

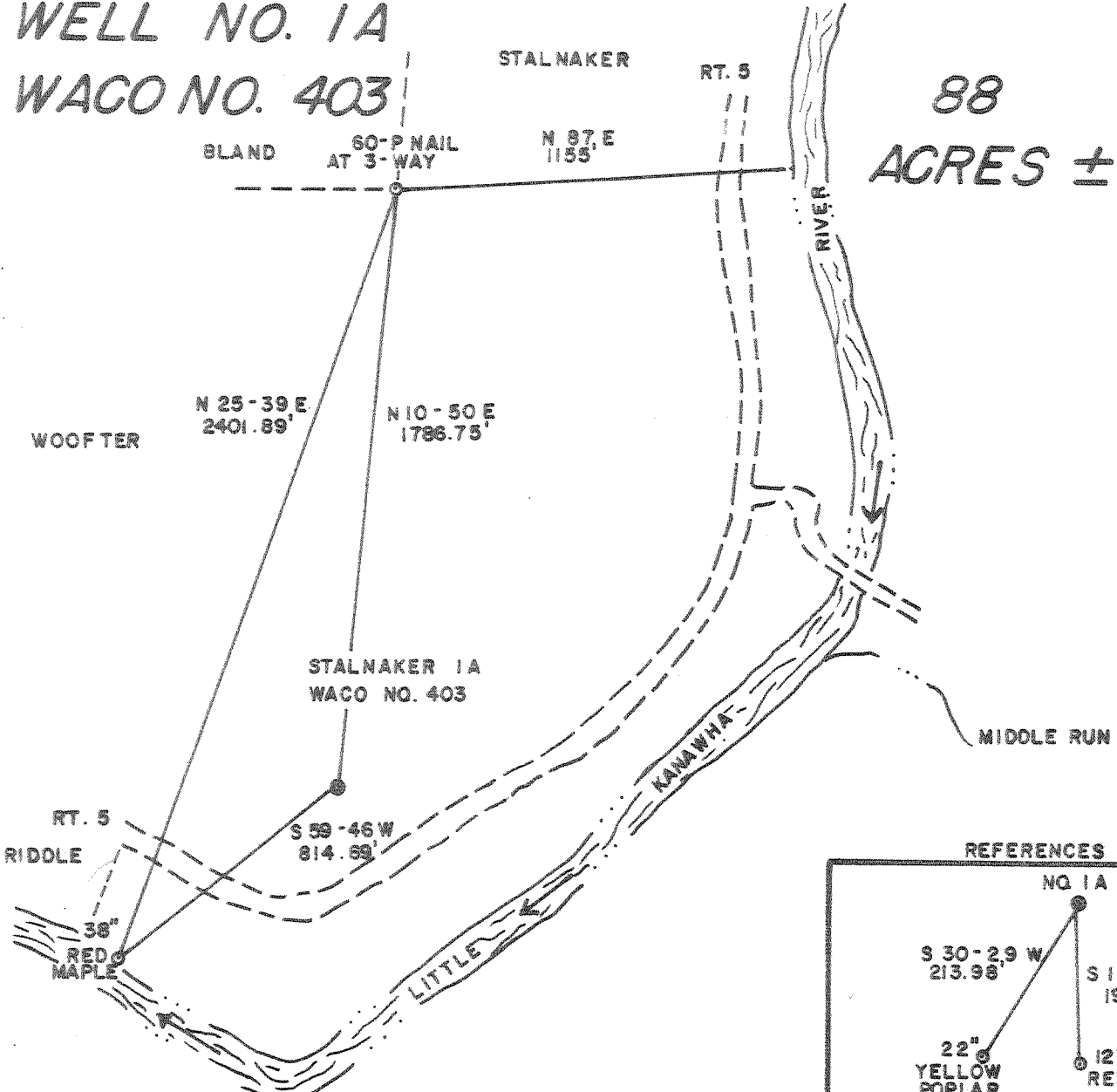
0.00S
3.77V
0.00S
1.53W

STALNAKER LEASE

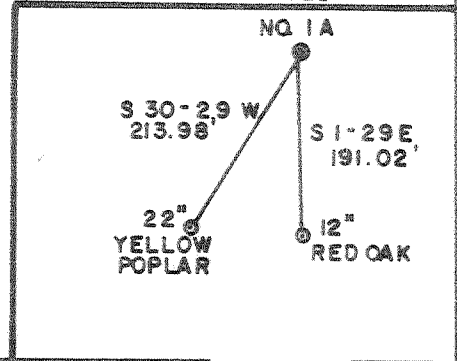
WELL NO. 1A WACO NO. 403

88 ACRES ±

55 00
30-57-30
LONGITUDE



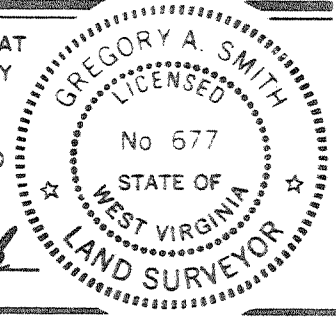
REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE JUNE 17, 1985
 OPERATORS WELL NO. STALNAKER NO. 1A
 API WELL NO. WACO NO. 403
47 - 021 - 4374
 STATE COUNTY PERMIT

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.

L.L.S. Gregory A. Smith
 677



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 18 - 26
 PROVEN SOURCE OF ELEVATION JUNCT. OF RD. ELEV. = 735 SCALE 1" = 500'



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 781' WATERSHED LITTLE KANAWHA RIVER
 DISTRICT DEKALB 2 COUNTY GILMER QUADRANGLE TANNER 7.5' 634
 SURFACE OWNER C.F. STALNAKER, JR. ACREAGE 88 050 Glenville
 OIL & GAS ROYALTY OWNER C.F. STALNAKER, JR. et al. LEASE ACREAGE 88 WC4

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF
 OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ORISKANY
 ESTIMATED DEPTH 6800'

WELL OPERATOR WACO OIL & GAS CO., INC. 933 DESIGNATED AGENT STEPHEN HOLLOWAY
 ADDRESS P.O. BOX 397, GLENVILLE, WV 26351 ADDRESS P.O. BOX 397, GLENVILLE, WV 26351

COUNTY NAME PERMIT

JUN 17 1985

Rec. 2/15/85
FERC



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 11/29/85
Operator's
Well No. Waco #403
Farm Stalnaker
API No. 47-021-4374

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production x / Underground Storage / Deep x / Shallow /)

LOCATION: Elevation: 781' Watershed Little Kanawha River
District: DeKalb County Gilmer Quadrangle Tanner 7.5

COMPANY WACO OIL & GAS CO., INC.

ADDRESS PO Box 397, Glenville, WV 26351

DESIGNATED AGENT Stephen E. Holloway

ADDRESS PO Box 397, Glenville, WV 26351

SURFACE OWNER C.F. Stalnaker, Jr.

ADDRESS Glenville, WV 26351

MINERAL RIGHTS OWNER C.F. Stalnaker, Jr.

ADDRESS Glenville, WV 26351

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandridge, WV

PERMIT ISSUED August 8, 1985

DRILLING COMMENCED November 17, 1985

DRILLING COMPLETED November 19, 1985

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		211	Surf
9 5/8			
8 5/8	1661	1661	90 sks
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 6800 feet

Depth of completed well 6400 feet Rotary x / Cable Tools

Water strata depth: Fresh 30' 48' feet; Salt 853' feet

Coal seam depths: None Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth see treatment feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 375 Mcf/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1875 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

OCT 20 1986

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

6240-6180 - Oriskany 500 Gal 15% Hcl, 12500# 20/40
534 Bbl Diesel 40 ton CO₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	5	
Sand & Shale			5	113	30', 48' Fresh H ₂ O
Sand Shale RR			113	599	
Sand, Shale			599	1591	853' Salt H ₂ O
Little Lime			1591	1622	
Blue Monday			1622	1652	
Big Lime			1652	1724	
Big Injun			1724	1775	
Sand & Shale			1775	2082	
Berea			2082	2085	
Sand & Shale			2085	2977	
Speechly Section			2977	3384	
Balltown Section			3384	3936	
Riley Section			3936	4350	
Shale			4350	4390	
Benson			4390	4400	
Shale			4400	4642	
Alexander			4642	4690	
Shale			4690	4818	
Elk Section			4818	5056	
Shale			5056	5928	
Marcellus			5928	5966	
Onondaga			5966	6008	
Huntersville Chert			6008	6178	
Oriskany SS			6178	6278	
Heldersburg LS			6278	6352	

(Attach separate sheets as necessary)

WACO OIL & GAS CO., INC.

Well Operator

By: Daniel R. Chapman, Geologist

Date: November 29, 1985

6240-6180
534 Bbl Diesel
40 ton CO₂
3502
5302
6180

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including those encountered in the drilling of a well."



1) Date: July 8, 19 85
 2) Operator's Well No. Waco 403-Stalnaker IA
 3) API Well No. 47 - 021 - 4374
 State County Permit

RECEIVED
 JUL 31 1985

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 781' Watershed: Little Kanawha River
 District: DeKalb County: Gilmer Quadrangle: Tanner 7.5'
- 6) WELL OPERATOR WACO OIL & GAS CO., INC. (933) 7) DESIGNATED AGENT Stephen E. Holloway
 Address PO Box 397 Address PO Box 397
Glenville, WV 26351 51800 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace Name L.L. Morris Well Service, Inc.
 Address Rt. 1, Box 5 Address PO Box 397
Sandridge, WV 25274 Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany (475)
- 12) Estimated depth of completed well, 8000' feet
- 13) Approximate strata depths: Fresh, 200 feet; salt, None feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water						<u>230</u>	<u>230</u>	<u>CTS by rule 15.05</u>	Sizes
Coal								<u>to surface</u>	Depths set
Intermediate	<u>8 5/8</u>	<u>ERW</u>	<u>20#</u>	<input checked="" type="checkbox"/>		<u>830</u>	<u>830</u>	<u>500 sks</u>	Perforations:
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<input checked="" type="checkbox"/>			<u>8000</u>		Top Bottom
Tubing									
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4374 Date August 8 19 85

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires August 8, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ATB</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>1394</u>
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[Signature]

ADMINISTRATOR, STATE OF OIL AND GAS
 DIRECTOR, DIVISION

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File