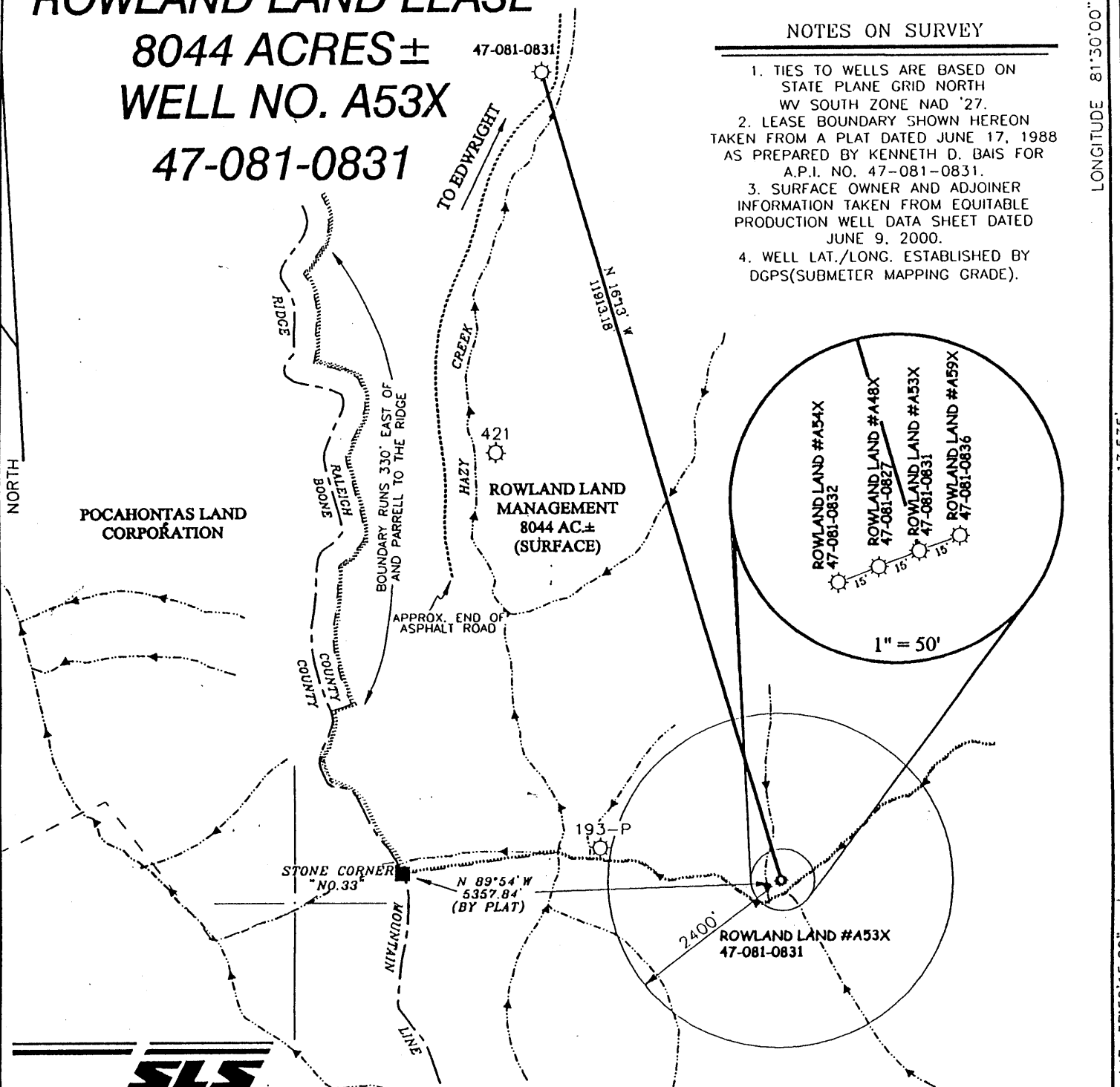


ROWLAND LAND LEASE

8044 ACRES ±
WELL NO. A53X
47-081-0831

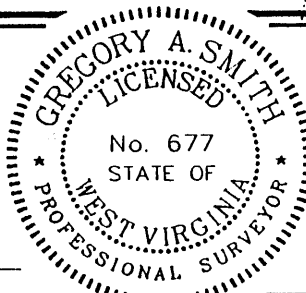
NOTES ON SURVEY

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. BAIS FOR A.P.I. NO. 47-081-0831.
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. Gregory A. Smith
 677



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

DATE JUNE 26, 2000

OPERATORS WELL NO. #A53X

API WELL NO. 47 - 081 - 0831P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4425PA53X (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

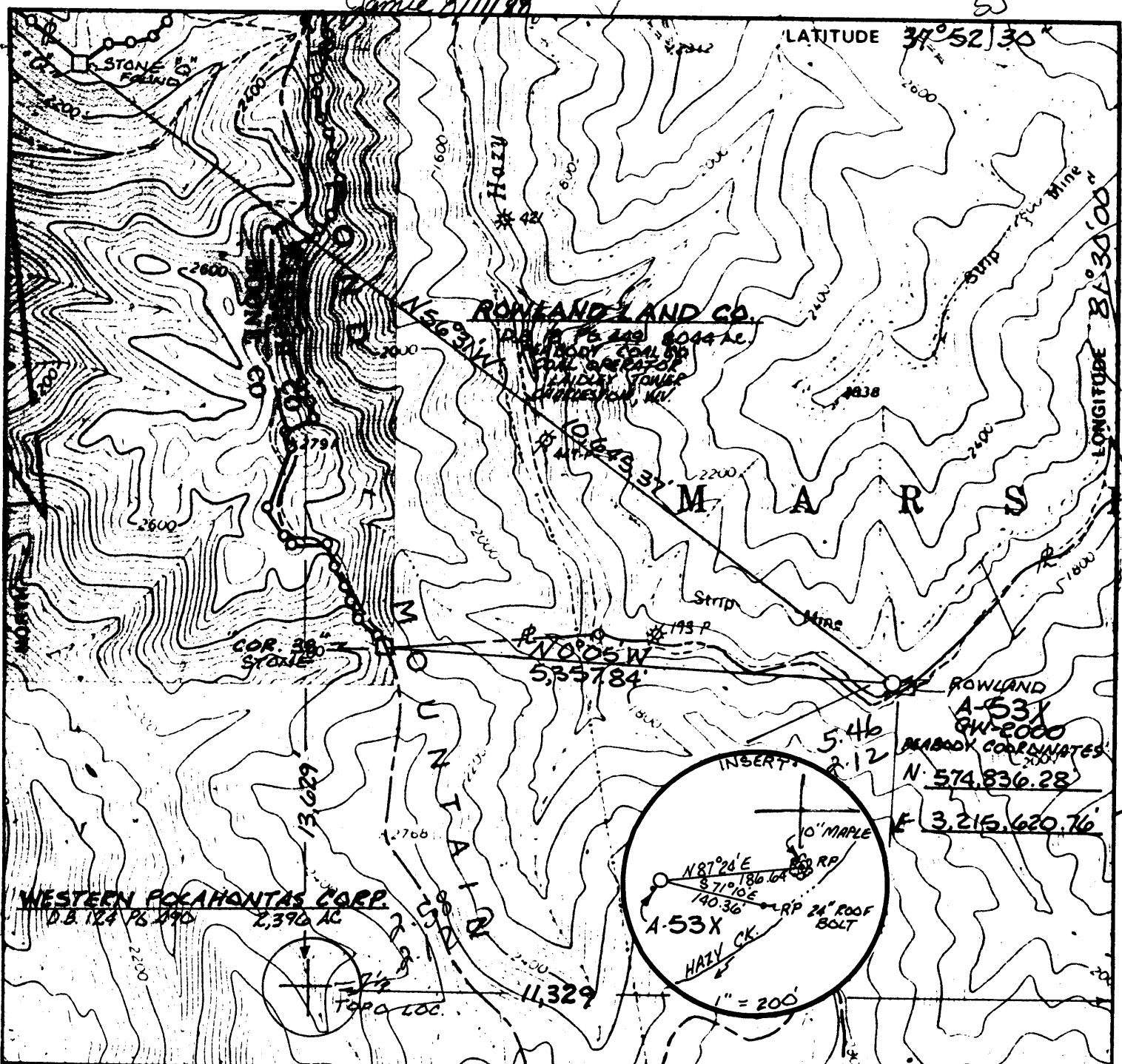
ESTIMATED DEPTH 6703'

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

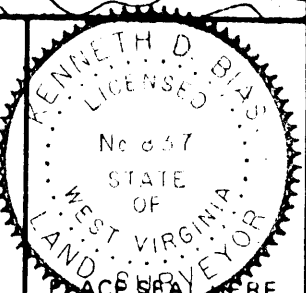
JUL 28 2000

COUNTY NAME RALEIGH PERMIT 0831P



FILE NO KDB-1-6
 DRAWING NO _____
 SCALE 1" = 1500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION PG-66 PEABODY COAL CO. (U.S.G.S.) 1576.91 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. Pior
 RPE _____ LLS 837



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

DATE JUNE 17 19 88
 OPERATOR'S WELL NO RLC A-55X
 API WELL NO GW-2000
47 081 0831
 STATE COUNTY PERM I

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 1627.72 WATERSHED HAZY CK OF BIG COAL RIVER
 DISTRICT MARSH FORK COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 547 006 6 Bald Knob EC
 SURFACE OWNER ROWLANDS LAND CO. ACREAGE P/O 47,340.87 AC.
 OIL & GAS ROYALTY OWNER ROWLANDS LAND CO. LEASE ACREAGE 693.579 AC.
 LEASE NO W.V. 389

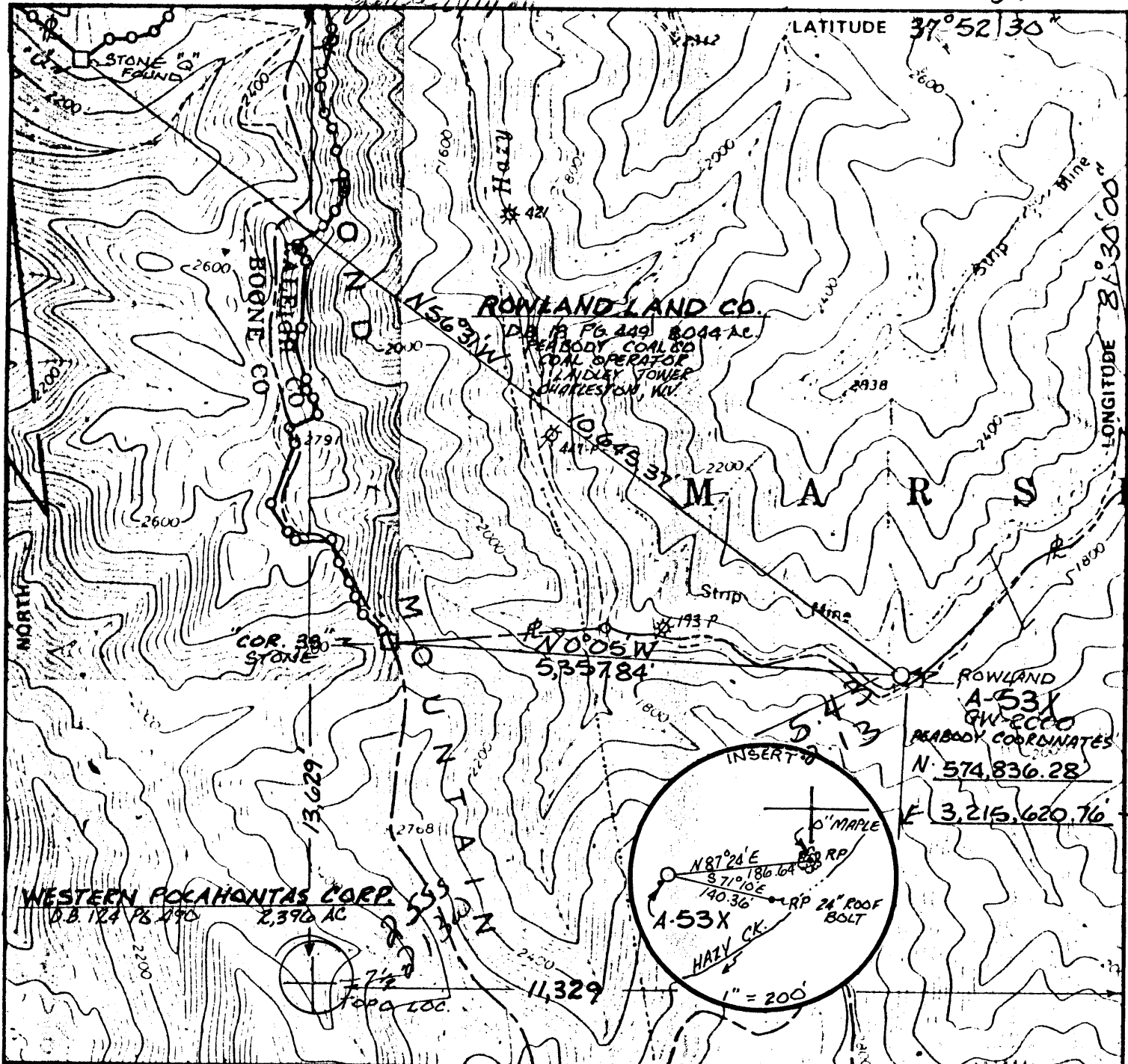
PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY): _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH MD-7735; TVD-6137'
 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

DEC 23 1988

Directional well 6-6 (vertical to) (247)

RAL-0831



FILE NO KDB-1-6
 DRAWING NO _____
 SCALE 1" = 1500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION PG-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. Pior
 RPE _____ LLS 837

KENNETH D. PIOR
 LICENSED SURVEYOR
 No 837
 STATE OF VIRGINIA
 PLACE SEAL HERE

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



DATE JUNE 17 19 88
 OPERATOR'S WELL NO RLG-A-53X
 API WELL NO GW-2000
47 081 0831
 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 1627.72 WATER SHED HAZY CK OF BIG COAL RIVER
 DISTRICT MARSH FORK 2 COUNTY RALEIGH
 QUADRANGLE PILOT KNOB 547 0066
 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 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 MD-7735; TVD-6137 AUG 22 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

RECEIVED
 SEP 14 1989

API # 47-81-00831

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

Well Name: ROWLAND LAND COMPANY LTD. Operator Well No.: A-53X, GW-2000

LOCATION: Elevation: 1627.72 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
 Latitude: 13629 Feet South of 37 Des. 52Min. 30 Sec.
 Longitude 11329 Feet West of 81 Des. 30 Min. 0 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: 12-15-88
 Well work Completed: 8-1-89
 Verbal Plugging
 Permission granted on:
 Rotary X Cable Ris
 Total Depth (feet) 6703'
 Fresh water depths (ft)
 Salt water depths (ft)

Size	Used in	Left	Cement
	&		Fill Up
Tubing	Drillings	in Well	Cu. Ft.
16"	42'	42'	Surface
11-3/4"	433'	433'	Surface
8-5/8"	2837'	2837'	Surface
5-1/2"	6503'	6503'	TOC 2530'
2-3/8"		4642'	

OPEN FLOW DATA

Producing formation Lower Huron Pay zone depth (ft) 5340' - 5986'
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow 60 MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 430 psig (surface pressure) after 16 Hours
 Second producing formation Upper Devonian Pay zone depth (ft)
 Gas: Initial open flow 455 MCF/d Oil: Initial open flow Bbl/d
 Final open flow 627 MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests 19 Hours
 Static rock Pressure 980 psig (surface pressure) after 48 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.

By: Delbert G. Oliver, Appalachian Project Manager
 For: OXY USA, INC.

By: Delbert G. Oliver
 Date: 9-13-89

SEP 15 1989

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

Formation

Lower Huron Perforated 5340-5994' (70 holes). Frac'd with 20,000# sand, 42 BLW, 560 MCF N₂. RBP set at 4710'.
 Upper Devonian Perforated 4473-4642' (70 holes) natural.

WELL LOG

<u>FORMATION</u>	<u>TOP (FT)</u>	<u>BOTTOM (FT)</u>
Sand	556	556
Siltstone	556	697
Sand	697	830
Siltstone	830	1022
Sand	1022	1124
Siltstone	1124	1204
Sand	1204	1273
Siltstone	1273	1340
Sand	1340	1394
Siltstone	1394	1732
Ravencliff	1732	1781
Siltstone	1781	1860
Sand	1860	1894
Siltstone	1894	1960
Avis Limestone	1960	2000
Siltstone	2000	2041
Upper Maxton	2041	2099
Siltstone	2099	2349
Middle Maxton	2349	2441
Siltstone	2441	2568
Lower Maxton	2568	2625
Siltstone	2625	2671
Little Lime	2671	2744
Pencil Cave	2744	2763
Big Lime	2763	3240
Siltstone	3240	3352
Weir	3352	3528
Shale	3528	3842
Sunbury	3842	3860
Upper Devonian Shale	3860	4098
Gordon	4098	4123
Upper Devonian Shale	4123	5310
Lower Huron	5310	6266
Java	6266	

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

MTD 6703

Directional well

SEP 15 1989

2530

[Handwritten signature]

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081-0831
Issued 8/21/88 Expires 8/21/90
Page 3 of 4

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

- 1) Well Operator: OXY USA INC. ³⁰⁷² 36205, 2, 546
- 2) Operator's Well Number: Rowland Land Co. A-53X, GW 2000 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 Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	H-40	65	45'	45'	Surface
Fresh Water	11-3/4"	H-40	42	500'	500'	Surface
Coal						(38CSR18-11.3
Intermediate	8-5/8"	K-55	24	2795' MD 2664' TVD	2795' MD 2664' TVD	(38CSR18-11.22 Surface
Production	5-1/2"	K-55	17	7735' MD 6137' TVD	7735' MD 6137' TVD	38CSR18-11.1 445 cu ft.
Tubing	2-3/8"	J-55	4.7	7665' MD	7665' MD	
Liners						

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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 Blum pet Agent
 (Type)

30078
25

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AUG 05 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: August 1, 1988
- 2) Operator's well number
Rowland Land Co. A-53X, GW 2000
- 3) API Well No: 47 - 081 - 0831
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 _____
 - (c) Coal Lessee with Declaration
Name Peabody Coal Company / Toby Waller
Address P. O. Box 1233
Charleston, WV 25324
- 6) Inspector Rodney Dillon
Address P. O. Box 1526
Sophia, WV 25921
Telephone (304)- 683-3989/465-1911

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 4 day of August, 1988

My commission expires _____
James J. Boy
Notary Public

WR-38
DATE:

API# 47-081-0831

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 # A53K

LOCATION: Elevation: 1642' 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

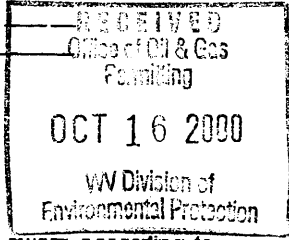
Company: Clowser Well Service
813 Dist 27.1
Sikeem WV 26426

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

Coal Operator or Owner: SAM E

Agent: Shirley Clowser

Permit Issued Date: 7-24-2000



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

TYPE	FROM	TO	PIPE REMOVED	LEFT
gel 6/8	4783	4690	NOTE	16" - 42'
cut 3/3	4690	4393	tbg not go	1174 - 433'
gel 6/8	4393	2378	past 4783	878 - 2837'
cut 3/0	2378	2278		5 1/2 - 4137'
gel 6/8	2278	1043	5 1/2 cut 2366'	
cut 3/0	1043	938		
gel 6/8	938	100		
cut 3/0	100	0		

Description of monument: 7" marker 30" above ground w/API # and that the work of plugging and filling said well was completed on the 3 day of Oct, 192000

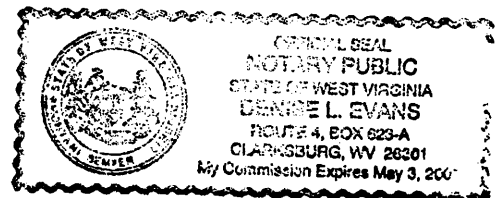
And further deponents saith not.

Randy Riddle

Sworn and subscribe before me this 2nd day of October, 192000
My commission expires: _____

Shirley Clowser
Notary Public

Oil and Gas Inspector: Richard Campbell



OCT 27 2000

RAL 0831