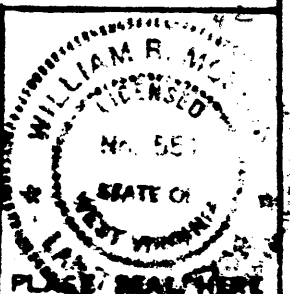


FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION H.G. PT. 1123'

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. M...*
 R.P.E. _____ L.L.S. 551



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



DATE 21 OCTOBER, 19 81
 OPERATOR'S WELL NO H-1284
 API WELL NO. 47-085-5340
 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 1038' WATER SHED LOCUST RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE MACFARLAN 7 1/2' QUAD. NARRISVILLE 15' EC
 SURFACE OWNER W.V.A. PULP AND PAPER ACREAGE 321
 OIL & GAS ROYALTY OWNER MARY E. SEWELL & GORDON KIBBEE LEASE ACREAGE 321
 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 SHALE ESTIMATED DEPTH 4500'
 WELL OPERATOR HAUGHT, INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS SMITHVILLE, W.V.A. 26178 ADDRESS SMITHVILLE, W.V.A. 26178

NOV 19 1981

Reviewed TM6
Recorded _____



WR-35

Enviro
FEB 19 93
Permitting
of Oil & Gas

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 2/13/93
Operator's
Well No. 4-1289
Farm Seaver & Kibbe
API No. 47-085-5340

WELL OPERATOR'S REPORT
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: 1038 Watershed Locust Run
District: Grant County Ritchie Quadrangle MacFarlan

COMPANY Haught Inc
ADDRESS Smithville, W.Va.
DESIGNATED AGENT TAP Drilling
ADDRESS Smithville
SURFACE OWNER West VACO
ADDRESS Parkurstburg
MINERAL RIGHTS OWNER Mary Sewell & Gordon Kibbe
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman ADDRESS _____
PERMIT ISSUED 11/5/81
DRILLING COMMENCED 11/13/81
DRILLING COMPLETED 11/17/81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8		1,063	346 sacks
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1965-2010 feet
Depth of completed well 2191 feet Rotary / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1965-2010 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: 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
(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 Oil: 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

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Slate	Gray	Hard	0	2.5	
Red rock	Red	soft	2.5	4.3	
Sand	Gray	Hard	4.3	105	
Slate	Gray	Hard	105	118	
Red rock	red	soft	118	163	
Sand	white	Hard	163	181	
Slate	Gray	soft	181	210	
Red rock	red	soft	210	242	
Sand	white	Hard	242	301	
Slate	Gray	Hard	301	314	
Sand	Gray	Hard	314	338	
Red rock	red	soft	338	370	
Slate	Gray	soft	370	405	
Sand	white	Hard	405	432	
Red rock	red	soft	432	451	
Slate	Gray	soft	451	498	
Red rock	red	soft	498	521	
Slate	Gray	soft	521	538	
Red rock	red	soft	538	564	
Slate	Gray	soft	564	661	
Red rock	red	soft	661	701	
Sand	white	Hard	701	712	
Slate	Gray	soft	712	747	
Red rock	red	soft	747	774	
Slate	Gray	soft	774	796	
Sand	Gray	Hard	796	822	
Slate	Gray	soft	822	851	
Red rock	red	soft	851	880	
Slate	Gray	soft	880	922	
Red rock	red	soft	922	945	
Slate	Gray	soft	945	967	
Sand	white	Hard	967	989	
Slate	Gray	soft	989	1046	
Sand	Gray	Hard	1046	1139	
Slate	Gray	soft	1139	1203	
Sand	white	Hard	1203	1311	
Slate	Gray	soft	1311	1382	
Sand	Gray	Hard	1382	1412	
Slate	Gray	soft	1412	1490	
Sand	white	Hard	1490	1578	
Slate	Gray	soft	1578	1650	
Sand	Gray	Hard	1650	1763	
Slate	Gray	soft	1763	1811	
Sand	Gray	Hard	1811	1852	
Little lime	Gray	Hard	1852	1882	
Big lime	white	Hard	1882	1958	
Sand	white	Hard	1958	2010	
Slate	Gray	soft	2010	2028	Big Inj. 1959-2010
Sand	white	Hard	2028	2046	
Slate	Gray	soft	2046	2069	
Sand	white	Hard	2069	2087	
Slate	Gray	soft	2087	2117	
Sand	white	Hard	2117	2148	
Slate	Gray	soft	2148	2166	T.D. 2191
Sand	white	Hard	2166	2191	

D.F. 371
D.F. 372

no prod. in OG prod
file 125day
etc

(Attach separate sheets as necessary)

Top Drilling Corp.

Well Operator

By: *John P. Cook*

Date: *Feb. 18, 1993*

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 all, encountered in the drilling of a well."

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Haught, Inc.
Address Rt. 3 Box 14
Smithville, WV 26178

GEOLOGICAL TARGET FORMATION Shale
Estimated depth of completed well 4500 feet. Rotary x / Cable tools /
Approximate water strata depths: Fresh, 75 feet; salt, feet.
Approximate coal seam depths: None
Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM

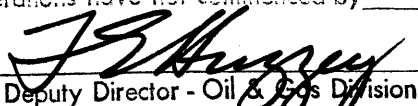
CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling		
Conductor								Kinds
Fresh water	8 5/8	K-55	20#	X		200	200	To Surface
Coal								Sizes
Intermed.								
Production Tubing	4 1/2	J 55	10.5#	X			4500	400 Sacks
Liners								Depths set
								+
								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 §22-4-8a 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 operations 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 7-12-82.


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: