

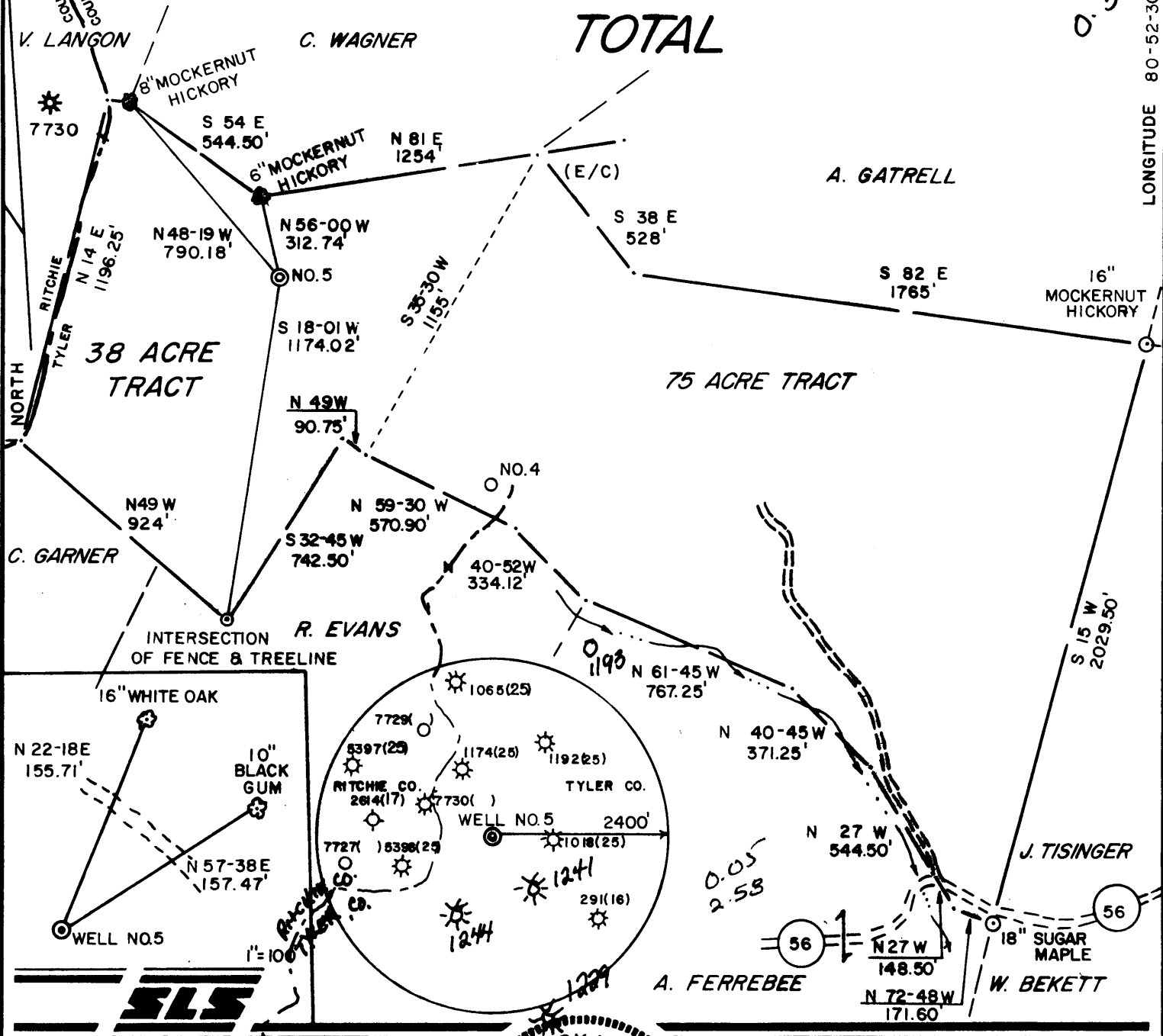
LATON KINNEY LEASE

113 ACRES± TOTAL

WELL NO. 5

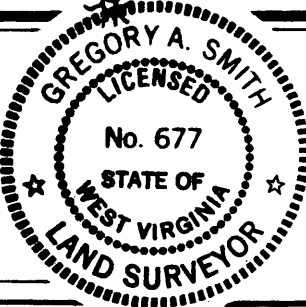
0.055
0.355W

Janie 6/12/88
4/5/95



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. 5

API WELL NO. 47 - 095 - 1243-7

STATE WEST VIRGINIA COUNTY TYLER PERMIT 1243-7

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 LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1167' WATERSHED SHORT RUN

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER RICHARD FOLEY ACREAGE 113

ROYALTY OWNER FLORENCE BROOKS et.al. LEASE ACREAGE 113

PROPOSED WORK: LEASE NO. _____

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) Frac New Formation Coningle, Benson, Riley 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

575

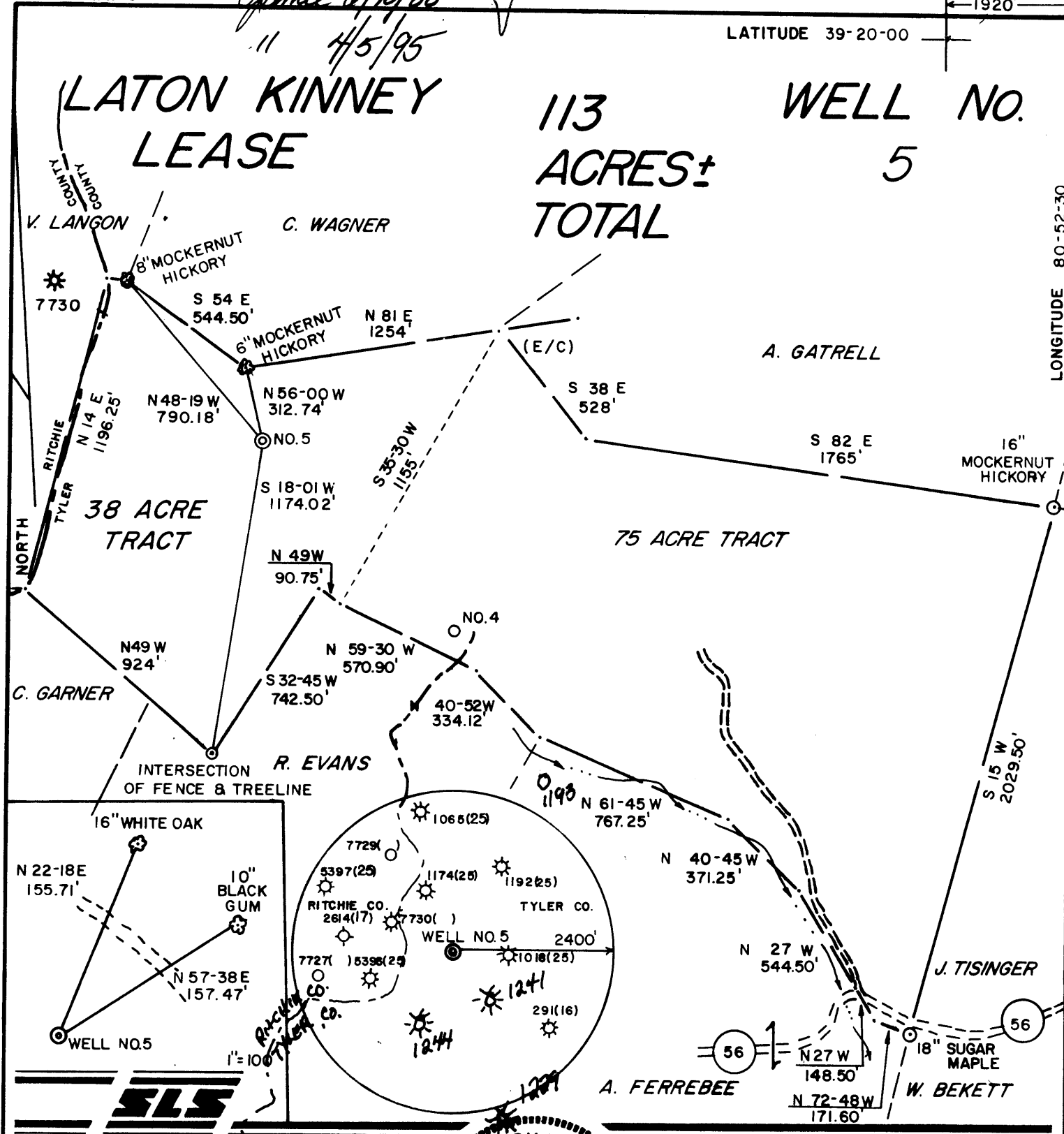
COUNTY NAME TYLER
PERMIT 1243-7

James 6/10/88
4/5/95

LATON KINNEY LEASE

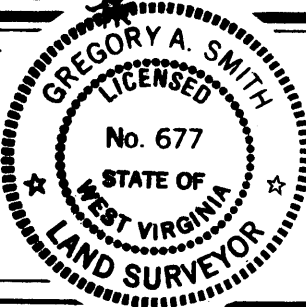
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L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY, 19 88
 OPERATORS WELL NO. KINNEY NO. 5
 API WELL NO. 47 - 095 - 1243-7
 STATE WV COUNTY TYLER PERMIT can call

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 1167' WATERSHED SHORT RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE PENNSBORO 7.5'
 SURFACE OWNER RICHARD FOLEY ACREAGE 113
 ROYALTY OWNER FLORENCE BROOKS et.al. LEASE ACREAGE 113
 PROPOSED WORK: LEASE NO. _____
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 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) Fracture formation TARGET FORMATION ALEXANDER
Comingle 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

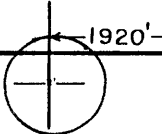
JUN 27 1997

SLS

COUNTY NAME TYLER PERMIT 1043-7

Jamie 6/10/88

LATITUDE 39-20-00

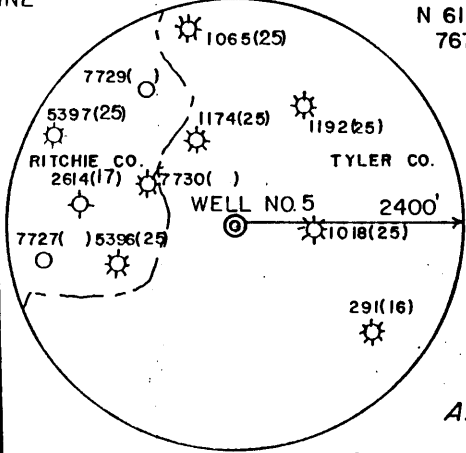
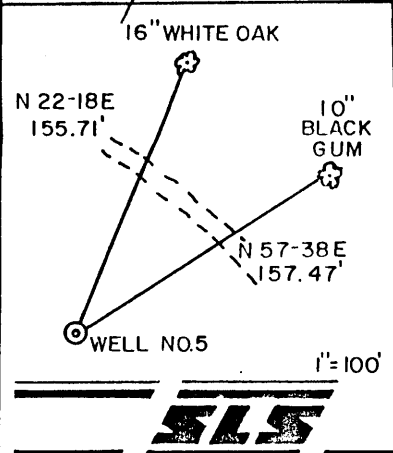
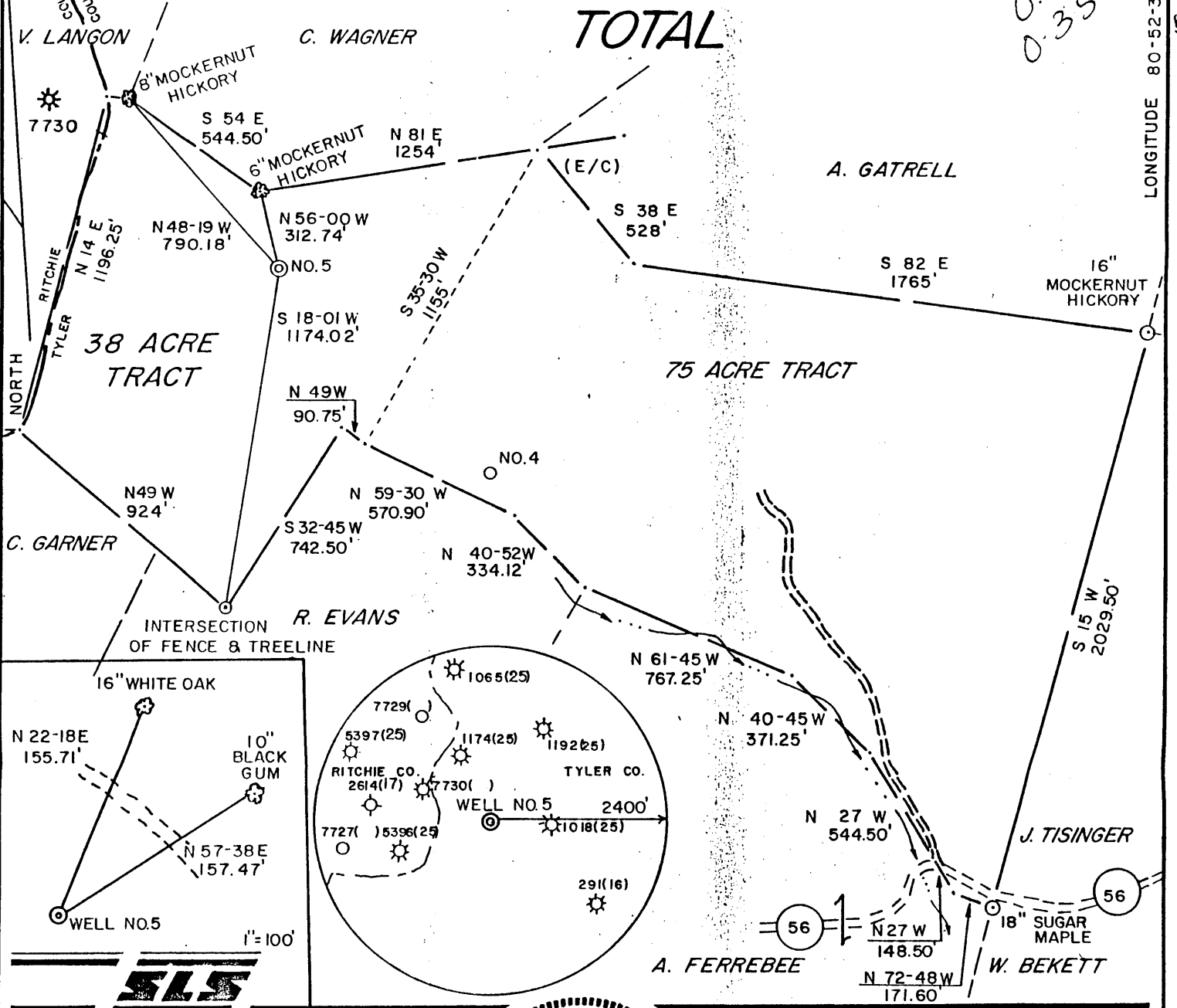


LATON KINNEY LEASE

113 ACRES± TOTAL

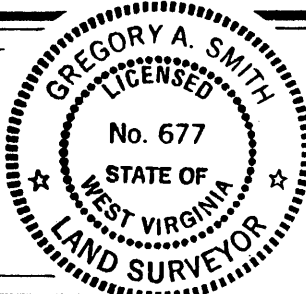
WELL NO. 5

*0.055
0.350*



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L.L.S. 677 *Gregory A. Smith*



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DATE MAY, 19 88

OPERATORS WELL NO. KINNEY NO. 5

API WELL NO. 47 - 095

STATE WV COUNTY TYLER 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 "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1167' WATERSHED SHORT RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE PENNSBORO 7.5'

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

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



WR-35

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FEB 01 1989

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date 1/30/89
Operator's _____
Well No. 5
Farm Kinney
API No 47 - 095 - 1243

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

LOCATION: Elevation: 1167 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 11/18/88

DRILLING COMPLETED 11/24/88

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	1684	1684	Surface
7			
5 1/2			
4 1/2	5389	5389	300 sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander/Benson/Riley Depth 5289 feet

Depth of completed well 5471 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 765 feet; Salt 1540 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. Detail feet

Gas: Initial open flow 85 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 1705 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)

FEB 3 1989

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

- (1) Alexander - perf 5289 - 5311 w/ holes w/30,000# sand in 415 bbls. water, using 79,000 SCF N₂.
- (2) Benson - perf 4997-5005 w/18 holes. Frac w/30,000# sand in 430 bbls. water, using 80,000 SCF N₂.
- (3) Riley - perf 4605 - 4636 w/18 holes. Foam frac w/30,000# 20/40 sand in 620 bbls. 75 Quality foam, using 510,000 SCF N₂.

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	460	
Red Rock			560	590	
Sand and Shale			590	2002	
Big Lime			2002	2070	
Big Injun			2070	2179	
Sand and Shale			2179	2346	
Weir			2346	2462	
Sand and Shale			2462	4604	
Riley			4604	4636	
Shale			4636	4997	
Benson			4997	5006	
Shale			5006	5289	
Alexander			5289	5312	
Shale			5312	5471	
TOTAL DEPTH				5471	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEVELOPMENT, INC.

Well Operator

By: George R. Williams
Date: 1/30/89

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."
7148

Issued 6/10/88

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

Expires 6/10/90

- 1) Well Operator: Appalachian Energy Development, Inc. 2325, 1, 538
2) Operator's Well Number: Kinney No. 5 3) Elevation: 1167'
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: 150'
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 X /
11) Proposed Well Work: Drill & Stimulate
12)

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

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PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond 50000 (Type) Agent

7/48 1360

RECEIVED
JUN 02 1988

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: May 20, 1988
Operator's well number
Kinney No. 5
API Well No: 47 - 095 - 1243
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
Breenwood, 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 _____

6) Inspector Robert Lowther
Address General Delivery
Middlebourne, WV 26149
Telephone (304)- 758 - 4764

(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 9 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