



FILE NO. PANTHER
 DRAWING NO. 2
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 844'

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

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



DATE NOV. 7, 19 81
 OPERATOR'S WELL NO. 2
 API WELL NO. _____
47 - 017 - 3066
 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 920' WATER SHED MEATHOUSE FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' Uadis 15' NW
 SURFACE OWNER STOKES HURST ACREAGE 151.99'
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 151.99
 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 Blk IV, IV ESTIMATED DEPTH 2190'
 WELL OPERATOR WATKINS + WATKINS INC DESIGNATED AGENT TERRY WATKINS
 ADDRESS P.O. Box 386 ADDRESS P.O. BOX 161
LUMBERPORT, WV LUMBERPORT, WV

JAN 21 1982

6-6 NEW PLAT

(99) 1791

FORM 14-35
(Obverse)

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

Date April 22, 1982

Operator's McClain # 2
Well No. (Stokes Hurst)

[08-78]

WELL OPERATOR'S REPORT
OF
DRILLING, FRACURING AND/OR STOPPING, OF PHYSICAL CHANGE

API Well No. 017 - 3066
State County West

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

LOCATION: Elevation: 920' Watershed: Meathouse Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

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

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

PERMIT ISSUED ON _____, 19____ 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: Big Injun Depth: 2,000 feet
Depth of completed well, 2,000 feet Rotary / Cable Tools
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: _____ Is coal being mined in the area? No
Work was commenced 1 - 26, 1982, and completed 1 - 31, 1982

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLING OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11	5/8		x			20'	Kinds
Fresh water	8	5/8		x			400'	To surface
Soil								Lines
Intermediate								
Production	4 1/2		10.5	x			2,000'	300' above top producing horizon
Tubing								
Liners								Perforations:
								Top Bottom
								1913 1952

OIL AND GAS DIVISION
WEST VIRGINIA DEPARTMENT OF MINES

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth: 1913 - 1952 feet
Gas: Initial open flow, 100,000 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 750,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 24 hours
Static rock pressure, 550 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 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

MAY 17 1982

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

ELL 100

DESCRIPTION	Color	Hard or Soft	Top Feet	Bottom Feet	Including thickness of all fresh fractures, etc.
Clay			0	20	
Shale			20	80	
Red Rock			80	101	
Shale			101	140	
Red Rock			140	160	
Shale			160	355	
Sand			355	450	
Shale			450	650	
Red Shale			650	675	
Shale			675	825	
Sand			825	1000	
Shale			1000	1110	
Sand			1110	1225	
Shale			1225	1338	
Sand			1338	1462	
Shale			1462	1530	
Sand			1530	1665	
Shale			1665	1772	
Lime			1772	1800	
Sand <i>BZ</i>			1800	1944	
Shale			1944	1975	

(Attach separate sheets to complete as necessary.)

Watkins & Watkins

 Director

By _____

 Drilling Supervisor

NOTE: Regulation 2.02(8) 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."

(Obverse)
(Revised 3-81)



Farm Stokes Hurst #2
API # 47-017-3066
Date _____

RECEIVED

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

DEC 3 1981

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 844 Watershed: MEATHOUSE Fork
District: NEW Milton County: Doddridge Quadrangle: NEW Milton 7.5

WELL OPERATOR WATKINS & WATKINS
Address P.O. Box 386
Lumberport, W.Va 26386

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

OIL AND GAS ROYALTY OWNER Stokes Hurst
Address Rt. 2
NEW Milton
Acreage 151.99

COAL OPERATOR _____
Address _____

SURFACE OWNER Stokes Hurst
Address Rt. 2
NEW Milton, W.Va
Acreage 151.99

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Willis G. TETRICK
Address UNION National Center
CLARKSBURG, W.Va. 26301

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

NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Lee Casey
Address Good Hope Rd
JANE LEW, W.Va.
Telephone 884-7470

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract dated 10-19, 1981, to the undersigned well operator from _____.

(If said deed, lease, or other contract has been recorded:)
Recorded on 3-1-82
5-7-, 1921, in the office of the Clerk of County Commission of _____

Doddridge County, West Virginia, in 76 Book at page 185. 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 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
Phone - 384/348-3092

WATKINS & WATKINS
Well Operator
By: Terry Watkins
Its: _____

GUARANTEE BOND

Revised 3-81)

PROPOSED WORK ORDER

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

DILLING CONTRACTOR (IF KNOWN) SPENCER Drilling Co.

Address _____
WEST UNION, W. Va.

GEOLOGICAL TARGET FORMATION Through Big INJUN + 50'
Estimated depth of completed well 2025 feet. Rotary Cable tools
Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
Approximate coal seam depths: _____
Is coal being mined in this area: Yes No

DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor	8 5/8			<input checked="" type="checkbox"/>		HSS	HSS	10' Surface
Fresh water								Kinds
Galvanneal								Sizes
Termed.								
Production tubing	4 1/2			<input checked="" type="checkbox"/>		2190	300'	Depths set
Packers								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, 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.

John B. Buehler
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 agent / 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 coal operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: 1 December, 1981.

Willis G. Tetrick Jr.
By: Agent.

Its: _____