



FILE NO. 80-5749
 DRAWING NO. 30-5749-H-①
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION OF 1451 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



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



DATE FEB 12, 1982
 OPERATOR'S WELL NO. HENDERSON #2
 API WELL NO. 103
47 - WETZEL 1264
 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 1469 WATER SHED RUSH RUN, A FORK OF LITTLE FISHING CREEK
 DISTRICT PROCTOR COUNTY WETZEL
 QUADRANGLE WILEYVILLE, W.VA - 7 1/2 Littleton 15' NC
 SURFACE OWNER JOHN D. & DAVID LEE HENDERSON ACREAGE 48
 OIL & GAS ROYALTY OWNER JOHN D. HENDERSON LEASE ACREAGE 48
 LEASE NO. 589
 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 WARREN ESTIMATED DEPTH 4400' NOV 8 1982
 WELL OPERATOR Inverness Petroleum Inc DESIGNATED AGENT Otis L. O'Connor
 ADDRESS 1419, 500-4 Ave. S.W. Calgary, Alberta ADDRESS P.O. Box 1588, Charleston, WV 25326
Canada T2P 2V6

RECEIVED

APR 25 1983



State of West Virginia DEPT. OF MINES Department of Mines Oil and Gas Division

Date April 20, 1983 Operator's Well No. #1 Farm Henderson API No. 47 - 103 - 1264

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

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal (If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1469 Watershed Rush Run, a fork of Little Fishing Creek District: Proctor County Wetzel Quadrangle Wileyville 7.5 min.

COMPANY Haddad and Brooks, Inc. ADDRESS 905 Washington Rd., Washington, PA 15301 DESIGNATED AGENT Henry M. Parsons ADDRESS 121 Glenview Dr., New Martinsville, WV SURFACE OWNER John D. Henderson, et ux 26155 David L. Henderson ADDRESS P.O. Box 315, Littleton, WV 26581 MINERAL RIGHTS OWNER John D. Henderson, et al ADDRESS Same as above OIL AND GAS INSPECTOR FOR THIS WORK General Delivery Robert Lowther ADDRESS Middlebourne, WV 26149 PERMIT ISSUED August 10, 1982 DRILLING COMMENCED 12-10-82 DRILLING COMPLETED 12-20-82 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Warren Depth 4400 feet Depth of completed well 3544 feet Rotary X / Cable Tools Water strata depth: Fresh Unknown feet; Salt Unknown feet Drilled with fluid Coal seam depths: 1284 (Pgh. Coal) Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Gordon Stray, Gordon Pay zone depth 3413-3436 feet Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow N/A Bbl/d Final open flow TSTM Mcf/d Final open flow 10 Bbl/d Time of open flow between initial and final tests 8 hours Static rock pressure 200 psig (surface measurement) after 10 hours shut in (If applicable due to multiple completion--)

(Continue on reverse side)

NET. 1264

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Perforate Gordon Stray with 10 holes from 3413'-3418' and perforate Gordon with
 10 holes from 3430'-3436'. Fractured with 950 barrels of gelled diesel, 520 sacks
 of 20/40 sand, 80 sacks of 80/100 sand. ATP 3150 psi. ATR 21 BPM. ISIP 2700 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 SS & SH			0	2509'	Pittsburgh Coal @ 1284'
Greenbrier	Tan	H	2509'	2581'	
Shale	Gy	S	2581'	2620'	
Big Injun	Wh-Gy	M	2620'	2818'	SSG
Shale	Gy	M-S	2818'	2966'	
Weir	Gy	H-S	2966'	3018'	SSG
Shale & Slst	Gy-gn	S	3018'	3170'	
Berea	Tan-Gy	H	3170'	3193'	SG
Shale & Slst	Gy-Gn	S	3193'	3413'	
Gordon Stray	Wt	M	3413'	3421'	SO, SG
Shale	Gy	H-S	3421'	3431'	
Gordon	Wt	M	3431'	3443'	SO, SG
Slst	Gy	S	3443'	3474'	
Fourth	Wt	M	3474'	3485'	SG
Sh and Slst	Gy	S	3485'	3544'	T.D.

All depths measured from G.L.

3544
 3443

 101 expl-ftg.

(Attach separate sheets as necessary)

Haddad & Brooks, Inc.

Well Operator

By: Carl A. Boe

Date: April 19, 1983

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."

(Obverse)

(Revised 3-81)



well no. #1
Farm Henderson
API #47 - 103 - 1264
Date

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /

(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /

LOCATION: Elevation: 1469 Watershed: Rush Run, a fork of Little Fishing Creek
District: Proctor County: Wetzel Quadrangle: Wileyville 7.5 min.

WELL OPERATOR Inverness Petroleum, Inc.
Address 1410, 500 4th Ave., SW
Calgary, Alberta, Canada T2P 2V6

DESIGNATED AGENT Otis L. O'Connor
Address P. O. Box 1588
Charleston, WV 25326

OIL AND GAS ROYALTY OWNER John D. Henderson, et al
Address P. O. Box 315
Littleton, WV 26581
Acreage 48

COAL OPERATOR Atlantic Richfield Company
Address 1616 Glenarm Place, Security Life Bldg.
Denver, CO 80202

SURFACE OWNER John D. Henderson, et ux
David L. Henderson
Address Same as above
Acreage 48

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Atlantic Richfield Company
Address same as above
NAME _____
Address _____
AUG 10 1982

RECEIVED

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

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Robert A. Lowther
Address General Delivery
Middlebourne, WV 26149
Telephone 304-758-4764

The lease or leases on which this well is located provide for standard 1/8th royalty and not a flat royalty.

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 July 17, 1980, to the undersigned well operator from John D. Henderson, et al.

(If said deed, lease, or other contract has been recorded:)

Recorded on July 31, 1980, in the office of the Clerk of County Commission of Wetzel County, West Virginia, in 60 A Book at page 141. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate X / 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

INVERNESS PETROLEUM INC.
Well Operator

By: _____
Its: Vice-President

BLANKET BOND

(Reverse)

(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)

Address

GEOLOGICAL TARGET FORMATION Warren

Estimated depth of completed well 4400 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, N/A feet; salt, 2400 feet.
Approximate coal seam depths: 1400
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For Drill-ling, Left in Well), CEMENT FILL UP OR SACKS (Cubic ft.), PACKERS (Kinds, Sizes, 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 PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE WEST VIRGINIA CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 6-27-83.

BY [Signature]

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: