

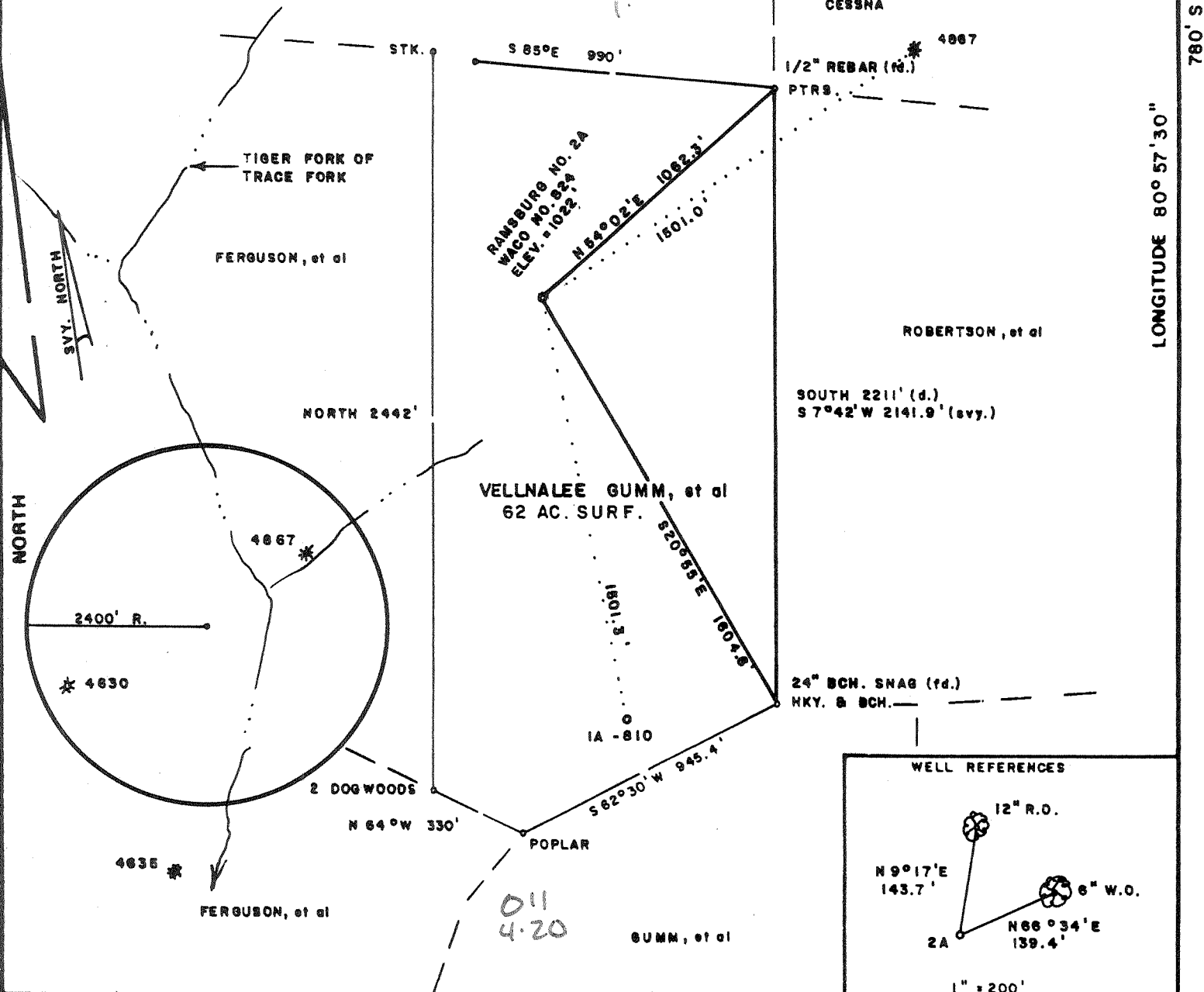
# RAMSBURG LEASE 62 AC. ±

LATITUDE 39°00'00"

## WACO NO. 824

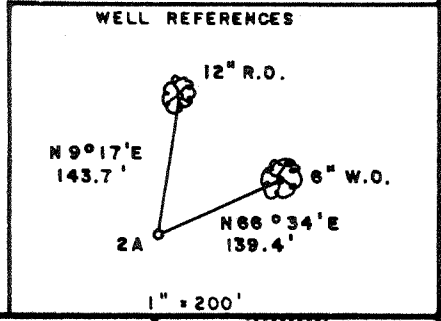
7.5' topo. loc. GROVE

*0.115  
1.96W*



LONGITUDE 80°57'30"

780' S



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SOUTH OF LOC. ELEV. 1202'

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.  
*Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490

PLACE SEAL HERE

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



DATE JUNE 14, 19 93  
 OPERATOR'S WELL NO. RAMSBURG NO. 2A  
 API WELL NO. WACO NO. 824  
 47 - 021 - 5183  
 STATE COUNTY PERMIT

### STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS Y LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION Y STORAGE \_\_\_ DEEP \_\_\_ SHALLOW Y  
 LOCATION: ELEVATION 1022' WATER SHED TIGER FORK OF TRACE FORK  
 DISTRICT DEKALB COUNTY GILMER  
 QUADRANGLE TANNER 7.5' *Gen. NW*  
 SURFACE OWNER VELLNALEE GUMM, et al ACREAGE 62  
 OIL & GAS ROYALTY OWNER INGEBORG RAMSBURG LEASE ACREAGE 62  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL Y CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE Y PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 5900'  
 WELL OPERATOR WACO OIL & GAS CO. INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY  
 ADDRESS P.O. BOX 397 ADDRESS P.O. BOX 397  
 GLENVILLE, W. VA. 26351 GLENVILLE, W. VA. 26351

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

Well Operator's Report of Well Work

Farm name: GUMM, VELLNALEE ETAL. Operator Well No.: RAMSBURG #2A-824

LOCATION: Elevation: 1,022.00 Quadrangle: TANNER

District: DEKALB County: GILMER  
Latitude: 780 Feet South of 39 Deg. Min. Sec.  
Longitude: 10290 Feet West of 80 Deg. 57 Min. 30 Sec.

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

Agent: STEPHEN E. HOLLOWAY

INSPECTOR: CRAIG DUCKWORTH

Permit Issued: 04/22/94

Well work commenced: 05/11/94

Well Work completed: 05/15/94

Verbal Plugging

Permission granted on:

Rotary  Cable Rig

Total Depth (feet) 6300'

Fresh water depths (ft) 109'

Salt water depths (ft) NONE

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

Coal Depths (ft): NONE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1064'	1064'	C. T. S.
4-1/2"		6235'	630 Sks.

OPEN FLOW DATA

Producing formation Devonian Shale 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 Show Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static Rock pressure 1580 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: July 26, 1994

AUG 26 1994

1st Stage: Devonian Shale (6211-5615) 1500 gal 15% HCL, 35 ton CO<sub>2</sub>, 725 mcf N<sub>2</sub>

2nd Stage: Elk, Alexander (5392-4920) 660 gal 15% HCL, 40 ton CO<sub>2</sub>, 850 mcf N<sub>2</sub>

3rd Stage: Benson, Riley, Balltown (4747-3963) 660 gal 15% HCL, 40 ton CO<sub>2</sub>, 875 mcf N<sub>2</sub>

4th Stage: Balltown, Speechly (3917-3664) 680 gal 15% HCL, 35 ton CO<sub>2</sub>, 700 mcf N<sub>2</sub>

Sand, Shale	0	113	1/2" stream @ 109'
Sand, Shale, Red Rock	113	968	
Sand, Shale	968	1902	
Little Lime	1902	1920	
Blue Monday	1920	1930	
Big Lime	1930	1986	
Big Injun	1986	2076	
Sand, Shale	2076	3339	
Speechly Section	3339	3688	
Shale	3688	3735	
Balltown Section	3735	4298	
Riley Section	4298	4703	
Shale	4703	4744	
Benson	4744	4748	
Shale	4748	4965	
Alexander	4965	5017	
Shale	5017	5138	
Elk Section	5138	5398	
Shale	5398	6300	T. D.

APR 07 94

21 5183

FORM WW-2B Permitting  
Office of Oil & Gas

Page \_\_\_ of \_\_\_

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

Issued 04/22/94  
Expires 04/22/96  
② 634

18981

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800
- 2) Operator's Well Number: Waco 824-Ramsburg 2A 3) Elevation: 1022'
- Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): Marcellus 437
- 6) Proposed Total Depth: 5,900 feet
- 7) Approximate fresh water strata depths: 82'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 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

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	8-5/8"	API	20.7	700'	700'	C.T.S.
Coal						
Intermediate						
Production	4-1/2"	API	10.5#		5,900'	525 Sks.
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 Security     Agent  
(Type)

02976  
12

1) Date: June 21, 1993  
2) Operator's well number Waco 824 - Ramsburg 2A  
3) API Well No: 47 - 021 - 5183  
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 Vellnalee Gumm et al  
Address 3503 Emerson Court  
Parkersburg, WV 26104  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Craig Duckworth  
Address Box 107, Davisson Rt.  
Gassaway, WV 26624  
Telephone (304)- 364-5942

(c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_

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:

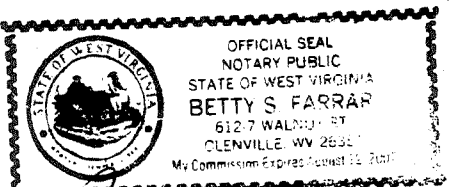
- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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: Stephen E. Holloway  
Its: Agent  
Address P. O. Box 397  
Glenville, WV 26351  
Telephone (304) 462-5347



Subscribed and sworn before me this 21st day of June, 1993

Betty S. Farrar  
My commission expires Aug. 12, 2002 Notary Public