

Janice
12/10/91

FERREBEE / LEWIS LEASE

30.56 ACRES +

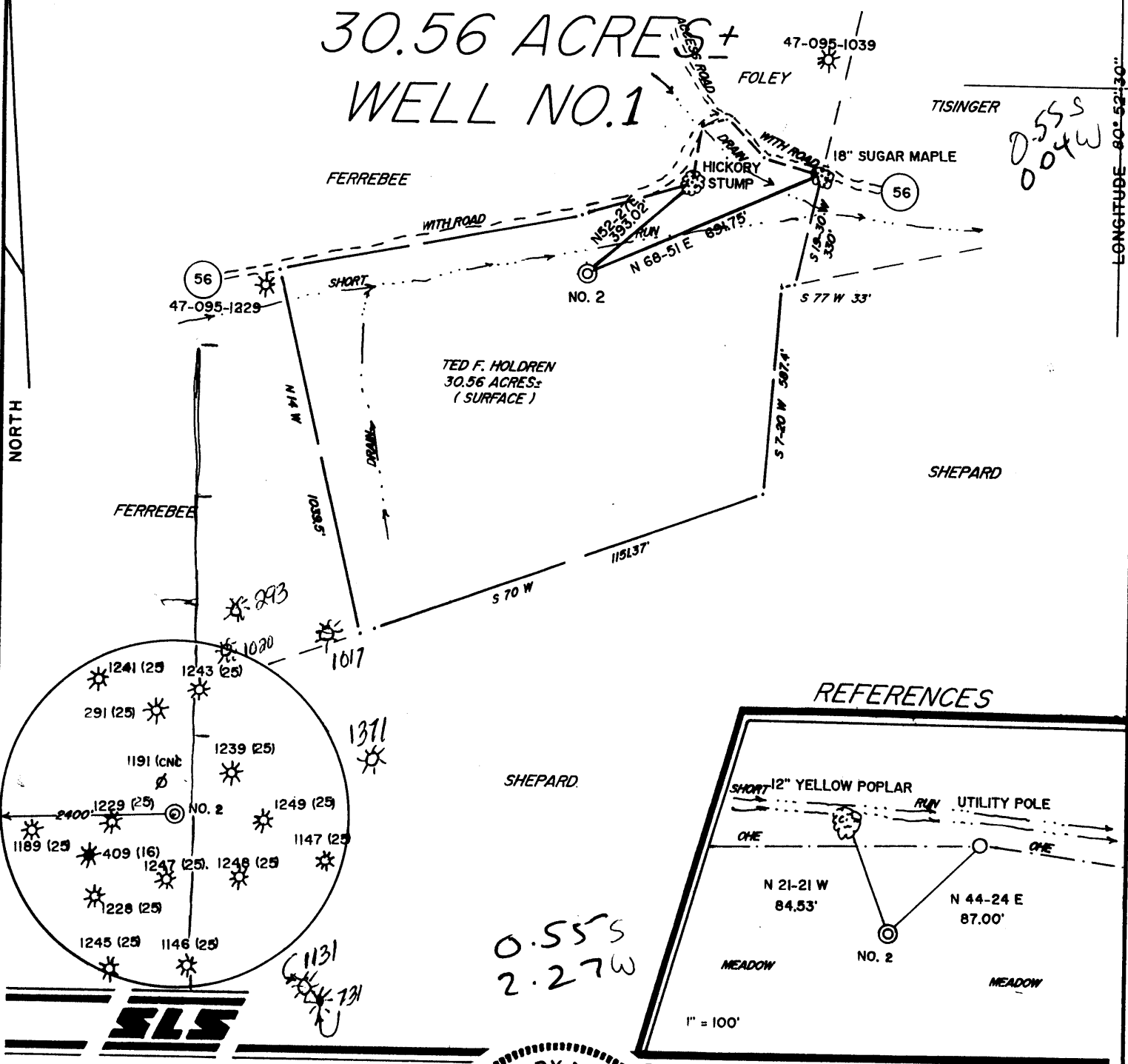
WELL NO. 1

LATITUDE 39° 20' 00"

NORTH

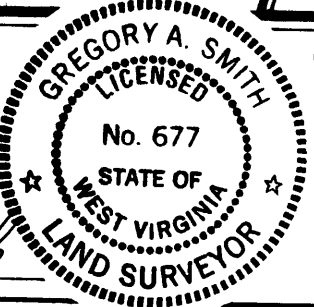
LONGITUDE 80° 52' 30"

0.55 S
0.04 W



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 NOVEMBER 20, 19 91
OPERATORS WELL NO. FERREBEE/LEWIS NO. 1
API WELL NO. 47 - 095 - 1490
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2738 (36-61)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1308' SCALE 1" = 400'

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 901' WATERSHED SHORT RUN
DISTRICT CENTERVILLE COUNTY TYLER

SURFACE OWNER TED F. HOLDREN QUADRANGLE PENNSBORO 7.5 Wm
ACREAGE 30.56 SC

ROYALTY OWNER JOHN C. LEWIS HEIRS ET. AL. LEASE ACREAGE 30.56

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 DEVONIAN SHALE
ESTIMATED DEPTH 5900'

WELL OPERATOR APPALACHIAN ENERGY DEVELOPMENT Inc. DESIGNATED AGENT GEORGE WILLIAMS
ADDRESS RT. 2 BOX 499 GRAFTON, WV 26354 ADDRESS RT. 2 BOX 499 GRAFTON, WV 26354

6-6 Stanley (090)

COUNTY NAME PERMIT

Reviewed TM6
 Recorded _____

State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: HOLDREN, TED F. Operator Well No.: FERREBEE/LEWIS1

LOCATION: Elevation: 901.00 Quadrangle: PENNSBORD

District: CENTERVILLE County: TYLER
 Latitude: 2910 Feet South of 39 Des. 20Min. 0 Sec.
 Longitude 240 Feet West of 80 Des. 52 Min. 30 Sec.

Company: APPALACHIAN ENERGY DEVELO
 ROUTE 2, BOX 499
 GRAFTON, WV 26354-0499

Agent: GEORGE WILLIAMS

Inspector: MIKE UNDERWOOD
 Permit Issued: 12/11/91
 Well work Commenced: 12-20-1991
 Well work Completed: 1-8-1992

Verbal Plugging
 Permission granted on: _____
 Rotary XX Cable _____ Ris
 Total Depth (feet) 5350
 Fresh water depths (ft) 35 to 750 ft.

Salt water depths (ft) N/A

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

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
11 3/4	177.55	177.55	90 sks
8 5/8	1556.90	1556.90	Surface
4 1/2	5257	5257	300 sks
N/A			

RECEIVED
 FEB 04 1992
 Division of Energy
 Oil and Gas Section

OPEN FLOW DATA NOTE: These zones are downhole commingled.

Producing formation Alexander/Benson/Riley Pay zone depth (ft) 5040
 Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 270 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hour
 Static rock Pressure 1720 psig (surface pressure) after 48 Hour

Second producing formation _____ Pay zone depth (ft) _____
 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 _____ Hour
 Static rock Pressure _____ psig (surface pressure) after _____ Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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.

RECEIVED
 FEB 11 1992
 Division of Energy
 Oil and Gas Section

For: APPALACHIAN ENERGY DEVELOPMENT, INC.

By: George Williams, President
 Date: Jan 14, 1992

FEB 14 1992

ALEXANDER FRACTURING REPORT

PERFORATED 5040-56 w/17 HOLES. FRAC WITH 5000# 80/100 SAND - 25,000# 20/40 SAND IN 470 BBLs OF WATER AND 74150 SCF N₂

BENSON

PERFORATED 4753 - 59 w/15 HOLES. FRAC WITH 5000# 80/100 SAND AND 25,000# 20/40 SAND IN 447 BBLs OF WATER AND 74150 SCF N₂.

RILEY

PERFORATED 4338 - 83 w/20 HOLES FRAC WITH 75 QUALITY FOAM USING 5000# 80/100 SAND, 25,000# 20/40 SAND IN 292 BBLs OF WATER AND 465944 SCF N₂.

FERREBEE-LEWIS #1			
Formation	Top	Bottom	Comments
Shale	0	18	Water
Shale & Red Rock	18	658	
Red Rock	658	680	
Sand & Shale	680	1708	
L. Lime	1708	1729	
Shale	1729	1740	
B. Lime	1740	1836	
Injun	1836	1998	
Sand & Shale	1998	2580	
Gordon	2580	2610	
Sand & Shale	2610	4235	
Riley	4235	4255	
Sand & Shale	4255	4760	
Benson	4760	4770	
Sand & Shale	4770	5120	
Alexander	5120	5350	
Gas Check	2150'	20/10	1/2" W/W
	2585	120/10	1" W/W
	3112	74/10	1" W/W
	3608	54/10	1" W/W
	4104	60/10	1" W/W
	4448	80/10	1" W/W
	4729	70/10	1" W/W
	4914	65/10	1" W/W
	5008	52/10	1" W/W
	5164	52/10	1" W/W

13000

RECEIVED
DEC 04 1991
DEPT. OF ENERGY

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

075-1490
Issued 12/11/91
Page 3 of 7
Expire 12/11/93
2325 (1) 5

- 1) Well Operator: APPALACHIAN ENERGY DEVELOPMENT, INC.
- 2) Operator's Well Number: FERREBEE/LEWIS NO. #1 3) Elevation: 901'
- 4) Well Type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation: Devonian Shale 437
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 35'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: @ 672'-673' N/A 120' of 114'
1275' @ 145'
237' - 240'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 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	
Conductor	11-3/4"			30' / 120' } 30 CS 18 1/2 2.2	
Fresh Water	8-5/8"			1496' / 1496' } CTS 38 CSR 18-11.3	
Coal					
Intermediate					
Production	4-1/2"			5900' / 5900' } CTS or 38 CSR 18-11.1	
Tubing					
Liners					

13000

PACKERS : Kind As per inspector
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

10892
30

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2E Bond C.D. Blanket Agent
(Type)



1) Date: November 25th, 1991
2) Operator's well number
FERREBEE/LEWIS WELL NO. 11
3) API Well No: 47 - 095 - 1490
State - County - Permit

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>Ted F. Holdren</u>
Address <u>RD 1, Box 566</u>
<u>Wierton, WV 26026</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>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rt. 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)- <u>782 - 1043</u></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
XXX 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 7 on the above named parties, by:
_____ Personal Service (Affidavit attached)
XXX 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 APPALACHIAN ENERGY DEVELOPMENT
By: [Signature]
Its: George R. Williams
Address Rt. 2, Box 499
Grafton, WV 26354
Telephone 265 - 4147

Subscribed and sworn before me this 25th day of November, 19 91

Gregory A. Smith Notary Public
My commission expires 12-07-92