

M-1-10/15/82

Plot Card GSD

8,600'

LATITUDE 39° 15' 00"

1,100'

7.5 Topo.

0.205
1.64W

1597
017-37395

017-48871

MOYER

N 21-43 W
1080.0'

N 55-13 E
1113.04'

LONGITUDE 80° 40' 00"

N 86-30 E
1006.5'

Cucumber Tree

N 86-30 E
1188'

Proposed Well
Elev. 980'

S 43-00 E
165'

S 12-00 E
231'

MOYER-stc.
O.J. POLAN AGENT - min.
12 ACRES

MOYER-stc.
O.J. POLAN AGENT - min.
19 ACRES

BOWYER

10" Beech
in fence

N 41-00 W
627'

Stone

N 79-15 W
1076.25'

N 55-00 W
429'

S 80-00 W
311.5'

S 83-30 W
499.95'

Ash

S 07-30 E
251.63'

Stoke

HURST

Stone

Sugar

017-3074

A. N 77-24 E, 1659.74'
B. S 68-15 W, 1546.29'
C. N 41-00 W, 279.94'

S 32-57 W
1932.18'

144
017-13215

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION USGS BM MEATHOUSE FORK, 844, NEW MILTON QUAD.

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) Hayne D. Pecker
R.P.E. _____ L.L.S. 624

Norton Surveys & Consulting, Inc.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6
(878)



DATE SEPTEMBER 13, 1982
OPERATOR'S WELL NO. POLAN 2
API WELL NO. _____
47 - 017 - 3150
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 980' WATER SHED MEATHOUSE FORK
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON Jadis 15 NW
SURFACE OWNER HERBERT MOYER ACREAGE 31
OIL & GAS ROYALTY OWNER O.J. POLAN AGENT LEASE ACREAGE 31
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 BIG INJUN & WEIR ESTIMATED DEPTH 2300' 6-6 Smithton, Flint
WELL OPERATOR WATKINS & WATKINS, INC. DESIGNATED AGENT TERRY WATKINS Sedalia (99)
ADDRESS P.O. BOX 386 ADDRESS P.O. BOX 386
LUMBERPORT, W. VA. 26386 LUMBERPORT, W. VA. 26386

OCT 12 1982

RECEIVED



DEC 30 1982

IV-35 (Rev 8-81)

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

Date December 27, 1982

State of West Virginia

Operator's Well No. Polan # 2

Department of Mines Oil and Gas Division

Farm API No. 17 - 017 - 3150

JAN 10 1983

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 980' Watershed Heathouse Fork District: New Milton County Doddridge Quadrangle New Milton

COMPANY Watkins & Watkins, Inc.

ADDRESS P. O. Box 386, Lumberport, WV 26386

DESIGNATED AGENT Terry L. Watkins

ADDRESS P. O. Box 386, Lumberport, WV 26386

SURFACE OWNER Herbert B. Moyer

ADDRESS P. O. Box 34, New Milton, WV

MINERAL RIGHTS OWNER O. J. Polan, Agent

ADDRESS 359 Maple Drive, Morgantown, WV

OIL AND GAS INSPECTOR FOR THIS WORK S. L. Casey

ADDRESS Jane Lee, WV

PERMIT ISSUED 10-6-82

DRILLING COMMENCED 10-20-82

DRILLING COMPLETED 10-26-82

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

Table with 4 columns: Casing Tubing Size, 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 Big Injun - Weir Depth 1910-2154 feet

Depth of completed well 2278 feet Rotary x / Cable Tools

Water strata depth: Fresh 70 feet; Salt feet

Coal seam depths: 513' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Big Injun & Weir Pay zone depth 1910-2154 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 100,000 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 1 hours

Static rock pressure 190 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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

Big Injun
Weir

1912-1926
2126-2152

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay sane shale			0	115	
Sand shale			115	210	
Shale			210	410	
Shale sand			410	513	
Coal			513	517	
Shale			517	685	
Shale sand			685	1530	
Lime			1532	1560	
Sand shale			1560	1826	
Big Injun			1826	1914	
Sand shale			1914	2078	
<u>Weir</u>			2078	2154	
TD			2154	2278	
				TD	

(Attach separate sheets as necessary)

Watkins & Watkins, Inc.
Well Operator

By: _____

Date: December 27, 1982

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 ⁽¹⁹⁴²⁾ encountered in the drilling of a well."



1) Date: _____, 19____
2) Operator's Well No. _____
3) API Well No. 47 State _____ County _____ Permit _____

DRILLING CONTRACTOR: _____

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: _____ Watershed: _____
District: _____ County: _____ Quadrangle: _____
- 6) WELL OPERATOR _____ Address _____
11) DESIGNATED AGENT _____ Address _____
- 7) OIL & GAS ROYALTY OWNER _____ Address _____
12) COAL OPERATOR _____ Address _____
- 8) SURFACE OWNER _____ Address _____
13) COAL OWNER(S) WITH DECLARATION ON RECORD: Name _____ Address _____
- 9) FIELD SALE (IF MADE) TO: _____ Address _____
14) COAL LESSEE WITH DECLARATION ON RECORD: Name _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name _____ Address _____
- 15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Re-fracture or stimulate _____ / Plug off old formation _____ / Perforate new formation _____ / Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, _____
- 17) Estimated depth of completed well, _____ feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

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OIL & GAS DIVISION

DEPT. OF MINES

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		Kinds	Sizes
Conductor										
Fresh water										
Coal										
Intermediate										
Production										Depths set
Tubing										
Liners										Perforations: Top Bottom

21) EXTRACTION RIGHTS

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: _____

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 _____ 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, whichever 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.

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 _____