



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 660 Feet
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION B.S. & I. S. M. Elev. - N. E. Cor. Williams Tape Map

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

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. Williams R.P.E. L.S. No. 7



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 1172 WATER SHED Hughes River
 DISTRICT Central COUNTY Putnam
 QUADRANGLE Penningers 7 1/2 Union 15' 30" ACREAGE 201 ac.
 SURFACE OWNER Robert E. Phillips
 OIL & GAS ROYALTY OWNER W. F. Hudkins Heirs LEASE ACREAGE 201 ac.

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 ESTIMATED DEPTH 240'
 TARGET FORMATION W.S.V
 WELL OPERATOR W. F. Joint Venture #3 DESIGNATED AGENT Thomas J. Eubachy
 ADDRESS 24 Valley St. Salem, W. Va.

H. T. HALL 6-6 Greenwood (89)

PLACE SEAL HERE

DATE April 29, 1983
 OPERATOR'S WELL NO. No. 22
 API WELL NO. 47-017-3224
 STATE VA COUNTY PUTNAM PERMIT _____

JUN 21 1983

LATITUDE 39°17'30"
 LONGITUDE 80°52'30"



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 6-21-83
Operator's Hubkins
Well No. Hubkins
Farm Hubkins
API No. 47-017-1224

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1172 Watershed _____
District: Central County Doddridge Quadrangle _____

COMPANY West Virginia Joint Ventures

ADDRESS _____
DESIGNATED AGENT James Fluharty
ADDRESS Box 226 Salem W.V.
SURFACE OWNER Robert Phillips
ADDRESS West Union W.V.
MINERAL RIGHTS OWNER Hubkins Heirs
ADDRESS West Union W.V.

OIL AND GAS INSPECTOR FOR THIS WORK Steve

Casey ADDRESS Jane Lew
PERMIT ISSUED 6-10-83
DRILLING COMMENCED 6-14-83
DRILLING COMPLETED 6-19-83

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

| Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------|------------------|--------------|------------------------|
| Size 20-16 Cond. | | | |
| 13-10" | | 20' | |
| 9 5/8 | | | |
| 8 5/8 | | 400' | Surface |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | 2400 | 2400 |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Fracture Depth 2500 feet
Depth of completed well 2400 feet Rotary Cable Tools _____
Water strata depth: Fresh 70 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Fracture Pay zone depth 2324 feet
Gas: Initial open flow 1900 Mcf/d Oil: Initial open flow 2 Bbl/d
Final open flow 5000 Mcf/d Final open flow 5 Bbl/d

Time of open flow between initial and final tests 12 hours
Static rock pressure 425 psig (surface measurement) after 12 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

Stamp: MAR 4 1988

(Continue on reverse side)

7

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS |
|-----------|-------|--------------|----------|-------------|---|
| C/24 | | | 0- | 10 | Including indication of all fresh and salt water, coal, oil and gas Fresh Water to |
| SAND | | | 10 | 39 | |
| Red Rock | | | 39 | 106 | |
| SAND | | | 106 | 200 | |
| Red Rock | | | 200 | 320 | |
| SAND | | | 320 | 550 | |
| Shale | | | 532 | 680 | |
| Red Rock | | | 680 | 715 | |
| Shale | | | 715 | 910 | |
| Red Rock | | | 910 | 990 | |
| Shale | | | 990 | 1080 | |
| SAND | | | 1080 | 1230 | |
| Shale | | | 1220 | 1407 | |
| SAND | | | 1407 | 1530 | |
| Red Rock | | | 1530 | 1620 | |
| SAND | | | 1620 | 1680 | |
| Shale | | | 1680 | 1910 | |
| SAND | | | 1910 | 2030 | |
| Shale | | | 2030 | 2080 | |
| SAND | | | 2080 | 2290 | |
| lime | | | 2080 | 2340 | |
| SAND | | | 2340 | 2365 | |
| Shale | | | 2365 | 2400 | |
| SAND | | | 2365 | 2400 | show oil + Gas |

(Attach separate sheets as necessary)

West Virginia Drilling #3
Well Operator

By: Thomas J. Shultz
Date: 6-21-83

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."
590

[08-78] : OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. NO-22

API Well No. 47 - 017 3224 State County Permit:

WELL TYPE: Oil Gas

(If "Gas", Production Underground storage Deep Shallow)

LOCATION: Elevation: 1172 ft. Watershed: Hughes River
District: Central County: Reddridge Quadrangle: Beareshore

WELL OPERATOR W. Va. Joint Venture #3
Address 94 Valley St. Salem, W. Va.

DESIGNATED AGENT Thomas J. Fluharty
Address 94 Valley St. Salem, W. Va.

OIL & GAS ROYALTY OWNER Ray C. Hudkins and others
Address Route 1, Box 36 Greenwood, W. Va. 26360

COAL OPERATOR None
Address:

ACREAGE 201 AC.
SURFACE OWNER Robert E. Phillips
Address Leeson's Run Greenwood, W. Va. 26360

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____ Address _____

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

Name _____ Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____ Address _____
Name _____ Address _____
Name _____ Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____ Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed lease other contract dated May 15, 1982, 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 Reddridge County, West Virginia, in Lease Book 126 at page 860. 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 plan 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
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

By W. Va. Joint Venture #3 Well Operator

Thomas J. Fluharty

RECEIVED

JUN - 6 1983

C.I. & GAS DIVISION
DEPT. OF MINES

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN)

Address

GEOLOGICAL TARGET FORMATION, Wet

Estimated depth of completed well, 2400' feet Rotary Cable tools

Approximate water strata depths: Fresh, 250 feet; Salt, _____ feet.

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

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS: | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS | |
|-----------------------|-----------------|-------|-------------------|------|--------------------------------------|------------|--------------|
| | Size | Grade | Weight per ft | Used | | | Per drilling |
| Conductor | 11 7/8 | | | X | 20' | 20 | |
| Fresh water | 8 7/8 | | 200# | X | 400' | to Surface | |
| Coal | | | | | | | |
| Intermediate | | | | | | | |
| Production | 4 1/2 | | 10.5 | | | | |
| Tubing | | | | | | | |
| Liners | | | | | | | |

2,400 Cement to 300' above Production horizon was required by Sub 15b1 or into the sand

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 plan in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 18, 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 § 22-4-2B, and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) the consent required by Code § 22-4-8a from the owner of any water belt or area 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 issued and is to be recorded on the Form IV-2.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 2-10-84

[Signature]

The following entry must be completed by the coal operator and the 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:

WITNESSETH

The undersigned coal operator / owner / lessee of the coal in/on 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____

[Signature]
Its: _____

