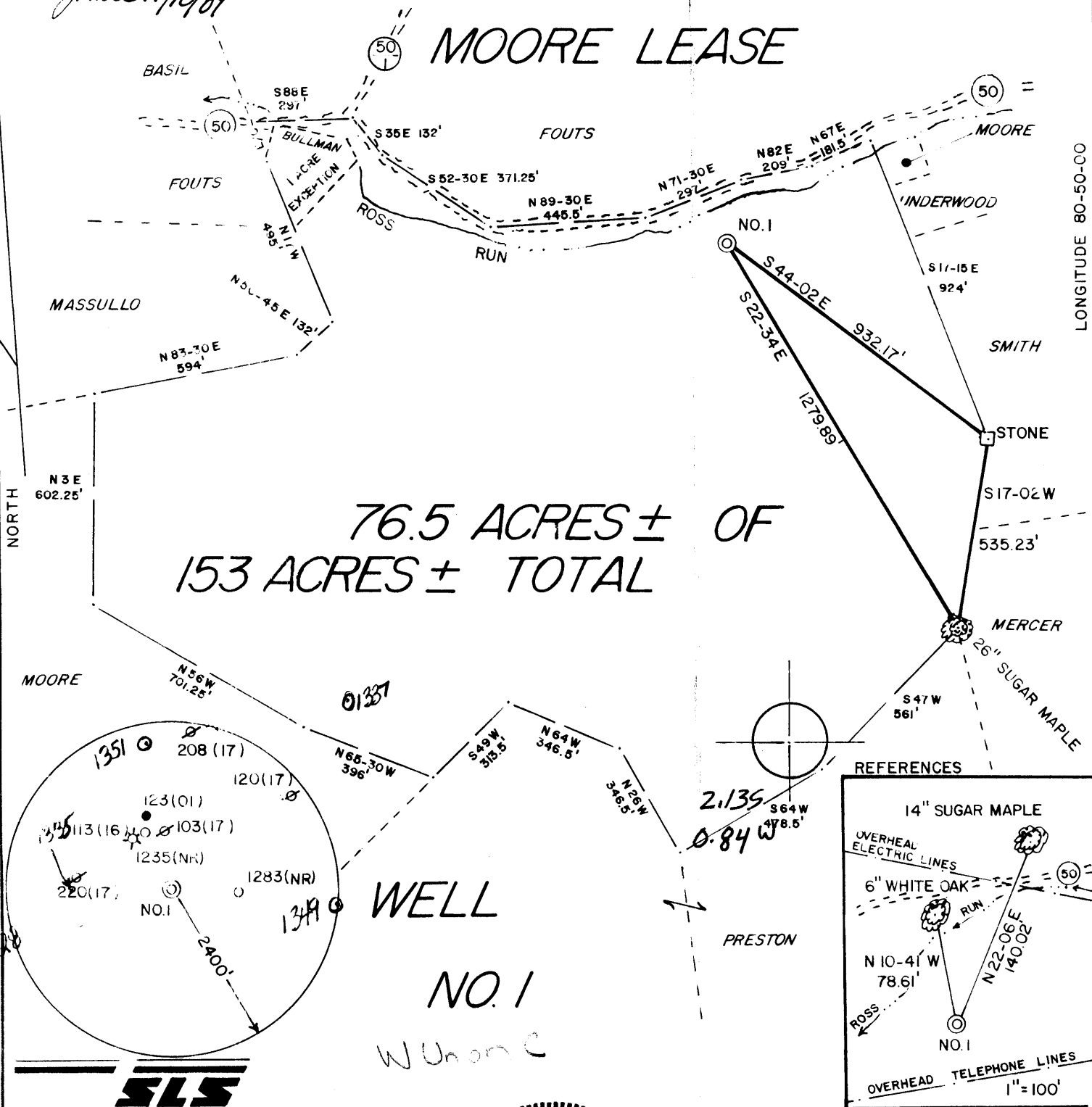


Janice 11/10/89

MOORE LEASE

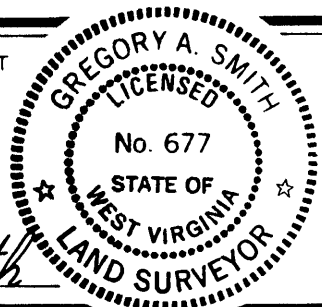


76.5 ACRES ± OF 153 ACRES ± TOTAL

WELL

NO. 1

W Union C



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. LIND MOORE NO. 1

API WELL NO. 47 - 095 - 1350
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2149 (28-48)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1122' SCALE 1" = 400'

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 785' WATERSHED ROSS RUN W. Union C
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'

SURFACE OWNER RYAN J. LIND ET. UX. ACREAGE 76.5'
ROYALTY OWNER ORA NELSON MOORE ET. AL. LEASE ACREAGE 76.5 OF 153
PROPOSED WORK: LEASE NO. 96
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 COMPANY INC. DESIGNATED AGENT JUSTIN HENDERSON
ADDRESS PO BOX 1230 FAIRMONT, WV 26554-1230 ADDRESS PO BOX 1230 FAIRMONT, WV 26554-1230

0048

6-6 Wilbur

(092)

10-09-1989

RECEIVED
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. Lind #1
Farm _____
API No. 47 - 95 - 1350

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: 785 Watershed Ross Run
District: Centerville 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 26554
INTERFACE OWNER Ryan J. Lind et ux
ADDRESS _____
GENERAL RIGHTS OWNER Ora Nelson Moore et al
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
Name Robinson ADDRESS _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11-3/4 13-10"	128.25	128.25	60 sks
9 5/8			
8 5/8	1599.	1599.	360 sks
7			
5 1/2			
4 1/2	4843.	4843.	450 sks
3			
2			
Liners used			1

PERMIT ISSUED 11/9/89
DRILLING COMMENCED 11/21/89
DRILLING COMPLETED 12/5/89

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

GEOLOGICAL TARGET FORMATION Benson Depth 4790 feet
Depth of completed well 4907 feet Rotary XXX / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

FLOW DATA
Producing formation Benson Pay zone depth 4701 feet
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 1250 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

MAY 04 1990

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

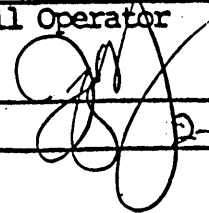
Perforated Benson with 14 holes Fracked with 50 sks 80/100
 450 sks 20/40 500 gal hcl 495 bbls treated fluid 115,000 scf N2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
dirt			0	10	
ss-sh			10	892	
coal			892	900	
sh-sd			900	1175	
coal			1175	1182	
lime			1182	1190	
sh			1190	1659	
lime			1659	1750	
sd-sh			1750	4907	
TD				4907	
E log tops					
Big Lime		1670			
Berea		2242			
Benson		4701			

(Attach separate sheets as necessary)

MAY 04 1990

Well Operator _____
 By:  _____
 Date: 2-1-90 _____

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."
 9803

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: 9-28-89
Operator's well number
Lind #1
API Well No: 47 - 095 - 1350
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 Ryan J. & Susan J. Lind
Address 6174 Fenn Rd
Medina, OH 44256
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Glen P. Robinson
Address Route 1
Mineral Wells, WV 2650
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 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 2 day of November, 19 89

[Signature]
My commission expires 7/8/90 Notary Public

18
005-1350
Issued 11/09/89
Page 1 of 1
Expired 11/09/91

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

- 1) Well Operator: ANVIL OIL COMPANY INC. ⁶⁰⁴⁸ 2275 (1) 606
- 2) Operator's Well Number: MOORE WELL NO. 1 3) Elevation: 785'
- 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: 40' 151' 432
- 8) Approximate salt water depths: N/A 1684', 1317'
- 9) Approximate coal seam depths: N/A Possible 1ft seam @ 150'-151'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: DRILL & STIMULATE
- 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'	CTS 120'	CTS
Fresh Water	8 5/8		23	1660'	CTS 1660'	By rule 38 csr 18-11.3
Coal						38 CSR 18-11.2.2
Intermediate						
Production	4 1/2		10 1/2	5100'	5100'	By rule 38 csr 18-11.1
Tubing						
Liners						

97023

PACKERS : Kind _____
Sizes _____
Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

2549

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