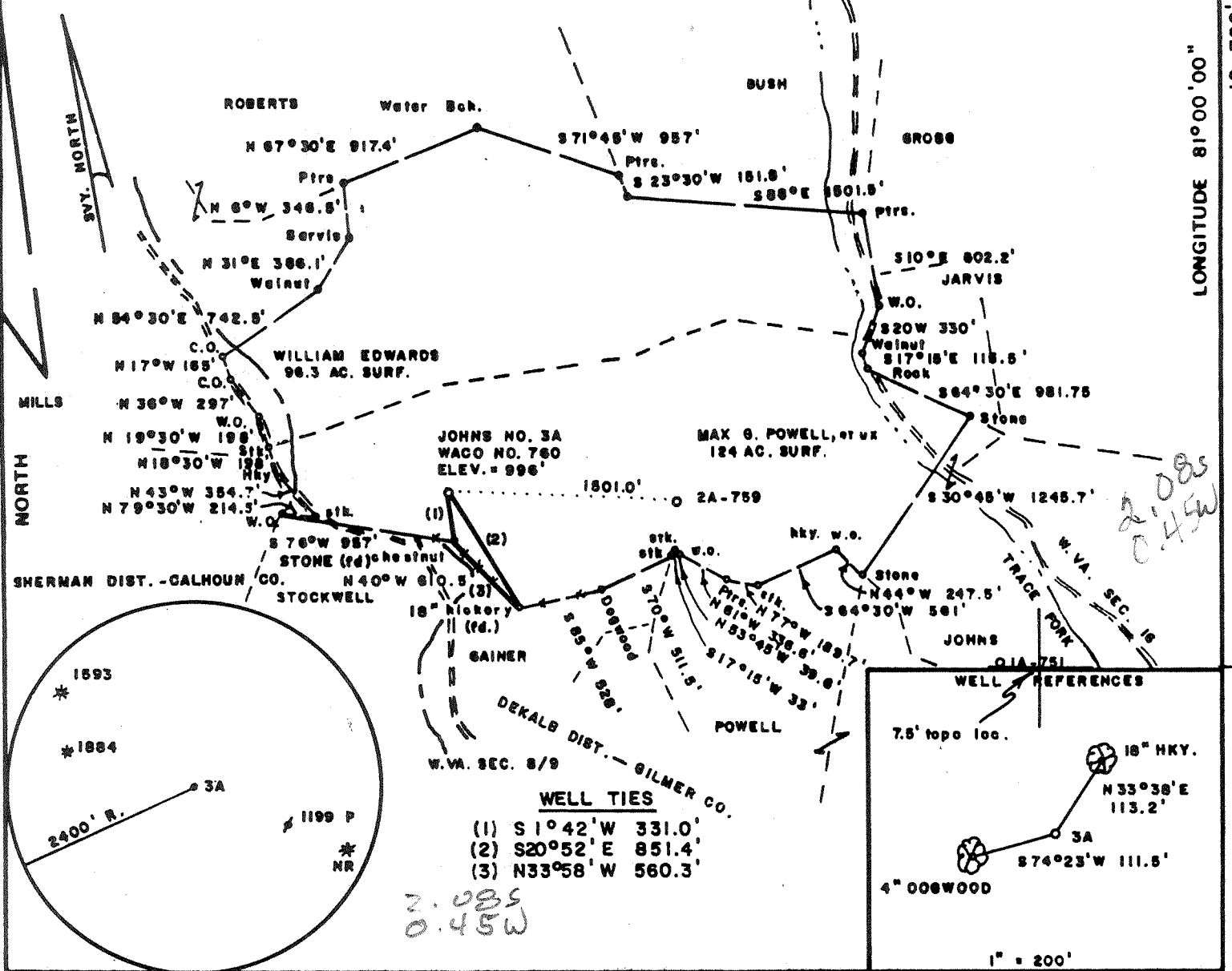


JOHNS LEASE 224 AC. of 324 AC.

LATITUDE 39°00'00"

WACO NO. 760

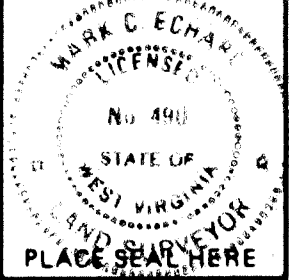
LONGITUDE 81°00'00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Inf. of Roads South Side of Lease ELEV. = 1089'

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 OCTOBER 29, 19 92
 OPERATOR'S WELL NO. JOHNS NO. 3A
 API WELL NO. WACO NO. 760
47 - 021 - 5101
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

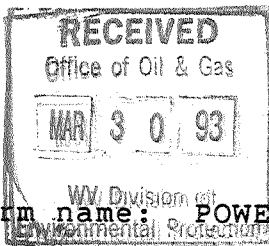
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 996' WATER SHED TRACE FORK
 DISTRICT DEKALB COUNTY GILMER
 QUADRANGLE GRANTSVILLE 7.5' Annalsburg NE

SURFACE OWNER MAX G. POWELL, et ux ACREAGE 124
 OIL & GAS ROYALTY OWNER FRED WILT. HRS., et al LEASE ACREAGE 324
 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



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

Well Operator's Report of Well Work

Farm name: POWELL, MAX G.

Operator Well No.: JOHNS #3A-W-760

LOCATION: Elevation: 996.00 Quadrangle: GRANTSVILLE

District: DEKALB County: GILMER
Latitude: 10790 Feet South of 39 Deg. 0 Min. 0 Sec.
Longitude 2300 Feet West of 81 Deg. 0 Min. 0 Sec.

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

Agent: STEPHEN E. HOLLOWAY

Inspector: CRAIG DUCKWORTH
Permit Issued: 12/08/92
Well work Commenced: 12/08/92
Well work Completed: 12/12/92
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 6259'
Fresh water depths (ft) _____
18'
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"	999	999	C.T.S.
4-1/2"		6202	685 S ks.

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) see tratment
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 1958 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 STIMULATING, 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 & GAS CO., INC.

By: Daniel R. Chapman, Geologist
Date: January 29, 1993

Reviewed TM6
Recorded _____

437 436

- 1st stage: Devonian Shale, Elk (6118-5390) 1500 gal 15% HCL, 40 ton CO₂, 745 Mcf N₂
- 2nd stage: Elk, Alexander, Benson, Riley (5166-4681) 665 gal 15% HCL, 40 ton CO₂, 858 Mcf N₂
- 3rd stage: Riely, Balltown (4601-4023) 500 gal 15% HCL, 40 ton CO₂, 893 Mcf N₂
- 4th stage: Balltown, Speechly (3959-3366) 665 gal 15% HCL, 43 ton CO₂, 1000 Mcf N₂

Sand, Shale	0	265	1/4" stream @ 18'
Sand, Shale, Red Rock	265	1021	
Sand, Shale	1021	1922	
Little Lime	1922	1940	
Blue Monday	1940	1956	
Big Lime	1956	2012	
Big Injun	2012	2098	
Sand, Shale	2098	3364	
Speechly Section	3364	3690	
Shale	3690	3742	
Balltown Section	3742	4307	
Riley Section	4307	4706	
Shale	4706	4748	
Benson	4748	4752	
Shale	4752	4968	
Alexander	4968	5024	
Shale	5024	5136	
Elk Section	5136	5398	
Shale	5398	6259	T. D.

DF } 437
DFT }

RECEIVED

WV Division of Environmental Protection

FORM WW-2B

DEC 04 92

021 5101
Issued 12/08/92

Page ___ of ___

Expires 12/08/94

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil & Gas
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Waco Oil and Gas Company, Inc. ⁹³³ 51800 (2) 379
- 2) Operator's Well Number: Waco 760 - Johns 3A 3) Elevation: 996'
- 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: 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
Conductor						<u>38CSR/A1.3</u>
Fresh Water	<u>8-5/8"</u>	<u>API</u>	<u>20.#</u>	<u>700'</u>	<u>700'</u>	<u>C. T. S.</u>
Coal						<u>38CSR/A1.2.2</u>
Intermediate						
Production	<u>4-1/2"</u>	<u>API</u>	<u>10.5#</u>		<u>5,900'</u>	<u>525 Sks.</u>
Tubing						<u>38CSR/A1.1</u>
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

Fee Division of Oil and Gas Use Only

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

2225
42

DEC 0 4 1992
Permitting
Office

1) Date: December 1, 1992
2) Operator's well number
Waco 760 - Johns 3A
3) API Well No: 47 - 021 - 5101
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Max G. Powell
Address 615 - 4th Street
St. Marys, WV 16170
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Craig Duckworth
Address Box 107, Davisson Rt.
Gassaway, WV 26624
Telephone (304) - 364-5942

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 _____

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:

- X 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: [Signature] Stephen E. Holloway
Its: Agent
Address P. O. Box 397
Glennville, WV 26351
Telephone (304) 462-5347

Subscribed and sworn before me this 1st day of December, 1992

Russell L. Tallhamer

Commissioner
Notary Public

My commission expires September 9th, 2001