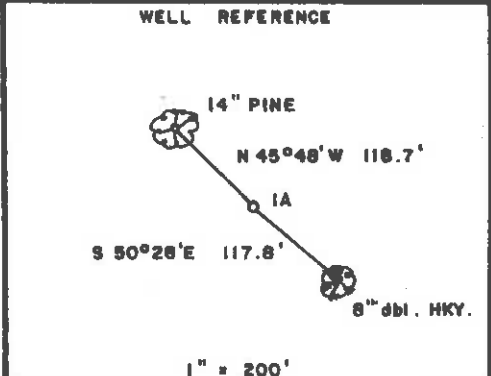
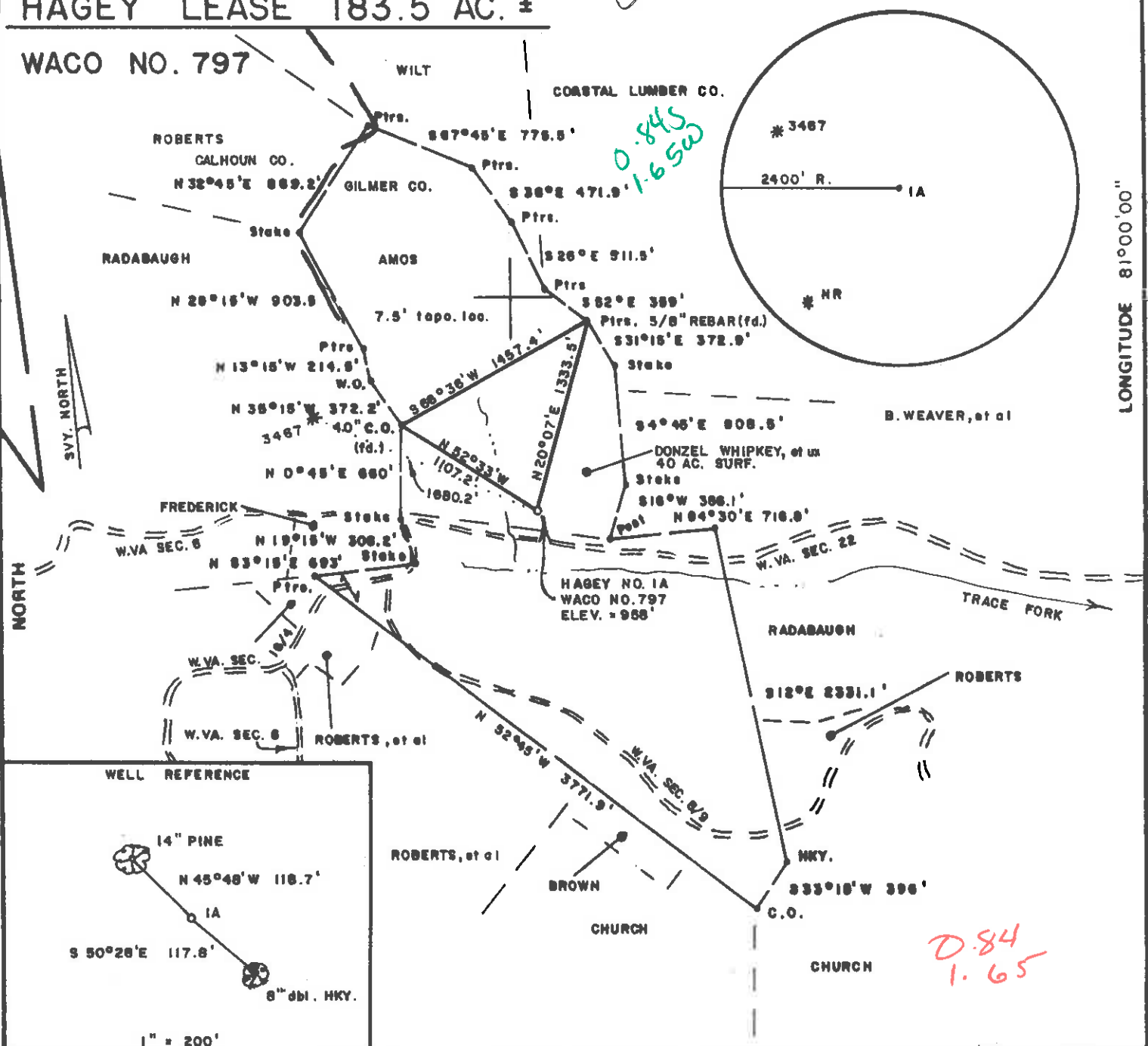


# HAGEY LEASE 183.5 AC. ±

LATITUDE 39°00'00"

## WACO NO. 797



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS  
 WEST SIDE LEASE ELEV. = 1071'

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 APRIL 9, 19 93  
 OPERATOR'S WELL NO. HAGEY NO. 1A  
 API WELL NO. WACO NO. 797  
 47 - 021 - 5180  
 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 958 WATER SHED TRACE FORK  
 DISTRICT DEKALB COUNTY GILMER  
 QUADRANGLE GRANTSVILLE 7.5' *Arndles NE*  
 SURFACE OWNER DONZEL WHIPKEY, et ux ACREAGE 40  
 OIL & GAS ROYALTY OWNER ROBERT FRED RADABAUGH, et al LEASE ACREAGE 183.5  
 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 P.O. BOX 397  
 GLENVILLE, W. V. 26351 *933* GLENVILLE, W. V. 26351

APR 10 1994

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

Well Operator's Report of Well Work

Farm name: WHIPKEY, DONZEL ETUX Operator Well No.: HAGEY 1A-W-797

LOCATION: Elevation: 958.00 Quadrangle: GRANTSVILLE

District: DEKALB County: GILMER  
Latitude: 4460 Feet South of 39 Deg. Min. Sec.  
Longitude: 8700 Feet West of 81 Deg. Min. Sec.

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1104'	1104'	C. T. S.
4-1/2"		6012'	610 Sks.

Agent: STEPHEN E. HOLLOWAY

INSPECTOR: CRAIG DUCKWORTH  
Permit Issued: 04/22/94  
Well work commenced: 06/06/94  
Well Work completed: 06/11/94  
Verbal Plugging  
Permission granted on:  
Rotary  Cable Rig  
Total Depth (feet) 6085'  
Fresh water depths (ft) 134'  
Salt water depths (ft) 1587'  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): NONE

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 1525 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 (5952-5430) 1500 gal 15% HCL, 40 ton CO<sub>2</sub>, 820 mcf N<sub>2</sub>

2nd Stage: Elk, Alexander (5251-4777) 660 gal 15% HCL, 45 ton CO<sub>2</sub>, 890 mcf N<sub>2</sub>

3rd Stage: Benson, Riley, Balltown (4606-3883) 750 gal 15% HCL, 50 ton CO<sub>2</sub>, 900 mcf N<sub>2</sub>

4th Stage: Balltown, Speechly (3729-3249) 590 gal 15% HCL, 20 ton CO<sub>2</sub>, 650 mcf N<sub>2</sub>

Sand, Shale	0	320	1" Stream @134'
Sand, Shale, Red Rock	320	969	Damp @ 1587'
Sand, Shale	969	1771	
Little Lime	1771	1796	
Blue Monday	1796	1819	
Big Lime	1819	1858	
Big Injun	1858	1949	
Sand, Shale	1949	3248	
Speechly Section	3248	3590	
Shale	3590	3644	
Balltown Section	3644	4182	
Riley Section	4182	4567	
Shale	4567	4604	
Benson	4604	4608	
Shale	4608	4821	
Alexander	4821	4877	
Shale	4877	5022	
Elk Section	5022	5257	
Shale	5257	6085	T. D.

APR 07 1996

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Office of the Director  
WELL WORK PERMIT APPLICATION

18978

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800 (2) 379
- 2) Operator's Well Number: Waco 797-Hagey 1A 3) Elevation: 958'
- Well type: (a) Oil  or Gas 
  - (b) If Gas: Production  / Underground Storage 
    - Deep  / Shallow
- 5) Proposed Target Formation(s): Marcellus 437
- 6) Proposed Total Depth: 5,900 feet
- 7) Approximate fresh water strata depths: 97'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 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						3805/11.1
Fresh Water	8-5/8"	API	20.5#	700'	700'	C. T. S.
Coal						
Intermediate						
Production	4-1/2"	API	10.5#		5,900'	525 Sk.
Tubing						3805/11.1
Liners						

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

For Division of Oil and Gas Use Only

02976/12

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket Agent

(Type)

Environmental  
APR 07 94  
Permitting  
Office of Oil & Gas

1) Date: March 10, 1994  
2) Operator's well number  
WACO 797-Hagey 1A  
3) API Well No: 47 - 021 -  
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>Donzel Whipkey, etux</u> Address <u>2000 Gihon Road</u> <u>Parkersburg, WV 26101</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 <u>N/A</u> with Declaration</p> <p>Name <u>N/A</u> Address _____</p>
<p>6) Inspector <u>Craig Duckworth</u> Address <u>Box 107, Davisson Route</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: Stephen E. Holloway Stephen E. Holloway  
Its: Agent  
Address P. O. Box 397  
Glenville, WV 26351  
Telephone (304) 462-5347



Subscribed and sworn before me this 10th day of March, 19 94

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