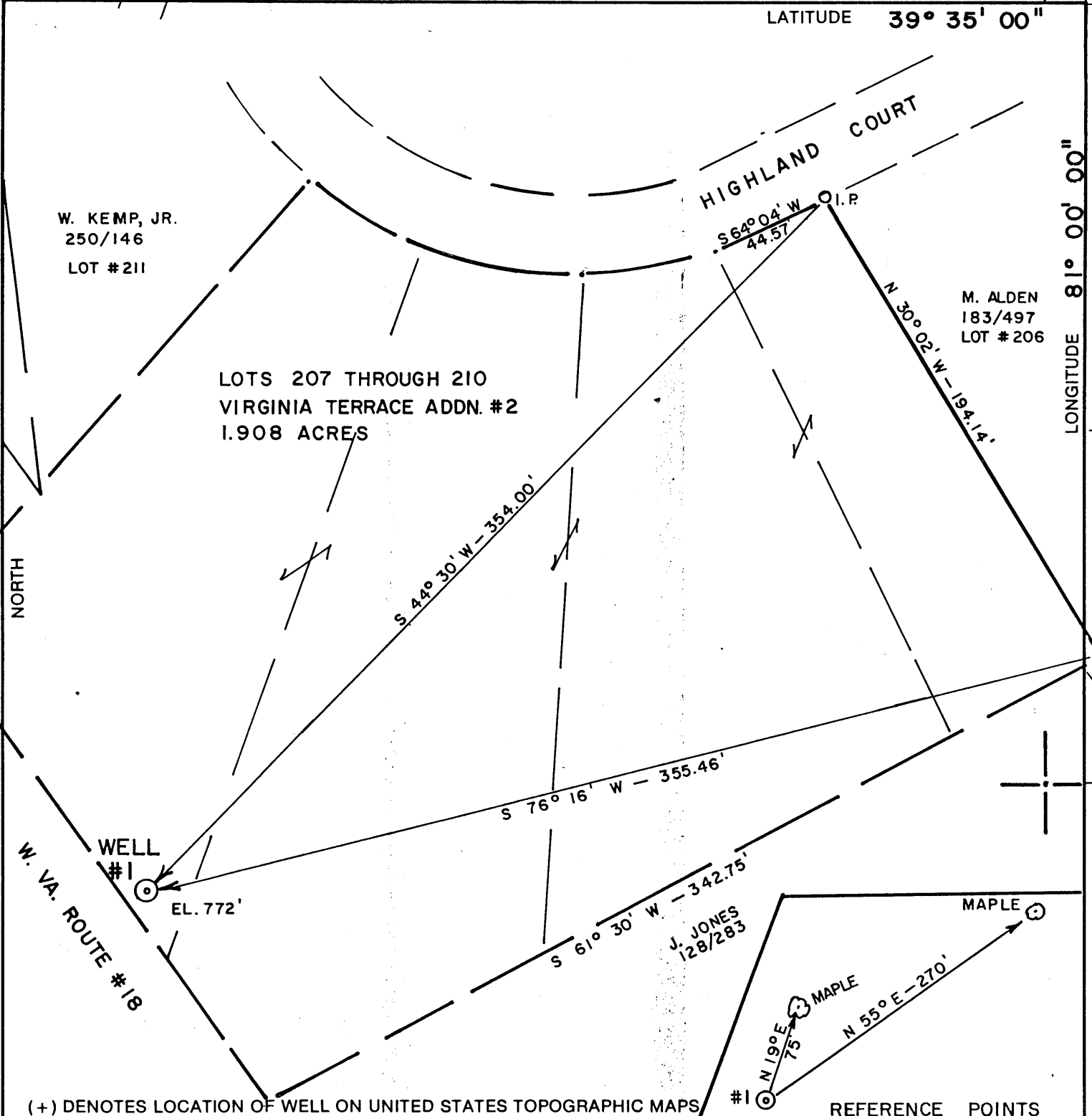


JS 1/31/86

580'

LATITUDE 39° 35' 00"

LONGITUDE 81° 00' 18"



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

REFERENCE POINTS

FILE NO. 85-782
 DRAWING NO. _____
 SCALE 1" = 50'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION B.M. ON RAILROAD (643')

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) Chet Waterman
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 11/25, 19 85
 OPERATOR'S WELL NO. 1
 API WELL NO. _____

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 772 WATER SHED OHIO RIVER
 DISTRICT LINCOLN COUNTY TYLER
 QUADRANGLE NEW MATAMORAS 7.5'
 SURFACE OWNER G. C. SOLES ACREAGE 1.908
 OIL & GAS ROYALTY OWNER E. WELLS HEIRS LEASE ACREAGE 452

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 BIG INJUN ESTIMATED DEPTH 1750'
 WELL OPERATOR SOHIO SHALE OIL CO. DESIGNATED AGENT CHET WATERMAN
 ADDRESS 50 S. MAIN ST., SUITE 930 ADDRESS P.O. BOX 126
SALT LAKE CITY, UTAH 84144 PARKERSBURG, WV 26102-0126

MAR 4 1988

COUNTY NAME TYLER PERMIT 1750

25 1/31/86

CODE CARD PLOT

580

LATITUDE 39° 35' 00"

W. KEMP, JR.
250/146
LOT #211

HIGHLAND COURT
S 56° 04' W - 44.37'

M. ALDEN
183/497
LOT #208

LOTS 207 THROUGH 210
VIRGINIA TERRACE ADDN. #2
1.908 ACRES

S 44° 30' W - 334.00'

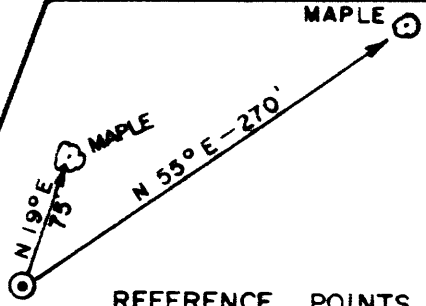
N 30° 02' W - 184.14'

S 76° 16' W - 355.46'

S 61° 30' W - 342.75'

J. JONES
128/283

W. VA. ROUTE #18
WELL #1
EL. 772'



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

REFERENCE POINTS

FILE NO. 85-782
DRAWING NO. _____
SCALE 1" = 50'
MINIMUM DEGREE OF ACCURACY 1' / 200'
PROVEN SOURCE OF ELEVATION B.M. ON RAILROAD (643')

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) Chet Waterman
R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 11/25, 19 85
OPERATOR'S WELL NO. _____
API WELL NO. _____

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 772 WATERSHED OHIO RIVER
DISTRICT LINCOLN 3 COUNTY TYLER
QUADRANGLE NEW MATAMORAS 7.5' 510 092 SEg
SURFACE OWNER E. C. SOLES ACREAGE 1.908
OIL & GAS ROYALTY OWNER E. WELLS HEIRS LEASE ACREAGE 452

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 BIG INJUN ESTIMATED DEPTH 1750'
WELL OPERATOR SOHIO SHALE OIL CO. DESIGNATED AGENT CHET WATERMAN
ADDRESS 70 S. MAIN ST., SUITE 230 ADDRESS P.O. BOX 126
SALT LAKE CITY, UTAH 84144 PARKERSBURG, WV 26102-0126

RECEIVED
JAN 17 1988



1) Date: JANUARY 2, 1986
 2) Operator's Well No. 1
 3) API Well No. 47 095-1130
 State County Permit

STATE OF WEST VIRGINIA -
 DIVISION OF 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: 772' Watershed: OHIO RIVER
 District: LINCOLN 710 County: TYLER Quadrangle: NEW MATAMOPAS 7.5'
- 6) WELL OPERATOR: SOHIO SHALE OIL CODE: 46280 7) DESIGNATED AGENT CHET WATERMAN
 Address 50 SOUTH MAIN STREET, SUITE 930 Address 1704-18th STREET
SALT LAKE CITY, UTAH 84144 PARKERSBURG, WV 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT LOWTHER
 Address MIDDLEBOURNE, WV 26149
- 9) DRILLING CONTRACTOR: Name TO BE NAMED LATER
 Address _____
- 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, BIG INJUN
- 12) Estimated depth of completed well, 1050' 1750' feet
- 13) Approximate trata depths: Fresh, 100' 572' feet; salt, _____ feet.
- 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	7"			X		300'	300'	CIRCULATED	TO SURFACE By RULE \$5.05
Coal									
Intermediate									
Production	4 1/2"			X		1550'	1550'	60 sacks	Depths set
Tubing								OR AS REQUIRED BY RULE	Perforations: 15.01
Lin...									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1130

February 14 19 86
 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 reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 14, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>ALB</u>	Plat: <u>MS</u>	Casing: <u>JS</u>	Fee: <u>485305</u>	WBPC: <u>JS</u>	S&E: <u>JS</u>	Other:
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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.