

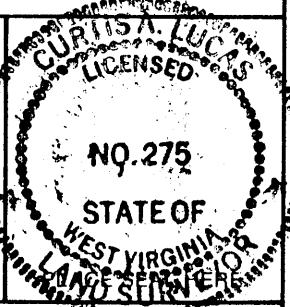
LOCATION REFERENCES

N58°53'E	142.0'	(H.D. = 140.4')	12" BEACH
S40°32'E	138.3'	(H.D. = 127.2')	10" MAP
S27°24'W	117.1'	(H.D. = 114.5')	6" ASH

NOTE: NO WATER SUPPLY WITHIN 1000' R.

FILE NO. 1699
 MAP N47 SQS NI W4
 SCALE 1" = 800
 MINIMUM DEGREE OF ACCURACY 1 IN 200'
 PROVEN SOURCE OF ELEVATION F.R. BALL WELL NO. 18 = 1093'

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

(+) 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 1077' WATER SHED LEFTHAND FORK
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5'
 SURFACE OWNER S.J. McINTYRE & H.R. WRIGHT ACREAGE 93 AC.
 OIL & GAS ROYALTY OWNER PENNZOIL COMPANY LEASE ACREAGE 93 AC.
 LEASE NO. RG-2165-00
 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 3039'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
 PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

DATE MAY 28 1986
 FARM M.H. PENNICK NO. 9
 API WELL NO. 47 - 095 - 1143-LI
 STATE COUNTY PERMIT

CANCELLED

Pennick 9 Rev
 15 Tyler
 1411

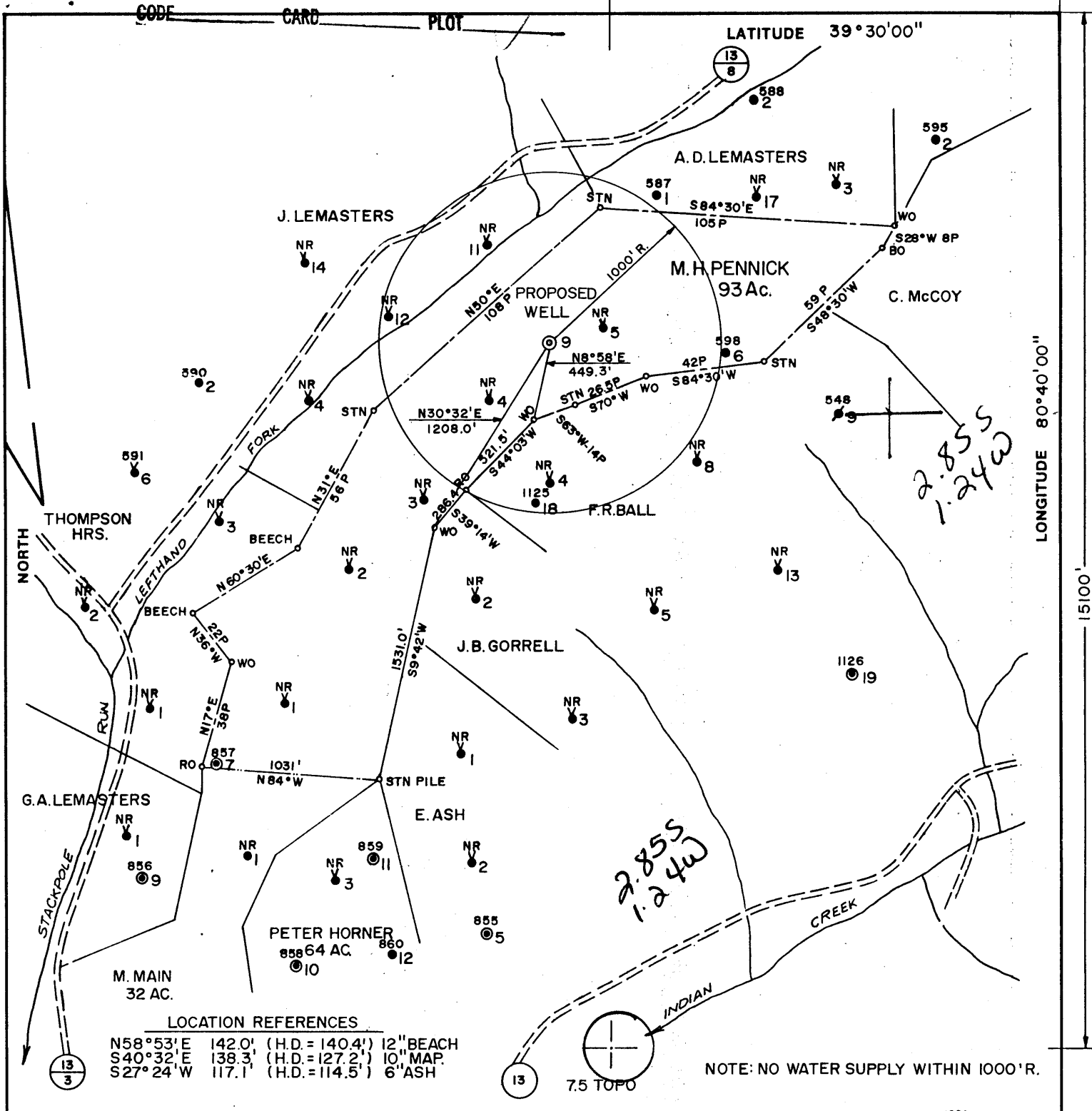
AUG 01 1988



FORM IV-6 (8-78) H. T. HALL

TYLER 1143-LI

673

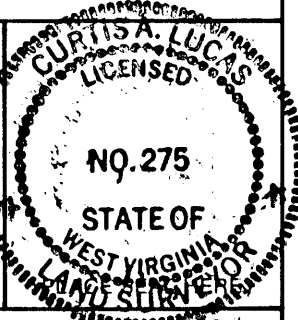


LOCATION REFERENCES
 N58°53'E 142.0' (H.D. = 140.4') 12" BEACH
 S40°32'E 138.3' (H.D. = 127.2') 10" MAP
 S27°24'W 117.1' (H.D. = 114.5') 6" ASH

NOTE: NO WATER SUPPLY WITHIN 1000' R.

FILE NO. 1699
 MAP N47 SQS NI W4
 SCALE 1" = 800
 MINIMUM DEGREE OF ACCURACY 1 IN 200'
 PROVEN SOURCE OF ELEVATION F.R. BALL WELL NO. 18 = 1093'

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 MAY 28 1986
 FARM M.H. PENNICK NO. 9
 API WELL NO. 47 - 095 - 1143-LI
 STATE COUNTY PERMIT

(+) 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 1077' WATER SHED LEFTHAND FORK
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5' 286 022 NW1
 SURFACE OWNER S.J. McINTYRE & H.R. WRIGHT ACREAGE 93 AC.
 OIL & GAS ROYALTY OWNER PENNZOIL COMPANY LEASE ACREAGE 93 AC.
 LEASE NO. RG-2165-00
 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 3039'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
673 PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

JUL 14 1986

FORM IV-6 (8-78) H. T. HALL



1) Date: May 29, 19 86
 2) Operator's Well No. M. H. Pennick #9
 3) SIC Code _____
 4) API Well NO. 47 - 095 - 1143-LI
 State County Permit
 5) UIC Permit No. _____

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

RECEIVED
 JUN 2 1986

DIVISION OF OIL AND GAS
 DEPARTMENT OF ENERGY

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1077 Watershed: _____
 District: McElroy County: Tyler Quadrangle: Centerpoint 7.5'
- 8) WELL OPERATOR Pennzoil Company 9) DESIGNATED AGENT James A. Crews
 Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, WV 26102 Parkersburg, WV
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery
Middlebourne, WV
- 11) DRILLING CONTRACTOR: 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 2964 feet(top) to 2984 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3039 ft.
- 15) Approximate water strata depths; Fresh, 100 feet; salt, 1677 feet.
- 16) Approximate coal seam depths: 877
- 17) Is coal being mined in the area? Yes _____ / No /
- 18) Virgin reservoir pressure in target formation 1260 psig. Source estimated
- 19) Estimated reservoir fracture pressure 3500 psi psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 bbl/hr Bottom hole pressure 2332 psi
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh/produced water treated with bactericides and other chemicals as is necessary to maintain water quality
- 22) FILTERS (IF ANY): cartridge and/or coal bed filters
- 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	Left in well		
Conductor									Kinds
Fresh water	<u>7</u>	<u>H-40</u>	<u>20#</u>	<input checked="" type="checkbox"/>		<u>927</u>	<u>927</u>	<u>Cement to surface</u>	Sizes
Coal									Depths set
Intermediate									Perforations:
Production	<u>4-1/2</u>	<u>K55</u>	<u>9.5</u>	<input checked="" type="checkbox"/>		<u>3039</u>	<u>3039</u>	<u>250 sks</u>	Top
Tubing								<u>50/50 posmix</u>	Bottom
Liners									

25) APPLICANT'S OPERATING RIGHTS were acquired from Alpheus & Martha Glover
 by deed _____ / lease / other contract _____ / dated November 9, 1896, of record in the
Tyler County Clerk's office in Deed Book 30 at page 641

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