

Janie 11/1/89

TENNANT

LATITUDE 39-25-00

SMITH LEASE

FERRELL

NADE

825'

NO. 1

S 80-26 E 437.90'

S 68-32 E 692.03'

FISHER & RUDY DEED TO DIST

1089'

STONE

THOMAS

S 49-37 E 278.57'

32" SUGAR MAPLE

LONGITUDE 80-50-08

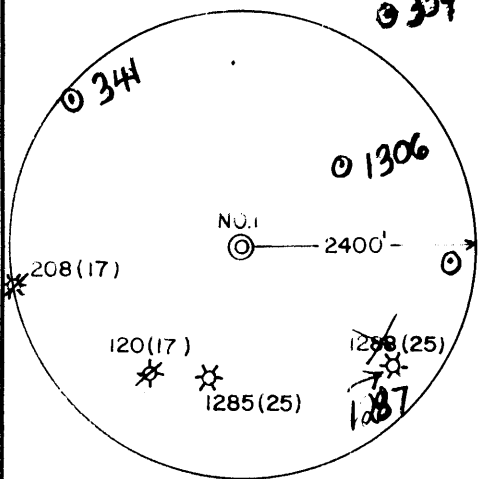
NORTH

DRAIN OF ROSS RUN

25 ACRES ±

FERRELL

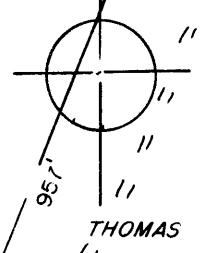
N 53 W



WELL

NO. 1

W. Union C
1.61 S
0.33 W



REFERENCES

10" MOCKERNUT HICKORY

ROAD

E/C

NO. 1

N 44-42 E 219.94'

S 62-52 E 205.07'

1" = 200'

12" POPLAR



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 SEPTEMBER 11, 19 89

OPERATORS WELL NO. SMITH NO. 1

API WELL NO. 47 - 095 - 1337
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2151 (28-44)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1122' SCALE 1" = 200'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



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

LOCATION: ELEVATION 1021' WATERSHED ROSS RUN

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'

SURFACE OWNER JACK D. SMITH ACREAGE 25

ROYALTY OWNER JACK D. SMITH LEASE ACREAGE 25

PROPOSED WORK: LEASE NO. 65

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 CORPORATION 048 DESIGNATED AGENT JUSTIN HENDERSON
ADDRESS PO BOX 1230 FAIRMONT, WV. 26554-1230 ADDRESS PO BOX 1230 FAIRMONT, WV. 26554-1230

COUNTY NAME PERMIT

575



WR-35

Date 12-14-90
Operator's Jack Smith #1
Well No. Jack Smith #1
Farm _____
API No. 47 - 95 - 01337

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

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 X / Underground Storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 1021 Watershed Ross Run
District: Centerville County Tyler Quadrangle Shirley

COMPANY Anvil Oil & Gas Company
ADDRESS P.O. Box 1230, Fairmont, WV 26555-1230
DESIGNATED AGENT _____
ADDRESS _____
SURFACE OWNER Jack D. Smith
ADDRESS Rt. 1, Box 143, Mineral City, OH 44656
MINERAL RIGHTS OWNER _____
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. 2, Box 135, Salem, WV
PERMIT ISSUED 10-27-89
DRILLING COMMENCED 03-27-90
DRILLING COMPLETED 04-02-90
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4	131.40	131.40	131' / 74ft. ³
8 5/8	1929.20	1929.20	1929.20' / 507ft. ³
8 5/8			
7			
5 1/2			
4 1/2		5075	2905' / 581ft ³
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 5100 feet
Depth of completed well _____ feet Rotary X / Cable Tools _____
Water strata depth: Fresh 20', 575feet; Salt none feet
Coal seam depths: None Is coal being mined in the area? N

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4999-5003 feet
Gas: Initial open flow 20 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 650 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1610 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

(Continue on reverse side)

DEC 21 1990

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

Perforated Interval - 4999 - 5003 w/14 Hole
 Fractured with 500 gal. 15% HCL acid and
 505 bbls of sand laden fluid. Sand - 45,000#
 and N₂ - 110,000 SCF.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all and salt water, coal, oil
Sand and shale			0	300'	
Redrock and shale			300'	750'	
Sand and shale			750'	1880'	
Little Lime			1880'	1905'	
Big Lime/Injun			1905'	2130'	
Sand and shale			2130'	2390'	
Berea			2390'	2450'	
Sand and shale			2450'	4540'	
Riley			4540'	4580'	
Sand and shale			4580'	4990'	
Benson			4990'	5010'	
Sand and shale			5010'	5104'	
Total Depth			5104'		

(Attach separate sheets as necessary)

Anvil Oil & Gas Co., Inc.
 Well Operator

By: Michael W. Agent

Date: 12-14-90

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
 all, encountered in the drilling of a well."

RECEIVED
OCT 27 1989

095-1337

Issued 10/31/89 Expires Page ___ of 10/31/91

FORM WW-2B

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

- 1) Well Operator: ANVIL OIL COMPANY INC. ⁰⁰⁴⁸ 2275 (1) 606
- 2) Operator's Well Number: SMITH WELL NO. 1 3) Elevation: 1021'
- 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: 125' 450'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A possible coal blossom @ 692'-693'
- 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	
<u>SLT 9/29/89</u> Conductor	<u>11 3/4</u>			<u>120'</u>	<u>120'</u>	<u>CTS</u>
Fresh Water	<u>8 5/8</u>		<u>23</u>	<u>1890'</u>	<u>1890'</u>	<u>By rule 38 csr 18-11.3</u>
Coal						<u>By rule 38 csr 18-11.3</u>
Intermediate						
Production	<u>4 1/2</u>		<u>10 1/2</u>	<u>5100'</u>	<u>5100'</u>	<u>By rule 38 csr 18-11.1</u>
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

2544
271
27

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 450 Surety Bond Agent
(Type)

RECEIVED
OCT 27 1989

- 1) Date: 9-28-89
- 2) Operator's well number
J. Smith #1
- 3) API Well No: 47 - 095 - 1337
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:</p> <p>(a) Name <u>Jack D. Smith</u>
Address <u>Rt. 1, Box 143</u>
<u>Mineral City, OH 44656</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>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Glen P. Robinson</u>
Address <u>Route 1</u>
<u>Mineral Wells, WV 26150</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 1280
Fairmont, WV 26554-1230
 Telephone (304) 363-1362

Subscribed and sworn before me this 26th day of October, 1989

Justin L. Henderson Notary Public
 My commission expires 7/8/90