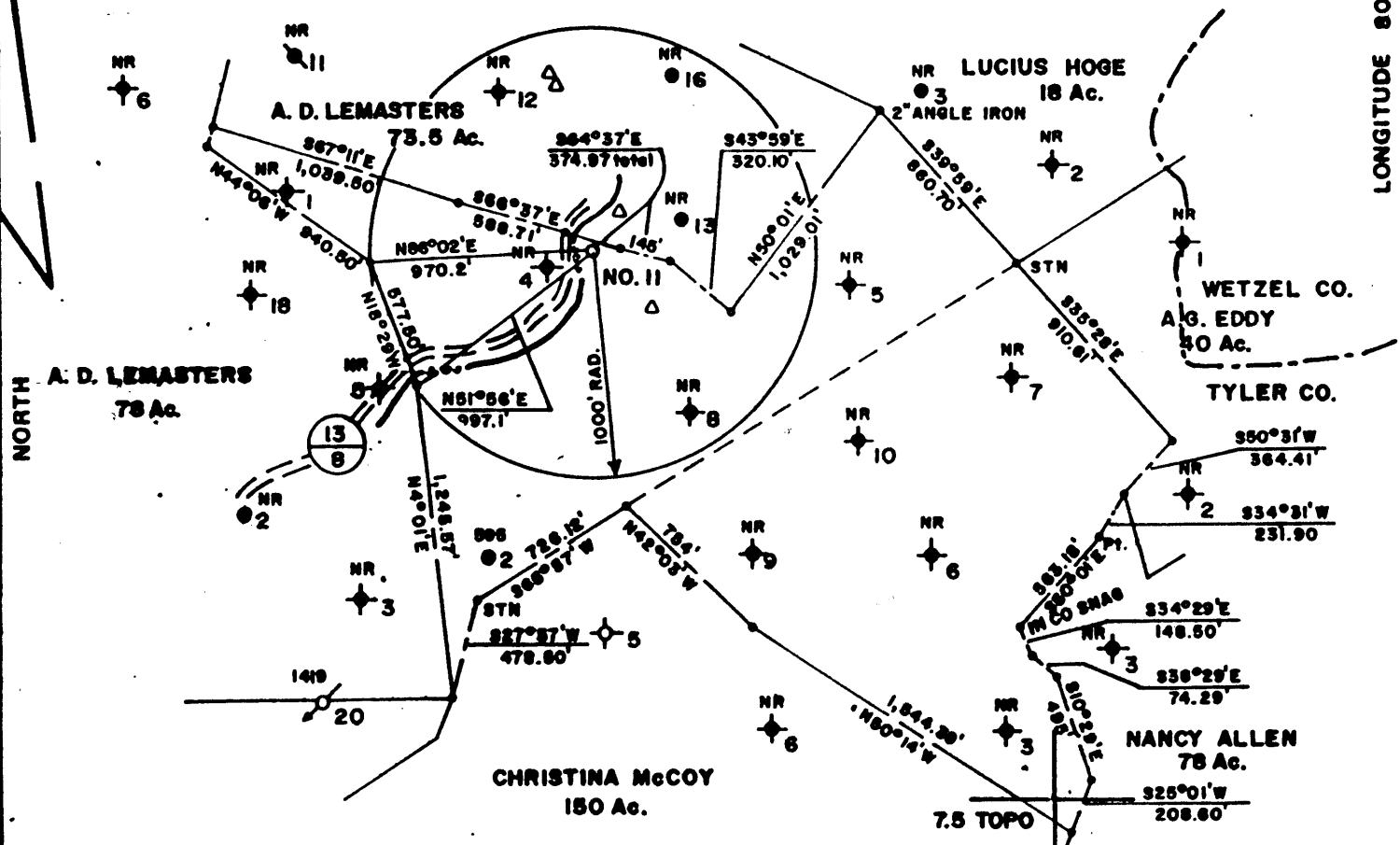


GS 7-14-92

3,900'

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



LOCATION REFERENCES

S53°06'W	148'	TELE POLE
N50°28'W	104'	18" POPLAR
N19°32'E	217'	WSW

● = 1/4" IRON ROD
 △ = WATER SUPPLY SOURCE

FILE NO. 1771
 MAP NO. N47 SQS. N2 W4
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION A.D. LEMASTERS NO. 1
(47-095-0587) = 885.08'

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 MINES.

(SIGNED) Timothy P. Roush
 TIMOTHY P. ROUSH P.S. 793



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 13, 19 92
 FARM S. P. LEMASTERS NO. 11
 API WELL NO. 47-095-1498-L1
 STATE 47 COUNTY 095 PERMIT 1498-L1

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 925' WATER SHED ___
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE CENTER POINT

SURFACE OWNER PAUL M. HAYNES ACREAGE 66
 OIL & GAS ROYALTY OWNER S. GEORGE LEMASTERS LEASE ACREAGE 66
 LEASE NO. 77811-50

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

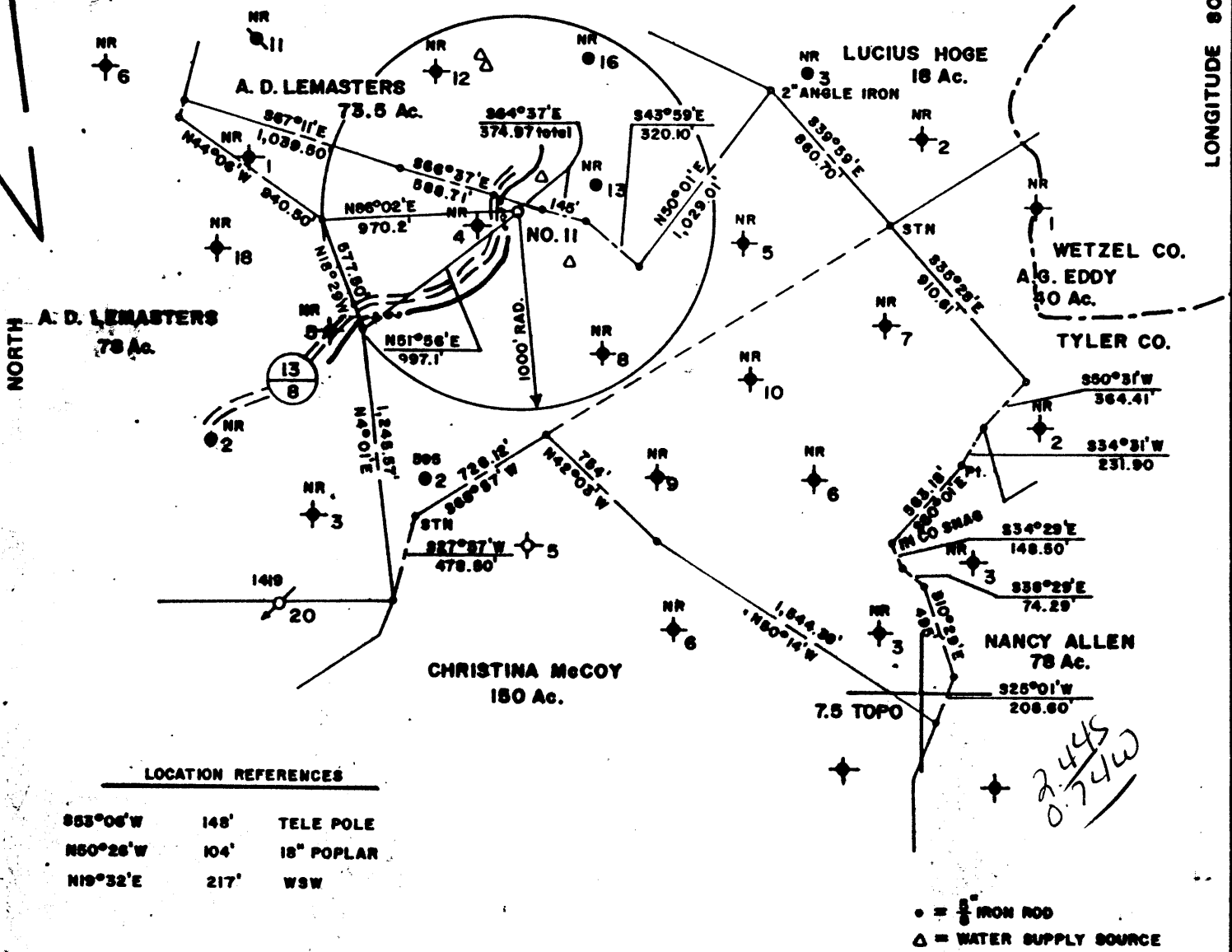
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDON ESTIMATED DEPTH 2,900'
 WELL OPERATOR PENNZOIL PRODUCTS CO. DESIGNATED AGENT JAMES A. CREWS

FORM W-7-8

GS 7-14-92

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



FILE NO. 1771
 MAP NO. N47 SQS. N2 W4
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION A.D. LEMASTERS NO. 1
(47-095-0587) = 885.08'

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 MINES.
 (SIGNED) Timothy P. Roush
 TIMOTHY P. ROUSH P.S. 793

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 13, 19 92
 FARM S. P. LEMASTERS NO. 11
 API WELL NO. 47-095-1498-L1
 STATE TYLER COUNTY TYLER PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 925' WATER SHED ___
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTER POINT 415
 SURFACE OWNER PAUL M. HAYNES ACREAGE 66
 OIL & GAS ROYALTY OWNER S. GEORGE LEMASTERS LEASE ACREAGE 66
 LEASE NO. 77811-50
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

JUL 21 1992

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDON ESTIMATED DEPTH 2,900'
 WELL OPERATOR PENNZOIL PRODUCTS CO. DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 5519 ADDRESS P.O. BOX 5519
VIENNA, WV 26105 673 VIENNA, WV 26105

FORM WW-6



1) Date: July 13, 19 92
 2) Operator's Well No. S.P. LEMASTERS NO. 11
 3) SIC Code _____
 4) API Well NO. 47 - 095 - 1498-L
 State County Permit

STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 for the
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Issued 7/17/92

PERMIT
 Expired 7/17/94
 JUL 14 1992
 WV Division of Environmental Protection

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
 7) LOCATION: Elevation: 925' / District: McElroy / Watershed: Lefthand Fork
 8) WELL OPERATOR Pennzoil Products Co. 37450 / County: Tyler / Quadrangle: Centerpoint
 Address P.O. Box 5519 / 9) DESIGNATED AGENT J.A. Crews
Vienna, WV 26105 / Address P.O. Box 5519
Vienna, WV 26105
 10) OIL & GAS INSPECTOR TO BE NOTIFIED / Name Mike Underwood
 Address Rt. #2 Box 135 / 11) DRILLING CONTRACTOR:
Salem, WV 26426 / Name _____
 Address _____
 12) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____ / Convert _____
 Other physical change in well (specify) _____
 13) GEOLOGICAL TARGET FORMATION: Gordon / Depth 2805 feet (top) to 2825 feet (bottom)
 14) Estimated depth of completed well, (or actual depth of existing well) 2900 ft.
 15) Approximate water strata depths: Fresh, 150 feet; salt, > 150 feet.
 16) Approximate coal seam depths: 735'
 17) Is coal being mined in the area? Yes _____ / No /
 18) Virgin reservoir pressure in target formation 80 psig. Source ESTIMATED
 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2470
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh and produced water from Stringtown field operations with bactericides
 22) FILTERS (IF ANY): _____
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) 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		
Conductor								
Fresh water	8 5/8	LS	20	X		250'	250'	To Surface
Coal								
Intermediate								
Production	4 1/2	M-50	10.5	X		2900'	2900'	Cement over
Tubing								Salt Sand
Liners								

THROUGHOUT AREA OF REVIEW TO BE CONDUCTED BY OPERATOR AND APPROVED BY THE OFFICE OF OIL & GAS PRIOR TO ANY INJECTION OPERATION INCLUDING

25) APPLICANT'S OPERATING RIGHTS were acquired from S.P. Lemasters / by deed _____ / lease / other contract _____ / dated May 18, 19 27, of record in the Tyler County Clerk's office in Deed Book 98 at page 587

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

1) Date July 13, 1992
Operator's
2) Well No. S.P. LEMASTERS NO. 11
3) SIC Code _____
4) API Well No. 47 - 095 - 1498
State County Permit _____

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- | | |
|--|---|
| 6) SURFACE OWNER(S) OF RECORD TO BE SERVED | 7 (i) COAL OPERATOR <u>N/A</u>
Address _____ |
| (i) Name <u>Paul M. Haynes</u>
Address <u>1521 Hamill Avenue</u>
<u>Clarksburg, WV 26301</u> | 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____ |
| (ii) Name _____
Address _____ | 7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____ |
| (iii) Name _____
Address _____ | |

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____, 19____.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

Pennzoil Products Company
Well Operator

By Timothy P. Roush
Its Supervisor - Surveying/Mapping

Telephone (304) 422-6565

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1498-LI

Date July 17th. 19 92

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 (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires 7-17-94 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: AS	Casing: AS	Fee: 4345
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Lee Smith for Michael W. Lewis
Director, Oil and Gas Division

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

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY .

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		
Total depth reached		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____