



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB WEST OF LEASE ELEV. = 1292'

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



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



DATE MARCH 15, 19 93  
 OPERATOR'S WELL NO. MARTIN NO. 1A  
 API WELL NO. WACO NO. 800  
 47 - 021 - 5181  
 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 1095' WATER SHED BRANCH OF TRACE FORK (TIGER FORK)  
 DISTRICT DEKALB COUNTY GILMER  
 QUADRANGLE SMITHVILLE 7.5' Harrisonville SE

SURFACE OWNER GERALDINE CUNNINGHAM, et al ACREAGE 200  
 OIL & GAS ROYALTY OWNER MARGARET CONAWAY, et al LEASE ACREAGE 200  
 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 GLENVILLE, W.V. 26351

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

Well Operator's Report of Well Work

Farm name: CUNNINGHAM, GERALDINE Operator Well No.: MARTIN #1A-W-800

LOCATION: Elevation: 1,095.00 Quadrangle: SMITHVILLE

District: DEKALB County: GILMER  
Latitude: 14700 Feet South of 39 Deg. 2 Min. 30 Sec.  
Longitude: 90 Feet West of 81 Deg. Min. Sec.

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

Agent: STEPHEN E. HOLLOWAY

INSPECTOR: CRAIG DUCKWORTH

Permit Issued: 04/22/94

Well work commenced: 05/31/94

Well Work completed: 06/05/94

Verbal Plugging

Permission granted on:

Rotary  Cable Rig

Total Depth (feet) 6262'

Fresh water depths (ft) 133'

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"	1097'	1097'	C. T. S.
4-1/2"		6195'	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 1517 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 4 Hours

Static Rock pressure 1400 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: Devonain Shale, Elk (6146-5374) 1500 gal 15% HCL, 40 ton CO<sub>2</sub>, 800 mcf N<sub>2</sub>

2nd Stage: Elk, Alexander, Benson, Riley (5161-4685) 660 gal 15% HCL, 30 ton CO<sub>2</sub>, 700 mcf N<sub>2</sub>

3rd Stage: Riley, Balltown (4665-4065) 660 gal 15% HCL, 45 ton CO<sub>2</sub>, 1000 mcf N<sub>2</sub>

4th Stage: Balltown, Speechly (4000-3333) 680 gal 15% HCL, 45 ton CO<sub>2</sub>, 875 mcf N<sub>2</sub>

Sand, Shale	0	280	1" Stream @ 133'
Sand, Shale, Red Rock	280	1063	
Sand, Shale	1063	1904	
Little Lime	1904	1921	
Blue Monday	1921	1948	
Big Lime	1948	1987	
Big Injun	1987	2079	
Sand, Shale	2079	3344	
Speechly Section	3344	3691	
Shale	3691	3742	
Balltown Section	3742	4303	
Riley Section	4303	4667	
Shale	4667	4732	
Benson	4732	4736	
Shale	4736	4953	
Alexander	4953	5006	
Shale	5006	5158	
Elk Section	5158	5388	
Shale	5388	6262	T. D.

RECEIVED

021-5181 ✓  
Issued 04/22/94  
Page \_\_\_ of \_\_\_  
Expires 04/22/96

FORM WW-2B

APR 07 94

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permitting  
Office of Oil & Gas

WELL WORK PERMIT APPLICATION

933

51800 (2) 612

18979

- 1) Well Operator: Waco Oil and Gas Company, Inc.
- 2) Operator's Well Number: Waco 800 - Martin IA 3) Elevation: 1,095'
- 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: 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 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						3805R1811.5
Fresh Water	8-5/8"	A P I	20.4	700'	700'	C. T. S.
Coal						
Intermediate						
Production	4-1/2"	A P I	10.5#		5,900'	525 Sks.
Tubing						3805R1811.1
Liners						

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

For Division of Oil and Gas Use Only

02976  
112

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

1) Date: March 23, 1994  
2) Operator's well number  
Waco 800 - Martin 1A  
3) API Well No: 47 - 021 - 5181  
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 Geraldine Cunningham  
Address Drawer 459  
Glenville, WV 26351
- (b) Name Isaac L. Ferguson  
Address 1005 South Center St.  
Eustis, FL 32716
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_
- 6) Inspector Craig Duckworth  
Address Box 107, Davisson Route  
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  
 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)  
 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: Barry K. Lay Barry K. Lay  
Its: Vice President, Engineering  
Address P. O. Box 397  
Glenville, WV 26351  
Telephone (304) 462-5347



Subscribed and sworn before me this 23rd day of March, 1994

Betty S. Farrar Notary Public  
My commission expires Aug. 13, 2002