



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. Munter
 R.P.E. _____ L.L.S. 7

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 12-28, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-017-3069
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 990 FT. WATER SHED HUGHES RIVER
 DISTRICT Central COUNTY Doddridge
 QUADRANGLE Pennsboro West Union 15' SC
 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 FF
 WELL OPERATOR Watkins & Watkins, Inc. DESIGNATED AGENT Watkins & Watkins, Inc.
 ADDRESS Box 386 - Lumberport, W.Va. 26386 ADDRESS Box 386 - Lumberport, W.Va. 26386

JAN 21 1982

RECEIVED

FORM IV-35 (Obverse)

[08-78]

APR 23 1982 OIL AND GAS DIVISION 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. 1

API Well No. 47-017-3069 State County Perm

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

LOCATION: Elevation: 990 Watershed: Cabin Run Hughes River District: Central County: Doddridge Quadrangle: Pennsboro

WELL OPERATOR Watkins & Watkins Address Box 386 Lumberport, W.V. DESIGNATED AGENT Watkins & Watkins Address 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 Dec. 28, 1981 OIL & GAS INSPECTOR FOR THIS WORK: Name Steve Casey Address Jane Lew W. V.

GEOLOGICAL TARGET FORMATION: Weir Depth 2400 feet Depth of completed well, 2,400 feet Rotary X / Cable Tools Water strata depth: Fresh, 90 feet; salt, feet. Coal seam depths: None Is coal being mined in the area? No Work was commenced 2-6-82, 1982, and completed 2-13, 1982

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, 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 1970 - 1990 feet Gas: Initial open flow, 20,000 Mcf/d Oil: Initial open flow, 0 Bbl/d Final open flow, 50,000 Mcf/d Final open flow, 1 Bbl/d Time of open flow between initial and final tests, 2 hours Static rock pressure, 250 # psig (surface measurement) after 8 hours shut in

Second producing formation Weir Pay zone depth 2020-2040 feet Gas: Initial open flow, 30,000 Mcf/d Oil: Initial open flow, 0 Bbl/d Final open flow, 300,000 Mcf/d Final open flow, 1 bbl/d Time of open flow between initial and final tests, 24 hours Static rock pressure, 990 psig (surface measurement) after 24 hours shut in

MAY 3 1982

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

017-3069

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all fresh and salt water, coal, oil, and gas
Shale			0	75	
Red Rock			75	110	
Shale			110	385	Water Fresh 100'
Sand			415	437	
R. Rock			437	468	
Sand			468	495	
Shale			495	555	
Sand			555	610	
Shale			610	670	
Sand			670	700	
Shale			700	1040	
Sand			1040	1100	
Shale			1100	1130	
Sand			1130	1315	
Shale			1315	1410	
Sand			1410	1545	Water 1503
Shale			1545	1650	
Sand			1650	1717	
Shale			1717	1840	
Sand			1840	1867	
Shale			1867	1890	
Sand			1890	2055	
Shale			2055	2250	
Sand WEIR			2389	2400	

(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."

Date: December 28, 1981

[98-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Watkins #1

API Well No. 47-017-3069
State County Permit

WELL TYPE: Oil Gas
(If "Gas", Production Underground storage Deep Shallow)

LOCATION: Elevation: 990 Watershed: Cabin Run of Hughes River
District: Central County: Doddridge Quadrangle: Pennsboro

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

DESIGNATED AGENT: Watkins & Watkins, Inc.
Address 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 ~~104~~ AC

COAL OWNER(S) WITH DECLARATION ON RECORD:

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

Name _____

Address _____

ACREAGE 104 88.5

Name _____

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

Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

Name _____

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

RECEIVED

DEC 29 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed lease other contract dated December 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
1619 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

Watkins & Watkins Inc.
Well Operator
[Signature]
By [Signature]

08-781

PROPOSED WORK ORDER

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

DRIILLING CONTRACTOR (IF KNOWN) Spencer Enterprises
Address Smithburg WV

GEOLOGICAL TARGET FORMATION, Big Injun & Weir

Estimated depth of completed well, 2350' feet Rotary XX/ Cable tools /

Approximate water strata depths: Fresh, 215 feet; salt, feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes No XXXX

HOUSING AND TUBING PROGRAM

HOUSING 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	13	5/8"		X			20'		Kinds
Fresh water	8	5/8"	20 lb	X			400"	cement	to surface
Coal									Sizes
Intermediate									
Production	4 1/2"		10.5 lb				2300'		Depths 50'
Tubing							(cement 300' above pay zones)		
Packers									Performances:
									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 necessary, the consent required by Code § 22-4-8a from the owner of any water well or drilling 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.

All provisions 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 8-29-82.

[Signature]
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.

By
Its