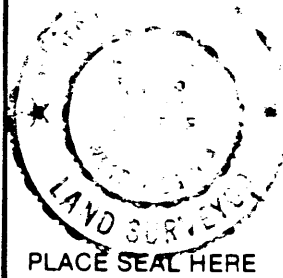


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 80-5749-CC  
 DRAWING NO. 80-5749-CC  
 SCALE 1" = 600  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION USE LOCATION OF B.M. 1360 ON WILEYVILLE TPO (B.M. MISSING)

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) Henry M. Parsons  
 A.P.E. \_\_\_\_\_ L.L.S. #98



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



DATE MARCH 20, 1984  
 OPERATOR'S WELL NO. NORMAN HAESSLY #1  
 API WELL NO.

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

LOCATION: ELEVATION 1460 WATER SHED MIDDLE FORK  
 DISTRICT PROCTOR 7 COUNTY WETZEL

SURFACE OWNER NORMAN E. HAESSLY, ETAL DBA HAESSLY HARDWOOD LUMBER CO. ACREAGE 90 ACRE UNIT  
 OIL & GAS ROYALTY OWNER A. L. CALVERT LEASE ACREAGE \_\_\_\_\_

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  6-6 Lynn Camp (36) MAY 7 1984  
 TARGET FORMATION 4th SAND ESTIMATED DEPTH 3550'  
 WELL OPERATOR HADDAD & BROOKS, INC. DESIGNATED AGENT HENRY M. PARSONS  
 ADDRESS P.O. BOX 714, 905 WASHINGTON ADDRESS 121 GLENVIEW DR.  
WASHINGTON, PA. 15301-1153 NEW MARTINSVILLE, WV 26155

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

COUNTY NAME PERMIT



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

- 5/23/84 Perf Fourth with 8 shots 3409-3411. Perf Gordon Stray with 12 shots 3349-3352'.
- 5/25/84 Frac Fourth and Gordon Stray with 456 barrels 80 quality foamed diesel, 7000 lbs. 20/40 sand. ATR 27 BPM. ATP 2950 psi.
- 6/6/84 Perf Berea with 20 shots 3115-20'.
- 6/7/84 Frac Berea with 643 bbl gel acid, 27,500# 20/40 sand, ATR 27 BMP-ATR 2300 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Undifferentiated Sand and Shale			0	2438'	Pittsburgh Coal @ 1264'
Greenbrier		Tn-Wt H	2438'	2524'	
Big Injun		Clr-Wt M-H	2524'	2754'	
Shale & Slst		Gy-Bn M-S	2754'	2898'	
Weir		Wt H-S	2898'	2938'	
Shale & Slst		Gy-Gn S	2938'	3103'	
Berea		Clr. H	3103'	3144'	SOG
Shale & Slst		Gy-Gn S	3144'	3347'	
Gordon Stray		Wt. M	3347'	3359'	SOG
Shale		Gy H-S	3359'	3373'	
Gordon		Wt. M	3373'	3375'	
Shale		Gy-Bn S	3375'	3404'	
Fourth		Wt. M	3404'	3414'	SOG
Shale		Gy S	3414'	<u>3495'</u>	T.D.

All depths from G.L.

(Attach separate sheets as necessary)

Haddad and Brooks, Inc.  
Well Operator

By:

*Carl A. Bae*

Date: September 18, 1984

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."



1) Date: April 2, 19 84  
 2) Operator's Well No. N. Haessly #1  
 3) API Well No. 47 - 103 - 1305  
 State                      County                      Permit                     

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 1460' Watershed: Lynn Camp Run  
 District: Proctor County: Wetzel Quadrangle: Littleton  
 6) WELL OPERATOR Haddad & Brooks, Inc.  
 Address P.O. Box 714, 905 Washington  
Washington, PA 15301-1153  
 7) DESIGNATED AGENT Henry M. Parsons  
 Address 121 Glenview Drive  
New Martinsville, WV 26155  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Robert A. Lowther  
 Address General Delivery  
Middlebourne, WV 26149  
 9) DRILLING CONTRACTOR:  
 Name Smith Drilling, Inc.  
 Address Oakhill, WV 25901  
 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, 4th Sand  
 12) Estimated depth of completed well, 3550 feet  
 13) Approximate strata depths: Fresh, N/A feet; salt, 2520 feet.  
 14) Approximate coal seam depths: 1297 Is coal being mined in the area? Yes

**RECEIVED**  
APR 12 1984

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		
Conductor	11 3/4	H40	38		X	80'	80'	Kinds
Fresh water								
Coal						1360'	1360'	
Intermediate	8 5/8	J55	24		X	1780'	1780'	450 sks
Production	4 1/2	J55	10.5	X			3550'	120 sks
Tubing								
Liners								

*Handwritten notes in table:*  
 - Under Coal: *1360'*  
 - Under Intermediate: *1780'*  
 - Under Production: *3550'*  
 - Under Intermediate CEMENT FILL-UP: *450 sks*  
 - Under Production CEMENT FILL-UP: *120 sks*  
 - Under Intermediate PACKERS: *400 sks 50:50*  
 - Under Intermediate PACKERS: *Litepoz + 4% CaCl*  
 - Under Production PACKERS: *Depths set (11 hr. WOC)*  
 - Under Production PACKERS: *Tailed in w/50 sks*  
 - Under Production PACKERS: *Perforations: Neat + 4% CaCl*  
 - Under Production PACKERS: *Top Bottom*

*Handwritten note at bottom of table:*  
 SEE Cause No. 64, Order No. 1, 3/30/84

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-103-1305 Date April 30, 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 April 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>[Signature]</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>A 103.98</u>
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[Signature]  
Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File