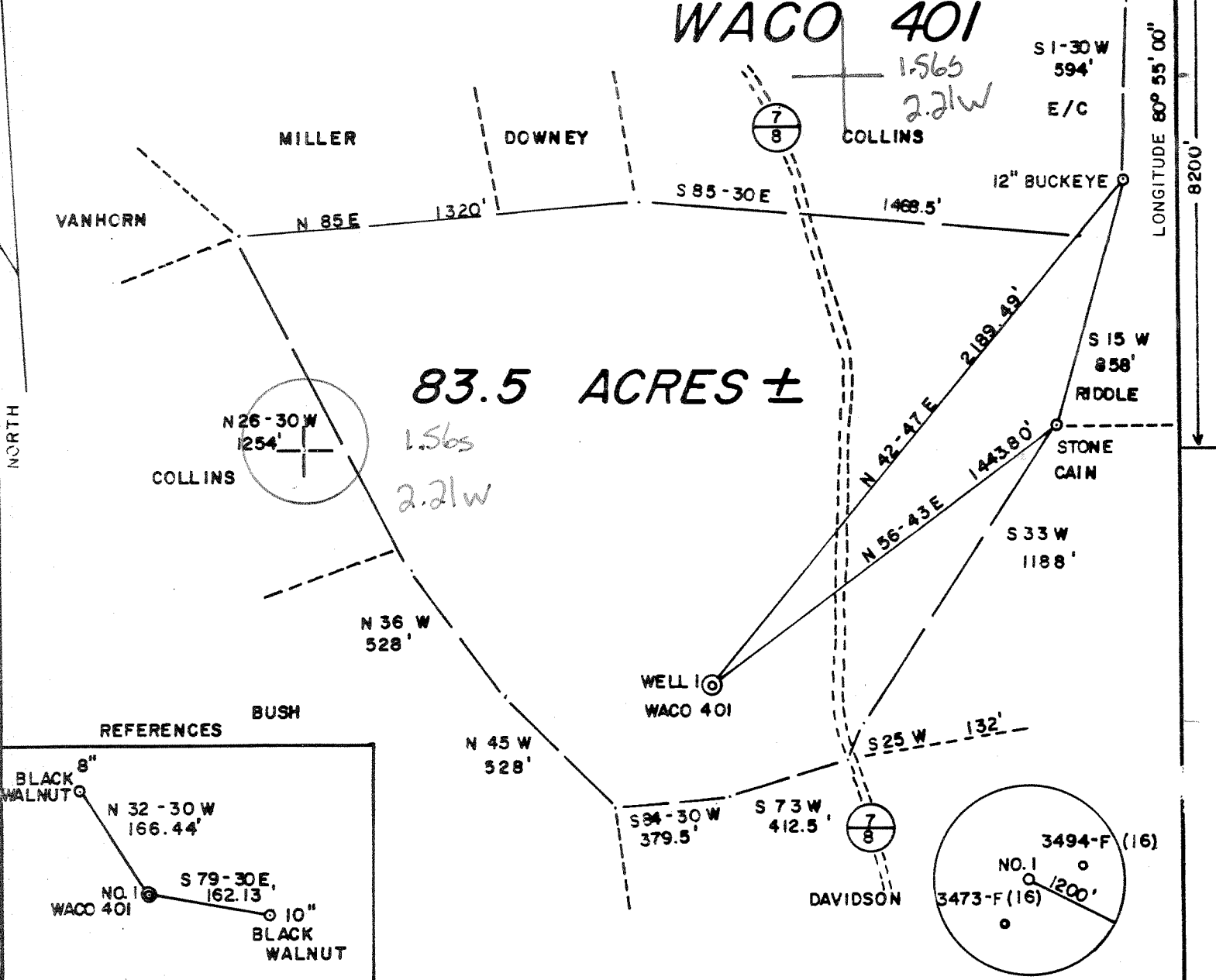


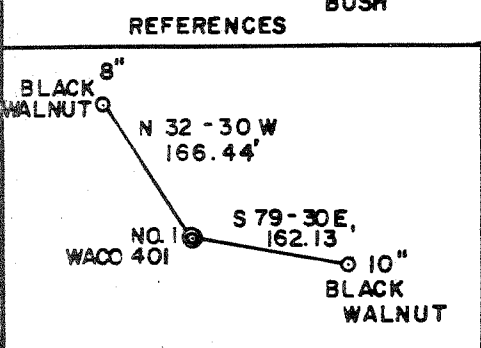
CODE CARD PLOT

YOUNG LEASE WELL NO. 1

WACO 401



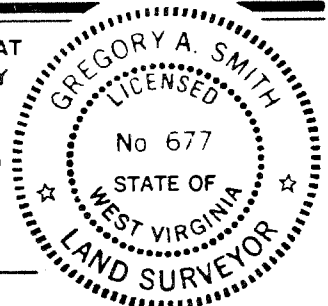
83.5 ACRES ±



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 16, 19 85
 OPERATORS WELL NO. 1 WACO 401
 API WELL NO. 47-021-4344
 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. 677 Gregory A. Smith



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 8-65
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS SCALE 1" = 500'
 ELEV. 739'



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 821 WATERSHED TANNER CREEK
 DISTRICT DEKALB 2 COUNTY GILMER QUADRANGLE TANNER 7.5' 634
 SURFACE OWNER ADRAIN COLLINS ACREAGE 83.5
 OIL & GAS ROYALTY OWNER MAYNARD F. YOUNG et al. LEASE ACREAGE 83.5
 PROPOSED WORK: DRILL X 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 ELK
 ESTIMATED DEPTH 5990'

WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT STEPHEN HOLLOWAY
 ADDRESS P. O. BOX 397, GLENVILLE, WV 26351 ADDRESS P. O. BOX 397, GLENVILLE, WV 26351
 933 021-04344

LONGITUDE 80° 55' 00" COUNTY NAME PERMIT

575



Date August 1, 1985
 Operator's Waco #401
 Well No. Waco #401
 Farm Young
 API No. 47 - 021 - 4344

IV-35
 (Rev 8-81)

State of West Virginia
 Department of Mines
 Oil and Gas Division

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 / Shallow x /)

LOCATION: Elevation: 821 Watershed Tanner Creek
 District: DeKalb County Gilmer Quadrangle Tanner

COMPANY WACO OIL & GAS CO., INC.
 ADDRESS Glenville, WV 26351
 DESIGNATED AGENT Stephen E. Holloway
 ADDRESS Glenville, WV 26351
 SURFACE OWNER ADrian Collins
 ADDRESS Tanner, WV 26174
 MINERAL RIGHTS OWNER Maynard Young
 ADDRESS Glenville, WV 26351
 OIL AND GAS INSPECTOR FOR THIS WORK
 Deo Mace ADDRESS Sandridge, WV 25274
 PERMIT ISSUED 5/17/85
 DRILLING COMMENCED 5/28/85
 DRILLING COMPLETED 6/02/85
 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"			
9 5/8			
8 5/8	819	819	to surface
7'			
5 1/2			
4 1/2		5989	700 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5990 feet
 Depth of completed well 5995 feet Rotary x / Cable Tools
 Water strata depth: Fresh 17' feet; Salt None feet
 Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
 Producing formation Shale, Elk, Alexander, Benson Pay zone depth See treatment feet
 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 1,210 Mcf/d Final open flow Show Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 1475 psig (surface measurement) after 48 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Riley - Speechly Pay zone depth See treatment 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

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

~~Genesee~~ Shale - 5900 to 5942 - 500 GAL 15% Hcl, 40 Ton CO₂, 337 MCF N₂

Lower Elk - 5537 to 5811 - 500 Gal 15% Hcl, 40 Ton CO₂, 399 MCF N₂

Upper Elk, Alexander, Benson - 4723 to 5388 - 500 Gal 15% Hcl, 40 Ton CO₂, 398 MCF N₂

3rd Riley, 2nd Riley - 4148 to 4414 - 500 Gal 15% Hcl, 40 Ton CO₂, 401 MCF N₂

Bradford - 4012 to 4029 - 500 Gal 15% Hcl, 40 Ton CO₂, 490 MCF N₂

Balltown - 3491 to 3767 - 500 Gal 15% Hcl, 20 Ton CO₂, 702 MCF N₂

Speechly - 3045 to 3077 - 500 Gal 15% Hcl, 40 Ton CO₂, 603 MCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	14	
Sand, Shale, Red Rock			14	810	Hole damp @ 17'
Sand, Shale			810	1632	
Little Lime			1633	1657	
Sand, Shale			1657	1665	
Blue Monday			1665	1680	
Big Lime			1680	1790	
Big Injun <i>CBK</i>			1790	1828	
Sand, Shale			1828	2340	Top Dev \leq 2100'
Gordon			2340	2350	
Sand, Shale			2350	3040	
Speechly Section			3040	3610	
Balltown Section			3610	4010	
Bradford			4010	4026	
Shale			4026	4130	
Riley Section			4130	4486	
Benson			4486	4496	
Shale			4496	4716	
Alexander			4716	4776	
Shale			4776	5370	
Elk			5370	5380	
Shale			5380	5995	ID <i>Brellier @ TD.</i>

(Attach separate sheets as necessary)

WACO OIL AND GAS CO., INC.
Well Operator

By: _____, Rick Zickefoose, Geologist

Date: 8/01/85

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 coal, encountered in the drilling of a well."

FORM IV-2-83
 (Operator's Use)
 7-83

RECEIVED

MAY 17 1985



1) Date: May 16, 19 85
 2) Operator's Well No. Waco #401-Young #1
 3) API Well No. 47-021-4344
 State County Permit

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

OIL & GAS DIVISION
 DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 821' Watershed: Tanner Creek
 District: DeKalb County: Gilmer Quadrangle: Tanner 7.5'
- 6) WELL OPERATOR WACO OIL & GAS CO., INC.
 Address PO Box 397
Glennville, WV 26351 *51800*
- 7) DESIGNATED AGENT Stephen E. Holloway
 Address PO Box 397
Glennville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Deo Mace
 Address Rt. 1, Box 5
Sandridge, WV 25274
- 9) DRILLING CONTRACTOR:
 Name I.L. Morris Well Service
 Address PO Box 397
Glennville, WV 26351
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Pefforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Elk
- 12) Estimated depth of completed well, 5990 feet
- 13) Approximate trata depths: Fresh, 200 feet; salt, None feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No X /
- 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		Kinds	Sizes
Conductor										
Fresh water										
Coal										
Intermediate	8 5/8	ERW	20#	X		800	800	250 sks. to surface		<i>NEAT</i>
Production	4 1/2	J-55	10.5#	X			5990	700 sks. <i>Depth required by rule 15.01</i>		
Tubing										
Liners										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4344 Date May 17 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 May 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<i>168</i>	<i>MW</i>	<i>MW</i>	<i>MW</i>	<i>1341</i>

Margaret J. Hass
 Administrator, Office of Oil and Gas

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.