

442161198  
12/19/96

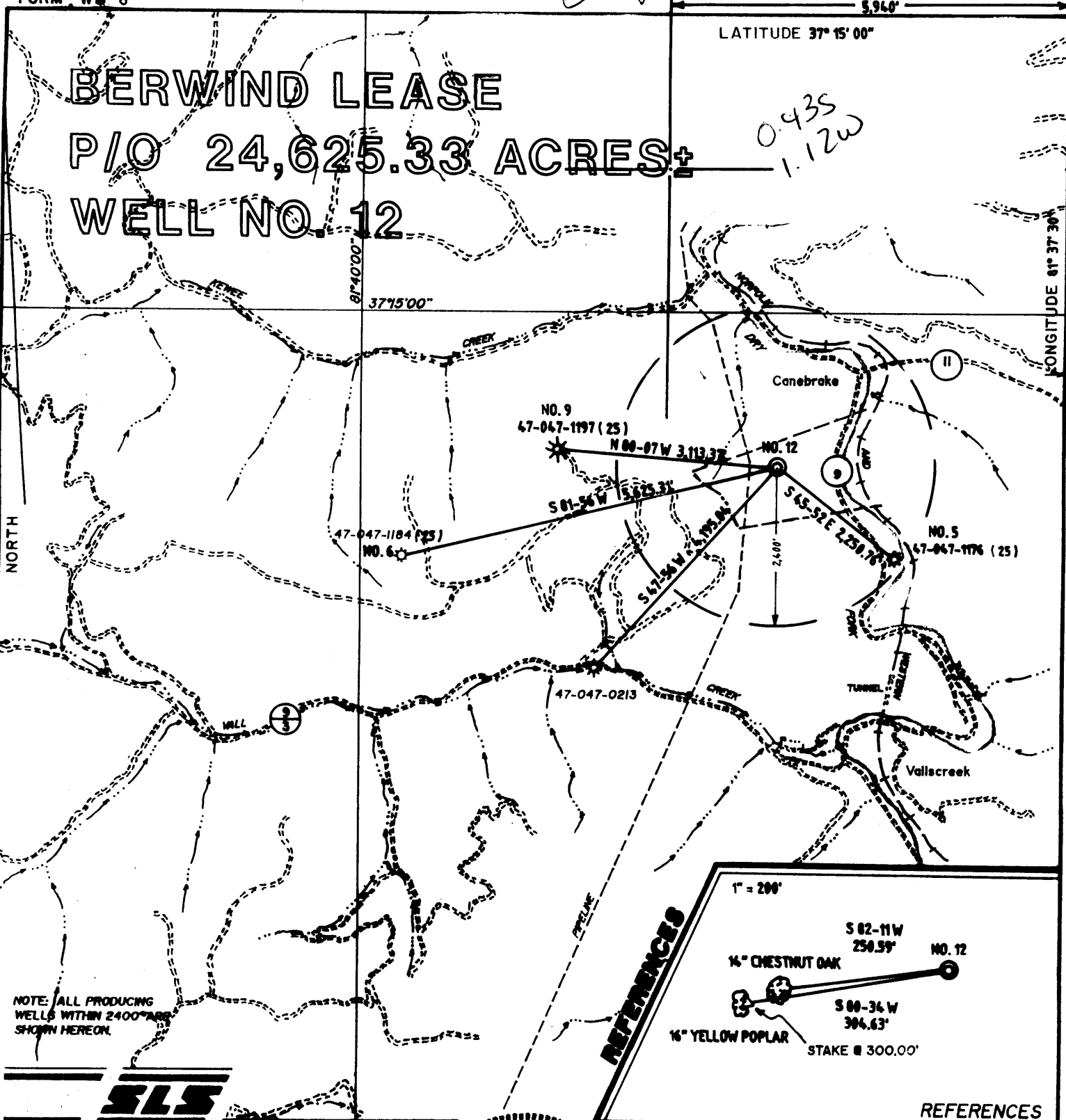
5,960'  
LATITUDE 37° 15' 00"

# BERWIND LEASE

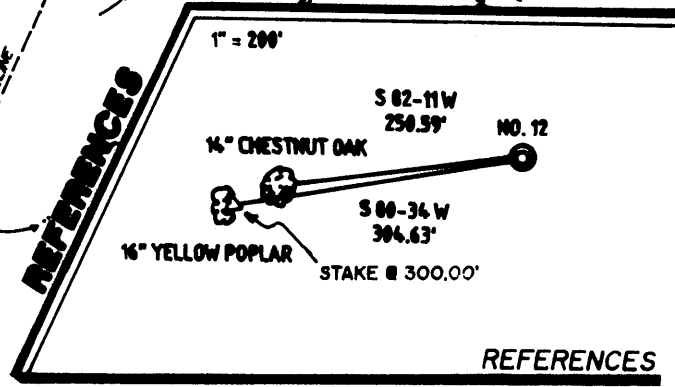
## P/O 24,625.33 ACRES

### WELL NO. 12

0.435  
1.12W

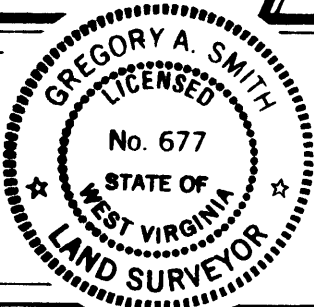


NOTE: ALL PRODUCING WELLS WITHIN 2400' ARE SHOWN HEREON.



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. 12  
 API WELL NO. 47 - 047 - 1229  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2901 (43-32)  
 SCALE 1" = 2000'  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 2345'

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 2,104' WATERSHED DRY FORK  
 DISTRICT BIG CREEK COUNTY McDOWELL QUADRANGLE AMONATE 7.5'

SURFACE OWNER BERWIND LAND COMPANY TRACT NO. 163-LH#2, 58.80 AC. ACREAGE P/O 24,625.33  
 ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE P/O 24,625.33

PROPOSED WORK: 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'

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

575

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 #12

LOCATION: Elevation: 2,104.00 Quadrangle: AMONATE

District: BIG CREEK County: MCDOWELL
Latitude: 2320 Feet South of 37 Deg. 15 Min. 0 Sec.
Longitude: 5940 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: 07/25/94
Well Work completed: 08/01/94

Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 4,865'
Fresh water depths (ft) NONE REPORTED
Salt water depths (ft) NONE REPORTED
Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 297-301, 523-527

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 11-3/4", 8-5/8", and 4-1/2" casing sizes.

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 2,054 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static Rock pressure 810 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.

Signature of Daniel R. Chapman
For: WACO OIL AND GAS COMPANY, INC.

By: Daniel R. Chapman, Geologist

Date: September 19, 1994

0078 394

1st Stage: Gordon (4711-33) 750 gal 15% HCL, 40,500# 20/40, 129 mcf N<sub>2</sub>, 430 bbl H<sub>2</sub>O

2nd Stage: Berea (4630-34) 750 gal 15% HCL, 61,400# 20/40, 169 mcf N<sub>2</sub>, 589 bbl H<sub>2</sub>O

Sand, Shale	0	955	
Sand, Shale, Red Rock	955	2438	No water reported
Sand, Shale	2438	3257	
Big Lime	3257	3984	
Sand, Shale	3984	4602	
Berea	4602	4643	
Shale	4643	4703	
Gordon	4703	4746	
Shale	4746	4865	T. D.

Coal Seams

297 - 301

523 - 527

2025/1

FORM WW-2B

JUL 07 94

Page of

Permitting Office of Oil & Gas

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

Issued 07/08/94 Expires 07/08/96

233

2 210

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800
2) Operator's Well Number: Berwind No. 12 3) Elevation: 2,104'
4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage / Deep / Shallow X/
5) Proposed Target Formation(s): Berea 395
6) Proposed Total Depth: 5,000' feet
7) Approximate fresh water strata depths: 120'
8) Approximate salt water depths: None
9) Approximate coal seam depths: 500'
10) Does land contain coal seams tributary to active mine? Yes / No X/
11) Proposed Well Work: Drill and stimulate new well.
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and 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 Agent

19446

03/15/24

Permitting  
Office of Oil & Gas

1) Date: June 9, 1994  
2) Operator's well number  
Berwind No. 12  
3) API Well No: 47 - 047 - 1229  
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 Bank  
Charleston, WV 25301  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Ofie Helmick  
Address P. O. Box 219  
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, WV 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, 19 94

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