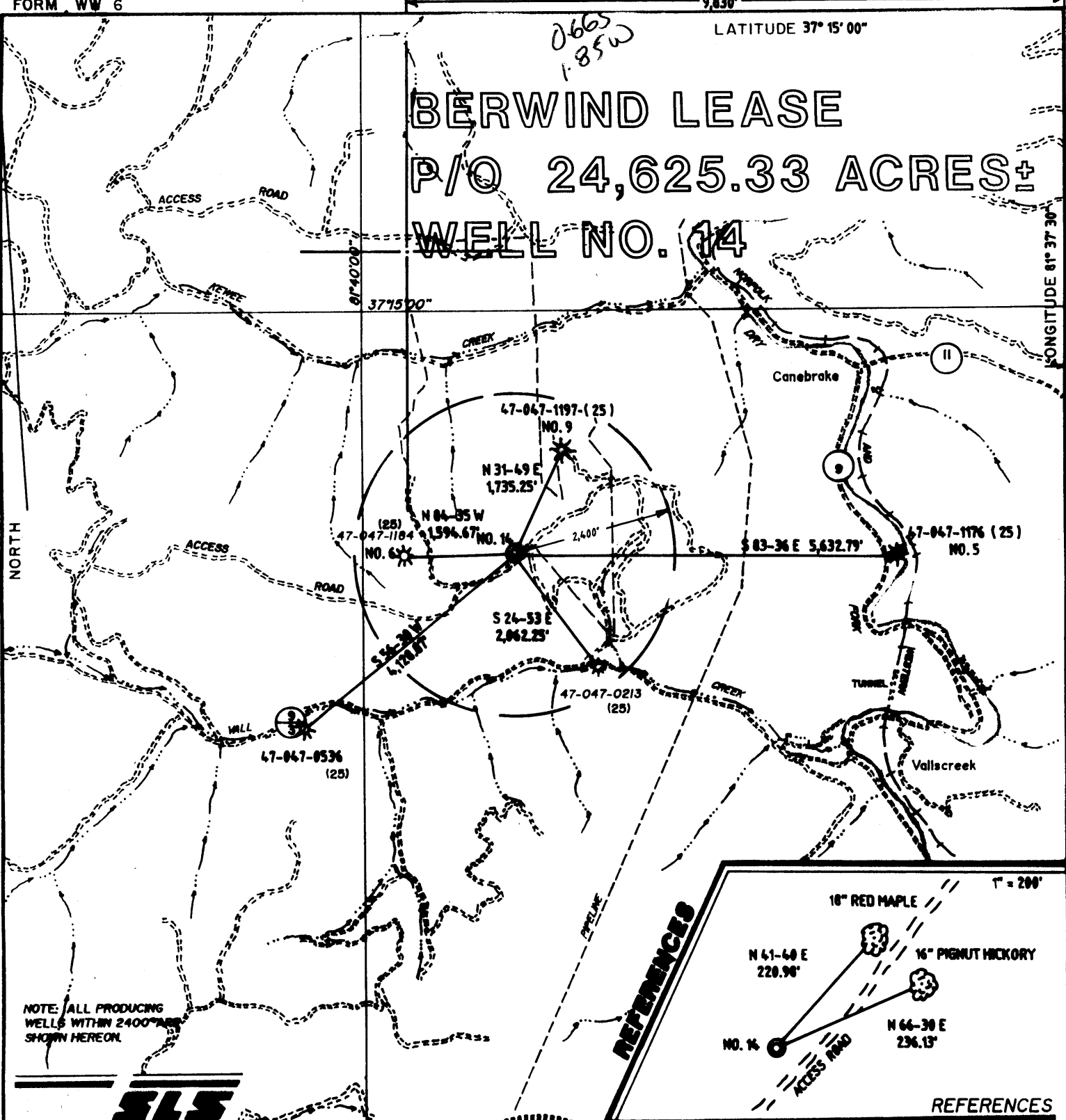


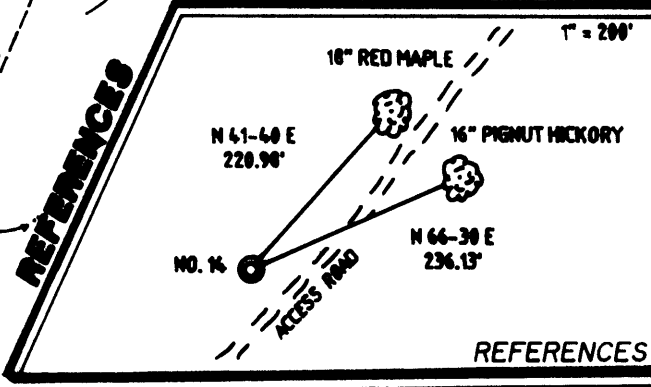
BERWIND LEASE

P/O 24,625.33 ACRES±

WELL NO. 14



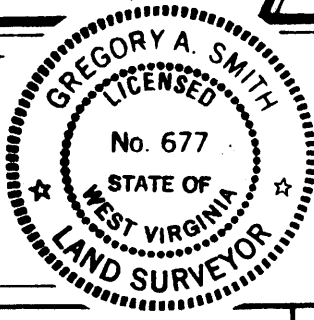
NOTE: ALL PRODUCING WELLS WITHIN 2400' ARE SHOWN HEREON.



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.

L.L.S. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY 18, 19 96
 OPERATORS WELL NO. BERWIND NO. 14
 API WELL NO. 47 - 047 - 1230
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2901 (43-30)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 2345' SCALE 1" = 2000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



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

LOCATION: ELEVATION 2363' WATERSHED VALL CREEK OF DRY FORK

DISTRICT BIG CREEK COUNTY McDOWELL QUADRANGLE ANIMATE 75'

SURFACE OWNER BERWIND LAND COMPANY TRACT NO. 103 ACREAGE P/O 24,625.33

ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE P/O 24,625.33

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 BEREA

ESTIMATED DEPTH 5000' JUL 8 1994

WELL OPERATOR WACO OIL AND GAS COMPANY, Inc. DESIGNATED AGENT STEPHEN HOLLOWAY

ADDRESS P.O. BOX 397 GLENVILLE, WV 26351 ADDRESS P.O. BOX 397 GLENVILLE, WV 26351

COUNTY NAME PERMIT

S75

SEP 27 1994

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: **BERWIND LAND COMPANY** Operator Well No.: **BERWIND #14**

LOCATION: Elevation: **2,363.00** Quadrangle: **AMONATE**

District: **BIG CREEK** County: **MCDOWELL**
Latitude: **3600** Feet South of **37** Deg. **15** Min. **0** Sec.
Longitude: **9830** Feet West of **81** Deg. **37** Min. **30** Sec.

Company: **WACO OIL & GAS CO., INC.**
1297 N. LEWIS ST.
GLENVILLE, WV 26351-0000

Agent: **STEPHEN E. HOLLOWAY**

INSPECTOR: **OFIE HELMICK**

Permit Issued: **07/08/94**

Well work commenced: **08/03/94**

Well Work completed: **08/11/94**

Verbal Plugging

Permission granted on:

Rotary Cable Rig

Total Depth (feet) **5,234'**

Fresh water depths (ft) **62', 212'**

Salt water depths (ft) **NONE REPORTED**

Is coal being mined in area (Y/N)? **Y**

Coal Depths (ft): **502-507, 748-753**

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	818'	818'	C.T.S.
8-5/8"	1,811'	1,811'	C.T.S.
4-1/2"		5,111'	145 Sks.

OPEN FLOW DATA

Producing formation **GORDON, BEREA** Pay zone depth (ft) **See Treatment**
Gas: Initial open flow **N/A** MCF/d Oil: Initial open flow **N/A** Bbl/d
Final open flow **1750** MCF/d Final open flow **N/A** Bbl/d
Time of open flow between initial and final tests **4** Hours
Static Rock pressure **375** psig (surface pressure) after **48** 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 STIMULATION, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: **WACO OIL AND GAS COMPANY, INC.**

By: **Daniel R. Chapman, Geologist**

Date: **September 19, 1994**

1st Stage: Gordon (4984-5015) 750 gal 15% HCL, 40,000# 20/40, 159 mcf N₂, 454 bbl H₂O

2nd Stage: Berea (4913-16) 750 gal 15% HCL, 62,000# 20/40, 171 mcf N₂, 574 bbl H₂O

Sand, Shale	0	1173	Damp @ 62'
Sand, Shale, Red Rock	1173	1297	1/2" stream H ₂ O @ 212'
Sand, Shale	1297	3604	
Big Lime	3604	4271	
Sand, Shale	4271	4883	
Berea	4883	4925	
Shale	4925	4975	
Gordon	4975	5027	
Shale	5027	5234	T. D.

Coal Seams

502 - 507

748 - 753

047-1230
 047 1230
 Issued Page 07/08/94 of
 Expires 07/08/96

FORM WW-2B

JUL 07 94

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

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800 (2) 210
- 2) Operator's Well Number: Berwind No. 14 3) Elevation: 2,363'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Berea 395
- 6) Proposed Total Depth: 5,000' feet
- 7) Approximate fresh water strata depths: 286'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 765'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and 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						3805/811.3
Fresh Water	11-3/4"	H	42#	810'	810'	C. T. S.
Coal						3805/811.22
Intermediate	8-5/8"	J	23#	1,785'	1,785'	C. T. S.
Production	4-1/2"	J	10.5#		5,000'	200 ft. ³
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

03115
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
 (Type)

1) Date: June 9, 1994
2) Operator's well number
Berwind No. 14
3) API Well No: 47 - 047 - 1230-
State - County - Permit

JUL 0 7 94

Permitting
Office of Oil & Gas STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Ofie Helmick
Address P. O. Box 218
Fanrock, WV 24824
Telephone (304)- 732-9135

5) (a) Coal Operator:
Name Consolidation Coal Company
Address P. O. Box 1289
Bluefield, VA 24605
(b) Coal Owner(s) with Declaration
Name Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
Name _____
Address _____
(c) Coal Lessee with Declaration
Name Consolidation Coal Company
Address P. O. Box 1289
Bluefield, VA 24605

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 7 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 Waco Oil and Gas Company, Inc.
By: [Signature] Stephen E. Holloway
Its: Agent
Address P. O. Box 397
Glenville, WV 26351
Telephone (304) 462-5347

Subscribed and sworn before me this 9th day of June, 1994

[Signature] Notary Public
My commission expires 8-24-97