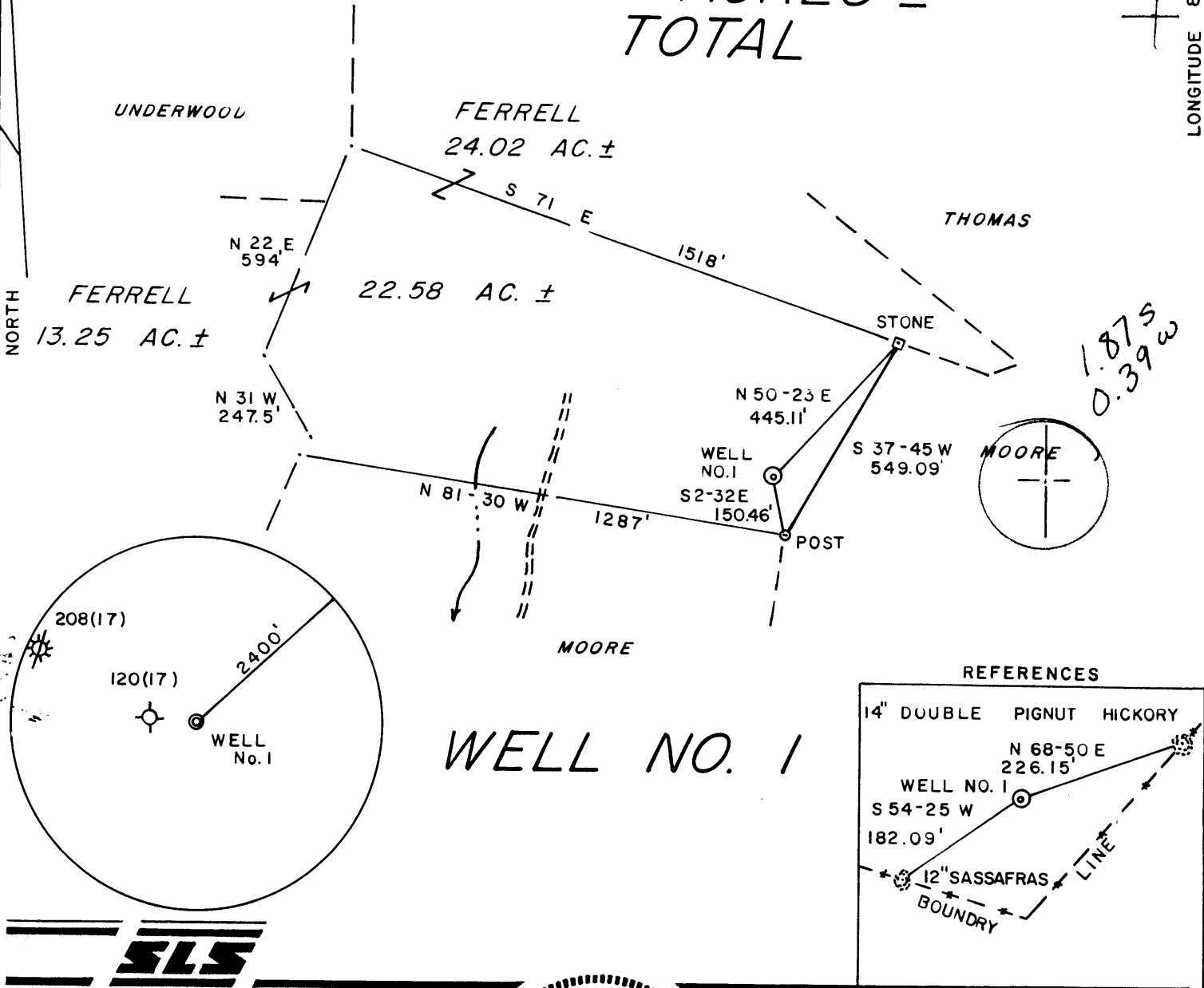


Jamie 2/27/89
FERRELL LEASE

**63 ACRES ±
TOTAL**

00-05-80-50-00
LONGITUDE



WELL NO. 1



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 FEB. 20, 19 89

OPERATORS WELL NO. FERRELL No. 1

API WELL NO. 47-095-1285
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1983 (26-56)

PROVEN SOURCE OF ELEVATION JUCT. ROADS SCALE 1" = 400' ELEV. 1097'

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 1032' WATERSHED ROSS RUN West Union C

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'607

SURFACE OWNER JAMES C. FERRELL ACREAGE 22.58 of 63 **133**

ROYALTY OWNER JAMES C. FERRELL et. al. LEASE ACREAGE 63 **S**

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 5150'

WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDE **MAR 03 1989**

ADDRESS P.O. BOX 1230 ADDRESS P.O. BOX 1230

FAIRMONT, WV 26554 48 FAIRMONT, WV 26554

6-6 Wilbur

(092)

COUNTY NAME PERMIT

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

JAN 24 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: FERRELL, JAMES C. ETUX. Operator Well No.: FERRELL 1

LOCATION: Elevation: 1032.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 9910 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude: 2130 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ANVIL OIL CO., INC.
P. O. BOX 1230
FAIRMONT, WV 26554-1230

Agent: JUSTIN L. HENDERSON

Inspector: GLEN P. ROBINSON
Permit Issued: 02/27/89
Well work Commenced: 3-12-89
Well work Completed: 3-18-89
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) 50 223 690

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	125.10	125.10	cts
8-5/8	1883.60	1883.60	cts
4 1/2	5079	5079	240 sb

OPEN FLOW DATA


Producing formation Benson Pay zone depth (ft) 4886
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/
Final open flow 460 MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure 1650 psig (surface pressure) after _____ Hour

Second producing formation Riley Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
Final open flow _____ MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure _____ psig (surface pressure) after _____ Hour

commingled with above

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: 
Date: _____

FEB 02 1990

Benson Perforated from 4884 to 4888 with 14 holes .39

Frac with 50 sks 80/100 350 sks 20/40

95,000 scf N2, 500 gallons hcl 400 bbls treated fluid

8346

sd/sh	0-----65	wet 50
red rock	65----72	
sh	72----80	
red rock	80----118	
sd	118---130	
red rock	130---202	
sh/rr	202---223	wet 223
sd	223---280	wet 232
sd/rr	280---295	
sd/sh	295---355	
sh/rr	355---690	wet 690
sd	690---710	
sd/sh	710---793	
rr	793---820	
rr/sh	820---1015	
sd	1015--1030	
sh	1030--1070	
sd/sh	1070--1105	
sh/rr	1105--1200	
sd/sh	1200--1360	
sd	1360--1370	
sd/sh	1370--1390	
sd/sh	1390--1430	
sd	1430--1475	
sd/sh	1475--1874	
B. Lime	1874-1972	

Injun	1972--2005
sd/sh	2005--2030
sd	2030--2057
sd/sh	2057--2075
sd	2075--2110
sd/sh	2110--4550
sd/sh	4550--4570
sd/sh	4570--4580
sd/sh	4580--4600
sd/sh	4600--4975
sd/sh	4975--4985
sd/sh	4985--5000
sd/sh	5000--5100

Electric Log Tops	
Big Lime	1902
Berea	2484
Benson	4884

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 JAN 24 1990
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

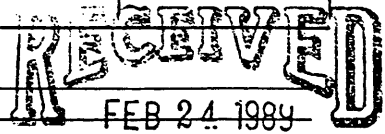
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Anvil Oil Co. Inc. *2275, 1, 606*
- 2) Operator's Well Number: Ferrell No. 1 3) Elevation: 1032'
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 5150' feet
- 7) Approximate fresh water strata depths: 115', 225'
- 8) Approximate salt water depths: N/A *1595' - 1595'*
- 9) Approximate coal seam depths: N/A *possibly coal at 600', 703'*
- 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.)
<i>HRP 2/21/89</i> Conductor	11 3/4			120'	120'	cts
Fresh Water	8 5/8		23	1905'	1905'	By Rule 38 CSR 13-11.3 <i>38CSR13-11.2.2</i>
Coal						
Intermediate						
Production	4 1/2		10.5	5150	5150'	By Rule 38 CSR 13-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____



For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: 4 Well Work Permit Plat Reclamation Fund Blanket 30 WPCP
 Agent

Anvil Oil 2/21/89
4

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FEB 24 1989

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: 2-23-89
2) Operator's well number
Ferrell #1
3) API Well No: 47 - 095 - 1285
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 James C. Ferrell & LaJetta
Address 7785 National Rd. S.W.
Pataskala, OH 43062
(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
X 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 23 day of February, 1989

[Signature]
My commission expires 9-24-98 Notary Public