J. H. LOWOTHER HRS.
83 acres

B. L. GROAH

FILE NO.
DRAWING NO.
SCALE. 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1 in 200
PROVEN SOURCE OF
ELEVATION. DODD. GAS NO.
10. Well No. 3 - 1079

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS," PRODUCTION STORAGE DEEP SHALLOW X
LOCATION: ELEVATION. 816' WATER SHED. Toms' Fork
DISTRICT. New Milton COUNTY. Doddridge
QUADRANGLE. VADIS NW 12 NEW Milton 7 1/2
SURFACE OWNER. Hazel F. Lowther ACREAGE 83
OIL & GAS ROYALTY OWNER. J. H. Lowther LEASE ACREAGE 83

LEASE NO. PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRAC TURE OR
STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION ESTIMATED DEPTH
WELL OPERATOR DESIGNATED AGENT
ADDRESS

DATE JUNE 11 1984
OPERATOR'S WELL No. 4
API WELL No. 47 017 0952-20 P
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
FORM IV-6
(1-8)

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.

(SIGNED) R. M. WILLIAM R. P. E.

L. L. S. 105

PLACE SEAL HERE

New Milton W. Va. 4 6-6 1984

-1-

144)
Redrill... □
New Location... X
Drill Deeper... □
Abandonment... □

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas division of the mining laws of West Virginia.

Minimum accuracy, one part in 200

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

WELL LOCATION MAP
FILE NO. DOD-952

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

Denotes one inch spaces on border line of original tracing.
State of West Virginia  
Department of Mines  
Oil and Gas Division  
CORRECTED

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 X  /  Underground Storage  /  Deep  /  Shallow  / )

LOCATION:  
Elevation:  816’  
District: New Milton  
County: Doddridge  
Quadangle New Milton 7.5

COMPANY  
George Jackson

ADDRESS  
P.O. Box 1698, Clarksburg, WV

DESIGNATED AGENT  
George Jackson

ADDRESS  
P.O. Box 1698, Clarksburg, WV

SURFACE OWNER  
Hazel Louther

ADDRESS  
New Milton, WV 26411

MINERAL RIGHTS OWNER  
Hazel Louther

ADDRESS  
New Milton, WV 26411

OIL AND GAS INSPECTOR FOR THIS WORK  
Harold Mike Underwood

ADDRESS  
Route 2, Box 114

PERMIT ISSUED  
7/17/84

DRILLING COMMENCED  
7/11/85

DRILLING COMPLETED  
7/21/85

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

GEOLOGICAL TARGET FORMATION  
Alexandria

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GEOLOGICAL TARGET FORMATION  
Alexandria

Depth  5,200 feet

Depth of completed well  5,255 feet  
Rotary  X  /  Cable Tools

Water strata depth:  Fresh feet;  Salt feet

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

OPEN FLOW DATA  
Producing formation  
Alexandria

Pay zone depth  5050-5110 feet

Gas:  Initial open flow  555,000 Mcf/d  
Final open flow  555,000 Mcf/d

Oil:  Initial open flow  Ebl/d  
Final open flow  Ebl/d

Time of open flow between initial and final tests  hours
Static rock pressure  1350# psig(surface measurement) after 72 hours shut in
(If applicable due to multiple completion)

Second producing formation  
Pay zone depth  feet

Gas:  Initial open flow  Mcf/d  
Final open flow  Mcf/d

Oil:  Initial open flow  Ebl/d  
Final open flow  Ebl/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.

**Perforations:**
- Zones 5109.5, 5097.5, 5075.5, 5074.5, 5052 Perforated with 1 11/16 In. dia.
  + Hyperdome thru tubing guns
- Zones 3242.5, 3240, 3220.5, 3218.5, 3193.5, 3191.5 Perforated with 2 1/8 In.
  + dia. Hyperdome thru tubing guns

**Fracturing:**
- Acid: 1000 g 15% HCL
- Sand: 900 sx
- Water: 1000 Bbls.
  + Mechanical (Drillable) Plug set at 2,280'

**WELL LOG**

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<th>COLOR</th>
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<th>BOTTOM FEET</th>
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**TOTAL DEPTH**

(Attach separate sheets as necessary)

---

**Well Operator:**

[Signature]

**By:**

[Signature]

**Date:** October 11, 1985

---

**Note:** Regulation 2.02(c) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including mud, encountered in the drilling of a well."
**WELL RECORD**

**State of West Virginia**
**Department of Mines**
**Oil and Gas Division**

**Quadrangle**: Vadis

**Permit No.**: DOD-952

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<td>Address</td>
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**Farm**: J. H. Lowther

**Location (waters)**: Tom's Fork

**Well No.**: 4

**District**: New Milton

**County**: Doddridge

**Elev.**: 816

**The surface of tract is owned in fee by**: Hazel F. Lowther

**New Milton**: WVa.

**Mineral rights are owned by**: J. H. Lowther, et al

**Address**: 

**Drilling commenced**: 4/20/63

**Drilling completed**: 5/14/63

**With Acidized - Fractured**: 

**Open Flow**: 18/10ths Water in 1 1/2 Inch

**10ths Merc. in**: Inch

**Volume**: 76,853

**Cu. Ft.**: 

**Rock Pressure**: 260 lbs. 1.8 hrs.

**Oil**: 20

**WELL ACIDICIZED.**

**WELL FRACTURED. 900 Barrels of water.**

**RESULT AFTER TREATMENT**: 20 barrels of oil.

**ROCK PRESSURE AFTER TREATMENT**: 260 pounds - 48 hours.

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Water at 75 feet. One barrel per hour.
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Total depth 1924.

Perforation data
- 5 1/2 in. pipe
- 12 holes 1874 to 1878
- 2 holes 1894 to 1895
- 2 inch pipe perforated at 1864.

Date: May 31, 1963

APPROVED

DODDRIDGE GAS NO. 10

Owner

By [Signature]
## APPLICATION FOR A WELL WORK PERMIT

**Date:** July 2, 1984

**State:** West Virginia

### 4) OIL & GAS DIVISION

**DEPT. OF MINES:** 816't Underground storage

**Location:** New Milton

**District:** New Milton

**Watershed:** Tom's Fork

**County:** Doddridge

**Quadrangle:** New Milton 7.5

### 6) WELL OPERATOR

**Name:** George Jackson

**Address:** P.O. Box 1698

**City:** Clarksburg

**State:** WV

**ZIP:** 26302

### 8) OIL & GAS INSPECTOR TO BE NOTIFIED

**Name:** Harold Mike Underwood

**Address:** Route 2, Box 114

**City:** Salem

**State:** WV

**ZIP:** 26246

### 10) PROPOSED WELL WORK:

- Drill
- Deepen
- Redrill
- Stimulate

**Other physical change in well (specify): Drill thru 5 3/16" pipe from 1925' to 6000'

### 11) GEOLOGICAL TARGET FORMATION:

- **Formation:** Alexander Horizon
  - **Estimated depth:** 5800 feet
  - **Approximate tracts depths:** Fresh, 50 feet; Salt, 1600 feet

### 15) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th><strong>Casing or Tubing Type</strong></th>
<th><strong>Specifications</strong></th>
<th><strong>Footage Intervals</strong></th>
<th><strong>Cement Fill-Up or Sacks (Cable feet)</strong></th>
<th><strong>Packers</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>13&quot; API</td>
<td>New</td>
<td>26'</td>
<td>26'</td>
</tr>
<tr>
<td>Fresh water</td>
<td>10&quot; API</td>
<td>Used</td>
<td>265'</td>
<td>265'</td>
</tr>
<tr>
<td>Coal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate</td>
<td>5 3/16&quot; API</td>
<td>X</td>
<td>1925'</td>
<td>1925'</td>
</tr>
<tr>
<td>Production</td>
<td>3 1/2&quot; API</td>
<td>X</td>
<td>5700'</td>
<td>5700'</td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### OFFICE USE ONLY

**Permit number:** 47-017-0952-DD-FRAC

**Date:** July 17, 1984

**Permit expires:** July 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

**Bond:** Blanket

**Agent:** [Signature]

**Plat:** [Signature]

**Casing:** [Signature]

**File:** [Signature]

**NOTE:** Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.
STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
SECTION OF OIL AND GAS  

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: LOWTHER, HAZEL F.  
Operator Well No.: Lowther #4DD

LOCATION:  
Elevation: 816.00  
Quadrangle: NEW MILTON  
District: NEW MILTON  
County: DODDRIDGE

Latitude: 39 Deg. 15 Min.  
Longitude: 7975 Feet West of 80 Deg. 40 Min.  
Sec.

Well Type: OIL  
GAS x

Company:  
Jackson Fuel  
PO Box 1698  
Clarksburg, WV 26301

Coal Operator or Owner: NA

Agent:  
David Nichols

Coal Operator or Owner: NA

Permit Issued: 02/22/96

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Upshur  
ss:

Robert L. Wharton and Don Elmer being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Mike Underwood, Oil and Gas Inspector representing the Director, say that said work was commenced on the 10th day of April, 1996, and that the well was plugged and filled in the following manner:

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>PIPE REMOVED</th>
<th>LEFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement</td>
<td>5240</td>
<td>5000</td>
<td>3'-1700</td>
<td>3500</td>
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<tr>
<td>Gel</td>
<td>5000</td>
<td>0</td>
<td>10&quot; 107</td>
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<tr>
<td>Cement</td>
<td>3260</td>
<td>3125</td>
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<td>1701</td>
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<td></td>
</tr>
<tr>
<td>Cement</td>
<td>1601</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of monument: Erect monument per DOE regulations

and that the work of plugging and filling said well was completed on the 1st day of May, 1996.

And further deponents saith not.

Sworn and subscribe before me this 8th day of May, 1996.

My Commission Expires: 7-2-1998

Gas Inspector: Mike Underwood

Notary Public: Don Murray