

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

FILE NO. 84-80
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1"/200'
 PROVEN SOURCE OF ELEVATION HUNTER HILL (885')

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) Chester B. Waterman
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 2/16, 1984
 OPERATOR'S WELL NO. 1
 API WELL NO. _____

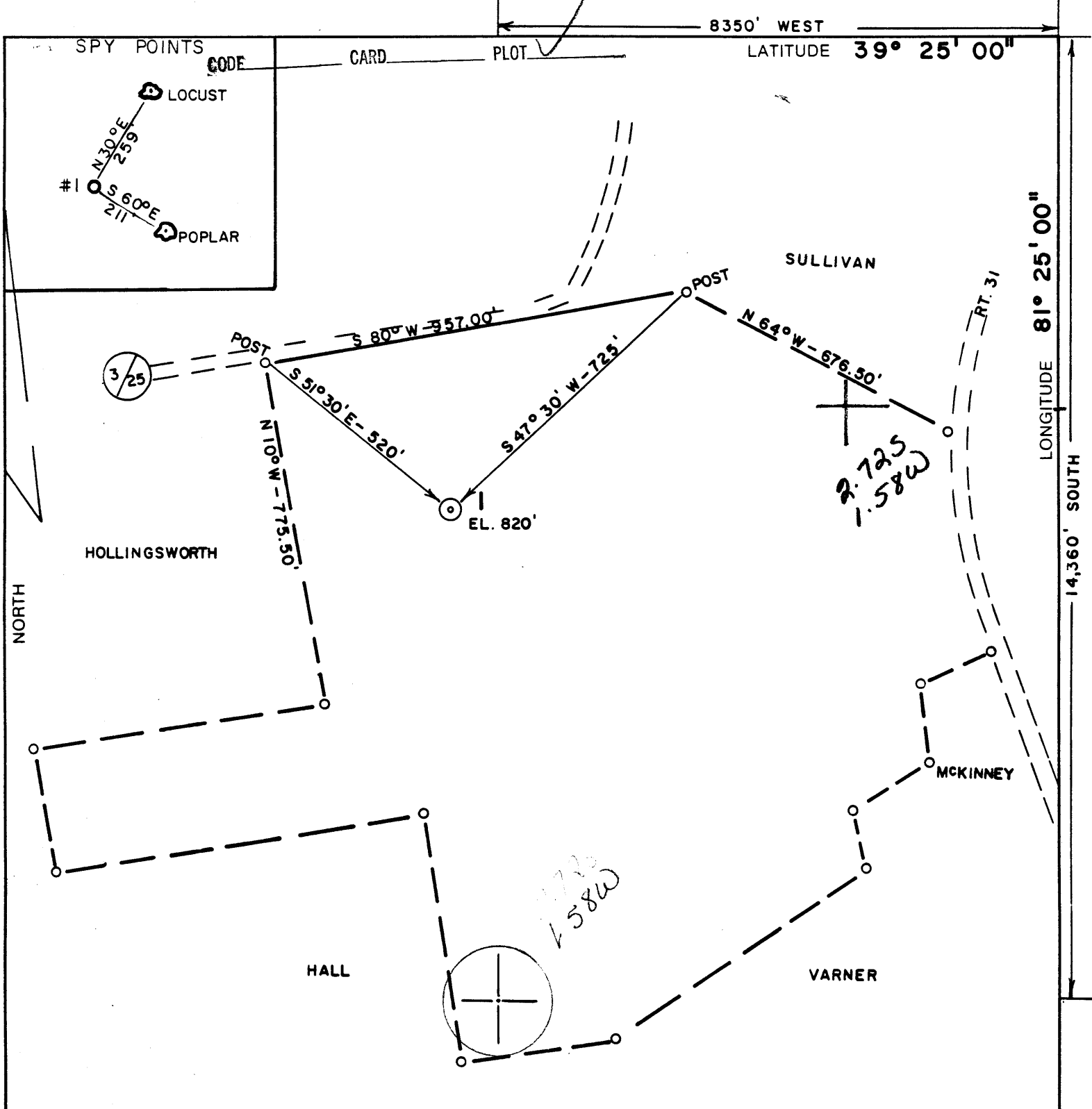
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 820' WATER SHED WILLIAMS CREEK
 DISTRICT WILLIAMS COUNTY WOOD
 QUADRANGLE MARIETTA 7.5'
 SURFACE OWNER R. MAIDENS ACREAGE 58
 OIL & GAS ROYALTY OWNER R. MAIDENS LEASE ACREAGE 58

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 MARCELLUS SHALE ESTIMATED DEPTH 4000' APR 13 1987.
 WELL OPERATOR AMERICAN PETROEL, INC. DESIGNATED AGENT BILL SMITH
 ADDRESS 409 SECOND STREET MARIETTA, OHIO 45750 ADDRESS PARKERSBURG, WV 26101

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

WOOD COUNTY NAME PERMIT 1328



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

FILE NO. 84-80
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1' / 200'
 PROVEN SOURCE OF ELEVATION HUNTER HILL (885')

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) *Chas Waterman*
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 2/16, 19 84
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-107-1328
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 820 WATER SHED WILLIAMS CREEK
 DISTRICT WILLIAMS 0 450 COUNTY WOOD
 QUADRANGLE MARIETTA 7.5' x 15' WC 4

SURFACE OWNER R. MAIDENS 073 ACREAGE 58
 OIL & GAS ROYALTY OWNER R. MAIDENS LEASE ACREAGE 58

LEASE NO. _____

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 MARCELLUS SHALE ESTIMATED DEPTH 4000'
 WELL OPERATOR AMERICAN PETROEL, INC. DESIGNATED AGENT BILL SMITH
 ADDRESS 409 SECOND STREET 018 MARIETTA, OHIO 45750 ADDRESS PARKERSBURG, WV 26101

DEC 03 1984

FORM IV-6 (8-78)

COUNTY NAME PERMIT

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FILE COPY

NOV 17 1984



1) Date: Sept. 04, 19 84
 2) Operator's Well No. Maidens # 1
 3) API Well No. 47 - KMM 107 - 1328
 State _____ County _____ Permit _____

OIL & GAS DIVISION DEPARTMENT OF MINES, OIL AND GAS DIVISION
DEPT. OF MINES APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 820' Watershed: Williams Creek
 District: Williams County: Wood Quadrangle: Marietta 7.5'
- 6) WELL OPERATOR American Petroel, Inc. 7) DESIGNATED AGENT William T. Smith
 Address 111 W. Montgomery St. Address 2824 Cleveland Ave.
Marietta, Ohio 45750 Parkersburg, W.V. 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Glen P. Robinson Name _____
 Address Rt. 1, Mt. Pleasant Estate Address _____
Mineral Wells, W.V. 26150
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X SEP 7 - 1984
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale
 12) Estimated depth of completed well, 4000 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No X /

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 OIL & GAS DIVISION
 DEPT. OF MINES

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	<u>13 3/8</u>	<u>H40</u>	<u>40</u>	<u>X</u>		<u>60</u>	<u>0</u>		Kinds
Fresh water	<u>8 5/8</u>	<u>H40</u>	<u>28</u>	<u>X</u>		<u>600</u>	<u>600</u>	<u>200 sx</u>	<u>CTS NEAT</u>
Coal									Sizes
Intermediate									
Production	<u>4 1/2</u>	<u>K55</u>	<u>10.5</u>	<u>X</u>			<u>4000</u>	<u>350 sx</u>	Depths set
Tubing								<u>or as required by rule</u>	
Liners									Perforations: <u>15.01</u>
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1328 Date November 16, 19 84

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 November 16, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
<u>SB</u>	<u>MN</u>	<u>TS</u>	<u>MLI</u>	<u>1128</u>

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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