

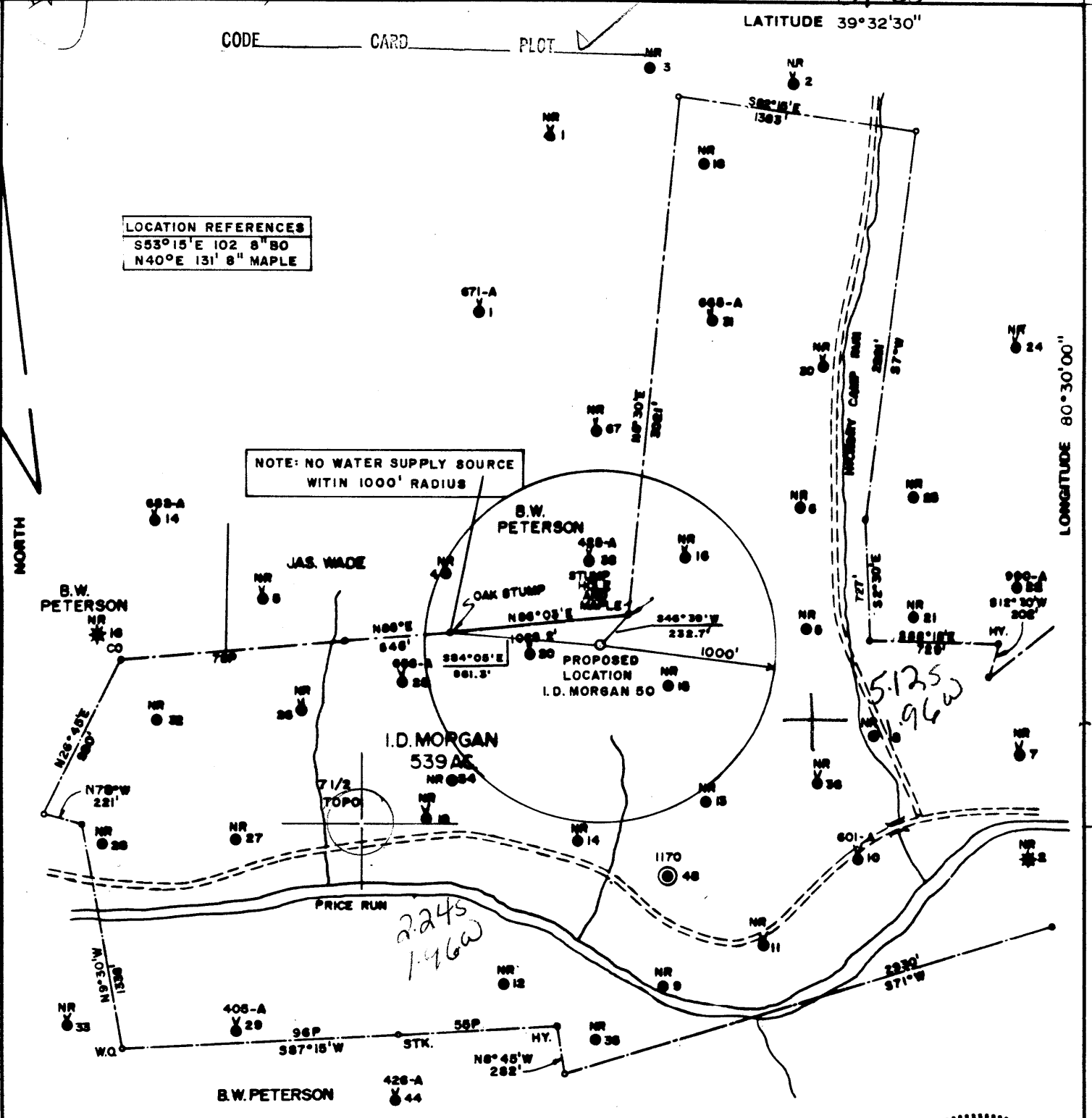
11-5-84

10,320' 39 35" LATITUDE 39°32'30"

CODE _____ CARD _____ PLOT

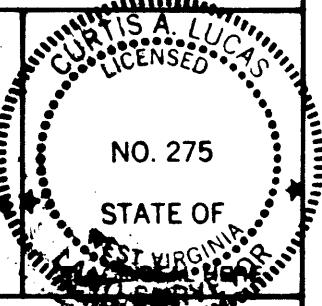
LOCATION REFERENCES
S53°15'E 102 8" B0
N40°E 131' 8" MAPLE

NOTE: NO WATER SUPPLY SOURCE
WITHIN 1000' RADIUS



FILE NO. 487
 MAP N59 SQS N485, E5
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION USGS B.M. AT PRICETOWN ELEV. 895'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE OCTOBER 10,
 FARM I.D. MORGAN NO. 50
 API WELL NO.

47 - 103 - 1319-21

(+) 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 1363' WATER SHED PRICE RUN

DISTRICT GRANT 4 COUNTY WETZEL
 QUADRANGLE BIG RUN 7 1/2' 254 Littleton 15' SE9

SURFACE OWNER BROWN & WITTKAMPER 067 ACREAGE 301.44 AC.
 OIL & GAS ROYALTY OWNER JOSEPH D. MORGAN AGT. LEASE ACREAGE 539 AC.

LEASE NO. 12117-50
 PROPOSED WORK: DRILL 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 3343'
 WELL OPERATOR PENNZOIL COMPANY 673 DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1500 ADDRESS P.O. BOX 1500
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

NOV 13 1984

FORM IV-B (8-78) H. T. HALL

1) Date: October 10, 19 84

2) Operator's Well No. I. D. Morgan No. 50

3) SIC Code _____

4) API Well NO. 47 - 103 - 1319-II
State County Permit

5. UIC Permit No. UIC 2R10301AP

YIPPOU ENTERPRISES
PRIVATE OWNERSHIP

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES, AND FOR
(CLASS II WELLS ONLY)

THE DIVISION OF WATER RESOURCES, DEPARTMENT OF NATURAL RESOURCES

6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____

7) LOCATION: Elevation: 1363 Watershed: Price Run
District: Grant County: Wetzel Quadrangle: Big Run 7.5'

8) WELL OPERATOR Pennzoil Company 9) DESIGNATED AGENT James A. Crews
Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, W. Va. 26101 Parkersburg, W. Va.

10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther 11) DRILLING CONTRACTOR:
Address General Delivery Name _____
Middlebourne, W. Va. 26149 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, Big Injun Depth 2538 feet(top) to 2556 feet(bottom)

14) Estimated depth of completed well, (or actual depth of existing well) 3343 ft. Gordon 3263 3283

15) Approximate water strata depths; Fresh, _____ feet; salt, _____ feet.

16) Approximate coal seam depths: Pittsburgh Coal @ 1153-1160'ox.

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 BI-3120 G - 3435 psig (BHFP)

20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: BI-10Bbl G-10Bbl Bottom hole pressure BI-2120psi; G-2435psi

21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Fresh water from shallow water supply well treated with bactericides and other chemicals to maintain water quality, also

22) FILTERS (IF ANY): cartridges / produced water from waterflood operations will

23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: /be reinjected as becomes necessary

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	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	<u>8-5/8</u>	<u>H-40</u>	<u>20.0</u>	<input checked="" type="checkbox"/>		<u>1213</u>	<u>1213</u>	<u>Cement to surface</u>	
Production	<u>4-1/2</u>	<u>K-55</u>	<u>9.5</u>	<input checked="" type="checkbox"/>		<u>3343</u>	<u>3343</u>	<u>300 sks.</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Jacob Morgan, et al
by deed _____ / lease / other contract _____ / dated May 3, 191893, of record in the
Wetzel County Clerk's office in Lease Book 38 at page 520

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

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103- 1319-LI

November 5

19 84

Date

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 November 5, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
✓	✓	<i>MJ</i>	<i>MJ</i>	18095

Theodore Street MJ
Administrator, Office of Oil and Gas

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	Date(s)
Application received		
Well work started		" "
Total depth reached		" "
Well Record received		" "
Reclamation completed		" "

OTHER INSPECTIONS

Reason:

Reason: