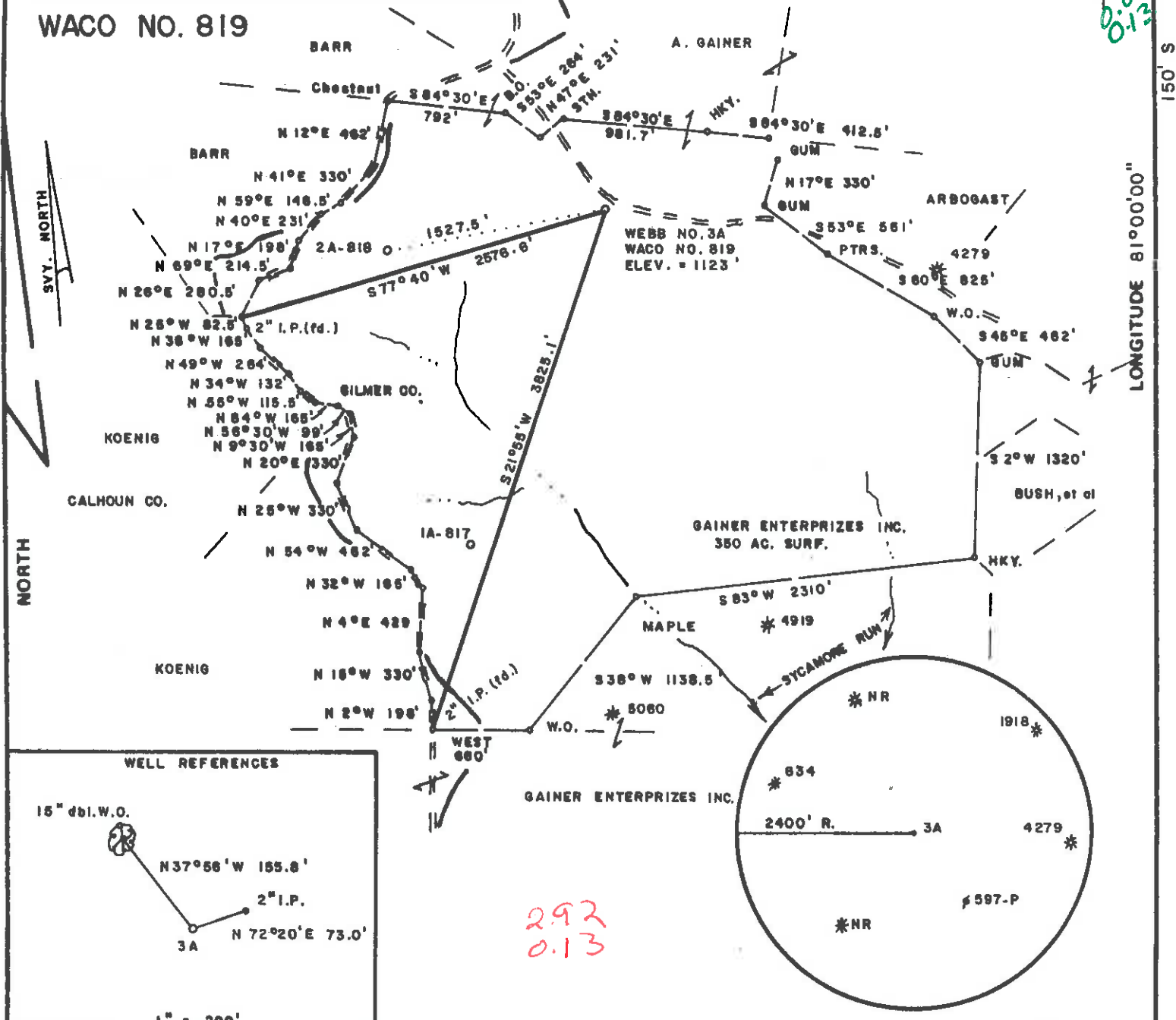


# WEBB LEASE 400 AC. ±

LATITUDE 38°57'30"

7.5' topo. loc.

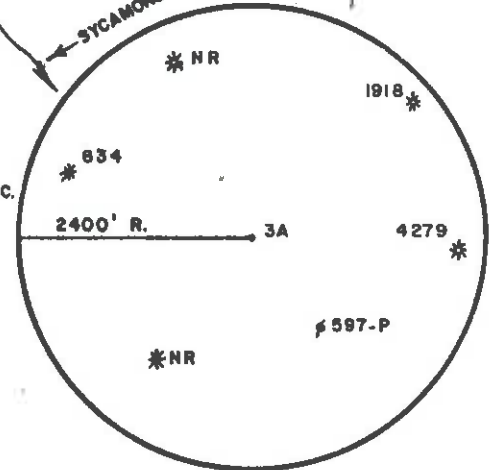
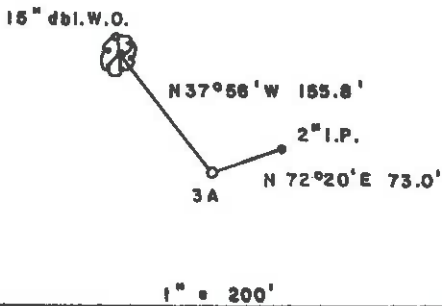
## WACO NO. 819



0.04  
0.13

2.92  
0.13

### WELL REFERENCES



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB NORTH OF LEASE ELEV. = 1165'

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



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



DATE MAY 28, 19 93  
 OPERATOR'S WELL NO. WEBB NO. 3A  
 API WELL NO. WACO NO. 819  
47 - 021 - 5129  
 STATE COUNTY PERMIT

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

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1123' WATERSHED SYCAMORE RUN OF TANNER CREEK  
 DISTRICT DEKALB COUNTY GILMER  
 QUADRANGLE GRANTSVILLE 7.5' Arnolds NE  
 SURFACE OWNER GAINER ENTERPRIZES INC. ACREAGE 350 of 400  
 OIL & GAS ROYALTY OWNER GAINER ENTERPRIZES INC. LEASE ACREAGE 400  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  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 PO. BOX 397  
GLENVILLE, W. VA. 26351 GLENVILLE, W. VA. 26351

JUL 23 1993

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

Well Operator's Report of Well Work

Farm name: **GAINER ENTERPRISES, INC. Operator Well No.: WEBB 3A-WACO 819**

LOCATION: Elevation: **1,123.00** Quadrangle: **GRANTSVILLE**

District: **DEKALB** County: **GILMER**  
Latitude: **150** Feet South of **38** Deg. **57** Min. **30** Sec.  
Longitude: **640** Feet West of **81** Deg. Min. Sec.

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

Agent: **STEPHEN E. HOLLOWAY**

INSPECTOR: **CRAIG DUCKWORTH**  
Permit Issued: **07/19/93**  
Well work commenced: **09/20/93**  
Well Work completed: **09/26/93**  
Verbal Plugging  
Permission granted on:  
Rotary  Cable Rig  
Total Depth (feet) **6397'**  
Fresh water depths (ft) **70'**  
Salt water depths (ft) **1608'**  
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.
11-3/4"	219	219	C.T.S.
8-5/8"	2054	2054	150 Sks.
4-1/2"		6333	620 Sks.

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) **See Treatment**  
Gas: Initial open flow **N/A** MCF/d Oil: **N/A** 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 **1515** 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: **October 15, 1993**

1st Stage: Devonian Shale, Elk (6272-5495) 1500 gal 15% HCL, 40 ton CO<sub>2</sub>, 730 Mcf N<sub>2</sub>

2nd Stage: Elk, Alexander, Benson, Riley (5272-4715) 660 gal 15% HCL, 30 ton CO<sub>2</sub>, 800 Mcf N<sub>2</sub>

3rd Stage: Riley, Balltown (4561-4415) 630 gal 15% HCL, 30 ton CO<sub>2</sub>, 800 Mcf N<sub>2</sub>

4th Stage: Balltown, Speelhy (4227-3483) 710 gal 15% HCL, 60 ton CO<sub>2</sub>, 1150 Mcf N<sub>2</sub>

Sand, Shale	0	100	Damp @ 70'
Sand, Shale, Red Rock	100	349	Damp @ 1608'
Sand, Shale	349	2042	
Little Lime	2042	2062	
Blue Monday	2062	2082	
Big Lime	2082	2122	
Big Injun	2122	2225	
Sand, Shale	2225	3475	
Speelhy Section	3475	3812	
Shale	3812	3871	
Balltown Section	3871	4414	
Riley Section	4414	4807	
Shale	4807	4858	
Benson	4858	4862	
Shale	4862	5045	
Alexander	5045	5126	
Shale	5126	5268	
Elk Section	5268	5500	
Shale	5500	6397	T. D.

RECEIVED

WV Division of Environmental Protection

FORM WW-2B

JUL 12 1993

021-5129  
Issued 7/19/93

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

Page \_\_\_ of \_\_\_  
Expires 7/19/95

- 1) Well Operator: Waco Oil and Gas Company, Inc. <sup>933</sup> 5180' (2) 379
- 2) Operator's Well Number: Waco 819-Webb 3A 3) Elevation: 1123'
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): Marcellus <sup>437</sup>
- 6) Proposed Total Depth: 5,900' feet
- 7) Approximate fresh water strata depths: 89'
- 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"	A P I	20.#	700'	700'	C. T. S.
Coal						
Intermediate						
Production	4-1/2"	A P I	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 Surety  Agent  
 (Type)

17596

2625/13

RECEIVED  
WV Dept. of Environmental Protection

JUL 12 1993

- 1) Date: July 8, 1993
- 2) Operator's well number Waco 819 - Webb 3A
- 3) API Well No: 47 - 021 - 5129  
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 Gainer Enterprises, Inc.  
Address 918 Ridgemont Road  
Charleston, WV 25314
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address N/A
  - (b) Coal Owner(s) with Declaration
    - Name \_\_\_\_\_  
Address N/A
    - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration
    - Name \_\_\_\_\_  
Address N/A
- 6) Inspector Craig Duckworth  
Address Box 107, Davisson Rt.  
Gassaway, WV 26624  
Telephone (304)- 364-5942

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  
Glennville, WV 26351  
Telephone (304) 462-5347

Subscribed and sworn before me this 8th day of July, 1993

My commission expires November 1, 1993 Notary Public