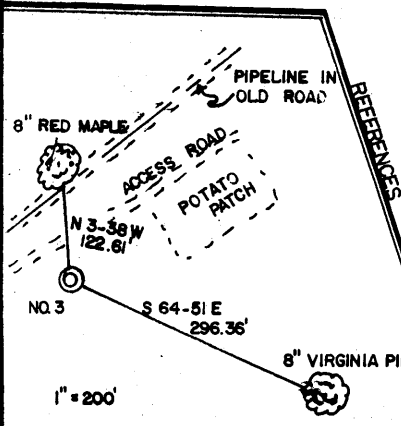
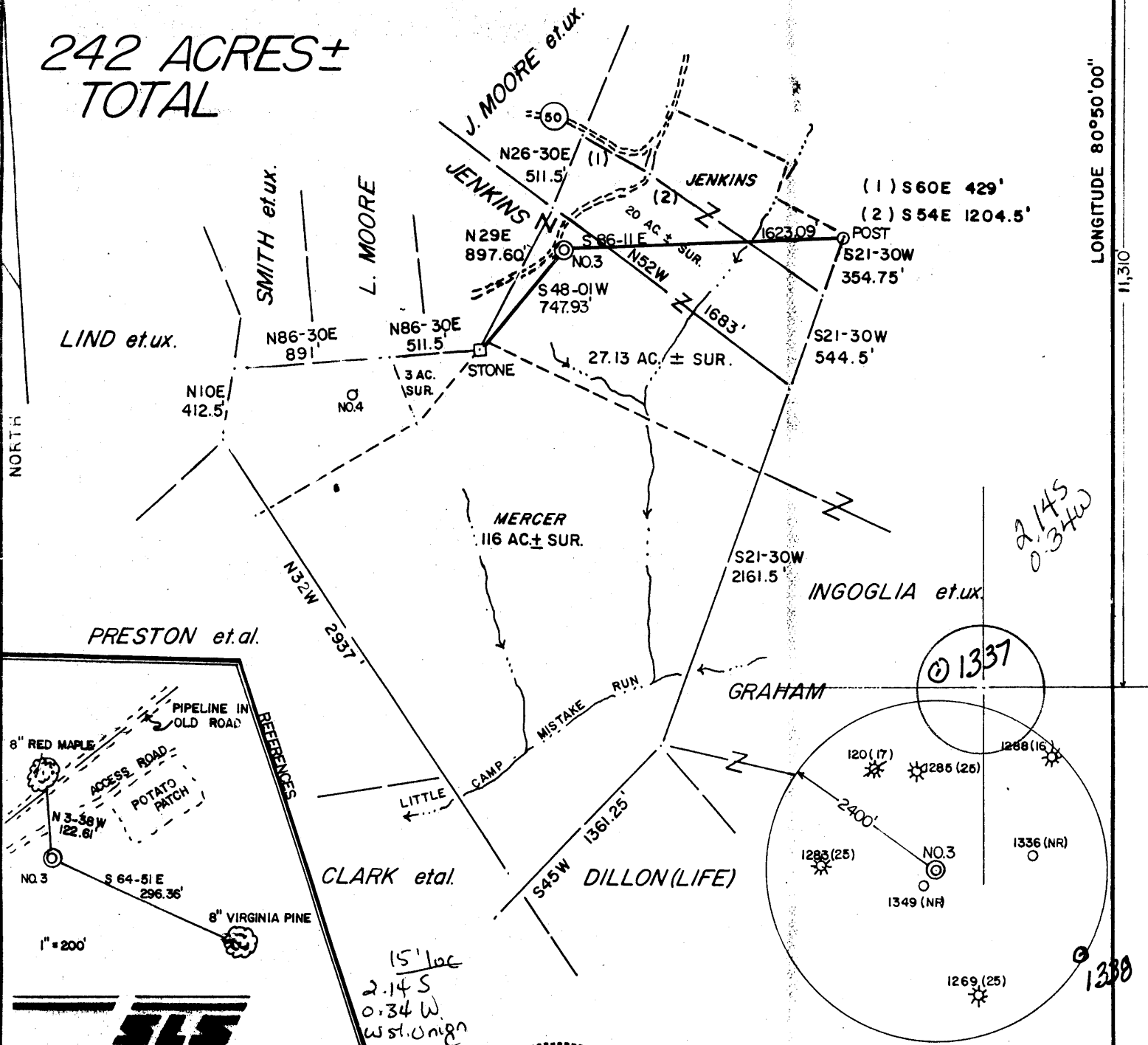


June 3/29/90

# MERCER LEASE

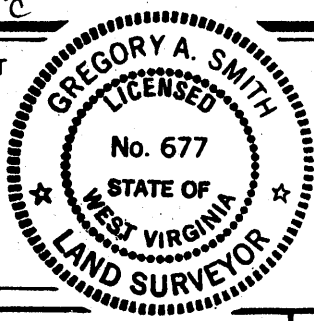
# WELL NO. 3

## 242 ACRES ± TOTAL



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. Gregory A. Smith  
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE MARCH 7, 19 90

OPERATORS' WELL NO. MERCER NO. 3

API WELL NO. 47 - 095 - 1382  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1878(24-62)(26-3,4,5)  
PROVEN SOURCE OF ELEVATION B.M. ELEV. 734' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



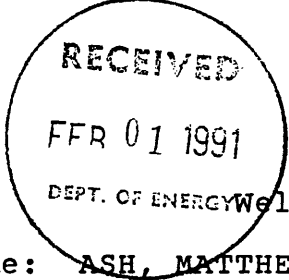
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1049' WATERSHED LITTLE CAMP MISTAKE RUN OF MIDDLE ISLAND CREEK  
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'

SURFACE OWNER LAWRENCE MERCER HRS. ACREAGE 27.13  
ROYALTY OWNER LAWRENCE MERCER HRS. ET. AL. LEASE ACREAGE 173.13 OF 242

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 P.O. BOX 1230 FAIRMONT, WV 26554-1230 ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230



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

Well Operator's Report of Well Work

Farm name: ASH, MATTHEW Operator Well No.: MERCER #3

LOCATION: Elevation: 1049.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER  
Latitude: 11310 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude: 1880 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ANVIL OIL CO., INC.  
2099 PLEASANT VALLEY ROAD  
FAIRMONT, WV 26554-1230

Agent: JUSTIN L. HENDERSON

Inspector: GLEN P. ROBINSON  
Permit Issued: 04/04/90  
Well work Commenced: 10-02-90  
Well work Completed: 10-08-90  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) 90', 160'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	129'	129'	129/77ft <sup>3</sup>
8 5/8	1902'	1902'	1902/501ft <sup>3</sup>
4 1/2		5084'	2454/548ft <sup>3</sup>

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5006-5010'  
Gas: Initial open flow 50 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 700 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1600 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation Injun Pay zone depth (ft) 2000-20010  
Gas: Initial open flow 100 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 100 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure N/A 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 WELLBORE.

For: ANVIL OIL CO., INC.  
By: [Signature]  
Date: 11/30/91

Perforated Interval 5006' - 5010' with 14 (.39) holes.  
 Sand fractured with 532 BBLS sand laden fluid -  
 45,000# sand - 74,000 SCF N<sub>2</sub>.

Mercer #3 Formations & Log Tops

Sand, redrock and shale	0	to	1710'	Hole damp @ 90'
<u>Big Lime/Injun</u>	1975'	to	2140'	1/2 stream @ 160'
<u>Sand and shale</u>	2140'	to	2490'	Gas show @ 2017'
<u>Berea</u>	2490'	to	2510'	Gas show @ 2515'
<u>Sand and shale</u>	2510'	to	2725'	Gas show @ 5013'
<u>Gordon</u>	2725'	to	2735'	
<u>Sand and shale</u>	2735'	to	4505'	
<u>Riley</u>	4505'	to	4640'	
<u>Sand and shale</u>	4640'	to	4990'	
<u>Benson</u>	4990'	to	5015'	
<u>Shale</u>	5015'	to	5136'	
TD	5136'			

10338

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

- 1) Well Operator: ANVIL OIL CO., INC. 2275 (1) 606
- 2) Operator's Well Number: MERCER WELL NO. 3 3) Elevation: 1049
- 4) Well type: (a) Oil  or Gas   
 (b) If Gas: Production  Underground Storage   
 Deep  Shallow
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 120' @ 726
- 8) Approximate salt water depths: N/A 1831' water in MAX.
- 9) Approximate coal seam depths: N/A Coal seam @ 720'-721'
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

Issued 4/4/90  
 Expires 4/4/92

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"			120'	120'	CTS.
Fresh Water	8-5/8"			1920'	1920'	By Rule 38 CSR 18-11.3
Coal						
Intermediate						
Production	4-1/2"			5100'	5100'	By Rule 38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

3443  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond  Agent  
 (Type)  
 Blanket Sure



DIVISION OF OIL & GAS 3)  
DEPARTMENT OF ENERGY

Date: 3-16-90  
Operator's well number  
MERCER #3  
API Well No: 47 - 095 - 1382  
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 Matthew Ash  
Address HCR 74, Box 73  
Alma, WV 26320  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Glen P. Robinson  
Address Route 1  
Mineral Wells, WV 26150  
Telephone (304)- \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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 & Gas Co., Inc.  
By: Justin L. Henderson  
Its: President  
Address P.O. Box 1230  
Fairmont, WV 26564  
Telephone 3631362

Subscribed and sworn before me this 16th day of March, 1990

[Signature] Notary Public  
My commission expires July 8, 1990