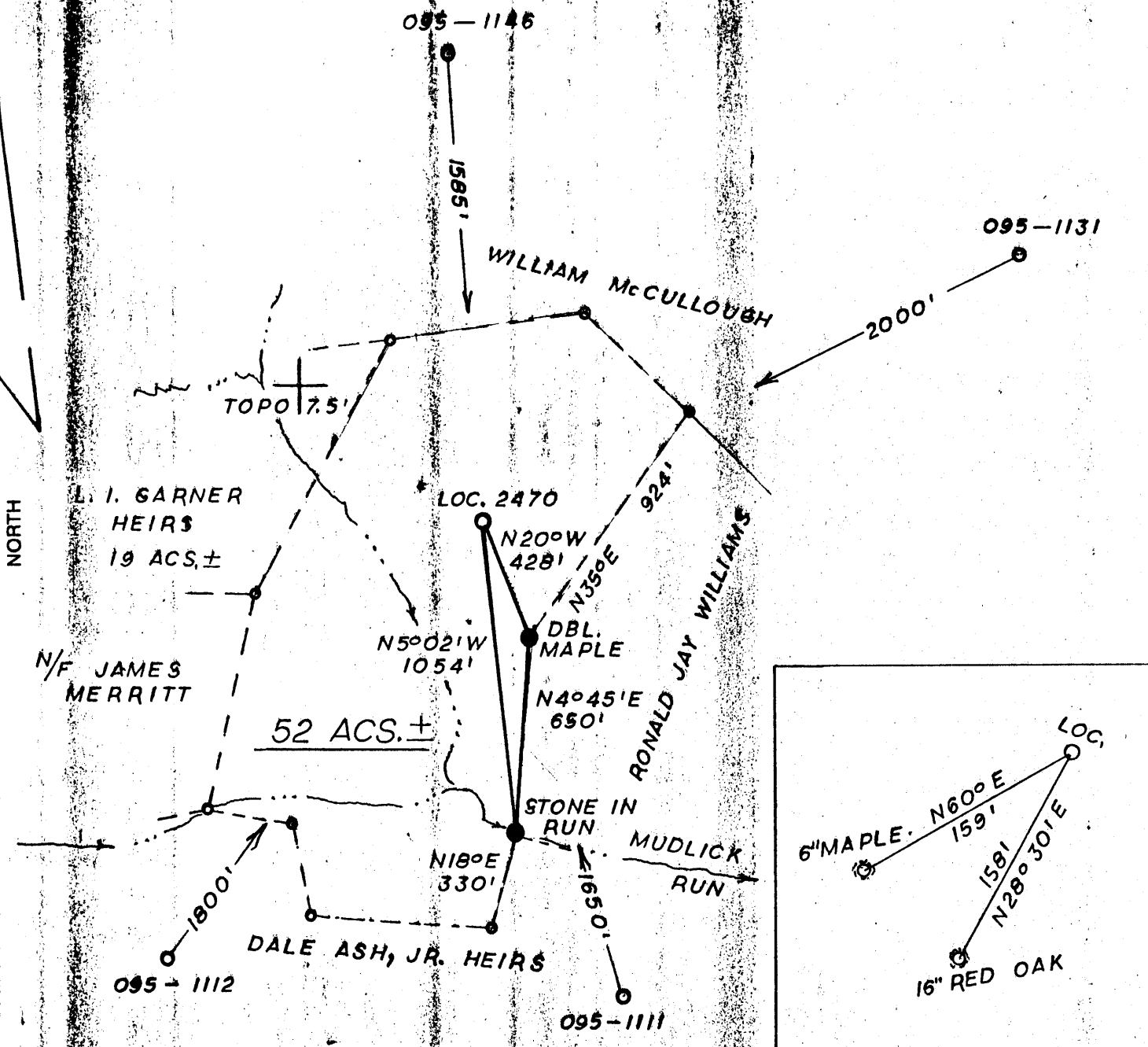


87B 8/14/86

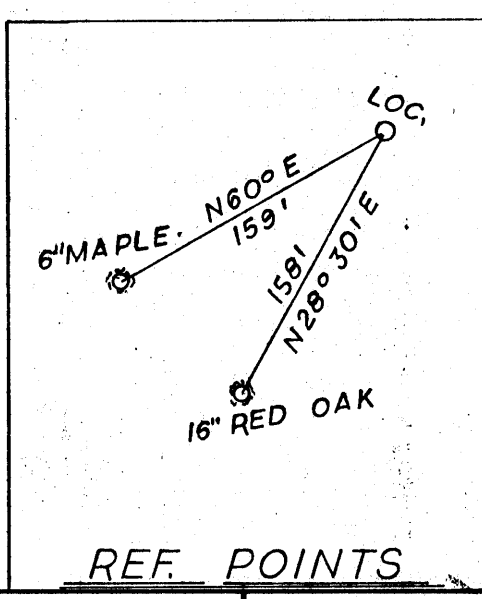
11,700'

LATITUDE 39° 20' 00"

LONGITUDE 80° 05' 00"



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



FILE NO. 4-47
 DRAWING NO. 86-14
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS 5700' S. E. OF LOC.=802

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.
 (SIGNED) Thomas F. Weaver, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE JULY 30, 19 86
 OPERATOR'S WELL NO. 2470
 API WELL NO. 47-095-1159

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1055 WATERSHED MUDLICK RUN
 DISTRICT CENTERVILLE COUNTY TYLER

QUADRANGLE WEST UNION 7.5'

SURFACE OWNER L. I. GARNER OR HIS HEIRS ACREAGE 71
 OIL & GAS ROYALTY OWNER JANICE HASSIG LEASE ACREAGE 52
 LEASE NO. JJ 2146

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5300'

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

CANCELLED

AUG 29 1988

FORM WW-6 H.T. HALL 48673

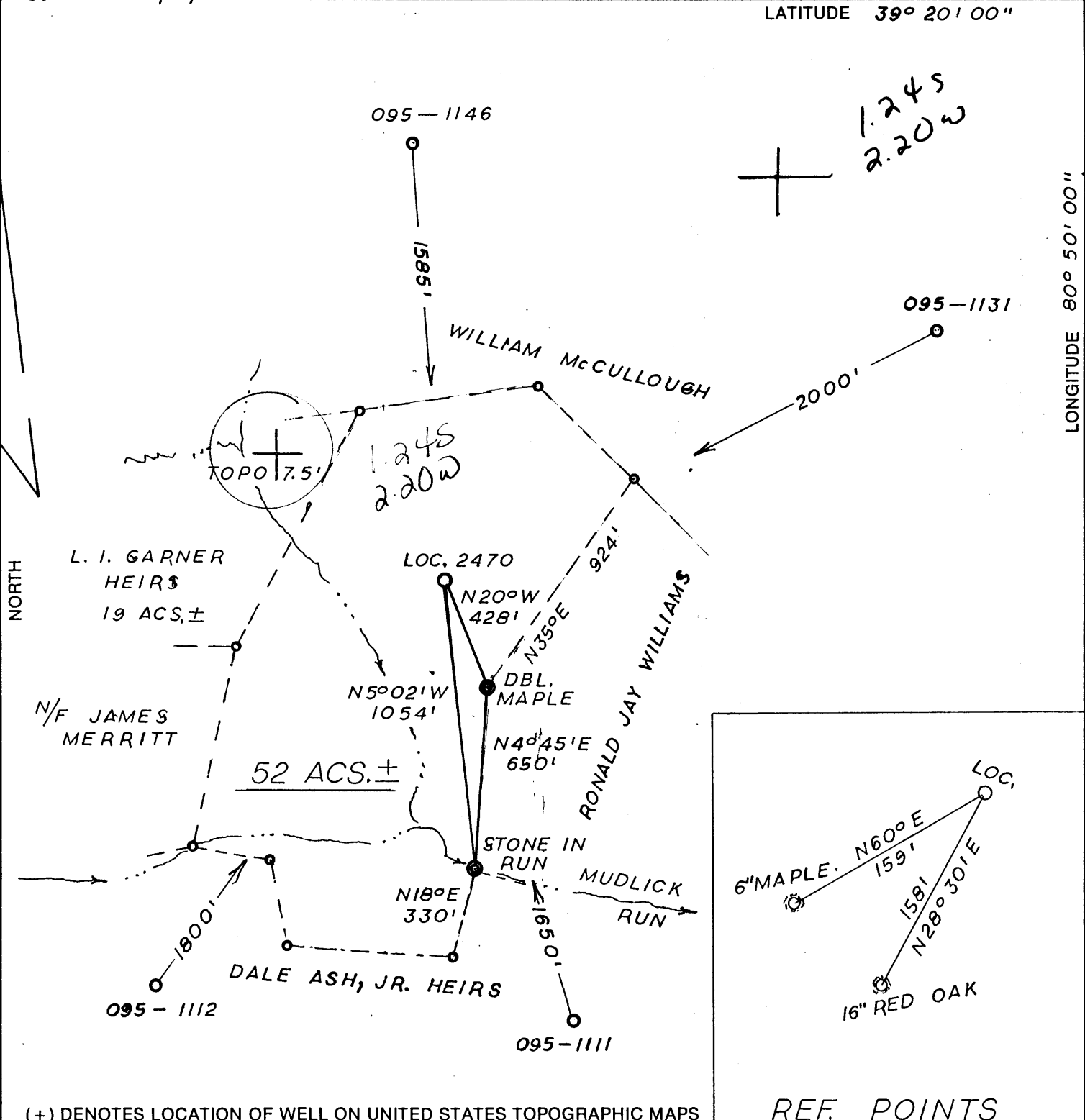
COUNTY NAME TYLER PERMIT 1159

8/14/86

11,700'

LATITUDE 39° 20' 00"

LONGITUDE 80° 05' 08"



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

REF. POINTS

FILE NO. 4-47
 DRAWING NO. 86-14
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS 5700' S. E. OF LOC.=802

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.
 (SIGNED) Thomas F. Weaver, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JULY 30, 1986
 OPERATOR'S WELL NO. 2470
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1055 WATERSHED MUDLICK RUN
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION 7.5' 671 133 SCg
 SURFACE OWNER L.I. GARNER OR HIS HEIRS ACREAGE 71
 OIL & GAS ROYALTY OWNER JANICE HASSIG LEASE ACREAGE 52
 LEASE NO. JJ 2146

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5300'
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. PETTEY
 ADDRESS P. O. DRAWER 40 893 ADDRESS SAME
BUCKHANNON, WV. 26201

OCT 6 1986

TYLER
 COUNTY NAME
 PERMIT

FORM WW-6
 H.T. HALL 48673

FILE COPY
RECEIVED
AUG 13 1986



1) Date: August 11, 1986
2) Operator's Well No. 2470
3) API Well No. 47-095-1159
State _____ County _____ 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 XX /
B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1055' Watershed: Mudlick Run
District: Centerville County: Tyler Quadrangle: West Union 670
- 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 S. W. Jack Drilling Co.
Address General Delivery Address Post Office Box 48
Middlebourne, WV 26149 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate XX /
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5300 feet
- 13) Approximate strata 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	H40	42	X		30'	0'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8	ERW	23	X		1170'	1170'	to surface	Per Rule 15.05 as required by the set Rule 15.09 or 530 SKS
Production	4-1/2	J55	10 1/2	X		5300'	5300'		
Tubing									Perforations:
Lin.									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1159 Date October 2 1986

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 October 2, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ASB</u>	Flat: <input checked="" type="checkbox"/>	Casing: <u>AS</u>	Fee: <u>47825-138</u>	WPOP: <input checked="" type="checkbox"/>	S&E: <u>AS</u>	Other: <u>R.A.L.</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas

File

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

1609