

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 4A-WACO 820**

LOCATION: Elevation: **1,185.00** Quadrangle: **TANNER**

District: **DEKALB** County: **GILMER**
 Latitude: **1490** Feet South of **38** Deg. **57** Min. **30** Sec.
 Longitude: **11880** 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: **07/19/93**

Well work commenced: **09/28/93**

Well Work completed: **10/03/93**

Verbal Plugging

Permission granted on:

Rotary Cable Rig

Total Depth (feet) **6409'**

Fresh water depths (ft) **72'**

Salt water depths (ft) **1735'**

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"	221	221	C.T.S.
8-5/8"	2095	2095	150 Sks.
4-1/2"		6324	620 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 **1858** MCF/d Final open flow **Show** Bbl/d

Time of open flow between initial and final tests **4** Hours

Static Rock pressure **1540** 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 (6250-5502) 1500 gal 15% HCL, 40 ton CO₂, 803 Mcf N₂

2nd Stage: Alexander, Benson, Riley (5135-4782) 660 gal 15% HCL, 40 ton CO₂, 900 Mcf N₂

3rd Stage: Riley, Balltown (4745-4227) 660 gal 15% HCL, 40 ton CO₂, 1044 Mcf N₂

4th Stage: Balltown, Speechly (4150-3491) 660 gal 15% HCL, 40 ton CO₂, 955 Mcf N₂

Sand, Shale	0	192	1/4" Stream @ 72'
Sand, Shale, Red Rock	192	1095	1/4" Stream @ 1735'
Sand, Shale	1095	2055	
Little Lime	2055	2075	
Blue Monday	2075	2095	
Big Lime	2095	2134	
Big Injun	2134	2234	
Sand, Shale	2234	3488	
Speechly Section	3488	3821	
Shale	3821	3878	
Balltown Section	3878	4424	
Riley Section	4424	4824	
Shale	4824	4874	
Benson	4874	4878	
Shale	4878	5095	
Alexander	5095	5146	
Shale	5146	5285	
Elk Section	5285	5520	
Shale	5520	6409	T. D.

RECEIVED

Division of Environmental Protection
FORM WW-2B

11 1 2 93

Department of Oil & Gas

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

5130
021-~~0230~~
Issued 7/19/93
Page of
Expires 7/19/95

- 1) Well Operator: Waco Oil and Gas Company, Inc. ⁹³³ (2) 633
- 2) Operator's Well Number: Waco 820 - Webb 4A 3) Elevation: 1185'
- 4) 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: 112'
- 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

02625 / 13
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
(Type)

17597

1) Date: July 8, 1993
2) Operator's well number
Waco 820 - Webb 4A
3) API Well No: 47 - 021 - 5130
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Gainer Enterprises, Inc.</u> Address <u>819 Ridgemoor Road</u> <u>Charleston, WV 25314</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u> Address _____</p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u> Address _____</p>
<p>6) Inspector <u>Craig Duckworth</u> Address <u>Box 107, Davisson Rt.</u> <u>Gassaway, WV 26624</u> Telephone (304)- <u>364-5942</u></p>	

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
Glennville, WV 26351
 Telephone (304) 462-5347

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

[Signature] Notary Public
My commission expires November 1, 1993