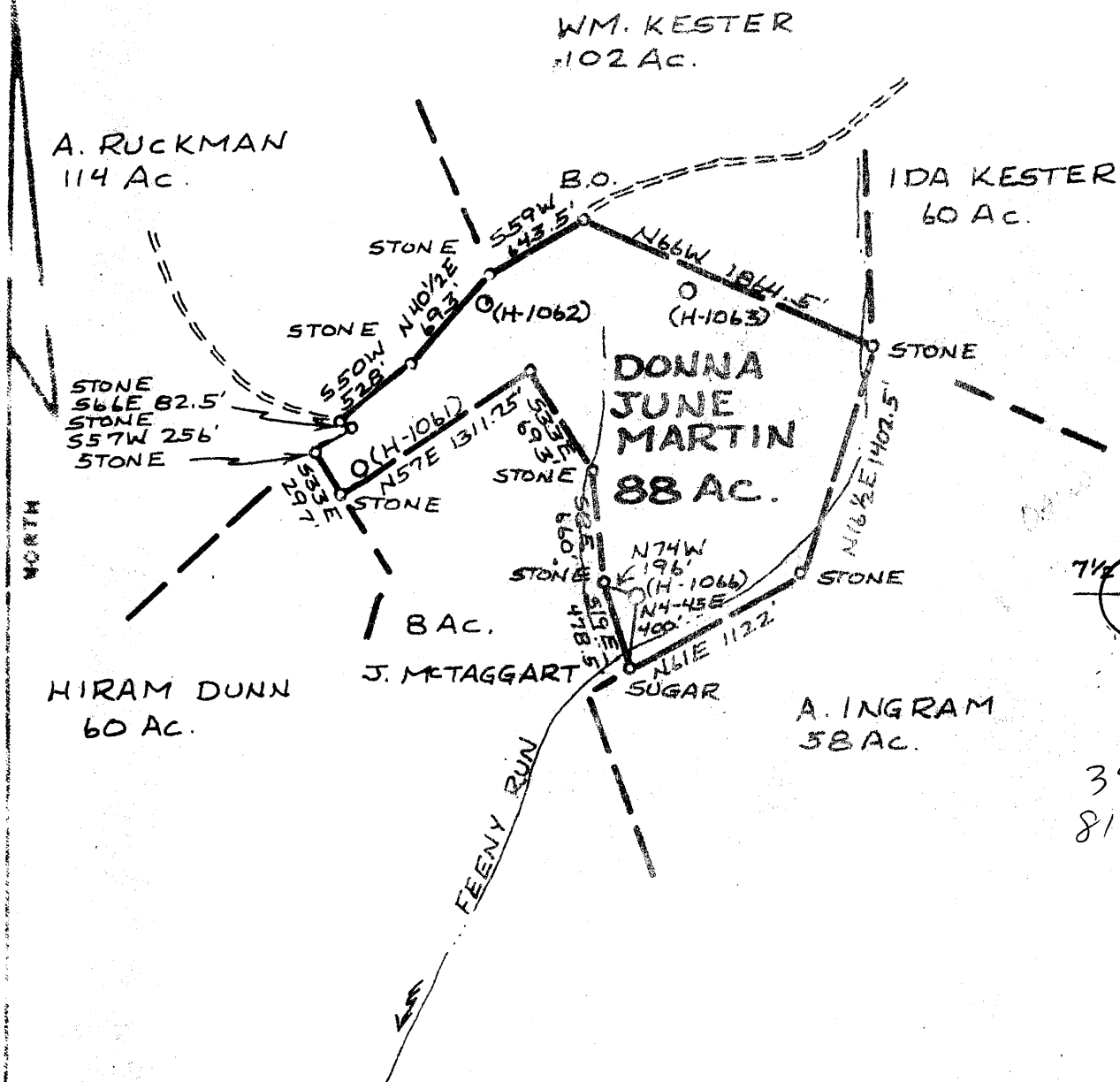


LATITUDE 39° 22 1/2'
 (15') 39° 25'
9,160' SOUTH
2,140' WEST

LONGITUDE 81° 15'



7/4
 39 21 00
 81 15 30
 0.41W

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD ELE. 927'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND FURNISHES ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) William F. Mosser
 R.P.S. _____ S.S. 551

PLACE SEAL HERE

(+) DEPICT LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE 21 JULY 1980
 OPERATOR'S NO. L NO H-1066
 API WELL NO. 47-073
 STATE COUNTY 916 PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 808' WATER SHED FEENEY RUN
 DISTRICT JEFFERSON COUNTY PLEASANTS
 QUADRANGLE WILLOW ISLAND, W.VA. 7 1/2' QUAD, MARIETTA 15' EC
 SURFACE OWNER DONNA JUNE MARTIN ACRES 88
 OIL & GAS ROYALTY OWNER DONNA JUNE MARTIN LEASE ACRES 88
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION SHALE ESTIMATED DEPTH 3500'
 WELL OPERATOR HAUGHT INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS SMITHVILLE, W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178
 AUG 15 1980

6-6 Belmont (76)

RECEIVED

MAR - 4 1981

Date: November 18, 19 80

Operator's Well No. H-1066

API Well No. - 073 - 0916
State County Permit

STATE OF WEST VIRGINIA
DEPT. OF MINES, OIL AND GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF
DRILLING, FRACURING AND/OR STIMULATIONS, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection _____ Waste Disposal _____
(If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
LOCATION: Elevation: 808' Watershed: Feeny Run
District: Jefferson County: Pleasants Quadrangle: Willow Island, WV 7 1/2'
WELL OPERATOR Haight, Inc. DESIGNATED AGENT Warren R. Haight
Address Rt. 3 Box 14 Address Smithville, WV 26178
Smithville, WV 26178

PERMITTED WORK: Drill X / Convert _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

PERMIT ISSUED ON August 4, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Phillip L. Tracy
Address P.O. Box 173
_____, 19 _____ Middlebourne, W.V. 26149

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 1945 to 3768 feet
Depth of completed well, 3768 feet Rotary X / Cable Tools _____
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced September 26, 19 80, and completed October 4, 19 80

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								Rands
Fresh water	8-5/8	K-55	20#	X		920	920	120 sacks
Coal								Sizes
Intermediate								
Production	4 1/2	J-55	10.5#	X			3692'	380 sacks
Tubing								
Liners								Perforations:
								Top Bottom
								3302 3644

OPEN FLOW DATA

160 MCF + 10 BOPD

Producing formation Devonian Shale Pay zone depth 1945 to 3768 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
" Final open flow, 160 Mcf/d Final open flow, 10 Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 450 psig (surface measurement) after 12 hours shut in

[If applicable due to multiple completion--]
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

MAR 23 1981

WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Nitrogen fraced by B.J. Hughes -- 10/15/80-- 875,000 SCF.

Perforations: 16: 3302 -- 3544

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0	15	
Shale			15	122	
Red Rock			122	138	
Shale			138	144	
Red Rock			144	155	
Shale			155	181	
Red Rock			181	199	
Yellow Rock			199	208	
Red Rock			208	245	
Shale			245	289	
Red Rock			289	303	
Shale			303	320	
Red Rock			320	358	
Shale			358	364	
Red Rock			364	375	
Shale			375	473	
Red Rock			473	511	
Shale			511	516	
Red Rock			516	525	
Shale			525	662	
Sand			662	715	
Red Rock			715	717	
Slate/Shale			717	945	
Sand			945	1070	
Slate/Shale			1070	1320	
Big Lime			1320	1430	
Big Injun			1430	1550	
Shale			1550	1925	
Sand			1925	1945	
Devonian Shale			1945	3768	T.D.

NOTE: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations, including coal, encountered in the well."

Haight, Inc.
Well Operator
By Walter R. Haight
Its President

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /
(If "Gas", Production X / Underground storage _____ Deep _____ Shallow X)
LOCATION: Elevation: 808 Watershed: Feeny Run
District: Jefferson County: Pleasants Quadrangle: Willow Island, WV 7 1/2

WELL OPERATOR Haught, Inc. DESIGNATED AGENT Warren R. Haught
Address Route 3, Box 14 Address Smithville, WV 26178
Smithville, WV 26178

OIL & GAS ROYALTY OWNER Donna June Martin COAL OPERATOR None
Address Rt. 2 Box 161 Address _____
Washington, WV 26181

Acreage 88 acre portion COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Donna June Martin Name _____
Address Rt. 2, Box 161 Address _____
St. Marys, WV 26170 Name _____
Acreage 91 1/2 Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____
Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy
Address P.O. Box 173
Middlebourne, W.V. 26149

RECEIVED
JUL 29 1980

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X / other contract _____ / dated April 28, 19 80, to the undersigned well operator from Donna June Martin

[If said deed, lease, or other contract has been recorded:]
Recorded on May 9, 1980, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in Deed Book 155 at page 605. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 343-3092

Haught, Inc.
Well Operator
By Warren R. Haught
Its President

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Haight, Inc.
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 3500 feet Rotary Cable tools _____
Approximate water strata depths: Fresh, 75 feet; salt, _____ feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes _____ No

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	8 5/8	K-55	20#	X		200'	200'	75 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			3500	100 sacks	Depths set
Casing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-3c from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 4-4-81.

John B. Burdette
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a Reclamation under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____
Its _____