STATE OF WEST VIRGINA
DEPARTMENT OF MINES, BUD AND GAS DIVISION

WELL OPERATOR'S REPORT OF RELEVELING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal

Location: Elevation: 2107
District: Union
County: Marshall
WELL OPERATOR: Universal Minerals, Inc.
Address: 6600 Busch Blvd.
Columbus, Ohio 43229

DESIGNATED AGENT: Carroll Morris
Address: Rt. A06 Box 85
Cameron, W. Virginia 26033

PERMITTED WORK: Drill X / Convert ___ / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perform new formation X / Other physical change on well (specify) ___

OIL & GAS INSPECTOR FOR THIS WORK:
Name: Philip L. Tracy
Address: P.O. Box 173
Middlebourne, W. Va. 26149

GEOLOGICAL TARGET FORMATION: Gordon - 5th Sand
Depth 3100 feet

Depth of completed well: 3000 feet / Rotary X / Cable Tools
Water strata depth: Fresh 40 feet / salt 1683 feet
Coal seam depths: 700-703-722-727
Is coal being mined in the area: Yes
Work was commenced 10/2 / 1980, and completed 10/6/80

CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>Casing or Tubing Type</th>
<th>Specifications</th>
<th>Footage Intervals</th>
<th>Cement Fill-on Sacks</th>
<th>Packers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor 12</td>
<td>X</td>
<td>30 / 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh water 8 1/2</td>
<td>X</td>
<td>792 / 792</td>
<td>230 sacks</td>
<td></td>
</tr>
<tr>
<td>Coal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate</td>
<td>10 1/2</td>
<td>2932</td>
<td>300 sacks</td>
<td></td>
</tr>
<tr>
<td>Production</td>
<td>X</td>
<td>2732</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubing</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPEN FLOW DATA

Producing formation: Gordon - 5th Sand
Pay zone depth 2770-2925 feet

Gas: Initial open flow 400 Mcf/d
Final open flow, 200 Mcf/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 200 psi (surface measurement) after 4 hours shut in

Second producing formation: Well 8
Pay zone depth 2142-58 feet

Gas: Initial open flow 400 Mcf/d
Final open flow, 200 Mcf/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 200 psi (surface measurement) after 4 hours shut in
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st stage - Perf. 2770 - 2925 with 15 slots. Frac. with 30,000 gallons water, 45,000 lbs. 20/40 sand. Breakdown = 3200 psi. 35BPM at 2575 psi. Immediate shut in 1800 psi.

2nd stage - Perf. 2142-58' with 12 slots. Frac. with 34,000 gallons water, 45,000 lbs. 20/40 sand and 90 MCF N₂. Breakdown = 4000psi. 29 BPM at 3008 psi. Immediate shut in 1450 psi.

WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Foot</th>
<th>Bottom Foot</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>10</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Sandy shale</td>
<td></td>
<td>soft</td>
<td>30</td>
<td>78</td>
<td>Fresh water 40'</td>
</tr>
<tr>
<td>Shale</td>
<td>red</td>
<td>soft</td>
<td>78</td>
<td>95</td>
<td></td>
</tr>
<tr>
<td>Sandy shale</td>
<td></td>
<td>soft</td>
<td>95</td>
<td>470</td>
<td></td>
</tr>
<tr>
<td>Sandstone</td>
<td></td>
<td>soft</td>
<td>470</td>
<td>530</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td>hard</td>
<td>530</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Coal</td>
<td>black</td>
<td>soft</td>
<td>700</td>
<td>703</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td>hard</td>
<td>703</td>
<td>722</td>
<td></td>
</tr>
<tr>
<td>Coal</td>
<td>black</td>
<td>soft</td>
<td>722</td>
<td>727</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td>hard</td>
<td>727</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>red</td>
<td>soft</td>
<td>800</td>
<td>840</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>gray</td>
<td>soft</td>
<td>840</td>
<td>1105</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>red</td>
<td>soft</td>
<td>1105</td>
<td>1110</td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td>white &amp; gray</td>
<td>hard</td>
<td>1110</td>
<td>1980</td>
<td>salt water 1683</td>
</tr>
<tr>
<td>Shale</td>
<td>gray</td>
<td>soft</td>
<td>1980</td>
<td>2524</td>
<td></td>
</tr>
</tbody>
</table>

Universal Minerals, Inc.

Well Operator

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 data, encountered in the drilling of a well."
## WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR</th>
<th>HARD/ SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shale</td>
<td>red</td>
<td>soft</td>
<td>2524</td>
<td>2531</td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>gray</td>
<td>soft</td>
<td>2531</td>
<td>2750</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td>soft</td>
<td>2750</td>
<td>3008</td>
<td></td>
</tr>
</tbody>
</table>

*Incl. indication of all fresh and salt water, coal, oil & gas*
OIL & GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /

Location: Elevation: 1237
Watershed: Little Grave Creek
District: Union
County: Marshall
Community: Moundsville

WELL OPERATOR: Universal Minerals, Inc.
Address: P.O. Box 29192
Columbus, Ohio 43229

DESIGNATED AGENT: David W. Core
Address: 1009 Jefferson Avenue
Moundsville, W.V. 26041

OIL & GAS ROYALTY OWNER: C. Hazlett Estate
Address:

SURFACE OWNER: Town of Glen Dale
Address: Glen Dale, West Virginia

FIELD DATE (IF MARCHED TO):
Name: None
Address:

OIL & GAS OPERATOR TO BE NOTIFIED:
Name: Phillip L. Tracy
Address: P.O. Box 173
Middlebourne, W. Va. 26149

The undersigned well operator is entitled to operate for oil or gas purposes at the above
location under a deed / lease / other contract X / dated August 26, 1980, to the
undersigned well operator from Warren Explanations, Inc. (unrecorded agreement)
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 X / Drill deeper / Redrill / Fracture or stimulate X /
Plug off old formation / Perforate new formation X /
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 § 22a-3-3 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 lease
on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at
Charleston, West Virginia.

PLATE(S) SUBMITTED TO ALL DEPARTMENTAL AND DISTRICT OFFICES:
WEST VIRGINIA OIL AND GAS REGISTRATION DEPARTMENT
1411 MAIN STREET EAST
CHARLESTON, W. VA 25311
TELEPHONE: 133-1 149-1898

BLANKET BOND

Universal Minerals, Inc.

By ____________________
F. L. Tracy
S. President
**PROPOSED WRP ORDER**

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

**DRILLING CONTRACTOR** (IF KNOWN)

Address

**GEOLICAL TARGET FORMATION**

Gordon Sandstone

Estimated depth of completed well, feet: 1200 feet

Rotary X

Date until

Approximate water strata depths:

- Fresh, 50' feet
- Salt, 1200' feet

Approximate coal seam depths: 700' Is coal being mined in the area? Yes X

**CAGING AND TUBING PROGRAM**

<table>
<thead>
<tr>
<th>Casing or Tubing Type</th>
<th>Specifications</th>
<th>footage intervals</th>
<th>cement string or balls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor 12&quot;</td>
<td>30' X 0</td>
<td></td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Fresh water</td>
<td>23 X</td>
<td>750' 750'</td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Coal 8 5/8&quot;</td>
<td>X</td>
<td>10 5 3100' 3100'</td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Intermediate</td>
<td></td>
<td></td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Production 4 1/2&quot;</td>
<td>X</td>
<td>10 5 3100' 3100'</td>
<td>LinkedIn</td>
</tr>
<tr>
<td>Lining</td>
<td></td>
<td></td>
<td>LinkedIn</td>
</tr>
</tbody>
</table>

**NOTE:** Regulation 7.05 of the Department of Mines provides that the original and four copies of Form IV-2 shall be filed with the Department, accompanied by 11" a plot in the form prescribed by Regulation 7.1, whereby the search area allowed by Code §22-4-40, 936.5 Form 129, “A declaration” applicable to the reclamation required by Code §22-4-122 and Regulation 33. The work previously paid on the same well, the fee required by Code §22-4-122, and that of the work, the consent required by Code §22-4-16a from the source of any water well is obtained within 100 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating if where fracturing or stimulating is to be part of the work for which a permit is issued, well be 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

[Signature]

Deputy Director - Oil & Gas Division

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The following waiver must be completed by the coal operator or 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 V E R**

The undersigned coal operator owner lessee of the coal mine to which this location has been added to the mine map, the undersigned has examined this proposed well location. 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

[Signature]