



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500 Feet
 MINIMUM DEGREE OF ACCURACY 1" in 200'
 PROVEN SOURCE OF ELEVATION BM 890' East of Greenwood on R/R Tracts

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) M. E. Murray
 R.P.E. _____ L.L.S. 7

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 1075 FT. WATER SHED HUGHES RIVER
 DISTRICT Central COUNTY Doddridge
 QUADRANGLE Pennsboro West Union 15' 5C
 SURFACE OWNER G.W. HILL ACREAGE 88.5
 OIL & GAS ROYALTY OWNER G.W. HILL LEASE ACREAGE 88.5
 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 Weir ESTIMATED DEPTH 2800 Ft.
 WELL OPERATOR Watkins & Watkins, Inc. DESIGNATED AGENT Watkins & Watkins, Inc.
 ADDRESS Box 386 - Lumberport, W.Va. 26386 ADDRESS Box 386 - Lumberport, W.Va. 26386

DATE January 11, 1982
 OPERATOR'S WELL NO. 2
 API WELL NO. 47 - 017 - 3072
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

FEB 16 1982

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FORM IV-35 (Obverse)

[08-78]

APR 23 1982 OIL AND GAS DIVISION WV DEPARTMENT OF MINES

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

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

Date: April 22, 1982

Operator's Well No. Watkins & Watkins No. 2

API Well No. 47 - 017 - 3072 State County Perm

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

LOCATION: Elevation: 1075 Watershed: Cabin Run Hughes River District: County: Doddridge Quadrangle: Pennsboro

WELL OPERATOR: Watkins & Watkins Address: P. O. Box 386 Lumberport W.V. DESIGNATED AGENT: Watkins & Watkins Address: P.O. Box 386 Lumberport W.V.

PERMITTED WORK: Drill X / Convert / Drill deeper / Re-drill / Fracture or stimulate Plug off old formation / Perforate new formation Other physical change in well (specify)

PERMIT ISSUED ON 1 - 13, 1982

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name: Steve Casey Address: Jane Lew W. V.

GEOLOGICAL TARGET FORMATION: Weir Depth: 2,400 feet

Depth of completed well, 2,500 feet Rotary X / Cable Tools

Water strata depth: Fresh, 215 feet; salt, feet.

Coal seam depths: None Is coal being mined in the area?

Work was commenced 2 - 1, 1982, and completed 2 - 6, 1982

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Perforations: Top, Bottom)

OPEN FLOW DATA

Producing formation: Big Injun Pay zone depth: 2047 - 2075 feet

Gas: Initial open flow, 30,000 Mcf/d Oil: Initial open flow, 0 Bbl/d Final open flow, 100,000 Mcf/d Final open flow, 1 Bbl/d

Time of open flow between initial and final tests, 24 hours

Static rock pressure, 350# psig (surface measurement) after 8 hours shut in

[If applicable due to multiple completion--]

Second producing formation: Weir Pay zone depth: 2290-2320 feet

Gas: Initial open flow, 150,000 Mcf/d Oil: Initial open flow, 0 Bbl/d Final open flow, 300,000 Mcf/d Final open flow, 2 Bbl/d

Time of open flow between initial and final tests, 8 hours

Static rock pressure, 1150# psig (surface measurement) after 24 hours shut in

MAY 3 1982

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

017-3072

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
R. R.	0		0	15	
Sand			15	30	
Shale			30	70	
Sand			70	105	
R Rock			105	140	
Sand			140	210	
Red Rock			210	260	
Snad			260	385	
Shale			385	495	
Sand			495	555	
Shale			555	610	
Sand			610	700	
Shale			700	1040	
Sand			1040	1130	
Shale			1130	1410	
Sand			1410	1545	
Shale			1545	1717	
Sand			1717	1867	
Shale			1867	1890	
Sand			1890	2020	
Shale			2020	2040	
Sand			2040	2105	
Shale			2105	2250	
Sand <i>W E R</i>			2250	2320	
Shale			2320	2410	

(Attach separate sheets to complete as necessary)

Watkins & Watkins
Well Operator

By Thomas J. Fluharty
Its Drilling Supervisor

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."



WELL NO. Watkins & Watkins No. 2
FARM NAME G. Wynt Hill
API WELL NO. 47 - 017 - 3072
DATE Jan. 13, 1982

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL and GAS DIVISION
OIL and GAS WELL PERMIT

WELL TYPE: Oil / Gas
If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow /
LOCATION: Elevation: 1075 Watershed: Cabin Run of Hughes River
District: Central County: Doddridge Quadrangle: Pennsboro

WELL OPERATOR Watkins & Watkins, Inc.
Address P. Box 386
Lumberport, W. Va. 26386

DESIGNATED AGENT Watkins & Watkins
Address P. O. Box 386
Lumberport, W. Va. 26386

OIL & GAS ROYALTY OWNER G. Wynt Hill
Address Greenwood, W. Va.

COAL OPERATOR None in Area
Address _____

Acreage 88.5
SURFACE OWNER G. Wynt Hill
Address Greenwood, W. Va.
Acreage 88.5

~~COAL OWNER WITH DECLARATION ON RECORD~~ No record of
Name coal penetration from any surrounding well
Address records.

FIELD SALE (IF MADE) TO: _____
Address _____

Name _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed
/ lease / other contract _____ / dated Dec. 28, 1981, to the undersigned well operator from _____

(If said deed, lease, or other contract has been recorded:)
Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West
Virginia in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / 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
1613 WASHINGTON STREET, EAST
CHARLESTON, WV 25311
Telephone (304) 348-3092

Company Name: Watkins & Watkins

BY: [Signature]

RECEIVED

JAN 15 1982

OIL AND GAS DIVISION
DEPARTMENT OF MINES

BLANKET BOND

