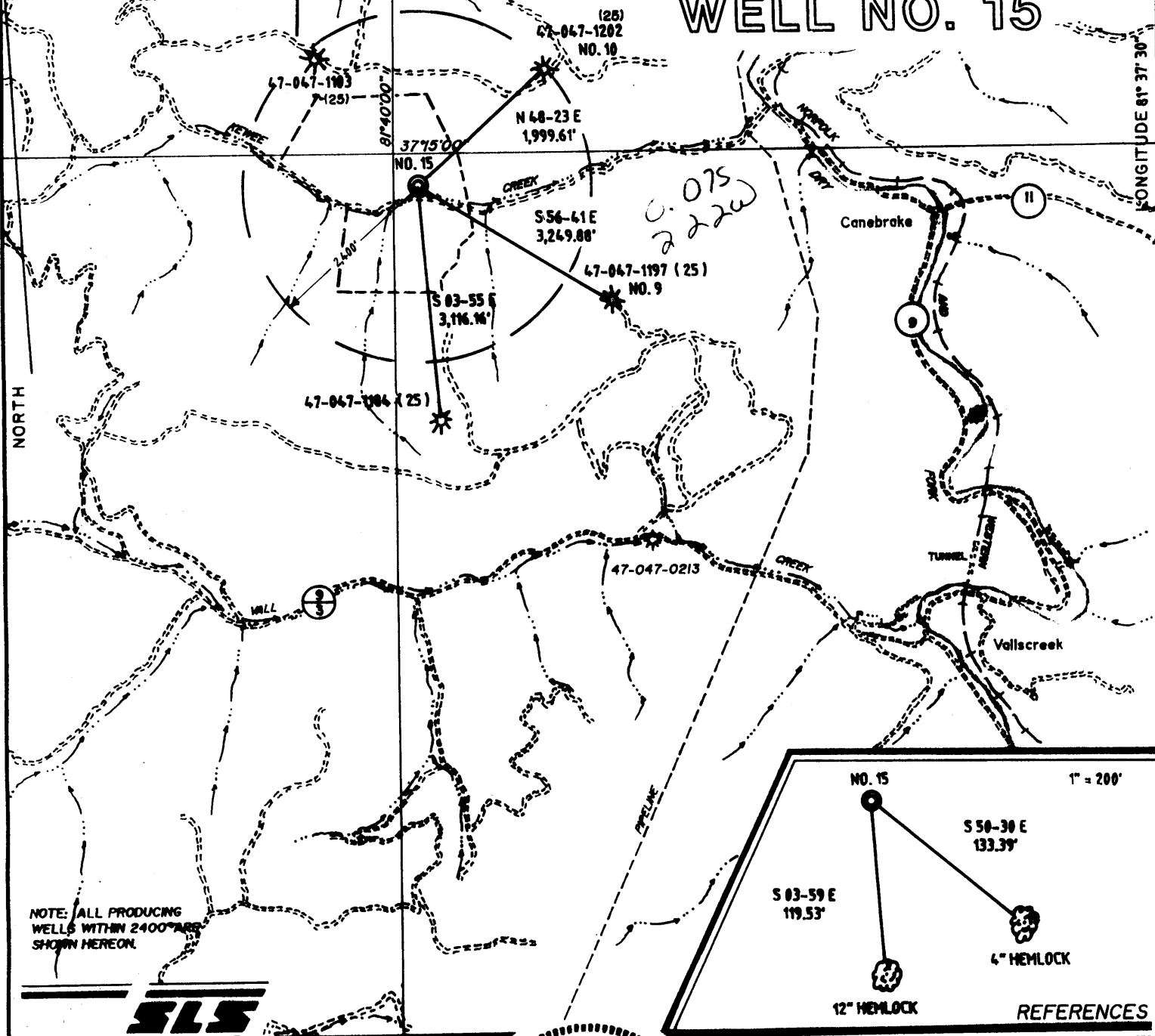
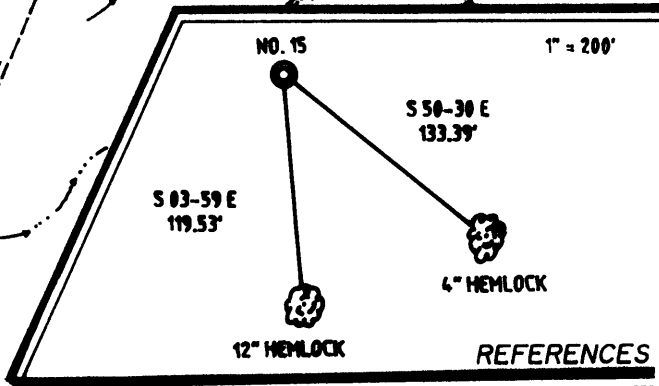


# BERWIND LEASE

P/O 24,625.33 ACRES  
WELL NO. 15

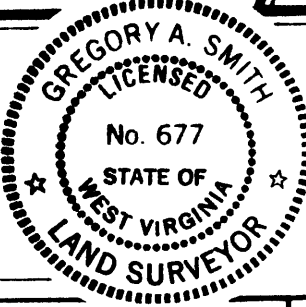


NOTE: ALL PRODUCING WELLS WITHIN 2400' ARE SHOWN HEREON.



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 10, 19 96  
OPERATORS WELL NO. BERWIND NO. 15  
API WELL NO. 47 - 047 - 1231  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2901 (43-34)  
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 X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1709' WATERSHED KEWEE CREEK DISTRICT BIG CREEK COUNTY MCDOWELL QUADRANGLE AMONATE 75'  
SURFACE OWNER BERWIND LAND COMPANY TRACT NO. 104 ACREAGE P/O 24,625.33  
ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE P/O 24,625.33  
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X 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' 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

6-6 267

S75

COUNTY NAME PERMIT

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

SEP 27 1994

Permitting  
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: **BERWIND LAND COMPANY** Operator Well No.: **BERWIND #15**

LOCATION: Elevation: **1,709.00** Quadrangle: **AMONATE**

District: **BIG CREEK** County: **MCDOWELL**  
 Latitude: **460** Feet South of **37** Deg. **15** Min. Sec.  
 Longitude: **11800** 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: **08/22/94**  
 Well Work completed: **08/29/94**  
 Verbal Plugging  
 Permission granted on:  
 Rotary  Cable Rig  
 Total Depth (feet) **4,657'**  
 Fresh water depths (ft) **81'**  
 Salt water depths (ft) **NONE REPORTED**  
 Is coal being mined in area (Y/N)? **Y**  
 Coal Depths (ft): **62-65, 90-91,**  
**148-152, 194-198**

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	276'	276'	C.T.S.
8-5/8"	1,191'	1,191'	C.T.S.
4-1/2"		4,530'	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 **1,073** MCF/d Final open flow **N/A** Bbl/d  
 Time of open flow between initial and final tests **4** Hours  
 Static Rock pressure **425** 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**

0018 1994

1st Stage: Gordon (4442-46) 750 gal 15% HCL, 47,000# 20/40, 143 mcf N<sub>2</sub>, 474 bbl H<sub>2</sub>O

2nd Stage: Berea (4334-50) 750 gal 15% HCL, 50,500# 20/40, 165 mcf N<sub>2</sub>, 551 bbl H<sub>2</sub>O

Sand, Shale	0	1315	2" stream H <sub>2</sub> O @ 81'
Sand, Shale Red Rock	1315	2370	
Sand, Shale	2370	3045	
Big Lime	3045	3700	
Sand, Shale	3700	4310	
Berea	4310	4353	
Shale	4353	4421	
Gordon	4421	4462	
Shale	4462	4657	T. D.

Coal Seams

62 - 65  
90 - 91  
148 - 152  
194 - 198

8/17/61

RECEIVED

WV Division of Environmental Protection

047-1231  
Issued 07/08/94  
Page of  
Expires 07/08/96

FORM WW-2B JUL 0 7 94

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

19448

- Well Operator: Waco Oil and Gas Company, Inc. 51800 (2) 210
- Operator's Well Number: Berwind No. 15 3) Elevation: 1,709'
- Well type: (a) Oil   / or Gas X/
- (b) If Gas: Production X/ Underground Storage   /  
Deep   / Shallow X/
- Proposed Target Formation(s): Berea 395
- Proposed Total Depth: 5,000' feet
- Approximate fresh water strata depths: 137'
- Approximate salt water depths: None
- Approximate coal seam depths: 210
- Does land contain coal seams tributary to active mine? Yes   / No X/
- Proposed Well Work: Drill and stimulate new well.
- 

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	11-3/4"	H	42#	260'	260'	C. T. S.
Coal						985/18-1.3 3025/18-2.2
Intermediate	8-5/8"	J	23#	1,150'	1,150'	C. T. S.
Production	4-1/2"	J	10.5#		5,000'	200 ft. <sup>3</sup>
Tubing						
Liners						

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

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond Surety Blanket Agent

03/15/94

Environmental  
JUL 0 7 31  
Permitting  
Office of Oil & Gas

- 1) Date: June 9, 1994
- 2) Operator's well number  
Berwind No. 15
- 3) API Well No: 47 - 047 - 1231  
State - County - Permit

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 26351  
 (b) Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 (c) Name \_\_\_\_\_  
 Address \_\_\_\_\_

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 \_\_\_\_\_

6) Inspector Ofie Helmick  
 Address P. O. Box 218  
Fanrock, WV 24824  
 Telephone (304)- 732-9135

(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