

FILE NO. 80-5749
 DRAWING NO. 80-5749-U
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION B.M. U-130 (ELEVATION OF 1403.882) ON WILEYVILLE TOPO

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
 R.P.E. _____ L.L.S. #98

PLACE SEAL HERE

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


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

LOCATION: ELEVATION 1447 WATER SHED WATERS OF RUSH RUN A BRANCH OF LITTLE FISHING CREEK
 DISTRICT PROCTOR COUNTY WETZEL
 QUADRANGLE WILEYVILLE Littleton 15' NW

SURFACE OWNER RUSSELL W. RAND GWENDOLYN KONANTZ RAND HERBERT W. LINDSEY MARIE LINDSEY ACREAGE 161.01 A.
 OIL & GAS ROYALTY OWNER R. RAND, H. LINDSAY & TASA CORP. LEASE ACREAGE 161.01 A.
 LEASE NO. 310-19

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 GORDON ESTIMATED DEPTH 3522'
 WELL OPERATOR HADDAD & BROOKS, INC. DESIGNATED AGENT HENRY M. PARSONS
 ADDRESS 905 WASHINGTON ROAD, BOX 714 WASHINGTON, PA. 15301-1153 ADDRESS 121 GLENVIEW DRIVE NEW MARTINSVILLE, WV 26155


 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE MAY 6, 1983
 OPERATOR'S WELL NO. LINDSAY-RAND-2
 API WELL NO. 103
47 - WETZEL - 1289
 STATE COUNTY PERMIT

AUG 01 1983

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

- 5/14/84 Perf Gordon with 4 shots 3378-3380'.
Perf Gordon Stray with 12 shots 3352-3358'.
- 5/15/84 Frac Gordon and Gordon Stray with 22,500 gallon gel water, 25,500# 20/40 sand. ATR 25 BPM. ATP 3130 psi.
Perf Berea with 20 shots 3107-3114'.
Frac Berea with 12,600 gal. gel acid (5%), 6000# 20/40 sand. ATR 15 BPM. ATP 2660 psi. Circulated to surface.

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 & Shale			0	2448'	Pittsburgh Coal @ 1261'
Greenbrier	Tn-Wt	H	2448'	2524'	
Big Injun	Clr-Wt	M-H	2524'	2758'	
Shale & Slst	Gy-Bn	M-S	2758'	2912'	
Weir	Wt	H-S	2912'	2948'	
Shale & Slst	Gy-Gn	S	2948'	3106'	
Berea	Clr.	H	3106'	3148'	Broken, SG
Shale & Slst	Gy-Gn	S	3148'	3352'	
Gordon Stray	Wt.	M	3352'	3357'	SG
Shale	Gy	H-S	3357'	3377'	
Gordon	Wt.	M	3377'	3380'	SG
Shale	Gy-Bn	S	3380'	3416'	
<u>Fourth</u>	Wt.	M	3416'	3419'	SG
Shale			3419'	<u>3522'</u>	T.D.
					All depths from G.L.

(Attach separate sheets as necessary)

Haddad and Brooks, Inc.

Well Operator

By: Carl A. Boe

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: June 28, 1983
 2) Operator's Well No. Lindsay-Rand #2
 3) API Well No. 47 State 103 County 1285 Permit

DRILLING CONTRACTOR:
Clint Hurt Associates
Charleston, WV

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1447' Watershed: Meaders of Rush Run, a br. of Little Fishing
 District: Proctor County: Netzel Quadrangle: Wileyville 7.5'
- 6) WELL OPERATOR Hadriad & Brooks, Inc. 11) DESIGNATED AGENT Henry R. Parsons
 Address 905 Washington Road, P.O. Box 714 Address 121 Glenview Drive
Washington, PA 15301-1153 New Martinsville, WV 26155
- 7) OIL & GAS ROYALTY OWNER See Attached List 12) COAL OPERATOR N/A
 Address _____ Address _____
- 8) SURFACE OWNER See Attached List 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address _____ Name See Attached List
 Address _____ Name _____
 Acreage 161.01 Address _____
- 9) FIELD SALE (IF MADE) TO: N/A 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address _____ Name N/A
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert A. Lovther
 Address General Delivery
Middlebourne, WV 26149
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Gordon
 17) Estimated depth of completed well, 3522' feet
 18) Approximate water strata depths: Fresh, N/A feet; salt, 2480 feet.
 19) Approximate coal seam depths: 3521' Is coal being mined in the area? Yes / No

20) 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>17 3/4</u>					<u>60'</u>	<u>60'</u>	<u>25 sacks</u>	Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate	<u>8 5/8</u>					<u>1361'</u>	<u>1361'</u>	<u>350 sacks</u>	Perforations: Top Bottom
Production	<u>4 1/2</u>					<u>3522'</u>	<u>3522'</u>	<u>200 sacks</u>	
Tubing								<u>or as required</u>	
Liners								<u>by rule 15.</u>	

- 21) EXTRACTION RIGHTS Lease assignments on file with permit nos. 47-103-1285 & 47-103-1286.
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
 24) 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.

Notary: _____
 My Commission Expires _____

Signed: _____
 Its: Executive Vice President

OFFICE USE ONLY
 DRILLING PERMIT

Permit number _____ Date _____ 19 _____

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. 10) 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.)

Permit expires July 29, 1985 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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.

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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.

WAIVER

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 _____