

*Janie 6/10/88*

1270'

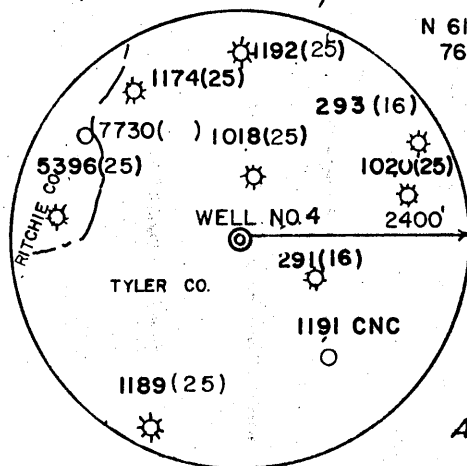
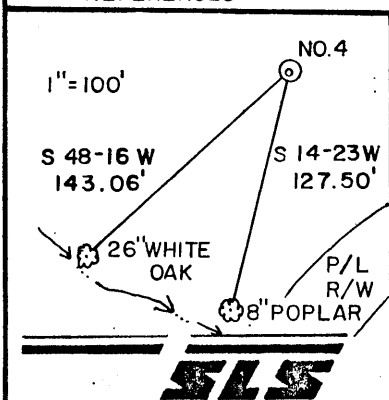
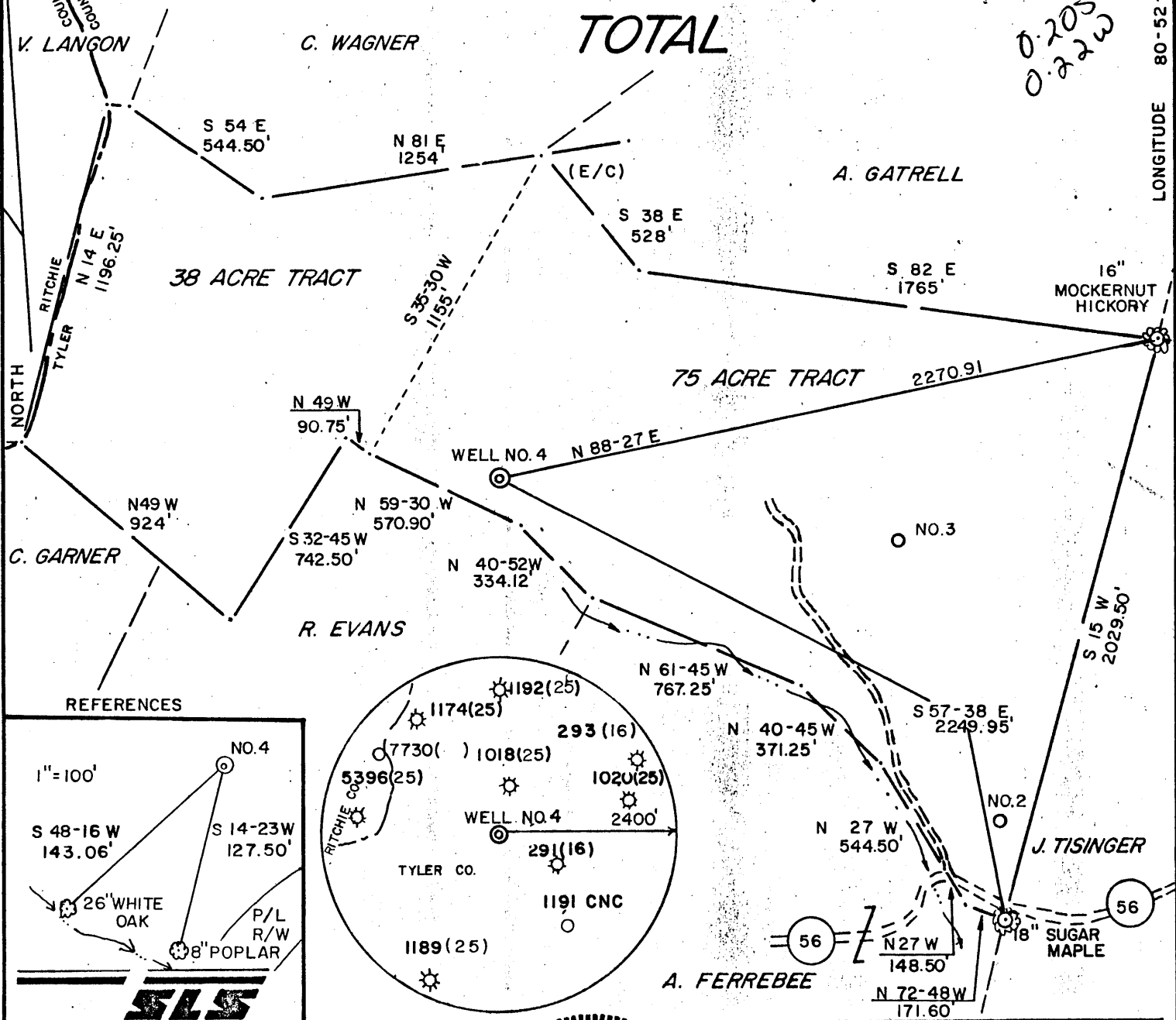
LATITUDE 39-20-00

# LATON KINNEY LEASE

## 113 ACRES± TOTAL

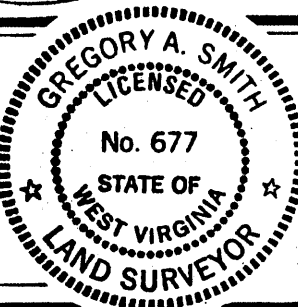
## WELL NO. 4

*0.205  
0.222*



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. 677 *Gregory A. Smith*



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

DATE MAY, 19 88

OPERATORS WELL NO. KINNEY NO. 4

API WELL NO. 47 - 095 - 1241

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1810 (25-10)

PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1" = 500' ELEV. 1185'

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 1006' WATERSHED SHORT RUN DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE PENNSBORO 7.5 S39

SURFACE OWNER RICHARD FOLEY ACREAGE 113 ROYALTY OWNER FLORENCE BROOKS et.al. LEASE ACREAGE 113

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 ALEXANDER ESTIMATED DEPTH 5990'

WELL OPERATOR APPALACHIAN ENERGY DEVELOPMENT, INC. DESIGNATED AGENT GEORGE WILLIAMS JUN 10 1988

ADDRESS RT. 2, BOX 499 GRAFTON, WV 26354 ADDRESS RT. 2, BOX 499 GRAFTON, WV 26354

COUNTY NAME PERMIT

575

397 Stanley (090)



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 1) Alexander - perf 5164 - 86 w/ 18 holes. Frac w/30,000# sand in 410 bbls. water, using 83,000 SCF. N<sub>2</sub>.
- 2) Benson - perf 4871-79 w/ 18 holes. Frac w/30,000# sand in 440 bbls. water, using 82,000 SCF N<sub>2</sub>.
- 3) Riley - perf 4475-4508 w/18 holes. Foam frac w/30,000# 20/40 sand in 636 bbls. 75 quality foam, using 453,000 SCF N<sub>2</sub>.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			0	480	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">RECEIVED</div> <div style="font-size: 1.2em; font-weight: bold; margin-bottom: 10px;">JAN 25 1989</div> <div style="font-size: 0.8em; font-weight: bold;">DIVISION OF OIL &amp; GAS DEPARTMENT OF ENERGY</div>
Red Rock			480	495	
Sand and Shale			495	1852	
Big Lime			1852	1930	
Big Injun			1930	2042	
Sand and Shale			2042	2216	
Weir			2216	2332	
Sand and Shale			2332	4426	
Riley			4426	4512	
Shale			4512	4871	
Benson			4871	4879	
Shale			4879	5163	
Alexander			5163	5189	
Shale			5189	5486	
TOTAL DEPTH				5486	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEVELOPMENT, INC.  
Well Operator

By: \_\_\_\_\_  
Date: 1/24/89 George R. Williams

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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

- 1) Well Operator: <sup>397</sup> Appalachian Energy Development, Inc. 2325, 1, 538
- 2) Operator's Well Number: Kinney No. 4 3) Elevation: 1006'
- 4) Well type: (a) Oil  or Gas   
 (b) If Gas: Production  Underground Storage   
 Deep  Shallow
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5990 feet
- 7) Approximate fresh water strata depths: 45'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill & Stimulate
- 12)

**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			30'	0'	0 Sks.
Fresh Water	8 5/8			1581'	1581'	CTS or 38 CSR 18-11.3
Coal						
Intermediate						
Production	4 1/2			5990'	5990'	CTS or 38 CSR 18-11.1
Tubing						
Liners						

**RECEIVED**  
 JUN 02 1988

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 1360 Well Work Permit 1241 Reclamation Fund 176 WPCP  
 Plat 98 WW-9 98 WW-2B 98 Bond 50 Blanket Agent 98  
 (Type)

7147

**RECEIVED**  
JUN 02 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

- 1) Date: May 20, 1988
- 2) Operator's well number Kinney No. 4
- 3) API Well No: 47 - 095 - 1241  
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 Richard C. & Gail A. Foley  
Address Rt. 2, Box 70-B  
Greenwood, WV 26360
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Robert Lowther  
Address General Delivery  
Middlebourne, WV 26149  
Telephone (304)- 758 - 4764

- 5) (a) Coal Operator:
  - Name N/A
  - Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration
  - Name N/A
  - Address \_\_\_\_\_
- (c) Coal Lessee with Declaration
  - Name N/A
  - 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 8 on the above named parties, by:

- X 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 Appalachian Energy Development, Inc.  
 By: [Signature]  
 Its: President  
 Address Rt. 2, Box 499  
Grafton, WV 26354  
 Telephone (304) 265 - 4147

Subscribed and sworn before me this 20th day of May, 1988

Gregory A. Smith Notary Public  
 My commission expires 12/7/92