

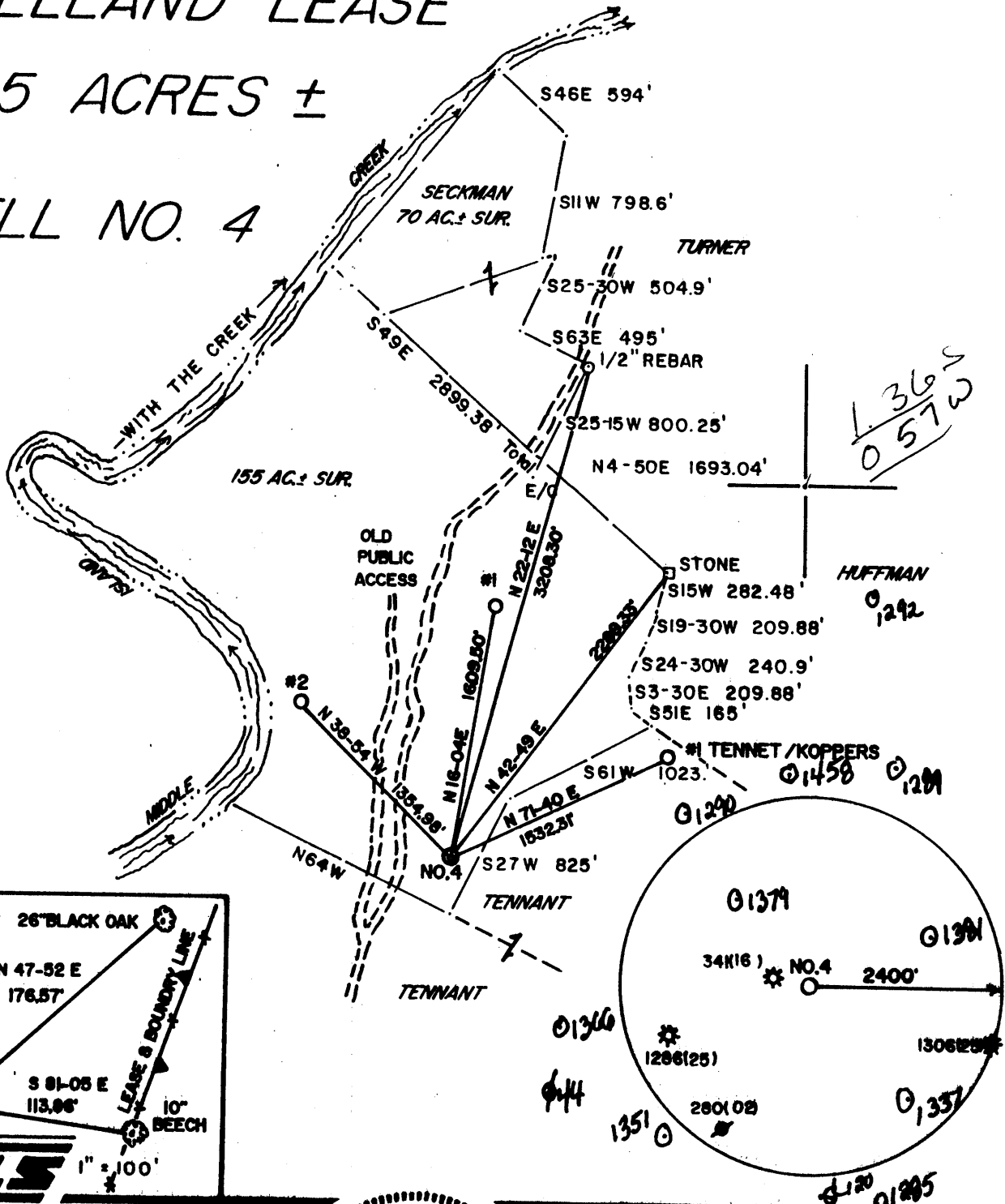
CLELLAND LEASE

225 ACRES ±

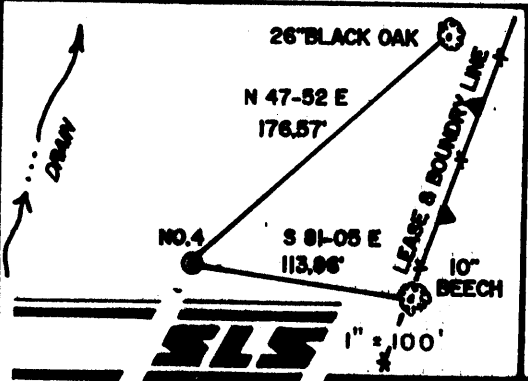
WELL NO. 4

NORTH

LONGITUDE 80°50'00"

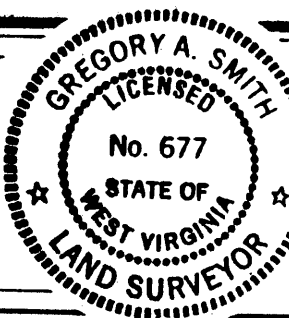


REFERENCES



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

DATE DECEMBER 28, 1990
OPERATORS WELL NO. CLELLAND NO. 4

API WELL NO. 47 - 095 - 1457
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1984 (34-55)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. = 970' SCALE 1" = 1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



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

LOCATION: ELEVATION 898' WATERSHED JEFFERSON RUN DISTRICT CENTERVILLE I COUNTY TYLER QUADRANGLE SHIRLEY 7.5' WU

SURFACE OWNER PAUL R. CLELLAND ACREAGE 155 ROYALTY OWNER PAUL R. CLELLAND LEASE ACREAGE 155 OF 225

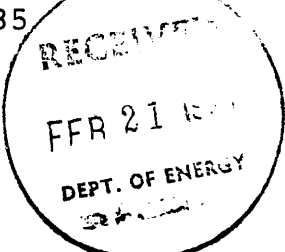
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___ PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION BENSON ESTIMATED DEPTH 5100'

WELL OPERATOR ANVIL OIL CO., INC. 48 DESIGNATED AGENT JUSTIN HENDERSON ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230

COUNTY NAME PERMIT

6-6 Wilbur

(092)



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

Well Operator's Report of Well Work

Farm name: CLELLAND, PAUL Operator Well No.: CLELLAND 4

LOCATION: Elevation: 898.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 7190 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 3090 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: MIKE UNDERWOOD
Permit Issued: 01/18/91
Well work Commenced: 2/2/91
Well work Completed: 2/7/91
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5030'
Fresh water depths (ft) _____

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	130'	130'	655K5 CTS-77ft3
8 5/8	1812'	1812'	400sk3 CTS-472ft
4 1/2	-----	4968'	(3000) 470sk3 550ft

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4890'-93

Gas: Initial open flow 600 MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 250 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation Riley (Comingled) Pay zone depth (ft) 4480-82

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

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: [Signature]
Date: 2/18/91

FEB 25 1991

- 1) Perf 4890-93 with 7 holes (.39)
 4480-82 with 2 holes (.39)

Stimulate with 1000 gal HCL , 50,000 # sand. in
 530 BBL fluid. Aver. Pressure 2700#, Average rate
 20BPM, Average HHP and 76 MSCF N₂

2) Sand and Shale	0-420	H ₂ O at 530'
Redrock sand	420-590	
Sand and Shale	590-597	Gas 25MCFPD at 2071
Sand	597-606	Gas 25MCFPD at td
Red Rock	750-780	
Sand and Shale	780-820	<u>Log Tops</u>
Red Rock	820-855	
Sand and Shale	855-1719	
Limestone	1719-1766	Little lime 1715-1760'
Sand and shale	1766-1780	Big Lime 1815-1890'
Limestone	1780-1943	Injun 1970-2030'
Sand and Shale	1943-1952	Weir 2200-2300'
Sand	1952-1973	Riley 4390-4560'
Sand and Shale	1973-2268	Benson 4860-4910'
Shale and sand	2268-4900	
Silt	4900-4920	
Sand and Shale	4920-5030	
TD	5030	

71811

1) Date: January 8, 1991
2) Operator's well number
Clelland Well No. 4
3) API Well No: 47 - 095 - 1457
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

REC
Division of
JAN 09 91
Permitting
Oil and Gas Section

4) Surface Owner(s) to be served:
(a) Name Paul Clelland
Address Route 9, Box 280
Fairmont, WV 26554
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator: _____
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____

6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304)-782-1043

(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 and Gas, Co. Inc.
By: Justin L. Henderson
Its: President
Address P.O. BOX 1230
Fairmont, WV 26554
Telephone _____

Subscribed and sworn before me this 8th day of January, 1991

Belinda J. Beapre
My commission expires March 29, 1991 Notary Public

STATE OF WEST VIRGINIA *Expires 1/18/93* Page *1* of *1*
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS *Company*
WELL WORK PERMIT APPLICATION

COPY

- 1) Well Operator: ANVIL OIL CO., INC. 2275 (1) 606
- 2) Operator's Well Number: CLELLAND WELL NO. 4 3) Elevation: 898'
- 4) Well type: (a) Oil / 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: 35' 233
- 8) Approximate salt water depths: N/A 1223'
- 9) Approximate coal seam depths: N/A 115'
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

REC
Division of
JAN 09 91
Permit
Oil and Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"			130'	130'	CTS
Fresh Water	8-5/8"			998'	998'	By Rule 38 CSR 18-11.3
Coal						<i>38 CSR 18-11.3</i>
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 Security Blanket Agent

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