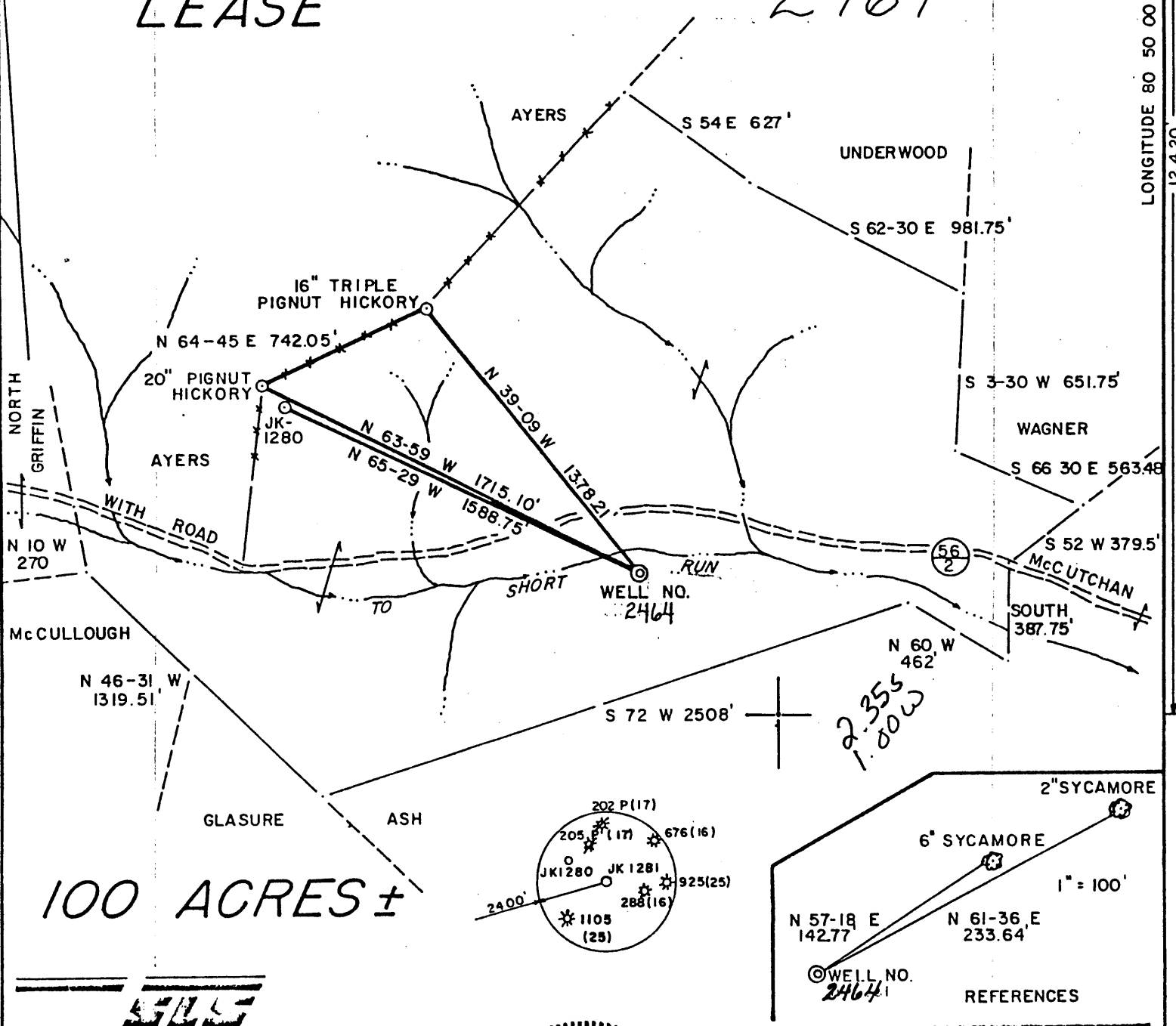


# L. L. JAMES LEASE WELL NO. 2464

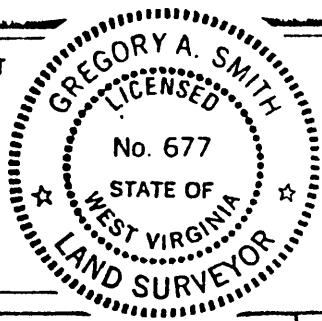


100 ACRES ±

**WELL**

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 JUNE 19, 1986  
OPERATORS WELL NO. 2464  
API WELL NO. 47 - 095 - 1178  
STATE COUNTY PERMIT  
*Cancelled*

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1488 19-36  
SCALE 1" = 600'  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1142'

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 800' WATERSHED SHORT RUN  
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'

SURFACE OWNER LAWRENCE L. AND THELMA B. JAMES ACREAGE 100  
ROYALTY OWNER S. M. DOAK HEIRS et. al. LEASE ACREAGE 100

PROPOSED WORK: LEASE NO. JJ-2153  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

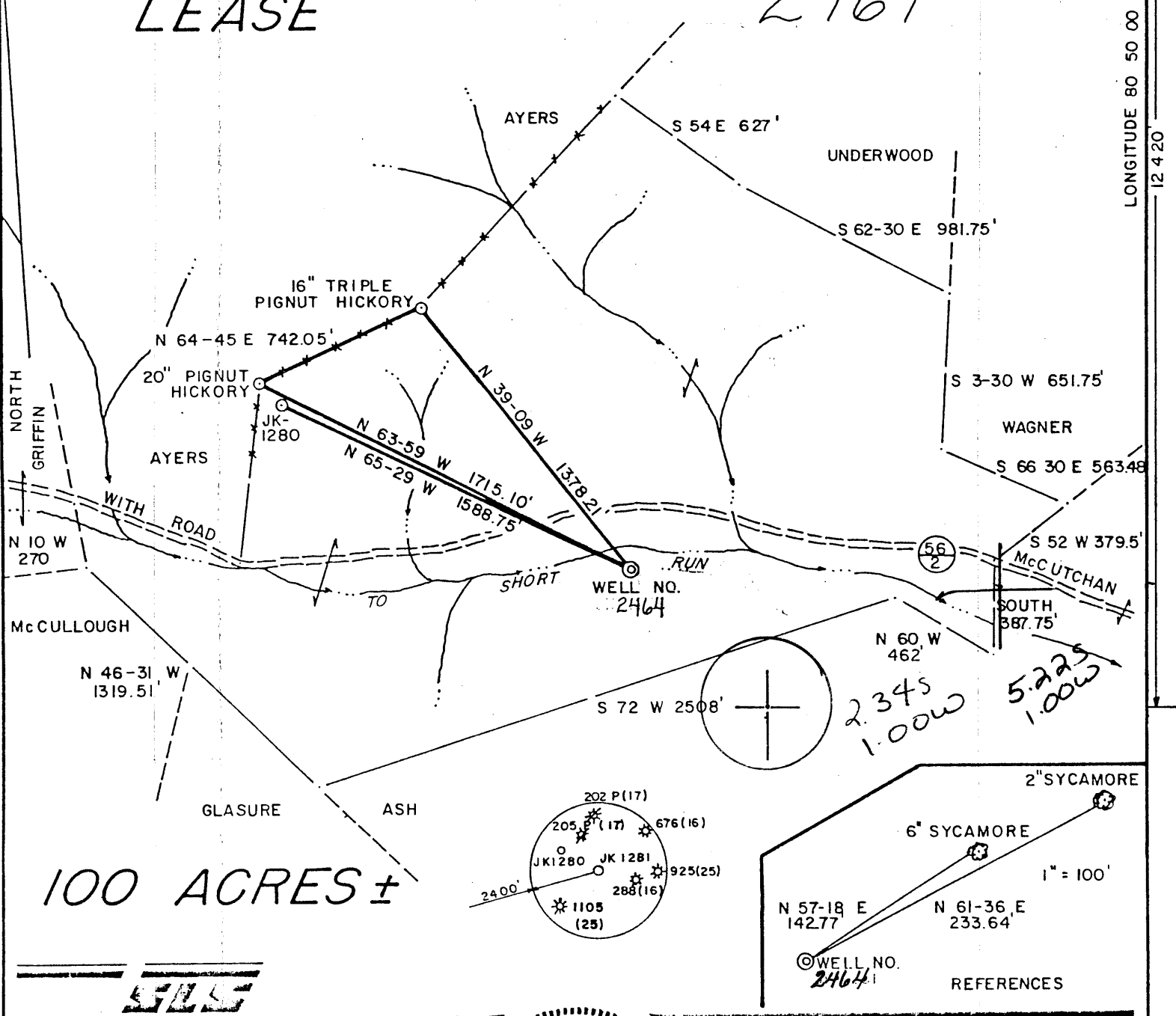
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
ESTIMATED DEPTH 5400'

WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. PETTEY  
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
RUCKHANNON WV 26201 RUCKHANNON, WV 26201

MS 3/10/87

# L. L. JAMES LEASE

# WELL NO. 2464

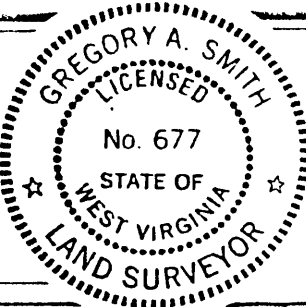


## 100 ACRES ±



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 JUNE 19, 1986  
 OPERATORS WELL NO. 2464  
 API WELL NO. 47 - 095 - 1178  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1488 19-36  
 SCALE 1" = 600'  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1142'

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 800' WATERSHED SHORT RUN  
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'

SURFACE OWNER LAWRENCE L. AND THELMA B JAMES ACREAGE 100 671  
 ROYALTY OWNER S. M. DOAK HEIRS et. al. LEASE ACREAGE 100 133

PROPOSED WORK: LEASE NO. JJ-2153 C5  
 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 5400'

WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. PETTEY  
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

MAR 30 1987

LONGITUDE 80 50 00  
12 420

COUNTY NAME PERMIT

FORM WW-2 (B) FILE COPY  
 (Obtained 7/85)  
**RECEIVED**  
 MAR 05 1987



25  
 1) Date: February 26, 19 87  
 2) Operator's Well No. 2464  
 3) API Well No. 47 State 095 County 1178 Permit

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

4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow   
 5) LOCATION: Elevation: 800 Watershed: Short Run 670  
 District: Centerville County: Tyler 095 Quadrangle: West Union 7.5'  
 6) WELL OPERATOR Union Drilling CODE: 50550 7) DESIGNATED AGENT Joseph C. Pettey  
 Address Post Office Drawer 40 Address Post Office Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Robert Lowther Name Union Drilling, Inc.  
 Address General Delivery Address Post Office Drawer 40  
Middlebourne, WV 26149 Buckhannon, WV 26201  
 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION, Alexander  
 12) Estimated depth of completed well, 5400 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes  / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	X		20	20		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	ERW	23	X		<del>1350</del> 900	<del>1350</del> 900	to surface	Per Rule 15.05
Production	4 1/2	J-55	10.5	X		5400	5400	as required	Depths set
Tubing								By Rule 15.01	01 or 540 SKS
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-095-1178 Date March 25 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires March 25, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plot: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>3381</u> <u>181</u>	WFO: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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John W. Johnston  
 Director, Division of Oil and Gas  
By Margaret J. Hesse

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

4769