

Janie 6/10/88

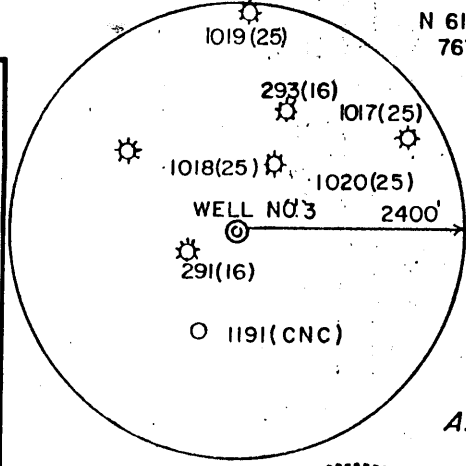
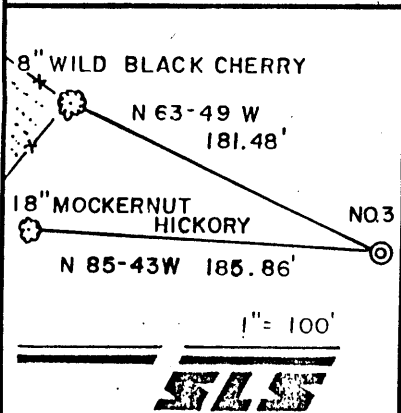
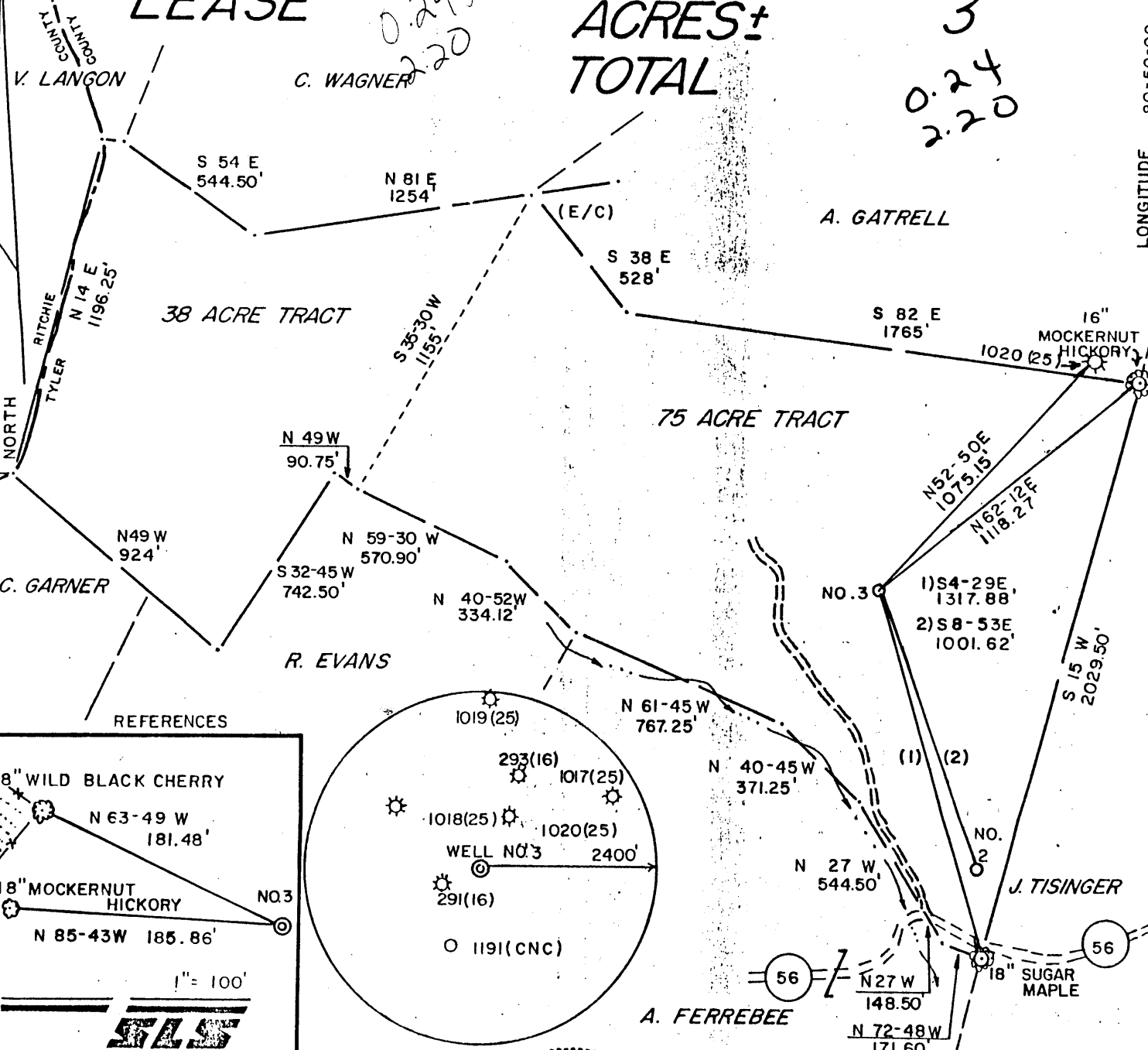
# LATON KINNEY LEASE

## 113 ACRES± TOTAL

## WELL NO. 3

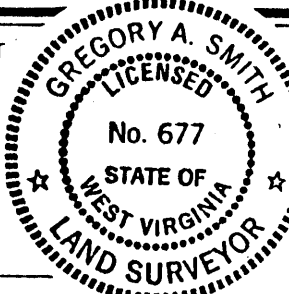
0.24  
2.20

0.245  
2.20



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 1988

OPERATORS WELL NO. KINNEY NO. 3

API WELL NO. 47-095-1242

STATE COUNTY PERMIT 1243

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 1097' WATERSHED SHORT RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5' 67' ACREAGE 113 LEASE ACREAGE 113

SURFACE OWNER RICHARD FOLEY

ROYALTY OWNER FLORENCE BROOKS et. al.

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

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

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DIVISION OF OIL & GAS  
DEPT. OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 9/15/88  
Operator's  
Well No. 3  
Farm Kinney  
API No. 47 - 095 - 1242

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 1097 Watershed Short Run  
District: Centerville County Tyler Quadrangle Pennsboro

COMPANY Appalachian Energy Dev., Inc.  
ADDRESS Rt. 2, Box 499, Grafton, WV 26354  
DESIGNATED AGENT George R. Williams  
ADDRESS Rt. 2, Box 499, Grafton, WV 26354  
SURFACE OWNER Richard Foley  
ADDRESS Greenwood, WV 26360  
MINERAL RIGHTS OWNER Florence Brooks, et al  
ADDRESS Pennsboro, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS Middlebourne, WV  
PERMIT ISSUED 6/10/88  
DRILLING COMMENCED 8/18/88  
DRILLING COMPLETED 8/23/88  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	30	0	0
9 5/8			
8 5/8	1646	1646	
7			
5 1/2			
4 1/2	5382	5382	300 sxs.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander/Benson/Riley Depth 5222 feet  
Depth of completed well 5408 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 455 feet; Salt 1300 feet  
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA NOTE: These zones are downhole commingled.  
Producing formation Alexander/Benson/Riley Pay zone depth See perf. feet  
Gas: Initial open flow 45 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 660 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 1690 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

SEP 23 1988

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

- 1) Alexander - perf 5222-38 w/18 holes. Frac w/30,000# sand in 415 bbls. water, using 48,000 SCF N<sub>2</sub>.
- 2) Benson - perf 4933-39 w/16 holes. Frac w/30,000# sand in 410 bbls. water, using 47,000 SCF N<sub>2</sub>.
- 3) Riley - perf 4533-76 w/18 holes. Foam frac w/30,000# 20/40 sand 8n 700 bbls. 75 quality foam, using 556,000 SCF N<sub>2</sub>.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Sand and Shale			0	455	
Red Rock			455	465	
Sand and Shale			465	1920	
Big Lime			1920	1980	
Big Injun			1980	2104	
Sand and Shale			2104	2270	
Weir			2270	2380	
Sand and Shale			2380	4525	
Riley			4525	4566	
Shale			4566	4932	
Benson			4932	4938	
Shale			4938	5222	
✓ Alexander			5222	5249	
Shale			5249	5408	
TOTAL DEPTH				5408	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEV., INC.

Well Operator

By: George R. Williams  
Date: 9/15/88

7145-  
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."

095-1242

Issued 6/10/88 Expires 6/10/90

Page 3 of 7

FORM WW-2F

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

- 1) Well Operator: 397 Appalachian Energy Development, Inc. 2325, 1, 670
- 2) Operator's Well Number: Kinney No. 3 3) Elevation: 1097'
- 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: 110'
- 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			1672'	1672'	CTS or 38 CSP 18-11.3
Coal						
Intermediate						
Production	4 1/2			5990'	5990'	CTS or 38 CSP 18-11.1
Tubing						
Liners						

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

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

7145 1360  
 Fee(s) paid: 16 Well Work Permit 10 Reclamation Fund 16 WPCP  
 Plat 16 WW-9 16 WW-2B 16 Bond 50 Blanket Agent  
 (Type)

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Page 1 of 3  
Form WW2-A  
(09/87)  
File Copy

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: May 20, 1988  
Operator's well number Kinney No. 3  
API Well No: 47 - 095 - 1242  
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 \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_
- 6) Inspector Robert Lowther  
Address General Delivery  
Middlebourne, WV 26149  
Telephone (304)- 758-4764

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 7 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