

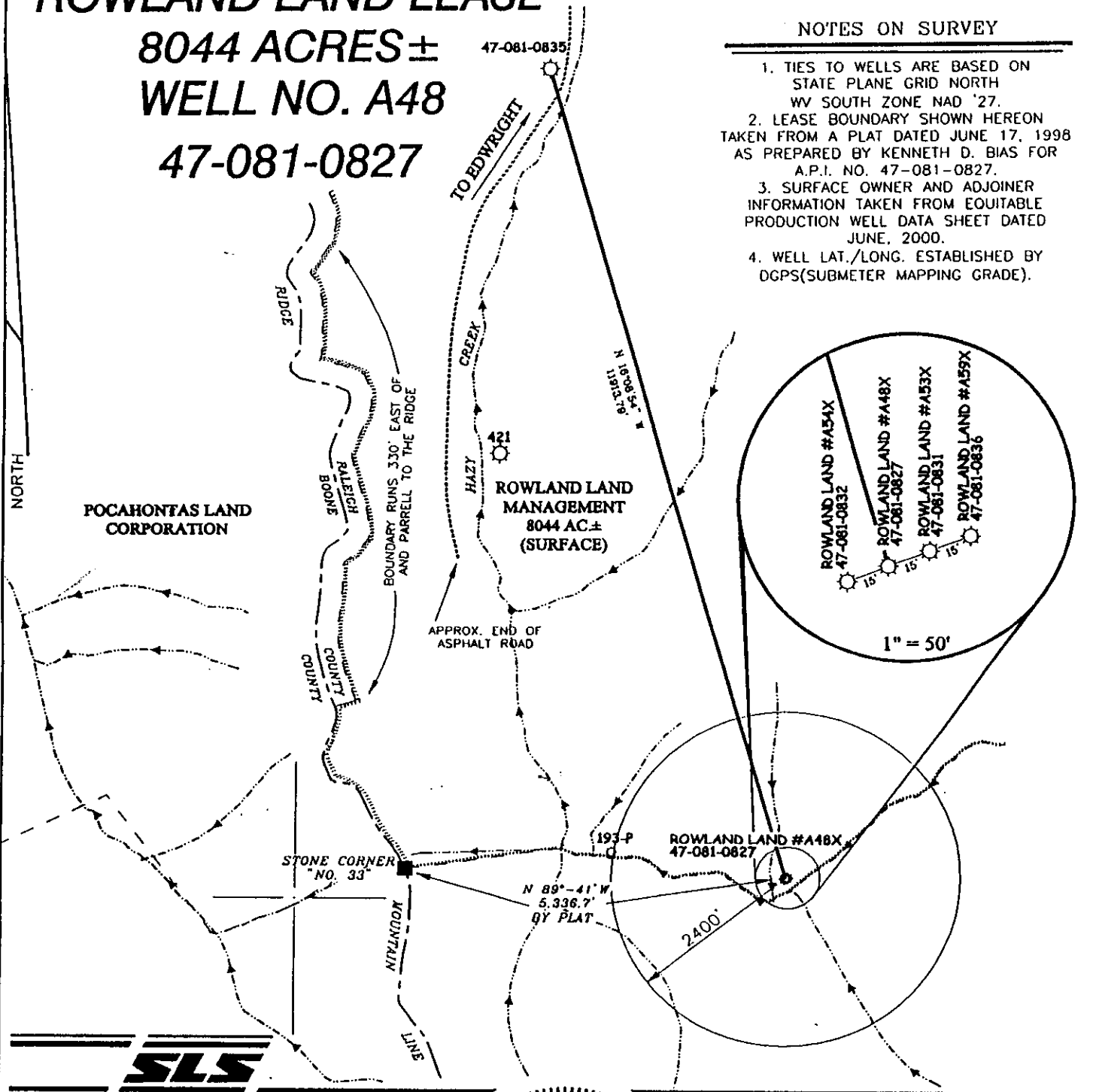
ROWLAND LAND LEASE

8044 ACRES ± WELL NO. A48

47-081-0827

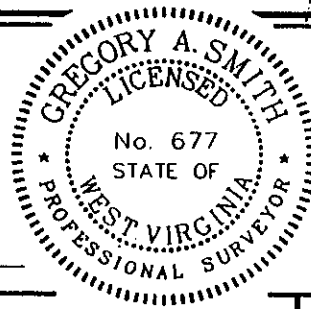
NOTES ON SURVEY

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, 1998 AS PREPARED BY KENNETH D. BIAS FOR A.P.I. NO. 47-081-0827.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM EQUITABLE PRODUCTION WELL DATA SHEET DATED JUNE, 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. #A48
 API WELL NO. 47-081-0827
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4425PA48 (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'

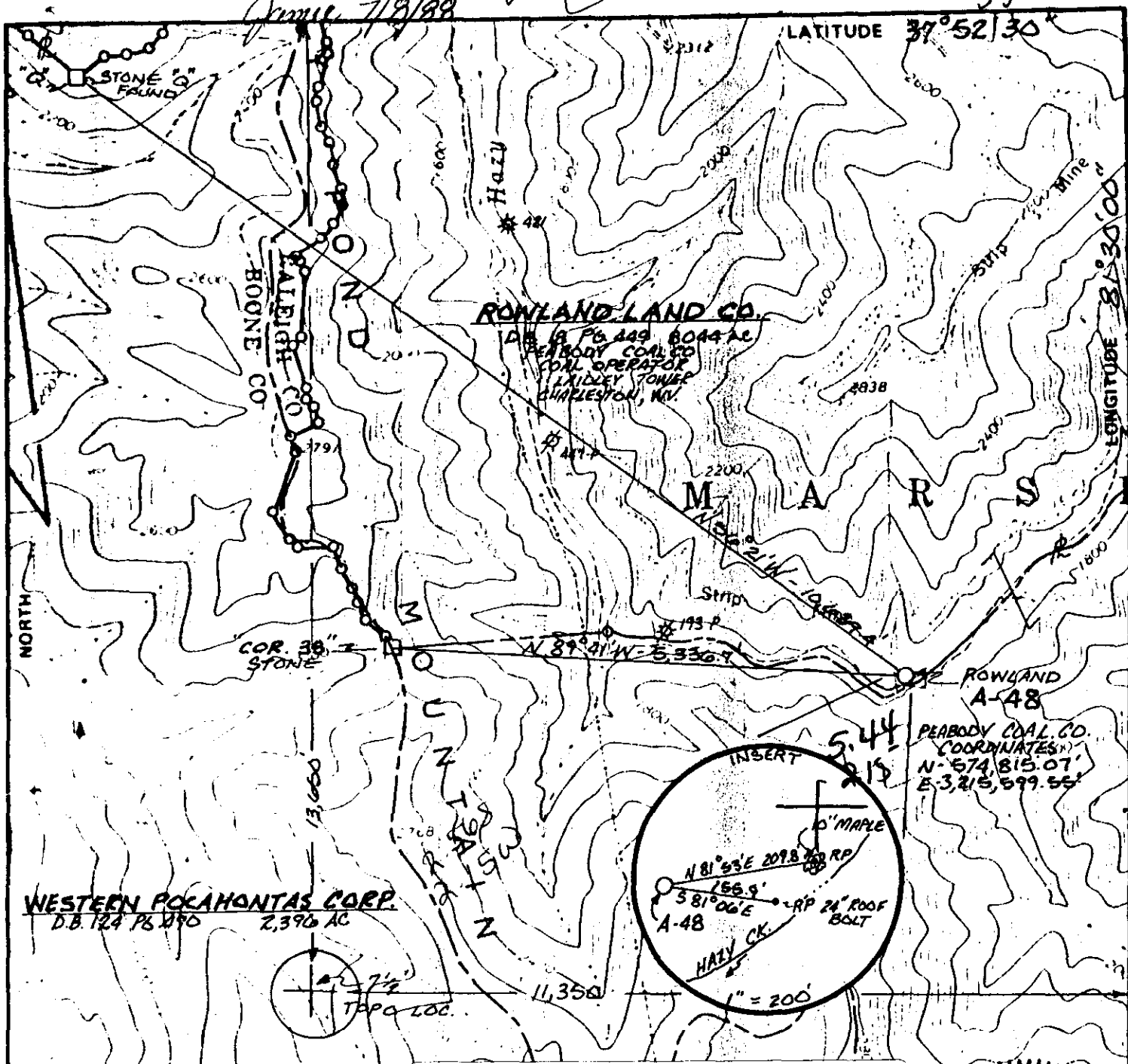
SURFACE OWNER ROWLAND LAND MANAGEMENT ACREAGE 8044
 ROYALTY OWNER ROWLAND LAND MANAGEMENT LEASE ACREAGE 8044

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 6195'

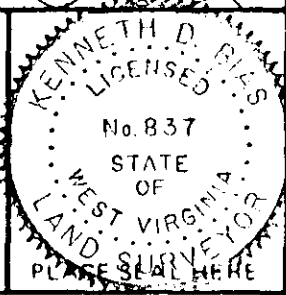
WELL OPERATOR CLOUSER WELL SERVICE, INC. DESIGNATED AGENT JOHN CLOUSER
 ADDRESS RT. 3 BOX 37-A, SALEM, WV 26426 ADDRESS RT. 3 BOX 37-A, SALEM, WV 26426

LONGITUDE 81°32'22.10" LAT. 37°50'15.75" COUNTY NAME RAL PERMIT 0827P




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

CO: 081 PMT: 827
 Loc Digitized from OGIS 7.5' Mylar
 QUAD: 547 DATE: 12-JUN-90
 LAT: 37 52.5 Miles South: 2.54
 LONG: 81 30.0 Miles West: 2.18
 STATEMENT OF MINES
 SIGNED: Kenneth D. Wiles
 RPE _____ LLS 837



•• 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 JUNE 17 19 88
 OPERATOR'S WELL NO RLC A-48
 API WELL NO 47 081 0827
 STATE COUNTY PERMIT

WELL TYPE OIL ___ GAS X 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 8.044 P/O 47,340.87 AC.
 OIL & 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 DEYONIAN SHALE ESTIMATED DEPTH 6137' JUL 15 1988

WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873
CHARLESTON, W.V. 25323 3072 CHARLESTON, W.V. 25323

DEEP WELL 6-6 unnamed (o)

NR-35
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13-JUL-88
 API # 47- 81-00827

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.: A-48, GW-1994

LOCATION: Elevation: 1627.72 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
 Latitude: 13650 Feet South of 37 Des. 52Min. 30 Sec.
 Longitude 11350 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: 07/12/88
 Well work Commenced: 10-23-88
 Well work Completed: 4-27-89
 Verbal Plussings: _____
 Permission granted on: _____
 Rotary Cable _____ Ris _____
 Total Depth (feet) 6195'
 Fresh water depths (ft) 40'

 Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement (Fill Up) Cu. Ft.
16"	52'	52'	TOC Surface
11-3/4"	877'	877'	TOC Surface
8-5/8"	2641'	2641'	TOC 530'
5-1/2"	6151'	6151'	TOC 2645'
2-3/8"		6045'	

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3476-6037'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 84 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 43 Hours
 Static rock Pressure 570 Psig (surface pressure) after 13 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
 For: OXY USA, INC.

By: Delbert G. Oliver
 Date: JUNE 5, 1989

JUN 16 1989
 JUN 10 1989

**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-48, GW 1994 3) Elevation: 1627'
- 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: 6137 feet
- 7) Approximate fresh water strata depths: 169' OK
- 8) Approximate salt water depths: None 1827'
- 9) Approximate coal seam depths: OK 128'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work:
- 12) New Drilling Well

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13-3/8"	H-40	48#	40'	40'	CIS
Fresh Water	9-5/8"	K-55	36#	250'	250'	CIS
Coal						38CSR 18-11.3 38CSR 18-11.2
Intermediate	7"	K-55	23#	2640'	2640'	CIS
Production	4-1/2"	K-55	11.6#	6137'	6137'	38CSR 18-11.1 390 cu ft
Tubing	2-3/8"	J-55	4.7#	6100'	6100'	
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only **DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY**

Fee(s) paid: 30075 Well Work Permit 30075 Reclamation Fund 30075 WPCP
 Plat 30075 WW-9 30075 WW-2B 30075 Bond 50 Blanket Agent 30075
 (Type)

WR-38
DATE

API# 47-081-0827

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE. 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 # A 48

LOCATION: Elevation: 1642 Quadrangle: Pital 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

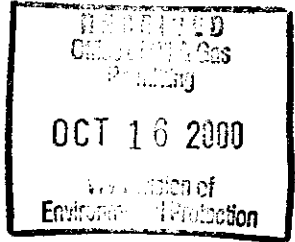
Company: Classer Well Service
213 Oak St
Salem WV 26426

Coal Operator or Owner: Rowland Land Management
405 Capitol St Suite 609
Charleston, WV 25339

Agent: John Clowser

Coal Operator or Owner: SAME

Permit Issued Date: _____



AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Raleigh ss:

Kevin Clowser 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 4 day of Oct, 192000, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
gel 6 1/2	6045	5789	perforations	16" - 52'
cut 34sk	5789	5689	2575, 2532	11 3/4" - 877'
gel 6 1/2	4687	4657	2491, 2404	8 3/8" - 2104'
cut 12 sk	4657	4549		5 1/2" - 5160'
gel 6 1/2	4549	3400	5 1/2 cut 991'	
cut 12 sk	3400	3292		
gel 6 1/2	3292	2621	8 3/8 cut 537'	
cut 30sk	2621	2350		

Description of monument: 7" marker 30" above ground w/ API # and that the work of plugging and filling said well was completed on the 10 day of Oct, 192000

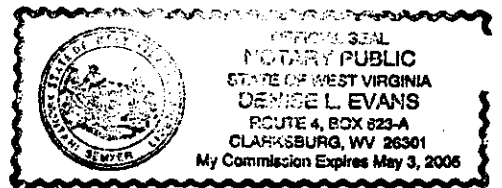
And further deponents saith not.

Randy Riddle

Sworn and subscribe before me this 10 day of Oct, 192000
My commission expires: 5/3/2005

Notary Public

Oil and Gas Inspector: Richard Campbell



gel 6 1/2 2350 - 1021
cut 30sk 1021 - 921
gel 6 1/2 921 - 570
cut 60sk 570 - 470
gel 6 1/2 470 - 100

cut 60 sks 100 - 0

OCT 27 2000

RAI 0827

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: June 24, 1988
2) Operator's well number
Rowland Land Co. A-48, GW 1994
3) API Well No: 47 - 081 - 0827
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, Rm 301
Charleston, WV 25301
 - (b) Name Attn: David R. Pollitt
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name Peabody Coal Company, Attn: Toby
Address P. O. Box 1233 Waller
Charleston, WV 25324
- (b) Coal Owner(s) with Declaration
Name Rowland Land Company, LTD
Address 1033 Quarrier Street, Rm. 301
Charleston, WV 25301
 - Name Attn: David R. Pollitt
Address _____
- 6) Inspector Rodney Dillon
Address P. O. Box 1526
Sophia, WV 25921
Telephone (304)-683-3789 (465-1911)
- (c) Coal Lessee with Declaration
Name Peabody Coal Company, Attn: Toby
Address P. o. Box 1233 Waller
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
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:

- _____ 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 24th day of June, 1988

Cheney S. Stansbury
My commission expires APRIL 9, 1989 *Cheney S. Stansbury* Commissioner - Notary Public

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

Rhinestreet 5740-6037' Perforated with 67 holes. Fracture stimulated with 50,000# sand.
 Lower Huron 4613-5259' Perforated with 69 holes. Fracture stimulated with 50,000# sand.
 Upper Devonian 3476-3711' Perforated with 71 holes. Fracture stimulated with 50,000# sand.

WELL LOG

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sand	0	98
Siltstone	98	319
Sand	319	350
Siltstone	350	606
Sand	606	855
Siltstone	855	998
Sand	998	1099
Siltstone	1099	1178
Sand	1178	1247
Siltstone	1247	1314
Sand	1314	1368
Siltstone	1368	1566
Sand	1566	1595
Siltstone	1595	1670
Ravencliff	1670	1866
Siltstone	1866	1926
Avis Limestone	1926	1961
Siltstone	1961	1991
Upper Maxton	1991	2051
Siltstone	2051	2259
Middle Maxton	2259	2329
Siltstone	2329	2436
Lower Maxton	2436	2486
Siltstone	2486	2524
Little Lime	2524	2581
Pencil Cave	2581	2625
Big Lime	2625	2974
Siltstone	2974	3063
Weir	3063	3222
Shale	3222	3451
Sunbury	3451	3475
Devonian Shale	3475	3661
Gordon	3661	3679
Devonian Shale	3679	4612
Lower Huron	4612	5268
Java	5268	5740
Rhinestreet	5740	6144
Marcellus	6144	7010
Onondaga	7010	

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

6222 - per Scott Bush, oxy-USA 7/2/89
 TD 6228 - mud logger

7341