

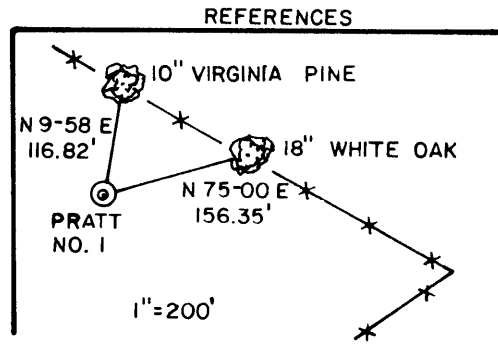
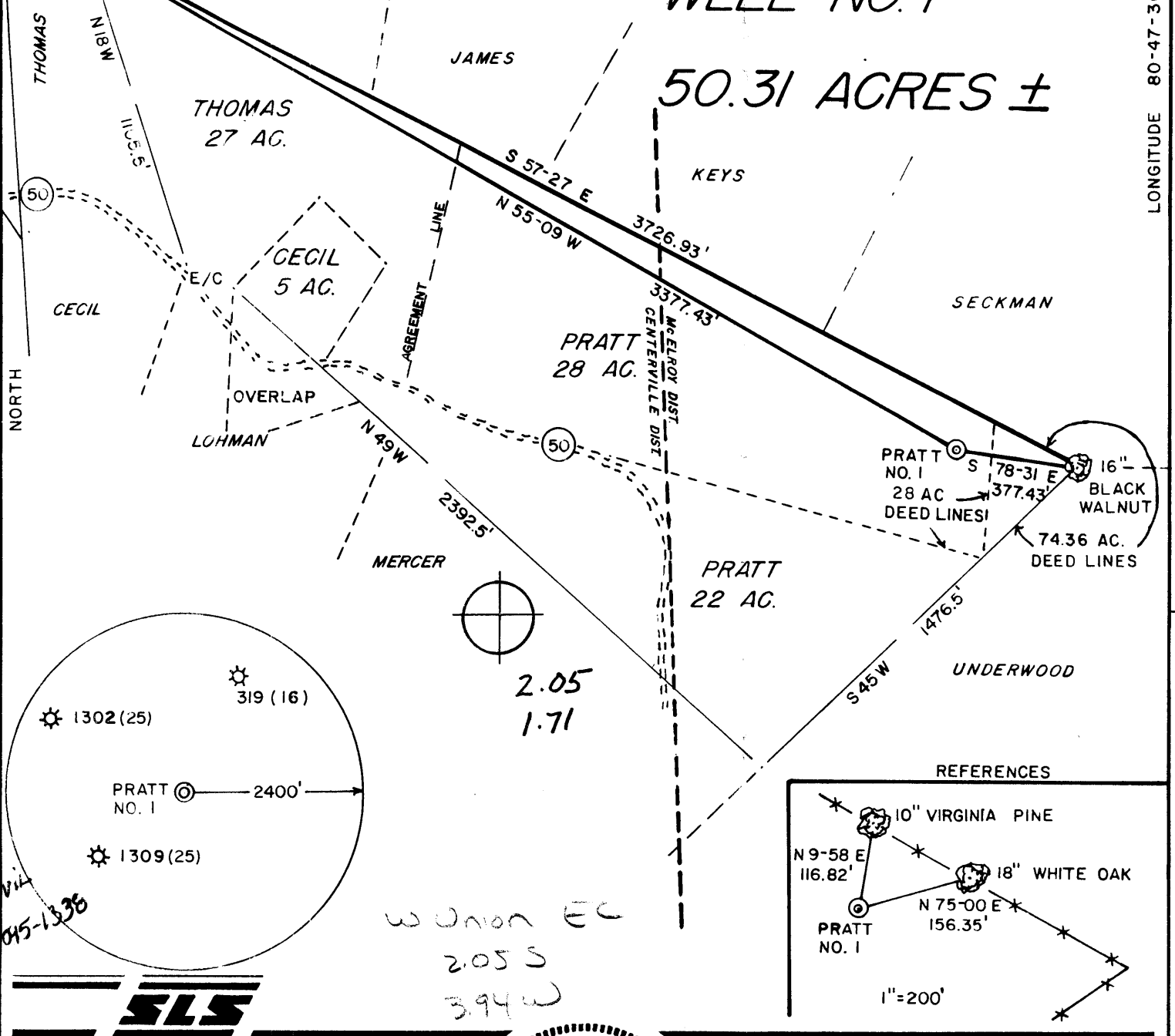
Janie 11/15/89

PRATT LEASE

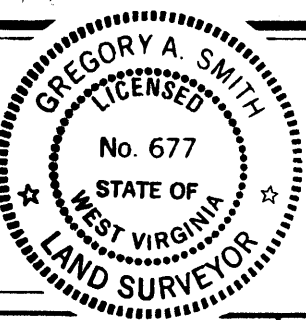
WELL NO. 1

50.31 ACRES ±

LONGITUDE 80-47-30




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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 9, 19 89
 OPERATORS WELL NO. PRATT NO. 1
 API WELL NO. 47-095-1352
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2152(28-45)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 1097' SCALE 1"=500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1096' WATERSHED JEFFERSON RUN W-Union EC
 DISTRICT McELROY 5 COUNTY TYLER QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER WILLIAM T. & ELIZABETH R. PRATT ACREAGE 50.31
 ROYALTY OWNER ICY C. SMITH, HEIRS LEASE ACREAGE 50.31 OF 74.36
 PROPOSED WORK: LEASE NO. _____
 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 BENSON
 ESTIMATED DEPTH 5100'

WELL OPERATOR ANVIL OIL CO. INC. DESIGNATED AGENT JUSTIN HENDERSON
 ADDRESS PO BOX 1230 FAIRMONT, WV. 26554-1230 ADDRESS PO BOX 1230 FAIRMONT, WV. 26554-1230

VED
Division of Energy
APR 30 90
Permitting
Oil and Gas Section



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 12/18/89
Operator's
Well No. Pratt #1
Farm
API No. 47 - 95 - 01352

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

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

LOCATION: Elevation: 1096 Watershed Jefferson Run
District: McElroy County Tyler Quadrangle Shirley

COMPANY Anvil Oil Co., Inc.
ADDRESS P.O. Box 1230, Fairmont, WV 26554
DESIGNATED AGENT Justin L. Henderson
ADDRESS P.O. Box 1230, Fairmont, WV
SURFACE OWNER William T & Elizabeth R. Pratt
ADDRESS Alma, WV
MINERAL RIGHTS OWNER Key C. Smith, Heirs
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Glenn Robinson ADDRESS
PERMIT ISSUED 11/15/89
DRILLING COMMENCED 11/26/89
DRILLING COMPLETED 12/1/89
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.			
11-3/4 18-1/2	116.60	116.60	60 sks
9 5/8			
8 5/8	1955.45	1955.45	435 sks
7			
5 1/2			
4 1/2	5139	5139	425 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well _____ feet Rotary / Cable Tools
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA
Producing formation Benson Pay zone depth 5003-5007. feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 440 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1450 psig (surface measurement) after 48 hours shut in MAY 04 1990
(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4629-2659 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.

Well treated as follows:

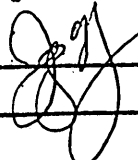
Benson perforated from 5003-5007 with 14 holes. Fracked with 350 sks sand, 300 bbls treated fluid, Aavg rate 21 bpm, Aavg psi 2698

Riley perforated from 4629-4659 with 14 holes. Fracked with 200 sks sand, 235 bbls fluid, Avg. rate 19.8 bpm, Avg psi 2664

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
shale			0	15	
shale & RR			15	70	
sand			70	95	
shale			95	600	hole wet 112
sand			600	620	hole wet 608
shale			620	1320	
sand & shale			1320	1923	
l. lime			1923	1938	
shale			1938	1968	
b. lime			1968	2035	
injune			2035	2114	
shale			2114	2346	
riley			2346	2370	
shale			2370	4600	
riley			4600	4630	
shale			4630	5050	
benson			5050	5080	
shale			5080	5170	

(Attach separate sheets as necessary)

Well Operator _____
 By:  _____
 Date: _____

MAY 0 4 1990

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."
 9843

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

- 1) Well Operator: ANVIL OIL COMPANY, INC. ⁰⁰⁴⁸ ₂₂₇₅
- 2) Operator's Well Number: PRATT WELL NO. 1 3) Elevation: 1096'
- 4) Well type: (a) Oil ___ / 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: 609' 120' 336'
- 8) Approximate salt water depths: 1833' N/A 1534'
- 9) Approximate coal seam depths: 732'-734' ^{Possible Coal Blossom} N/A
- 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	Fill-up (cu. ft.)
<u>2 1/2"</u> Conductor	11-3/4"			120'	120'	CTS.
Fresh Water	8-5/8"		23	1950'	1950'	By Rule 38 CSR 18-11.3 <u>38 CSR 18-11.2.2</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 15 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: 2500 Well Work Permit 29 Reclamation Fund 29 WPCP
29 Plat 29 WW-9 29 WW-2B 29 Bond Competitive Agent
 7843 (Type)

RECEIVED
NOV 15 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: 10-13-89
- 2) Operator's well number
Pratt #1
- 3) API Well No: 47 - 05 - 1952
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 William T. & Elizabeth Pratt
Address 1025 Malibu N.E.
Minerva, OH 44657
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
 - Name _____
Address _____
- 6) Inspector Glen P. Robinson
Address Route 1
Mineral Wells, WV 2650
Telephone (304)-_____

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 2654-1230
 Telephone (304) 363-1362

Subscribed and sworn before me this 14th day of November, 1989

James B. Longley Notary Public
My commission expires 7/1/90