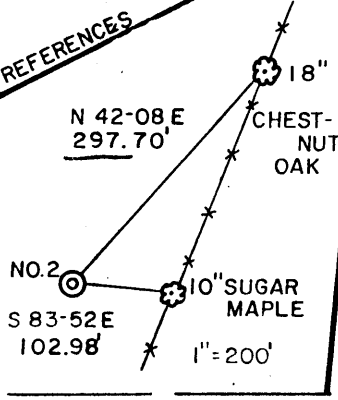
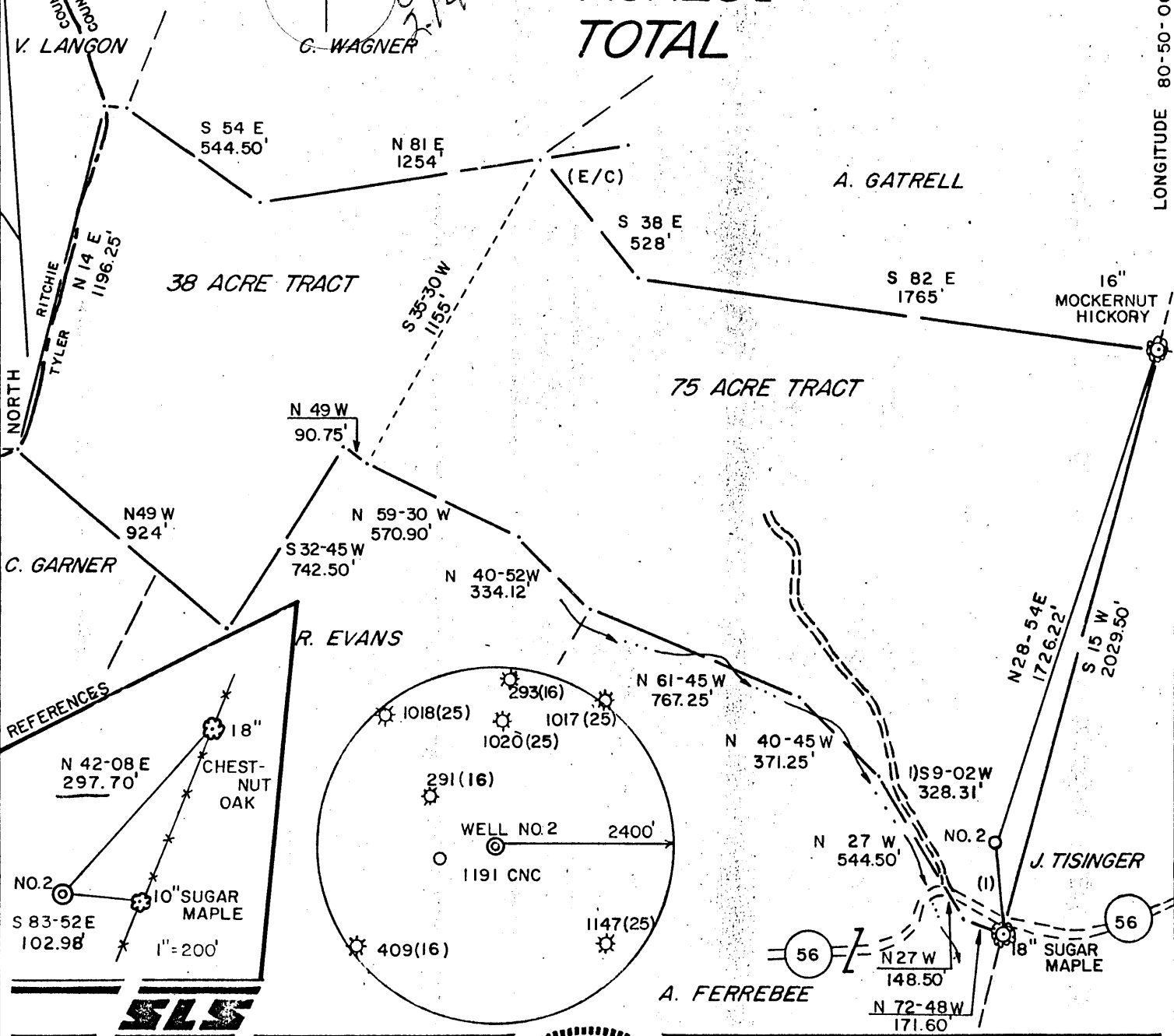
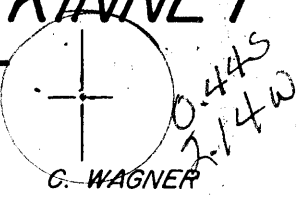


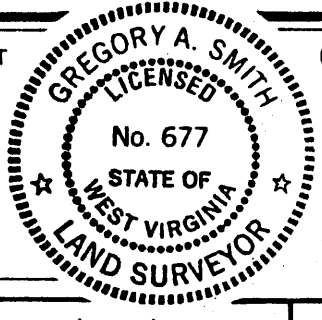
Janice 6/2/88
LATON KINNEY LEASE

113 ACRES± TOTAL
WELL NO. 2



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, 19 88
OPERATORS WELL NO. KINNEY NO. 2
API WELL NO. 47 - 095 - 1239
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1810 (25-10)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1185'
SCALE 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1026' WATERSHED SHORT RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671
SURFACE OWNER RICHARD FOLEY ACREAGE 113
ROYALTY OWNER FLORENCE BROOKS et al. LEASE ACREAGE 113
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 ALEXANDER ESTIMATED DEPTH 5990'

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

135960
64 Stanley (90) JUN 3 1988



WR-35

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AUG 03 1988

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

Date 8-2-88

Operator's

Well No. 2

Farm Kinney

API No. 47 - 095 - 1239

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: 1026 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 Roley

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 6/2/88

DRILLING COMMENCED 6/9/88

DRILLING COMPLETED 6/14/88

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 Cond.			
13-10"	30	0	0
9 5/8			
8 5/8	1610	1610	Surface
7			
5 1/2			
4 1/2	5269	5269	300 sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander/Benson/Riley Depth 5180 feet

Depth of completed well 5341 feet Rotary X / Cable Tools

Water strata depth: Fresh 350 feet; Salt 1480 feet

Coal seam depths: Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Alexander/Benson/Riley Pay zone depth detail feet See perf.

Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 840 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1735 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

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

- 1) Alexander - perf 5190-98 w/ 16 holes. Frac w/30,000# 20/40 sand in 325 bbls. water, using 43,000 SCF. N₂. Avg. Rate - 25 BPM, Avg. Pr-3026 psig, ISDP-1379 psig.
- 2) Benson - perf 4896-4902 w/ 16 holes. Frac 2/30,000# 20/40 sand in 315 bbls. water, using 41,000 SCF N₂. Avg. rate - 26.7 BPM, Avg. Pr-2603 psig, ISDP-1115 psig.
- 3) Riley - perf 4494-4527 w/16 holes. Foam frac 2/30,000# 20/40 sand in 700 bbls. 75 quality foam, using 556,000 SCF N₂. Avg. rate - 24 BPM, Avg. Pr-3404 psig, ISDP-1537 psig.

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	430	Hole damp @ 350'
Red Rock			430	440	Hole wet @ 1480'
Sand and Shale			440	1770	
Little Lime			1770	1910	
Big Lime			1910	1950	
Big Injun			1950	2072	
Sand and Shale			2072	2236	
Weir			2236	2348	
Sand and Shale			2348	4492	
Riley			4492	4527	
Shale			4527	4895	
Benson			4895	4902	
Shale			4902	5180	
Alexander			5180	5212	
Shale			5212	5341	
		TOTAL DEPTH		5341	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEV., INC.

Well Operator

By: *George R. Williams*
 George R. Williams
 Date: August 2, 1988

Note: Regulation 2.02(i) provides as follows:
 113 "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: Appalachian Energy Development, Inc. 2325, 1, 670
2) Operator's Well Number: Kinney No. 2 3) Elevation: 1026'
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage / Deep / Shallow X /
5) Proposed Target Formation(s): Alexander 439
6) Proposed Total Depth: 5990 feet
7) Approximate fresh water strata depths: 60', @ 130', @ 524'
8) Approximate salt water depths: @ 1400 N/A @ 1600'
9) Approximate coal seam depths: @ 362-365' N/A 797-802' 555'
10) Does land contain coal seams tributary to active mine? Yes / No X /
11) Proposed Well Work: Drill & Stimulate
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

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PACKERS: Kind 10 Per Inspector's Request 100' + Elevator Sizes Depths set

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond 50 Blanket Agent (Type)

1132

1360

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Page 1 of 8
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: May 20, 1988
2) Operator's well number
Kinney No. 2
3) API Well No: 47 - 095 - 1239
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 _____
Name _____
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: *George Williams*
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