

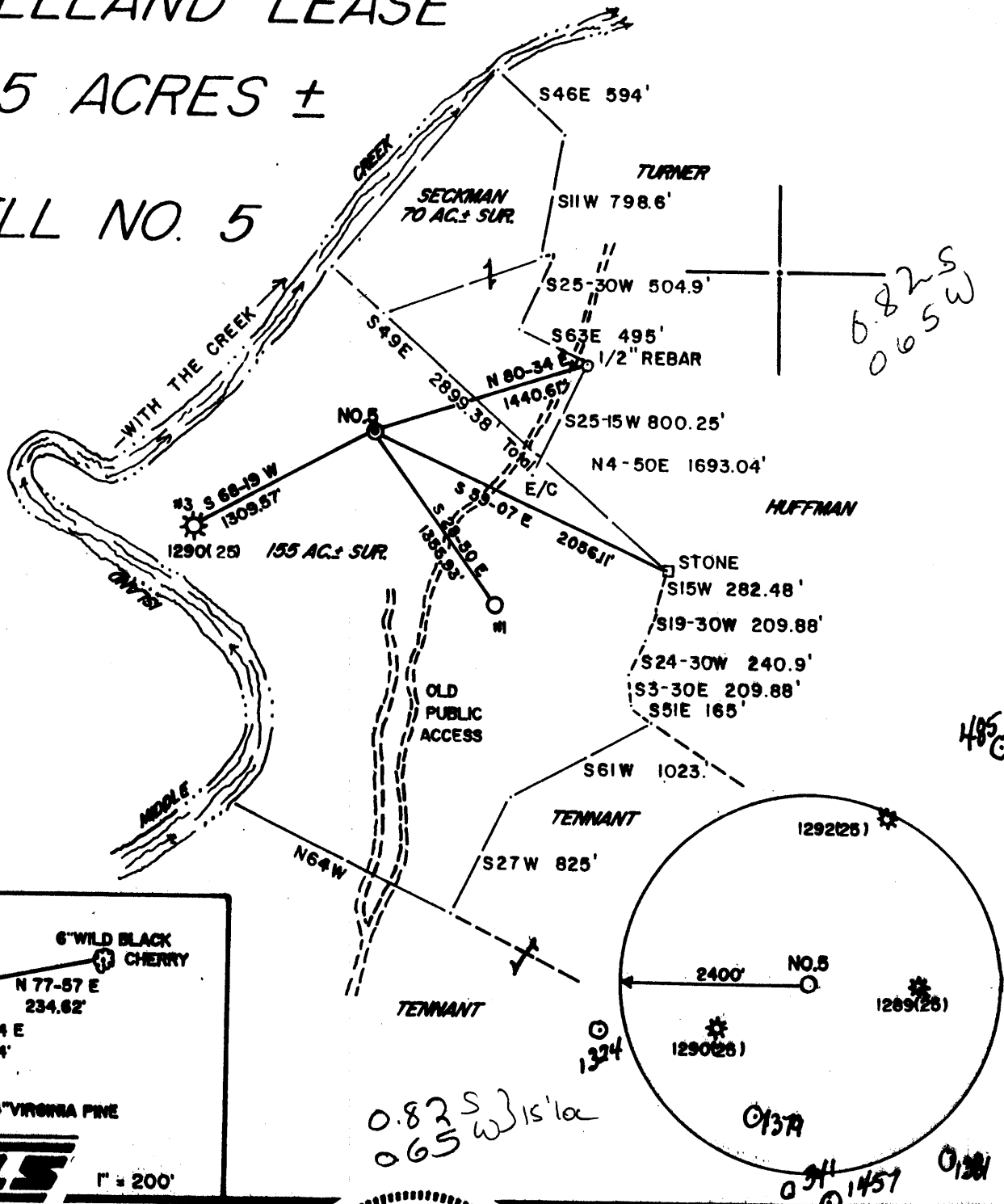
Jan 11/17/91

CLELLAND LEASE

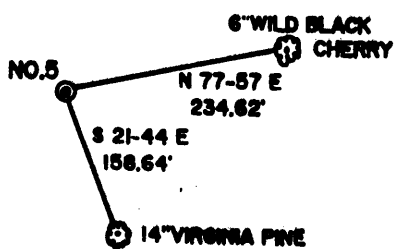
225 ACRES ±

WELL NO. 5

NORTH



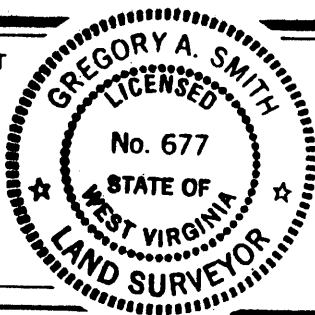
REFERENCES



SLS 1" = 200'

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 28, 1990
 OPERATORS WELL NO. CLELLAND NO. 5
 API WELL NO. 47 - 095 - 1458
 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

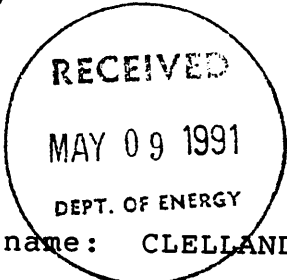


WELL TYPE: OIL GAS LIQUID WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 810' WATERSHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5' W
 SURFACE OWNER PAUL R. CLELLAND ACREAGE 155
 ROYALTY OWNER PAUL R. CLELLAND LEASE ACREAGE 155 OF 225
 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. 48 DESIGNATED AGENT JUSTIN HENDERSON JAN 1 8 1991
 ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230 ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230

6-06 Wilbur (092)

COUNTY NAME PERMIT



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 5

LOCATION: Elevation: 810.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 4490 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 3450 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: 2/1/91
Well work Completed: 2/6/91
Verbal Plugging
Permission granted on: N/A
Rotary X Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____

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 | 128' | 128' | 128' 77ft ³ |
| 8 5/8 | 1700' | 1700' | 1700' 454ft ³ |
| 4 1/2 | ---- | 4930' | 2500 503ft ³ |
| | | | |
| | | | |

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4790-94
Gas: Initial open flow 21 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow: 7 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

Second producing formation Riley Pay zone depth (ft) 4407-08
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 *Justin L. Henderson*
By: _____
Date: 5/6/91

MAY 10 1991

1) 111 Perforated Interval: 4790-94 with 8 (.39) holes
 4407-08 with 2 (.39) holes
 4388 with 1 (.39) holes
 Stimulation 4378 with 1 (.39) holes

| | | |
|------------------------|-----------|-----------------------------------------|
| 2) Dirt | 0 - 15 | |
| Shale | 15-25 | |
| Sand/shale | 25-51 | |
| Red rock/ shale | 51-140 | Fresh water at 25' 912' |
| Sand/shale | 140-730 | |
| Sand | 730-805 | Salt water at 1630' |
| Shale | 805- 835 | |
| Sand/shale | 835-921 | Gas 4/10 water in 1" at TD in Benson |
| Sand | 921-930 | |
| Sand Shale red rock | 930-990 | |
| Sand | 990-1065 | |
| Shale/RR | 1065-1100 | |
| Sand Shale | 1100-1115 | |
| Sand | 1115-1140 | |
| Sand/shale | 1140-1150 | |
| Sand | 1150-1335 | |
| Sand/Shale | 1335-1600 | |
| Little Lime | 1600-1650 | |
| Sand | 1650-1669 | |
| Sand/shale | 1669-1685 | |
| Big lime | 1685-1820 | |
| Sand/shale | 1820-1835 | |
| Injun | 1835-1948 | |
| Weir | 1948-2024 | |
| Sand/shale | 2024-5000 | |

Log Tops

Big Lime 1720'
 Injun 1850'
 Weir 2100'
 Riley 4374'
 Benson 4775'

11811

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

Company
COPY

- 1) Well Operator: ANVIL OIL CO., INC. 2275 (1) 606
- 2) Operator's Well Number: CLELLAND WELL NO. 5 3) Elevation: 810'
- 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' / 145'
- 8) Approximate salt water depths: N/A / 1135' JAN 0 91
- 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
- 12) New Well

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|--------------|---------------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | Fill-up (cu. ft.) |
| Conductor | 11-3/4" | | | 130' | 130' | CTS |
| Fresh Water | 8-5/8" | | | 910' | 910' R | By Rule 38 CSR 18-11.3 |
| Coal | | | | | | 38 CSR 18-11.3 |
| 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 Surtex Blanket Agent
(Type)

1) Date: January 8, 1991
2) Operator's well number
Clelland Well No. 5
3) API Well No: 47 - 095 - 1458
State - County - Permit

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

RECEIVED
Division of Energy
JAN 09 91
Permit
Oil and Gas

4) Surface Owner(s) to be served:
(a) Name Paul Clelland
Address Rt. 9, Box 280
Fairmont, WV 26554
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

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
_____ 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 304-363-1362

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

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