

127 *Janie 11/14/89*

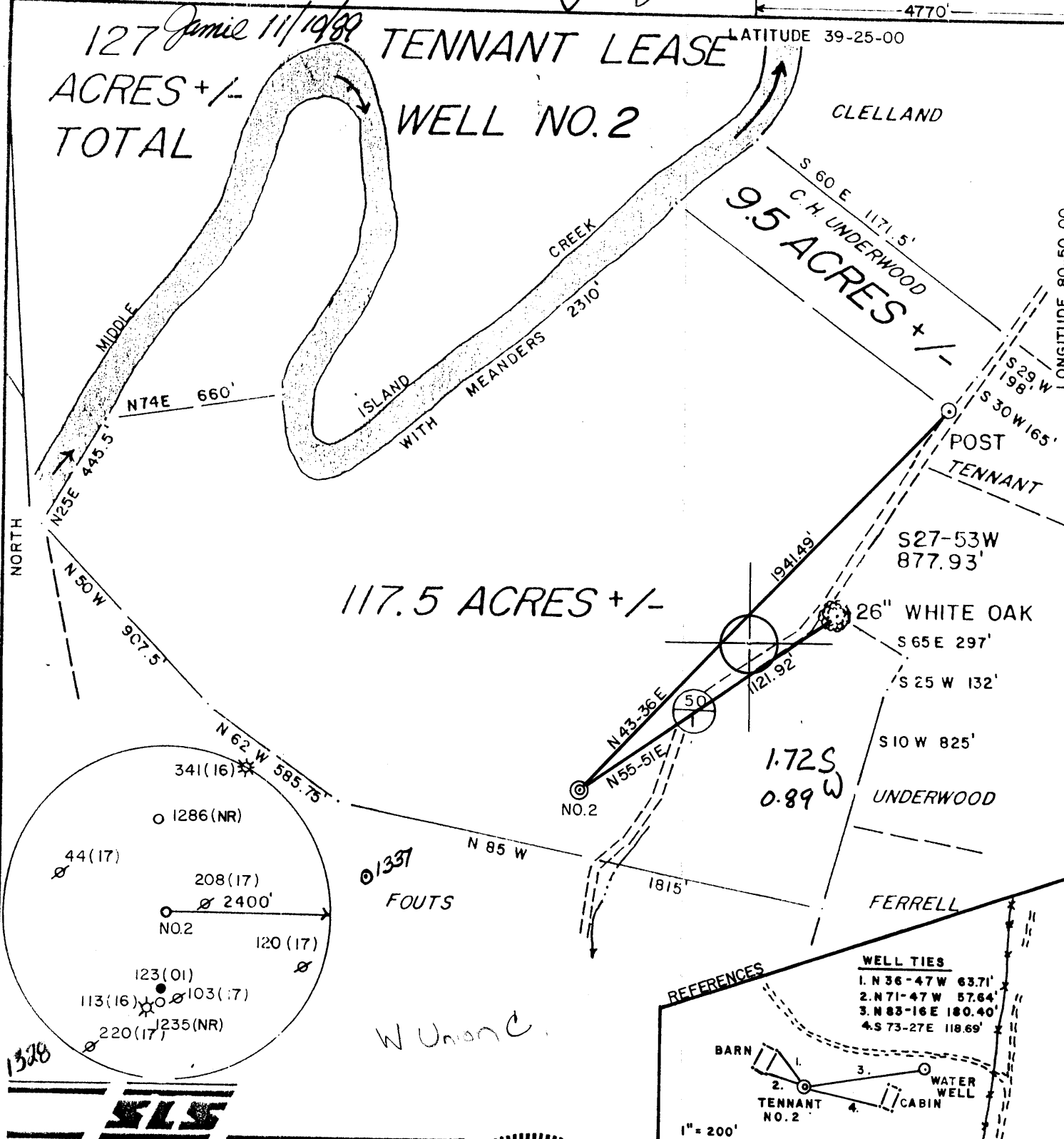
TENNANT LEASE

ACRES +/-
TOTAL

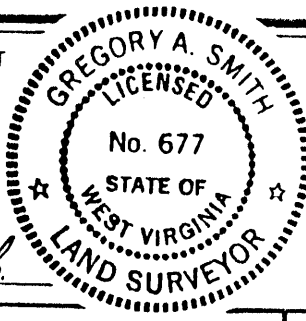
WELL NO. 2

9.5 ACRES +/-
C.H. UNDERWOOD

117.5 ACRES +/-



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 ENERGY.




L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 18, 19 89
 OPERATORS WELL NO. TENNANT NO.2
 API WELL NO. 47 - 095 - 1351
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2021 (28-48)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1" = 500' ELEV. 1122'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS ___ LIQUID WASTE IF
 INJECTION ___ DISPOSAL ___ "GAS" PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 924' WATERSHED ROSS RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER ROBERT H. TENNANT ACREAGE 117.5
 ROYALTY OWNER ROBERT H. TENNANT LEASE ACREAGE 127
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION BENSON ESTIMATED DEPTH 5100'

WELL OPERATOR ANVIL OIL COMPANY INC. DESIGNATED AGENT JUSTIN HENDERSON
 ADDRESS P.O. BOX 1230, FAIRMONT, WV 26554-1230 ADDRESS P.O. BOX 1230, FAIRMONT, WV 26554-1230
 6-6 0048 Wilbur (092) NOV 09 1989

575

APR 30 90
Permitting
Oil and Gas Section

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: TENNANT, ROBERT H. Operator Well No.: TENNANT #2

LOCATION: Elevation: 924.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 9160 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 4770 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ANVIL OIL CO., INC.
P. O. BOX 1230
FAIRMONT, WV 26554-1230

Agent: JUSTIN L. HENDERSON

Inspector: GLEN P. ROBINSON
Permit Issued: 11/09/89
Well work Commenced: 11-09-89
Well work Completed: 11-14-89
Verbal Plugging
Permission granted on: _____
Rotary XXX Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) 60

Salt water depths (ft) none

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11/34	120	120	cts
8 5/8	1819	1819	400 sks
4 1/2	5002	5002	430 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4875
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 60 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1350 psig (surface pressure) after 72 Hours

Second producing formation Riley Pay zone depth (ft) 4460
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

Riley commingled with Benson

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.

MAY 04 1990

For: ANVIL OIL CO., INC.

By: _____

Date: 11-15-89

ED

Frac with Benson with 14 holes from 4873-4883 Frac with 350 sks 20/40
300 bbls fluid Avg. rate 22.8 bpm avg psi 2727

Frac Riley with 16 holes from 4468 to 4498 Frac with 200 sks 20/40
227 bbls treated fluid Avg rate 19.7 bpm Avg psi 2905 psi

dir	0	10
sd sh	10	1710
rr	1710	1715
sd	1715	1843
lime	1843	1900
sd	1900	2025
sd sh	2025	5034
td		5034

E LOG TOPS

Big Lime	1841
Berea	2388
Benson	4873

MAY 04 1990

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

- 1) Well Operator: ANVIL OIL COMPANY INC. ⁰²⁴⁸ 2275 (1) 606
- 2) Operator's Well Number: TENNANT WELL NO. 2 3) Elevation: 924'
- 4) Well type: (a) Oil X/ or Gas X/
- (b). If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5100 feet
- 7) Approximate fresh water strata depths: 80', 471', 501'
- 8) Approximate salt water depths: N/A 1487', 1378'-1398', 1743'
- 9) Approximate coal seam depths: N/A feasible coal Benson Co 1 ft seam
C625'-626' 657'-658'
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: DRILL & STIMULATE New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4			120'	120' <u>CTS</u>	CTS
Fresh Water	8 5/8		23	1800'	1800' <u>CTS</u>	By rule 38 csr 18-11.3 <u>38CSR18-11.2</u>
Coal						
Intermediate						
Production	4 1/2		10 1/2	5100'	5100'	By rule 38 csr 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

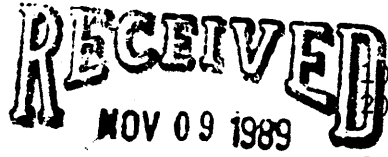
RECEIVED
NOV 09 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

2553
29
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket sure Agent
 (Type)

1486



Date: 9-28-89
Operator's well number
Tennant #2
API Well No: 47 -095 - 1351
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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:
 (a) Name <u>Robert H. Tennant</u>
 Address <u>Box 9, Ross Run Rd.</u>
 <u>Alma, WV 26320</u>
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____</p> | <p>5) (a) Coal Operator:
 Name _____
 Address _____
 (b) Coal Owner(s) with Declaration
 Name _____
 Address _____
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name _____
 Address _____</p> |
| <p>6) Inspector <u>Glen P. Robinson</u>
 Address <u>Route 1</u>
 <u>Mineral Wells, WV 2650</u>
 Telephone (304)-_____</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
___ 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 ___ 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 Anvil Oil Co., Inc.
By: Justin L. Henderson
Its: President
Address P.O. Box 1230
FAirmont, WV 26554-1230
Telephone (304) 363-1362

Subscribed and sworn before me this _____ day of _____, 19__

My commission expires _____ Notary Public