

JOHNS LEASE 100 AC. of 324 AC.

LATITUDE 39°00'00"

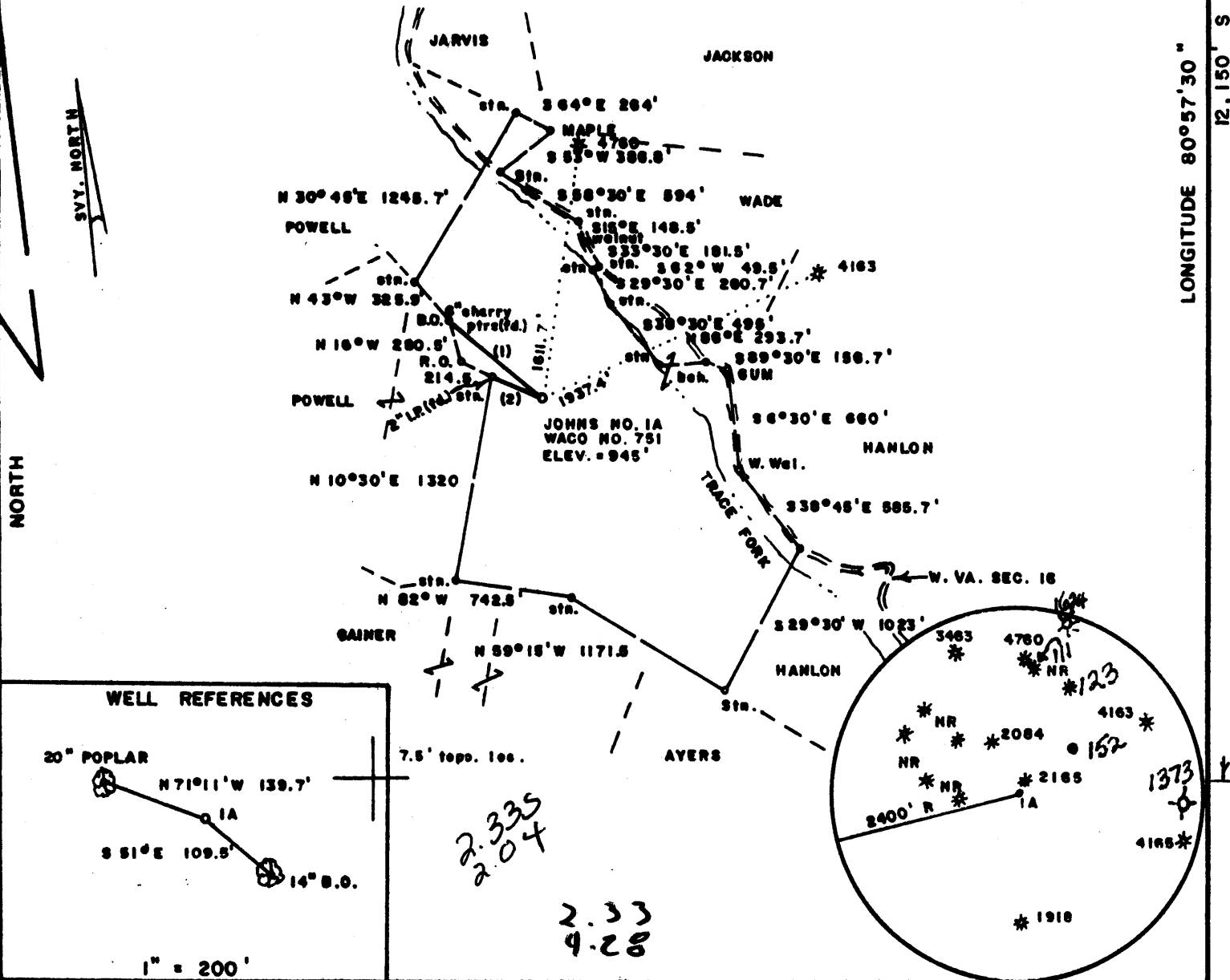
WACO NO. 751

Janice
4/15/93

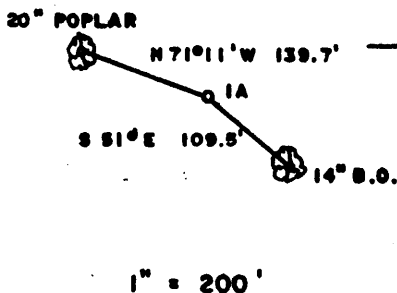
WELL TIES

DONALD D. JOHNS, et ux 100 AC. SURF.

- (1) N 41°49' W 1104.8'
- (2) N 57°17' W 355.3'



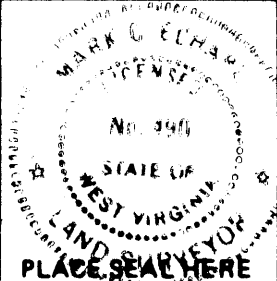
WELL REFERENCES



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. EAST SIDE
 OF LEASE ELEV. = 781'

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 9, 19 92
 OPERATOR'S WELL NO. JOHNS NO. 1A
 API WELL NO. WACO NO. 751
47 - 021 - 5117
 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 945' WATERSHED TRACE FORK
 DISTRICT DEKALB 2 COUNTY GILMER
 QUADRANGLE TANNER 7.5' Glenville NW
 SURFACE OWNER DONALD D. JOHNS, et ux ACREAGE 100 of 324
 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.VA. 26351 GLENVILLE, W.VA. 26351

RECEIVED
 Office of Oil & Gas
 AUG 17 93
 WV Division of Environmental Protection

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

Well Operator's Report of Well Work
 Farm name: JOHNS, DONALD D. ETUX Operator Well No.: JOHNS 1A-W-751

LOCATION: Elevation: 945 Quadrangle:

District: DEKALB County: GILMER
 Latitude: Feet South of Deg. Min. Sec.
 Longitude: Feet West of 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: 04/09/93
 Well work Commenced: 05/24/93
 Well work Completed: 05/29/93
 Verbal Plugging
 Permission granted on: _____
 Rotary x Cable _____ Rig
 Total Depth (feet) 6163 D.T.D.
 Fresh water depths (ft) 105'
 Salt water depths (ft) 1775'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	964'	964'	C.T.S.
4-1/2"		5,971'	590 Sks.

Is coal being mined in area (Y/N)? X
 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 1958 MCF/d Final open flow show Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1450 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 WELLSBORE.

For: Daniel R. Chapman
WACO OIL & GAS CO., INC.

By: Daniel R. Chapman, Geologist
 Date: July 14, 1993

Reviewed TM6
 Recorded _____

1st stage: Devonian Shale (⁴²⁷5906-⁴³⁷5488) 1500 gal 15% HCL, 40 ton CO₂, 622 mcf N₂
 2nd stage: Elk, Alexander (⁴²⁶5299-⁴³⁹4899) 665 gal 15% HCL, 35 ton CO₂, 739 mcf N₂
 3rd stage: Benson, Riley, Balltown (4665-4077) 665 gal 15% HCL, 40 ton CO₂, 906 mcf N₂
 4th stage: Balltown, Speechly (4007-3272) 600 gal 15% HCL, 40 ton CO₂, 1,000 mcf N₂

Sand, Shale	0	285	Damp @ 105'
Sand, Shale, Red Rock	285	685	
Sand, Shale	685	1840	1" stream @ 1775'
Little Lime	1840	1857	
Blue Monday	1857	1878	
Big Lime	1878	1928	
Big Injun	1928	2021	
Sand, Shale	2021	3269	
Speechly Section	3269	3604	
Shale	3604	3656	
Balltown Section	3656	4228	
Riley Section	4228	4606	
Shale	4606	4662	
Benson	4662	4666	
Shale	4666	4881	
Alexander	4881	4934	
Shale	4934	5041	
Elk Section	5041	5302	
Shale	5302	6163	T.D. D.T.D. - 6163' L.T.D. - 6064'

DF
 FF 437

RECEIVED
WV L...
Environmental

021-5117
Issued 4/09/93
Page of
Expires 4/09/95

FORM WW-2B

MAR 24 93

Permit Office of Oil & Gas

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

17024

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800 (2) 633
- 2) Operator's Well Number: Waco 751 - Johns 1A 3) Elevation: 945'
- 4) 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: 83' 140' 210'
- 8) Approximate salt water depths: None OK
- 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						3805/18/11.3
Fresh Water	8-5/8"	A P I	20.7	700'	700'	C. T. S.
Coal						3805/14/11.20
Intermediate						
Production	4-1/2"	A P I	10.5#		5,900'	525 Skts.
Tubing						3805/14/11.1
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

02455

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

MAR 24 92
Permitting
Office of Oil & Gas

1) Date: October 27, 1992
2) Operator's well number
Waco 751-Johns 1A
3) API Well No: 47 - 021 - 5117
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION 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>Donald D. Johns et ux</u> Address <u>8160 Little Richmond Road</u> <u>Dayton, OH 45426</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 _____ Address <u>N/A</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address <u>N/A</u></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
Glenville, WV 26351
 Telephone (304) 462-5347

Subscribed and sworn before me this 27th day of October, 1992

Timothy P. Evans Notary Public
 My commission expires August 31, 1998