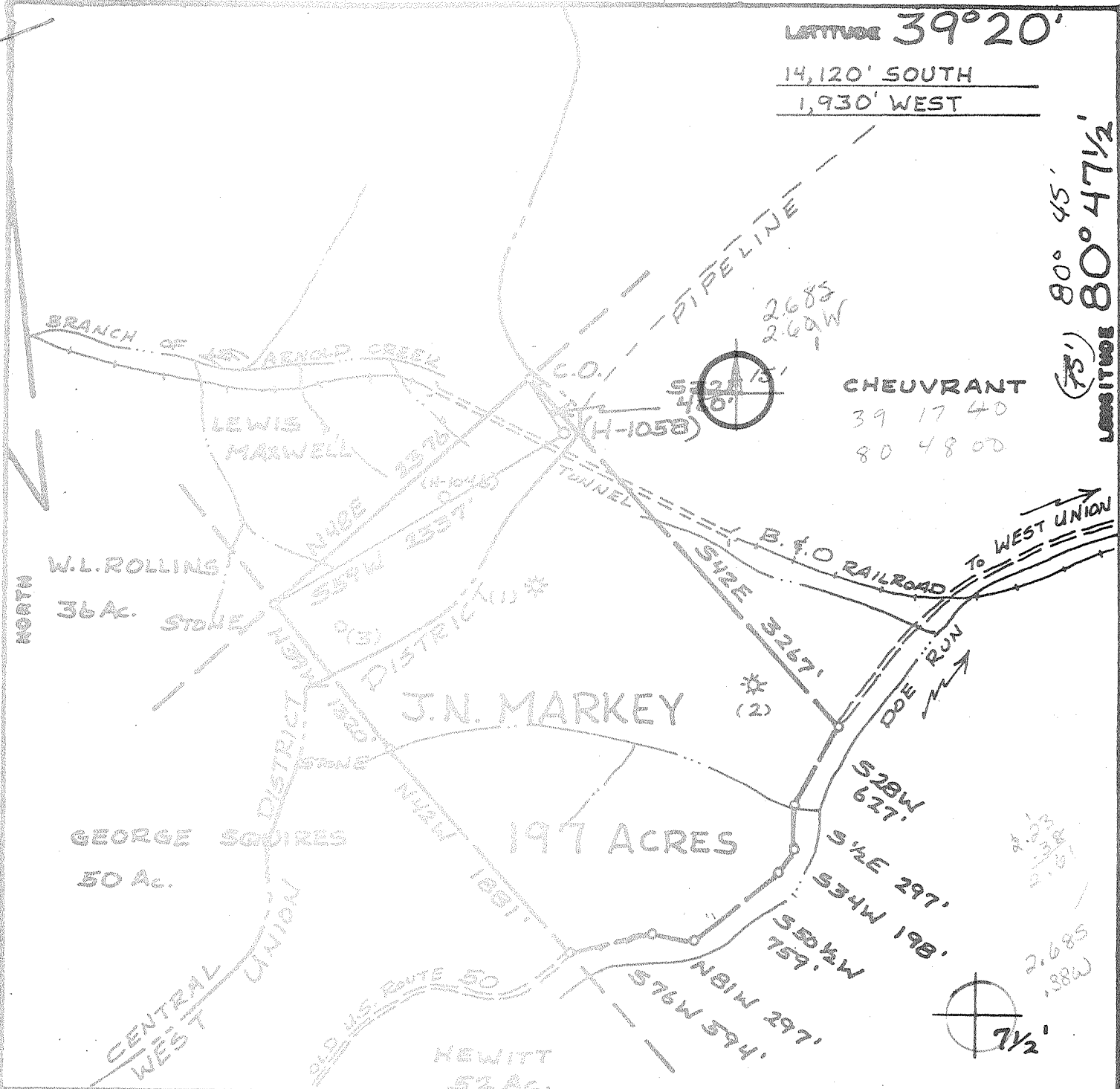


LATITUDE 39° 20'

14,120' SOUTH

1,930' WEST

LONGITUDE 80° 47 1/2'



CHEUVRANT
 39 17 40
 80 48 00



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION B.M. 278

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) William R. Massol
 R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



DATE 27 AUGUST, 1980
 OPERATOR'S WELL NO H-1058
 API WELL NO 47-017-2823
 STATE COUNTY 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 1243' WATER SHED ARNOLD CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE WEST UNION, W.VA. T/4 QUAD. 38
 SURFACE OWNER KEALIN ACREAGE 171 Ac.
 OIL & GAS ROYALTY OWNER J. N. MARKEY LEASE ACREAGE 197
 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) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION WVIF ESTIMATED DEPTH 2500'
 WELL OPERATOR HAUGHT, INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS SMITHVILLE, W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178

66 CENTRAL STATION

89-91

SEP 25 1980

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

WELL OPERATOR'S REPORT 9
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", Production Underground storage Deep Shallow
LOCATION: Elevation: 1243' Watershed: Arnold Creek
District: Central County: Doddridge Quadrangle: West Union, W.V. 7 1/2
WELL OPERATOR Haught, Inc. J.N. Markey H-1058
Address Rt. 3 Box 14 DESIGNATED AGENT Warren R. Haught
Smithville, WV 26178 Address Smithville, WV 26178

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

PERMIT ISSUED ON September 10, 1980, OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR RERWORKING. VERBAL PERMISSION OBTAINED) Address 321 Beeth Street
Clarksburg, W.V. 26301

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2220 to 2290 feet
Depth of completed well, 2350 feet Rotary Cable Tools
Water strata depth: Fresh, 50 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced September 18, 1980, and completed September 22, 1980

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								Kinds
Fresh water	8-5/8	K-55	20#	X		554	554	80 sacks
Coal								Sizes
Intermediate								
Production	4 1/2	J-55	10.5#	X				Depths set
Tubing								Perforations:
Liners								Top Bottom

RECEIVED
JAN 13 1981

OPEN FLOW DATA

Producing formation Big Injun Pay cone depth 2220 to 2290 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
" Final open flow, 1,000 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 560 psig (surface measurement) after 12 hours shut in
[If applicable due to multiple completion--]
Second producing formation _____ Pay cone 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

(Continue on reverse side)

JAN 26 1981

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

NATURAL

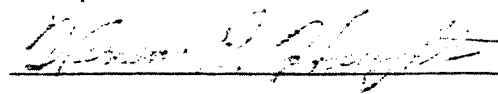
WELL LOG

FORMATION	Color	Hard or Soft	9		Remarks Including indication of all fres and salt water, coal, oil and ga
			Top Feet	Bottom Feet	
Surface Pipe					
Slate			565	679	
Sand			679	735	
Slate			735	842	
Sand			842	857	
Slate			857	926	
Red Rock			926	952	
Slate			952	1020	
Red Rock			1020	1041	
Slate			1041	1054	
Red Rock/Slate			1054	1095	
Sand			1095	1103	
Slate			1103	1175	
Red Rock			1175	1200	
Sand			1200	1240	
Shale			1240	1325	
Sand			1325	1430	
Shale			1430	1484	
Sand			1484	1554	
Slate			1554	1572	
Sand			1572	1585	
Slate			1585	1621	
Shale			1621	1636	
Sand			1636	1665	
Shale			1665	1671	
Sand			1671	1726	
Slate			1726	1740	
Sand			1740	1784	
Slate			1784	1800	
Sand			1800	1811	
Slate			1841	1847	
Sand			1847	1856	
Slate			1856	1861	
Sand			1861	1921	
Slate			1921	1975	
Shale			1975	2086	
L. Lime			2086	2100	
Shale			2100	2130	
B. Lime			2130	2220	
Injun			2220	2290	
Slate			2290	2350	T.D.

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

Haught, Inc.
Well Operator

By 
Its President

Date: August 29, 1980

Operator's Well No. H-1058

API Well No. 27-017-2823
State County Permit

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: 1243' Watershed: Arnold Creek
District: Central County: Doddridge Quadrangle: West Union, W.V. 7 1/2'

WELL OPERATOR Haught, Inc.
Address Route 3, Box 14
Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER J.N. Markey
Address Lexington, KY.

COAL OPERATOR None
Address _____

Acres 197

COAL OWNER(S) WITH DECLARATION ON RECORD
Name _____

SURFACE OWNER Kenneth Powell
Address West Union, W.V. 26456

Address OIL & GAS DIVISION
DEPT. OF MINES

Acres 197

Name _____

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

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beeth Street
Clarksburg, W.V. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

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 August, 1980, to the undersigned well operator from J.N. Markey & Kenneth Powell
[If said deed, lease, or other contract has been recorded:]

Recorded on August 9, 1980, in the office of the Clerk of the County Commission of Ritchie County, West Virginia, in Lease Book 116 at page 413. 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) 348-3092

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, Weir
Estimated depth of completed well, 2500' feet Rotary / Cable tools _____
Approximate water strata depths: Fresh, 50 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	(To Surface)
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			2500	100 sacks	Depths set
Tubing									
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-3, "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 § 22-4-3a 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.

THE PERMIT MUST BE POSTED AT THE WELL SITE

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 5-10-81.

Thomas E. Huzzey
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 declaration 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 _____