bald Knob EC  
 SURFACE OWNER ROWLAND LAND CO. ACREAGE P/O 47,340.87 AC.  
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 693.579 AC.  
 LEASE NO. W.V. 389  
 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 MD-7735' TVD-6137'  
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER  
 ADDRESS P.O. BOX 873 CHARLESTON, W.V. 25323 ADDRESS P.O. BOX 873 CHARLESTON, W.V. 25323

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION  
 DATE JUNE 17 19 88  
 OPERATOR'S WELL NO R.L.C. A-59X, GN-2011  
 API WELL NO \_\_\_\_\_  
47 - 081 0836  
 STATE COUNTY PERMIT  
 AUG 22 1988

Directional well 6-6 unnamed (to) (249)





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

Well Operator's Report of Well Work

Farm name: ROWLAND LAND COMPANY LTD. Operator Well No.: A-59X, GW-2011

LOCATION: Elevation: 1627.72 Quadrangle: PILOT KNDB

District: MARSH FORK County: RALEIGH  
Latitude: 13609 Feet South of 37 Des. 52Min. 30 Sec.  
Longitude 11309 Feet West of 81 Des. 30 Min. 0 Sec.

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

Asent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON  
Permit Issued: 08/21/88  
Well work Commenced: 1-5-89  
Well work Completed: 2-22-90

Verbal Plussins  
Permission granted on: \_\_\_\_\_  
Rotary  Cable  Ris

Total Depth (feet) TVD=5525'; MD=5931'  
Fresh water depths (ft) 40

Salt water depths (ft) \_\_\_\_\_

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

| Casins & Tubins Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16.0                 |                  | 42           | Surf.                  |
| 11.75                |                  | 430          | Surf.                  |
| 8.625                |                  | 2793         | Surf.                  |
| 5.5                  |                  | 6712         | 1083                   |

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 4216'  
Gas: Initial open flow 10 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 10 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 110 psis (surface pressure) after 16 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 \_\_\_\_\_ psis (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 WELL BORE.

*Delbert G. Oliver*  
For: OXY USA, INC.

By: Delbert G. Oliver, Appalachian Project Mg  
Date: April 23, 1990

2/28/90  
~~2-7-1990~~

7.5

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

Gordon: Perf 4216-26'  
Fract'd with 40,000# sand, 96 BF, 799 MCF N2.

WELL LOG

| <u>DEPTH</u> | <u>TOP/FORMATION</u> |
|--------------|----------------------|
| 1712'        | RAVENCLIFF SAND      |
| 1936         | AVIS LIME            |
| 2017         | UPPER MAXON SAND     |
| 2340         | MIDDLE MAXON SAND    |
| 2549         | LOWER MAXON SAND     |
| 2652         | LITTLE LIME          |
| 2740         | BIG LIME             |
| 3234         | BASE/BIG LIME        |
| 3340         | UPPER WEIR SAND      |
| 3442         | LOWER WEIR SAND      |
| 3944         | DEVONIAN SHALE       |
| 4217         | GORDON               |
| 5530         | LOWER HURON          |
| 6488         | JAVA SHALE           |
| 6735 (MD)    | TD                   |

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

- 1) Well Operator: 3072 OXY USA INC. 96205, 2, 546
- 2) Operator's Well Number: Rowland Land Co. A-59X, GW 2011 3) Elevation: 1627.72'
- 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 441
- 6) Proposed Total Depth: 7735' feet
- 7) Approximate fresh water strata depths: 169'
- 8) Approximate salt water depths: 1827'
- 9) Approximate coal seam depths: 17', 128'
- 10) Does land contain coal seams tributary to active mine? Yes X / No    /
- 11) Proposed Well Work: DRILL DIRECTIONAL DEVONIAN SHALE WELL
- 12)

**CASING AND TUBING PROGRAM**

| TYPE         | SPECIFICATIONS |       |                   | FOOTAGE INTERVALS     |                       | CEMENT<br>Fill-up<br>(cu. ft.) |
|--------------|----------------|-------|-------------------|-----------------------|-----------------------|--------------------------------|
|              | Size           | Grade | Weight<br>per ft. | For<br>drilling       | Left in<br>well       |                                |
| Conductor    | 16"            | H-40  | 65                | 45'                   | 45'                   | Surface                        |
| Fresh Water  | 11-3/4"        | H-40  | 42                | 500'                  | 500'                  | Surface                        |
| Coal         |                |       |                   |                       |                       | 380SR18-11.3<br>380SR18-11.2-2 |
| Intermediate | 8-5/8"         | K-55  | 24                | 2795' MD<br>2664' TVD | 2795' MD<br>2664' TVD | Surface                        |
| Production   | 5-1/2"         | K-55  | 17                | 7735' MD<br>6137' TVD | 7735' MD<br>6137' TVD | 380SR18-11.1<br>445 cu ft      |
| Tubing       | 2-3/8"         | J-55  | 4.7               | 7665' MD              | 7665' MD              |                                |
| Liners       |                |       |                   |                       |                       |                                |

**RECEIVED**  
 AUG 05 1988

**PACKERS :** Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

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)

*30078*  
*125*  
*Off*

**RECEIVED**  
AUG 05 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: August 1, 1988  
2) Operator's well number  
Rowland Land Co. A-59X, GW 2011  
3) API Well No: 47 - 081 - 0836  
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 \_\_\_\_\_

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 \_\_\_\_\_

6) Inspector Rodney Dillon  
Address P. O. Box 1526  
Sophia, WV 25921  
Telephone (304)- 683-3989/465-1911

(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 *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



WR-38  
DATE:

API# 47-081-0836

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE. one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Rowland Land Management Operator Well No.: Rowland Land # A59X

LOCATION: Elevation: 11642' Quadrangle: Pilot Knob 7.5'  
District: Marsh Fork County: Raleigh  
Latitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
Longitude: \_\_\_\_\_ Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Well Type: OIL \_\_\_\_\_ GAS

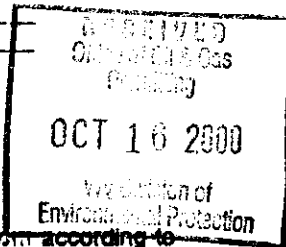
Company: Clouser Well Service  
Rt 3 Box 27A  
Jelen WV 26426

Coal Operator or Owner: Rowland Land Management  
405 Capital St. Suite 604  
Charleston WV 25339

Agent: John Clouser

Coal Operator or Owner: Same

Permit Issued Date: 7-24-2000



AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Raleigh ss:

Kevin Clouser and Randy Riddle being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Richard Campbell Oil and Gas Inspector representing the Director, say that said work was commenced on the 27<sup>th</sup> day of Sept, 192000, and that the well was plugged and filled in the following manner:

| TYPE     | FROM | TO   | PIPE REMOVED     | LEFT           |
|----------|------|------|------------------|----------------|
| gel 67s  | 6650 | 4223 | 3 1/2" cut 1370' | 16" - 42'      |
| cut 128s | 4223 | 4115 |                  | 11 3/4" - 430' |
| gel 67s  | 4115 | 3050 |                  | 8 5/8" - 2793' |
| cut 128s | 3050 | 2942 |                  | 5 1/2" - 5342' |
| gel 67s  | 2942 | 2061 |                  |                |
| cut 128s | 2061 | 1953 |                  |                |
| gel 67s  | 1953 | 1392 |                  |                |
| cut 30s  | 1392 | 1292 |                  |                |

Description of monument: 7" marker 30" Above ground "Y" API # and that the work of plugging and filling said well was completed on the 29 day of Sept, 192000

And further deponents saith not.

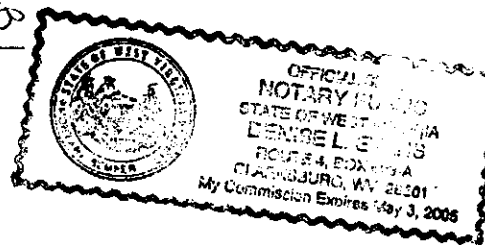
Randy Riddle

Sworn and subscribe before me this 27<sup>th</sup> day of Sept, 192000

My commission expires: 5/3/2007

Notary Public

Oil and Gas Inspector: Richard Campbell



gel 67s 1292 - 100  
cut 30s 100 - 0

OCT 27 2000

RALEIGH 0836