Allied Signal, Inc.
P.O. Box J
Moundsville, Wv. 26041

WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 HCJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506

WELL LOCATION MAP
FILE NO. 47-37-RD-44

+ Denotes location of wells on United States
Topographic Maps, where 1" equals 62,500
Usable by border lines as shown.

- Denotes one inch spaces on border line
of original tracing.
Fracture
Before 6/5/27
New Location
Drill Deeper
Redrill
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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION Well N11 635.68

Company  I.C. DIV., ALLIED CHEMICAL CORP.
Address  MOUNDSVILLE, W. VA.
Farm  FORMERLY HENRY & GOLDIE UNTERZUBER
Tract  Acres 30.59  Lease No. OWNED
Well (Farm) No. 11  Serial No.
Elevation (Spirit Level)  635.68
Quadangle  CLARINGTON
County  MARSHALL  District  CLAY
Engineer  [Signature]
Engineer's Registration No.  1673
File No.  Drawing No.
Date  11/19/68  Scale  1" = 400'

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

WELL LOCATION MAP
FILE NO. Mars-537

+ 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.

Deep Well (Salina)  9-69
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle NE/4 Clarington 15'
Permit No. MARS 537 RED

<table>
<thead>
<tr>
<th>Company</th>
<th>Allied Chemical Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>P. O. Box E, Moundsville, WV 26041</td>
</tr>
<tr>
<td>Acres</td>
<td>30.39</td>
</tr>
<tr>
<td>Location (waters)</td>
<td>Ohio</td>
</tr>
<tr>
<td>Well No.</td>
<td>11</td>
</tr>
<tr>
<td>Elev.</td>
<td>635'</td>
</tr>
<tr>
<td>District</td>
<td>Clay</td>
</tr>
<tr>
<td>County</td>
<td>Marshall</td>
</tr>
<tr>
<td>The surface of tract is owned in fee by</td>
<td>Allied Chemical Corporation</td>
</tr>
<tr>
<td>Address</td>
<td>Same</td>
</tr>
<tr>
<td>Drilling Commenced</td>
<td>8-18-77</td>
</tr>
<tr>
<td>Drilling Completed</td>
<td>10-14-77</td>
</tr>
<tr>
<td>Initial open flow</td>
<td>------ cu. ft. ------ bbls.</td>
</tr>
<tr>
<td>Final production</td>
<td>------ cu. ft. per day ------ bbls.</td>
</tr>
<tr>
<td>Well open</td>
<td>------ hrs. before test ------ RP.</td>
</tr>
<tr>
<td>Cement fill up</td>
<td>90 sx to surf.</td>
</tr>
<tr>
<td></td>
<td>500 sx to surf.</td>
</tr>
<tr>
<td></td>
<td>200 sx</td>
</tr>
</tbody>
</table>

Well treatment details:
Attach copy of cementing record.

This well was fractured through the salt section at a depth of 6500' using fresh water. The connection was back to the old #11 cavity and thence to #10 outlet well. Fresh water was injected for a period of 32 days to effect a washout of salt and achieve a low pressure connection. Brine returns from #10 was used in plant production.

| Coal was encountered at | None. |
| Fresh water             | None. |
| Salt Water              | None. |

Producing Zone: Salt Depth 6400 to 6500

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>The formation drilled was the same as original well MARS - 537 - Bore hole traversed same general strata.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE - This well was directionally drilled to a point 350 ft. north and 60' east of the original bottom location to make a new cavity and in effect a new well. 

* Indicates Electric Log tops in the remarks section.
STATE OF WEST VIRGINA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. MARS-537

Quadrate: Businessburg, Ohio - W. Va.

Company: Industrial Chemicals Div., Allied Chemical Corp.
Address: Moundsville, West Virginia

Farm: 30.59
Location (water): Ohio River
Well No.: 11
Elev.: 635.5

District: Clay
County: Marshall

The surface of tract is owned in fee by: Allied Chemical Corp.
Address: Moundsville, W. Va.

Mineral rights are owned by: Allied Chemical Corp.
Address: Moundsville, W. Va.

Drilling commenced: November 1, 1968
Drilling completed: November 21, 1968
Date Shot: From To
With:

Open Flow: 110 lbs Water in
110 lbs Merc. in
Volume:
Ct. Ft.
G.P. Pressure
Bar.: hrs.

WELL ACIDIZED (DETAILS):
WELL FRACTURED (DETAILS):

RESULT AFTER TREATMENT (Initial open Flow or bbls.):
WATER PRESSURE AFTER TREATMENT:

Jock Water
Feet
Salt Water
Feet
Producing Sand
Depth

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Gravel</td>
<td></td>
<td></td>
<td>0</td>
<td>79</td>
<td></td>
<td></td>
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<tr>
<td>Gravel, Shale</td>
<td></td>
<td></td>
<td>79</td>
<td>85</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>85</td>
<td>107</td>
<td>Water</td>
<td>104</td>
<td>13-3/8&quot; - '85'</td>
</tr>
<tr>
<td>Shale, Red Rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>Gray</td>
<td></td>
<td>107</td>
<td>418</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>Gray</td>
<td></td>
<td>418</td>
<td>438</td>
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</tr>
<tr>
<td>Red Rock</td>
<td>Gray</td>
<td></td>
<td>438</td>
<td>450</td>
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<tr>
<td>Shale</td>
<td>White</td>
<td></td>
<td>450</td>
<td>555</td>
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<tr>
<td>Sand</td>
<td>White</td>
<td></td>
<td>555</td>
<td>605</td>
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</tr>
<tr>
<td>Shale &amp; Sand</td>
<td></td>
<td></td>
<td>605</td>
<td>630</td>
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<td></td>
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<td>655</td>
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<td>Sandy Shale Sand</td>
<td>Gray</td>
<td>Broken</td>
<td>1025</td>
<td>1040</td>
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<tr>
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<td>Sand and Shale</td>
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<td>1080</td>
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<td>1080</td>
<td>1120</td>
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<tr>
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<td></td>
<td></td>
<td>1120</td>
<td>1170</td>
<td></td>
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</tr>
</tbody>
</table>

Attach copy of consenting record.
CASING CEMENTED 13-3/8" Size 4" No. 11/1/68. (See Remarks below.)
Name of Service Co.: Halliburton Company

COAL WAS ENCOUNTERED AT

FEB 23 1969
<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top / %</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>1170</td>
<td>1425</td>
<td></td>
<td></td>
<td>9-5/8&quot; Casing at 1,106', Cemented with 500 sacks.</td>
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<tr>
<td>Sand &amp; Shale</td>
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<td></td>
<td>1642</td>
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<td>5150</td>
<td>5554</td>
<td>Gas Blowouts</td>
<td>5480, 5500</td>
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<tr>
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<tr>
<td>Chert &amp; Oriskany</td>
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<tr>
<td>- Sand</td>
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<td>5653</td>
<td>5755</td>
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</tr>
<tr>
<td>Sand &amp; Lime</td>
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<td></td>
<td>5940</td>
<td>5978</td>
<td></td>
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</tr>
<tr>
<td>Lime &amp; Shale</td>
<td></td>
<td></td>
<td>5978</td>
<td>6330</td>
<td></td>
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<tr>
<td>Shale</td>
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<td></td>
<td>6130</td>
<td>6365</td>
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<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>6365</td>
<td>6402</td>
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<tr>
<td>Salt</td>
<td></td>
<td></td>
<td>6402</td>
<td>6496</td>
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</tr>
<tr>
<td>Anhydrite</td>
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<td></td>
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<tr>
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<td>6508</td>
<td>6536</td>
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<tr>
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<td></td>
<td>6536</td>
<td>6548</td>
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</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6548</td>
<td></td>
</tr>
</tbody>
</table>

Date: December 12, 1968

Approved by: Allied Chemical Corp., Owner

By: President of Fox Rotary Drilling Corp.
TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner: ALLIED CHEMICAL CORPORATION
Address: P.O. Box E, Moundsville, W. Va.

Mineral Owner: Same
Address: Same

Coal Owner: Same
Address: Same

Coal Operator: Same
Address: Same

DATE: August 3, 1977

Company: ALLIED CHEMICAL CORPORATION
Address: P.O. Box E, Moundsville, W. Va.

Farm: Unterzuber
Location: 30.59
Acres: 30.59

Well No.: 11
Elevation: 635 ft.

County: Marshall

NE/4 Clarington 15th Quadrangle
NE/4 Clarington 15th Quadrangle
N 3952.5'-W 8045/7.5

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee

little thereto, (or as the case may be) under grant or lease dated

March 21, 1952, by

Underzuber UX ET
newly

and recorded on the

3rd day of March, 1952 in Marshall County, Book 283, Page 410

NEW WELL DRILL DEEPER REDRILL FRACUTRE OR STIMULAT

BRINE WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators

have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required
to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators
or coal owners at their above shown respective address

on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Please submit copies of all geological logs directly to:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. Box 879
Morgantown, West Virginia 26505

AC-304 - 292-6331

(Sign Name)  J. C. Ranch

WELL OPERATOR

Allied Chemical Corporation
P.O. Drawer E

Moundsville

West Virginia 26041

STATE

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of the plat and notice by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found therein by the department and that the same is approved and the well operator authorized to proceed.

I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements.

John C. Ranch

Mai.:

Original Mars 537 - Red

47-051
PROPOSED WORK ORDER TO DRILL XX DEEPEN XX FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT: 
NAME: S. W. Jack Drilling Co. NAME: 
ADDRESS: P.O. Box 754, Indiana, PA 15701 ADDRESS: 
TELEPHONE: 612-662-9191 TELEPHONE: 
ESTIMATED DEPTH OF COMPLETED WELL: 6500' ROTARY XXX CABLE TOOLS: 
PROPOSED GEOLOGICAL FORMATION: Salina 
TYPE OF WELL: OIL GAS COMB. STORAGE DISPOSAL 
RECYCLING WATER FLOOD OTHER Brine 

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING SIZE</th>
<th>USED FOR DRILLING</th>
<th>LEFT IN WELL</th>
<th>CEMENT FILL UP OR SACKS - CUBIC FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 - 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 - 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS 1200 FEET SALT WATER None FEET

APPROXIMATE COAL DEPTHS 90' (3 ft.)

IS COAL BEING MINED IN THE AREA? Yes 
BY WHOM: Consolidation Coal Co.

*No coal is being mined under or immediately adjacent to the Allied Chemical property herein described.

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title
AFFIDAVIT OF PLUGGING AND FILLING WELL

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

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: HANLIN CHEMICALS
Operator Well No.: 11

LOCATION:
Elevation: 635.68
Quadangle: BUSINESSBURG
District: CLAY
County: MARSHALL
Latitude: 1650 Feet South of 39 Deg. 55 Min. 0 Sec.
Longitude: 3000 Feet West of 80 Deg. 47 Min. 30 Sec.

Well Type: OIL GAS OTHER: BRINE

Company: Allied Signal Inc.
PO Box 1
Moundsville, WV 26041

Agent: Don P. DeNoon

Permit issued: 12/01/97

STATE OF WEST VIRGINIA,
Count of ss:

Union Drilling and James R. Harvat, Consultant 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 operator, and participated in the work of plugging and filling the above well, and Michael W. Lewis Oil and Gas Inspector representing the Director, say that said work was commenced on the 2 day of December 1997, 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>Class A</td>
<td>5,625'</td>
<td>5,790'</td>
<td>1 1/2/8&quot;</td>
<td>0&quot;</td>
</tr>
<tr>
<td>Class A</td>
<td>4,975'</td>
<td>5,475'</td>
<td>7&quot;</td>
<td>5,475'</td>
</tr>
<tr>
<td>6% Gel</td>
<td>3,050'</td>
<td>4,975'</td>
<td>5 1/2&quot;</td>
<td>5,280'</td>
</tr>
<tr>
<td>Class A</td>
<td>2,725'</td>
<td>3,050'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6% Gel</td>
<td>2,300'</td>
<td>2,731'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class A</td>
<td>2,200'</td>
<td>2,300'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6% Gel</td>
<td>1,775'</td>
<td>1,775'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class A</td>
<td>1,525'</td>
<td>1,525'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of monument: 9/5/8" welded pipe w/2" vent (5') length and that the work of plugging and filling said well was completed on the 12 day of December 1997.

and further deponent saith not.

Sworn and subscribe before me this 6 day of August 1998.
My commission expires 2-7-2000.

Union Drilling

Oil and Gas Inspector:

Notary Public:

[Seal]