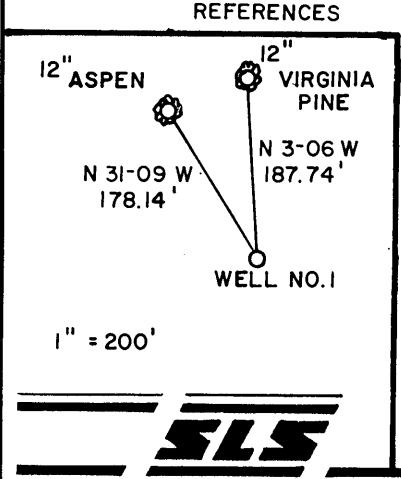
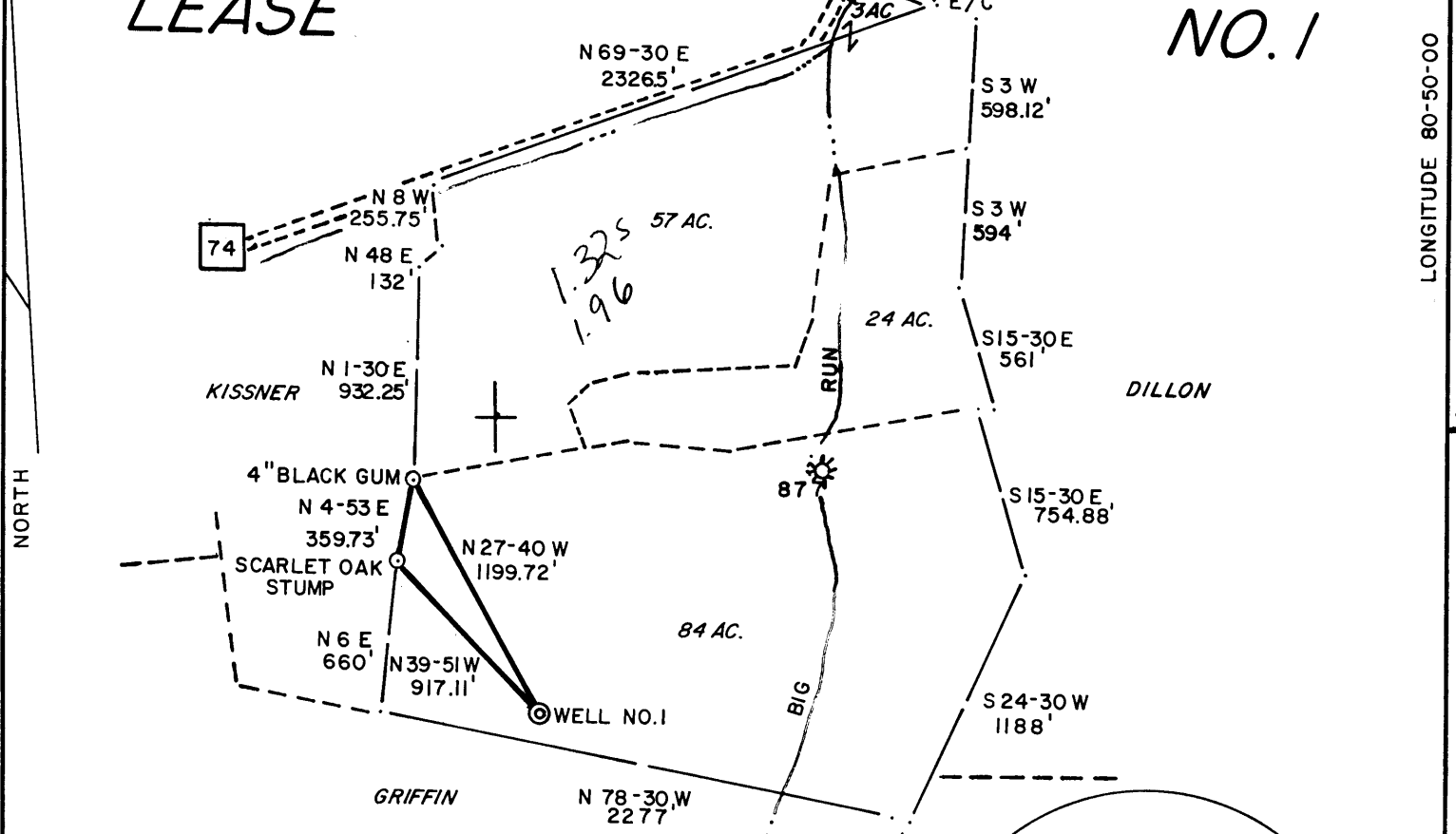


FORM WW 6 *AS 1/5/87*
Jamie 11/30/88

LATITUDE 39-22-30

MOORE LEASE

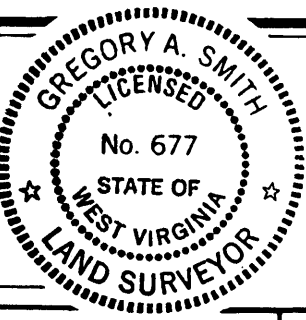
WELL NO. 1



165 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. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 22, 19 86
OPERATORS WELL NO. MOORE NO.1
API WELL NO. 47-095-1168-F
STATE COUNTY PERMIT
Fracture cancelled

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1588(20-4) 1532
PROVEN SOURCE OF ELEVATION BM. 951' 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 1056' WATERSHED BIG RUN
DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5'
SURFACE OWNER MABEL B. MOORE ACREAGE 84 OF 165
ROYALTY OWNER MABEL B. MOORE LEASE ACREAGE 165

PROPOSED WORK:
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 5300'

WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDERSON
ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

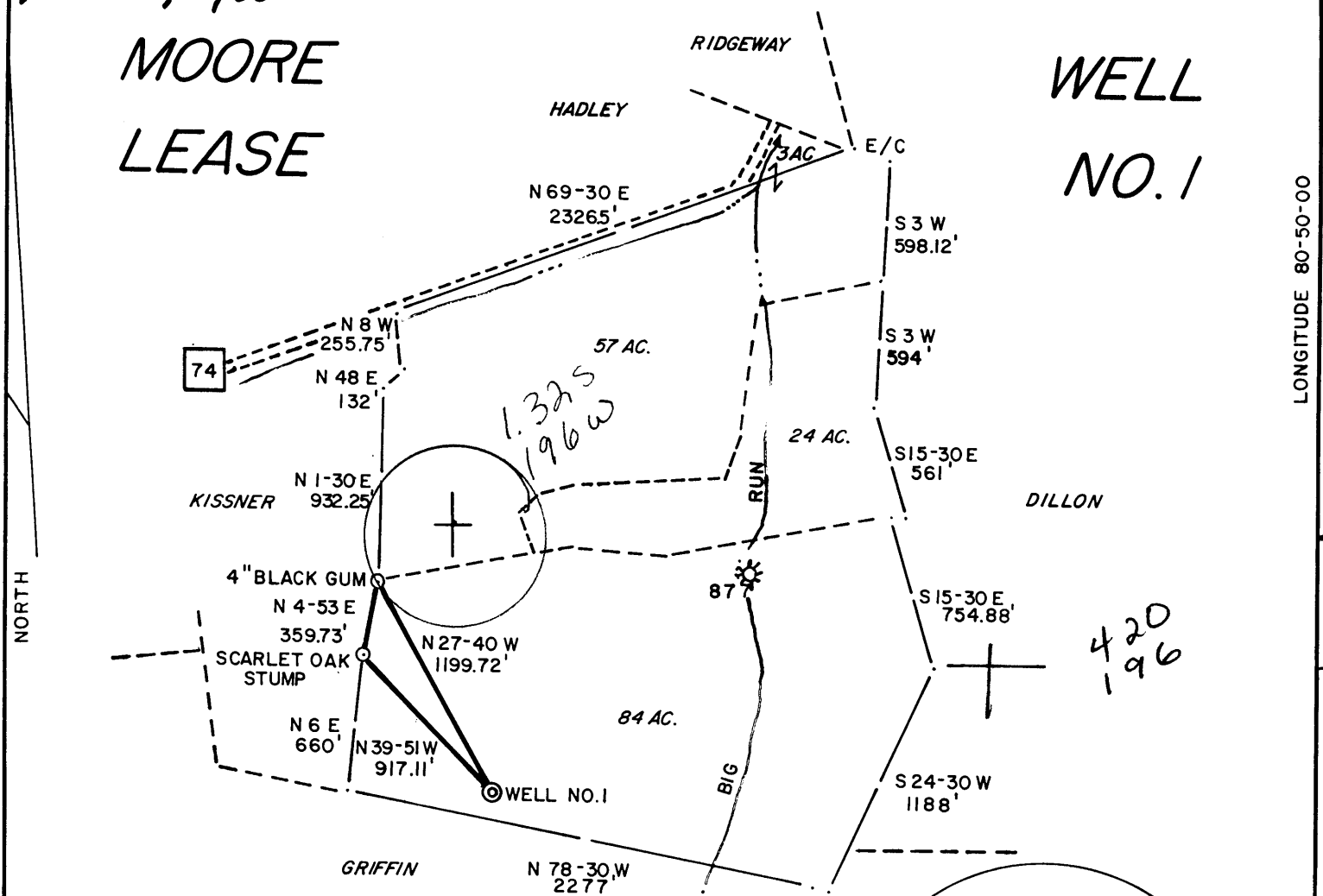
LONGITUDE 80-50-00 9980

COUNTY NAME Tyler
PERMIT 1168-F

Janie 11/30/88

MOORE LEASE

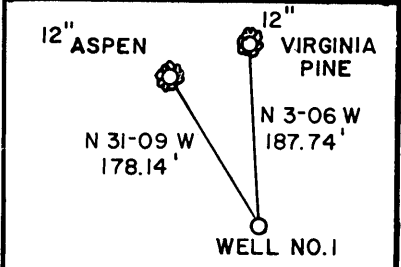
WELL NO. 1



NORTH

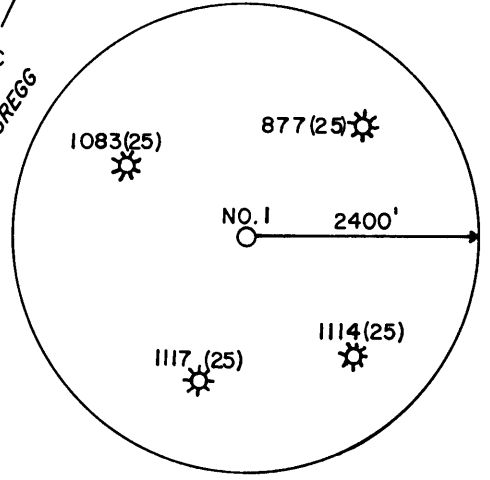
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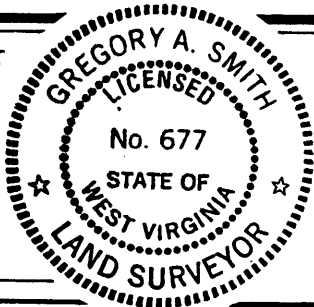
1" = 200'

165 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 DECEMBER 22, 19 86
 OPERATORS WELL NO. MOORE NO. 1
 API WELL NO. 47-095-1168-F
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1588(20-4) 1532
 PROVEN SOURCE OF ELEVATION BM. 951' 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 1056' WATERSHED BIG RUN
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671
 SURFACE OWNER MABEL B. MOORE ACREAGE 84 OF 165 133
 ROYALTY OWNER MABEL B. MOORE LEASE ACREAGE 165 5

PROPOSED WORK: 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 5300' DEC 2 1988

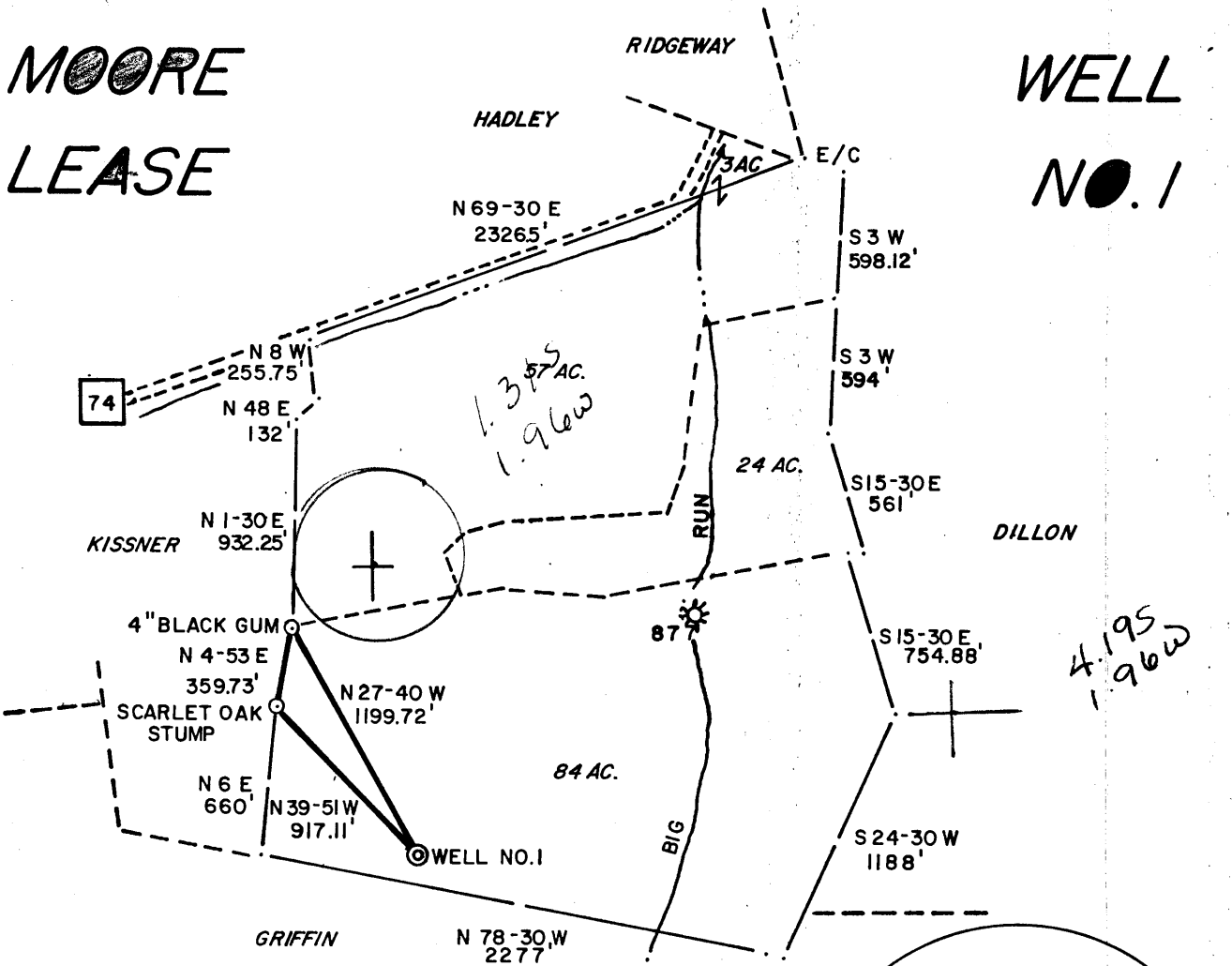
WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDERSON
 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

County Name Tyler
 Permit 1168-F

LATITUDE 39-22-30

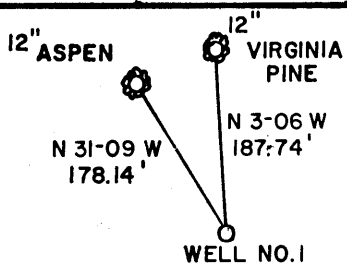
MOORE LEASE

WELL NO. 1



LONGITUDE 80-50-00 0869

REFERENCES



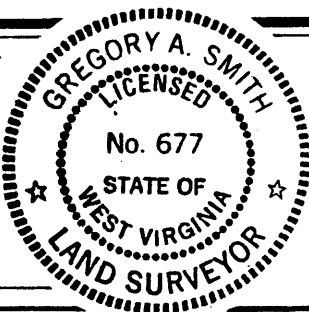
1" = 200'



165 ACRES ±

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



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

DATE DECEMBER 22, 19 86

OPERATORS WELL NO. MOORE NO. 1

API WELL NO. 47-095-1168
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1588(20-4) 1532
PROVEN SOURCE OF ELEVATION BM. 951' 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 1056' WATERSHED BIG RUN
DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671

SURFACE OWNER MABEL B. MOORE ACREAGE 84 OF 165
ROYALTY OWNER MABEL B. MOORE LEASE ACREAGE 165

PROPOSED WORK: 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 5300 **JAN 12 1987**

WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDERSON
ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

COUNTY NAME PERMIT

RECEIVED JUN 10 1987



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of West Virginia DEPARTMENT OF ENERGY Oil and Gas Division

Date Feb 5 1987 Operator's Well No. Moore #1 Farm Moore API No. 47 - 095 - 1168

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 / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1056 Watershed Big Run District: Centerville County Tyler Quadrangle West Union

COMPANY Anvil Oil CO. Inc. ADDRESS Box 2566 Clarksburg WV DESIGNATED AGENT Justin Henderson ADDRESS Box 2566 Clarksburg WV SURFACE OWNER Mabel Moore ADDRESS MINERAL RIGHTS OWNER Mabel Moore ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Bob Lowther ADDRESS General Delivery Middlebourne WV PERMIT ISSUED 1-5-87 DRILLING COMMENCED 1-13-87 DRILLING COMPLETED 1-18-87 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Benson Depth 4950 feet Depth of completed well 5082 feet Rotary X / Cable Tools Water strata depth: Fresh 1520 feet; Salt feet Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4950-58 feet Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow (1,800) Mcf/d Final open flow 0 Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1250 psig (surface measurement) after 24 hours shut in (If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4534-81 feet Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow commingled Mcf/d Oil: Final open flow 0 Bbl/d Time of open flow between initial and final tests 24 hours Static rock pressure 1250 psig (surface measurement) after 24 hours shut in

JUN 15 1987

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

Perforate Riley (4947-4953 14 holes), Perforate Benson (4534-4581 14 holes)

Frac with 920 bbls sand laden fluid 214,000 scf N₂, 1000 bbls acid isip 2450#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Soil			0	15	
ss			15	140	
rr&sh			140	200	
sh ss			200	1605	water 1520
sh			1605	1890	
lime			1890	2015	Electric Log Tops ✓
ss			2015	2130	
sh ss			2130	2280	Big Lime 1903
ss			2280	2394	Weir 2238
sh			2394	2466	Bera 2466
ss			2466	2470	Riley 4552
sh ss			2470	TD	Benson 4948
TD				5083	

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JUN 10 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Anvil Oil Co. Inc.
Well Operator

By: Justin Henderson

Date: Feb. 5, 1987

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 ⁹⁴⁹⁹ encountered in the drilling of a well."

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, 670*
- 2) Operator's Well Number: 47-095-1168 *MOORE #1* 3) Elevation: 1056
- 4) Well type: (a) Oil ___ / or Gas XXX
(b) If Gas: Production XXX Underground Storage ___ /
Deep ___ / Shallow ___ /
- 5) Proposed Target Formation(s): Riley
- 6) Proposed Total Depth: 4600 feet
- 7) Approximate fresh water strata depths: cased off
- 8) Approximate salt water depths: cased off
- 9) Approximate coal seam depths: none
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XXX /
- 11) Proposed Well Work: Stimulate Riley zone
- 12) *Free New Formation*

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	see original completion form					
Fresh Water	<i>8 5/8</i>				<i>1289'</i>	<i>315 SKS</i>
Coal						
Intermediate						
Production	<i>4 1/2</i>				<i>5013'</i>	<i>190 SKS</i>
Tubing						
Liners						

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NOV 23 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

2430
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond *50 Blackbet* Agent
 (Type)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1)
2)
3)

Date: August 12, 1988
Operator's well number
Moore #1
API Well No: 47 - 095 - 1168-FRAC
State - County - Permit

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:</p> <p>(a) Name <u>Mabel Moore</u>
Address <u>Rt.2 Box 172</u>
<u>Pennsboro WV 26415</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector _____
Address _____
Telephone (304)- _____</p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

XXX 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: _____
Its: President
Address P.O. Box 1230 Fairmont WV 26554
Telephone 304-363-1362

Subscribed and sworn before me this 12 day of August, 1988

My commission expires 7/8/90 Notary Public

