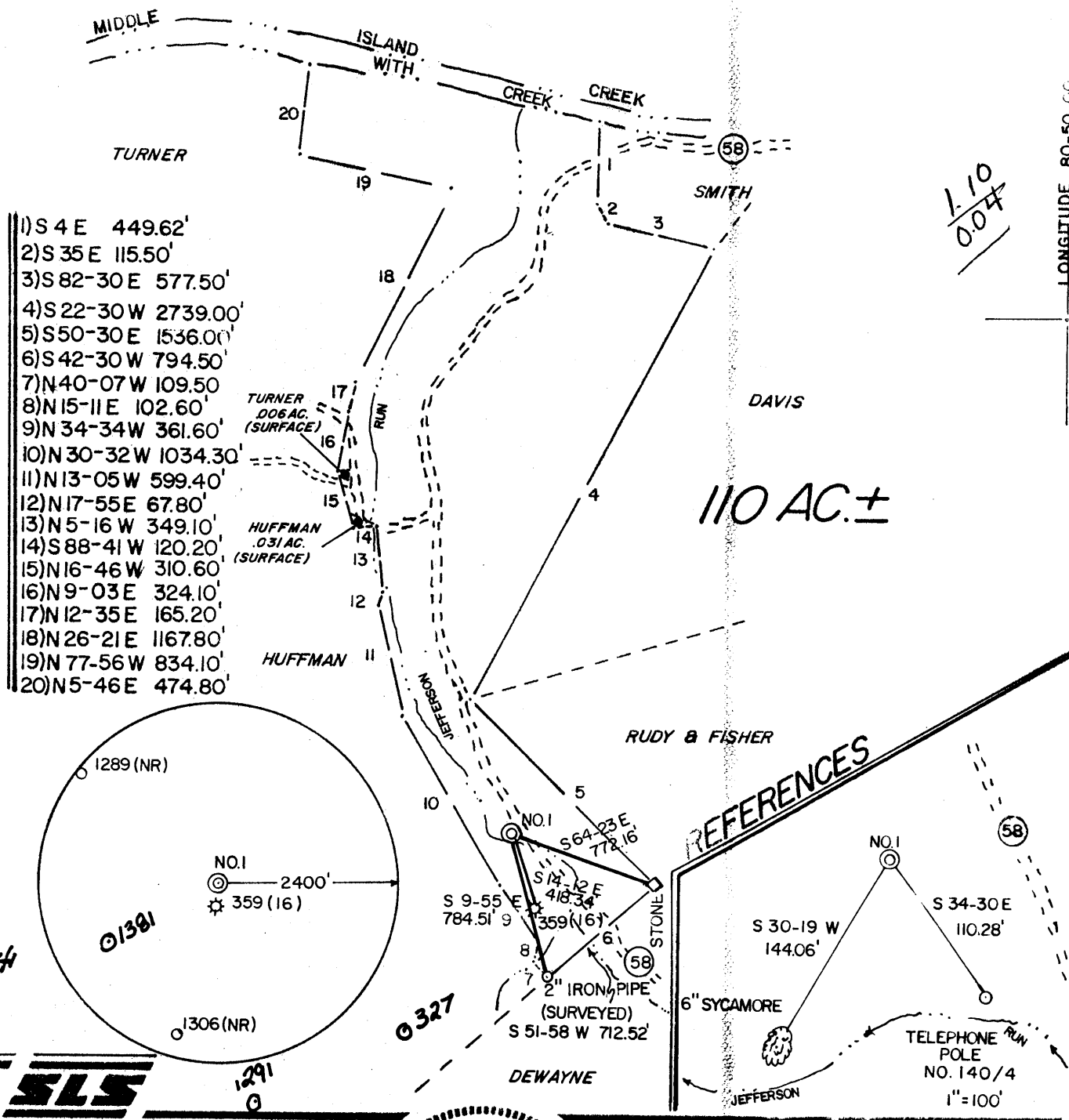


Janie 5/14/90

LATITUDE 39-25-00

W. SMITH LEASE

WELL NO. 1



- 1) S 4 E 449.62'
- 2) S 35 E 115.50'
- 3) S 82-30 E 577.50'
- 4) S 22-30 W 2739.00'
- 5) S 50-30 E 1536.00'
- 6) S 42-30 W 794.50'
- 7) N 40-07 W 109.50'
- 8) N 15-11 E 102.60'
- 9) N 34-34 W 361.60'
- 10) N 30-32 W 1034.30'
- 11) N 13-05 W 599.40'
- 12) N 17-55 E 67.80'
- 13) N 5-16 W 349.10'
- 14) S 88-41 W 120.20'
- 15) N 16-46 W 310.60'
- 16) N 9-03 E 324.10'
- 17) N 12-35 E 165.20'
- 18) N 26-21 E 1167.80'
- 19) N 77-56 W 834.10'
- 20) N 5-46 E 474.80'

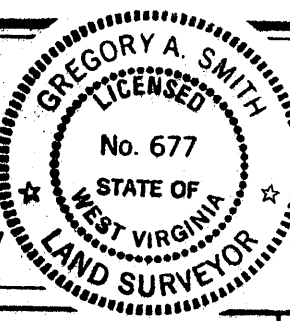
1.10  
0.04

110 AC.±

REFERENCES

SLS

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE DECEMBER 12, 19 89  
 OPERATORS WELL NO. SMITH NO. 1  
 API WELL NO. 47 - 095 - 1387  
 STATE COUNTY PERMIT

L.S. Gregory A. Smith  
 377

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1948(26-30)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB - ELEV. 1078' SCALE 1"=800'

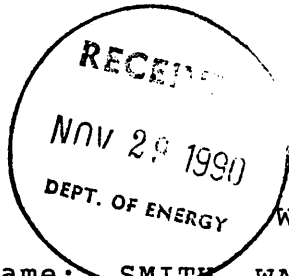
STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 742' WATERSHED JEFFERSON RUN QUADRANGLE WestUnion 15'c  
 DISTRICT CENTERVILLE 1 COUNTY TYLER ACREAGE 109.66  
 SURFACE OWNER WALTON E. & STELLA SMITH LEASE ACREAGE 110  
 ROYALTY OWNER WALTON E. & STELLA SMITH LEASE NO. \_\_\_\_\_  
 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 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, W.V. 26554-1230  
 6-6 Wilbur (092) MAY 22 1990

LONGITUDE 80-50-00 5840'

COUNTY NAME PERMIT



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

Well Operator's Report of Well Work

Farm name: SMITH, WALTON & STELLA Operator Well No.: W. SMITH #1

LOCATION: Elevation: 742.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER  
Latitude: 5840 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 200 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: 05/14/90  
Well work Commenced: 05-22-90  
Well work Completed: 05-27-90  
Verbal Plugging  
Permission granted on: --  
Rotary XX Cable \_\_\_\_\_ Rig  
Total Depth (feet) 4932  
Fresh water depths (ft) \_\_\_\_\_  
107 230  
Salt water depths (ft) \_\_\_\_\_  
1730  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4		120	CTS
8 5/8	1680	1662	CTS
4 1/2			
		4783	

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4710  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 240 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1550 psig (surface pressure) after 48 Hours  
  
Second producing formation Riley Pay zone depth (ft) 4300  
Gas: Initial open flow -- MCF/d Oil: Initial open flow -- Bbl/d  
Final open flow -- MCF/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests -- Hours  
Static rock Pressure -- psig (surface pressure) after -- Hours  
Commingled with Benson

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: Michael W. August  
Date: \_\_\_\_\_

DEC 3 1990

Clay	0	20		
Sand	20	63		
Sh/sd	63	620	hole wet	230'
RR	620	660		
Sd/sh	660	1500		
RR	1500	1540		
Sh	1540	1600		
Lime	1600	1710	gas	1700 no show
Sd	1710	1750		
Sh/sd	1750	4932		
TD		4932		

E Log Tops

Big Lime	1594
Berea	2205
Benson	4709

Benson 4726 - 4730 with 14 holes

Frac with 35,000 # sand, 76,000 scf N<sub>2</sub>

420 bbls treated fluid                      Avg psi 2554                      Avg rate 2014

Riley 4308 -4339 with 12 holes

Frac with 30,000 # sand, 70,000 scf N<sub>2</sub>

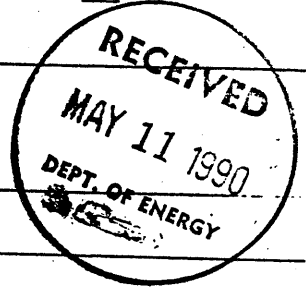
364 bbls treated fluid                      Avg psi 2540                      Avg rate 2012

10622

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

Page      of       
 Issued 5/14/90  
 Expires 5/14/92

- 1) Well Operator: ANVIL OIL COMPANY, INC. 2275 (1) 606
- 2) Operator's Well Number: W. SMITH WELL NO. 1 3) Elevation: 742'
- 4) Well type: (a) Oil      / or Gas X /  
 (b) If Gas: Production X / Undergrnd Storage      /  
 Deep      / Shallow X /
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 206' 40'
- 8) Approximate salt water depths: 1232' N/A
- 9) Approximate coal seam depths:      N/A
- 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.)
<u>APP</u> Conductor	11-3/4"			120'	120'	CTS
Fresh Water	8-5/8"			1617'	1617'	By Rule 38 CSR 18-11.3
Coal						30 CSR 18-11.2, 2
Intermediate						
Production	4-1/2"			5100'	5100'	By Rule 38 CSR 18-11.1
Tubing						
Liners						

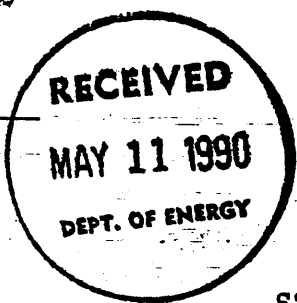
PACKERS : Kind       
 Sizes       
 Depths set     

For Division of Oil and Gas Use Only

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

100222

3471



1) Date: 9-28-89  
2) Operator's well number  
W. Smith #1  
3) API Well No: 47 - 095 - 1387  
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 Walton & Stella Smith  
Address Box 7, HCR 74  
Wilbur, WV 26320

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Glen P. Robinson  
Address Route 1  
Mineral Wells, WV 2650  
Telephone (304)- \_\_\_\_\_

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 *Justin Henderson*  
Its: President  
Address P.O. Box 1230  
Fairmont, WV 26554-1230  
Telephone (304) 363-1362

Subscribed and sworn before me this 19<sup>th</sup> day of March, 1990

*Thomas O. DeMatteis*  
My commission expires 7/8/90 Notary Public