State of West Virginia
Department of Mines
Oil and Gas Division

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: 1015' Watershed Williams Run
District: Webster County Marshall Quadrangle Majorsville 7.5'

COMPANY: WHITNAM OIL & GAS CORPORATION
ADDRESS: 100 Front St, Marietta, Ohio 45750

DESIGNATED AGENT: John E. Williams

ADDRESS: Rt. #1, Box 41, Linn, W.Va. 26384

SURFACE OWNER: Raymond L. Dunn

ADDRESS: Rt. #4, Box 55, Cameron, W.Va. 26033

MINERAL RIGHTS OWNER: Same

ADDRESS: 

OIL AND GAS INSPECTOR FOR THIS WORK: Phillip Tracy

ADDRESS: Rt.23, Alma, W.Va. 26320

PERMIT ISSUED: 12/18/81

DRILLING COMMENCED: 1/19/82

DRILLING COMPLETED: 1/29/82

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

GEOLOGICAL TARGET FORMATION: Alexander

Depth of completed well 5491 feet Rotary X / Cable Tools

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: See Log Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation: Devonian Shale Pay zone depth 1760-3770 feet

Gas: Initial open flow 75 Mcf/d Oil: Initial open flow ---- Bbl/d

Final open flow 20 Mcf/d Final open flow ---- Bbl/d

Time of open flow between initial and final tests ---- hours

Static rock pressure 1400 psig(surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation: N/A 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 June 14 1985

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

(Continue on reverse side)
DETAILED OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforate @ 3760-3770 40 Shots  
1 - 12' Stress Frac  
Frac w/ 1260,000 SCF N₂

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WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR</th>
<th>HARD OR SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Big Dunkard Sand</td>
<td></td>
<td></td>
<td>1197</td>
<td>1213</td>
<td></td>
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<tr>
<td>Upper Freeport Coal</td>
<td></td>
<td></td>
<td>1215</td>
<td>1218</td>
<td>Coal</td>
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<tr>
<td>Lower Freeport Coal</td>
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<td>1258</td>
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<td>Clairion Coal</td>
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<td>1363</td>
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<tr>
<td>Brookville Coal</td>
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<td>1395</td>
<td>1399</td>
<td>Coal</td>
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<tr>
<td>1st &amp; 2nd Salt Sand</td>
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<td>1430</td>
<td>1466</td>
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</tr>
<tr>
<td>3rd Salt Sand</td>
<td></td>
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<td>1510</td>
<td>Gas</td>
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<tr>
<td>Greenbrier L.S.</td>
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<td>1618</td>
<td>1709</td>
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<tr>
<td>Keener Sandstone</td>
<td></td>
<td></td>
<td>1713</td>
<td>1755</td>
<td>Gas</td>
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<tr>
<td>Big Injun</td>
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<td>1755</td>
<td>1874</td>
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<tr>
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<tr>
<td>Shale</td>
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<td>5418</td>
<td></td>
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</tbody>
</table>

(Attach separate sheets as necessary)

WHITNAM OIL & GAS CORPORATION

Well Operator

By: [Signature]  
Date: 9/21/82

Note: Regulation 2.02(f) 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.'"
**OIL AND GAS WELL PERMIT APPLICATION**

**API No.** 47 - 0510684  
**State County Perm.** R. Dunn #1

**WELL TYPE:** Oil x / Gas x / (If "Gas", Production x / Underground storage___ / Deep____ / Shallow____)  
**Elevation:** 1015  
**Watershed:** Williams Run  
**District:** Webster  
**County:** Marshall  
**Quadrangle:** Majorsville 7.5'  
**Area of Permit:** 40 acres  
**County:** Marshall  
**Watershed:** Williams Run  
**District:** Webster  
**County:** Marshall  
**Quadrangle:** Majorsville 7.5'

**WELL OPERATOR**  
**WHITNAM OIL & GAS CORPORATION**  
**DESIGNATED AGENT**  
**Address:** P. O. Box 719  
**Marietta, Ohio 45750**

**COAL OPERATOR**  
**N/A**  
**Address**

**FACE OWNER**  
**Raymond L. Dunn**  
**Address:** R. D. #4, Box 55  
**Cameron, W. Va. 26033**

**SURFACE OWNER**  
**Raymond L. Dunn**  
**Address:** R. D. #4, Box 55  
**Cameron, W. Va. 26033**

**Acreage:** 107

**FIELD SALE (IF MADE TO):**

**Name**

**Address**

**OIL AND GAS INSPECTOR TO BE NOTIFIED:**

**Name:** Phillip L. Tracy

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 Oct. 1, 1981, to the undersigned well operator from Carl E. Smith Petroleum, Inc. If said deed, lease or other contract has been recorded:

**RECEIVED**

**Address**

**COAL OWNER(S) WITH DECLARATION ON RECORD:**

**Name**

**Address**

**COAL LESSEE WITH DECLARATION ON RECORD:**

**Name**

**Address**

**PROPOSED WORK:**

Drill X / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation /

Other physical change in well (specify)

**BLANKET BOND**

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 Department. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed or delivered by hand to the above named coal operator, coal owner(s), and lessee(s) on or before the day of mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia. **PLEASE SUBMIT COPIES OF ALL**

**WHITNAM OIL & GAS CORPORATION**

---planned as shown on the work order on the reverse side hereof.
PROPOSED WORK ORDER

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

MAILLING CONTRACTOR (IF KNOWN) PAN EASTERN DRILLING
Address Route 2, Box 44AA
Lowell, Ohio 45744

GEOLICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet
Rotary X / Cable tools /

Approximate water strata depths: Fresh, 200 feet; salt, Feet.

Approximate coal seam depths: ________ Is coal being mined in the area? Yes / No X /

USING AND TUBING PROGRAM

USING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILL-UP PACKERS
TUBING TYPE Weight Size Grade No. per ft. New Used For drilling Left in well (Cubic Feet)

Conductor 11 3/4 X 36' 15 sacks Kinds

Fresh water 8 5/8 X 1200' To surface

Kinds

Intermediate

Reduction 5 3/4 X 5500' Can ox or as Depths set

Required by Rule 15.01

Others

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 (1) a plot in the form prescribed by Regulation 11, (2) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-12a, (3) Form IV-8, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (1a) unless previously paid on the same well, the fee required by Code § 22-4-12c, and (4) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 100 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 WEL SITE

All permission given 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 8-21-82.

Deputy Director - Gas & Oil Division

The following water 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 T E R

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