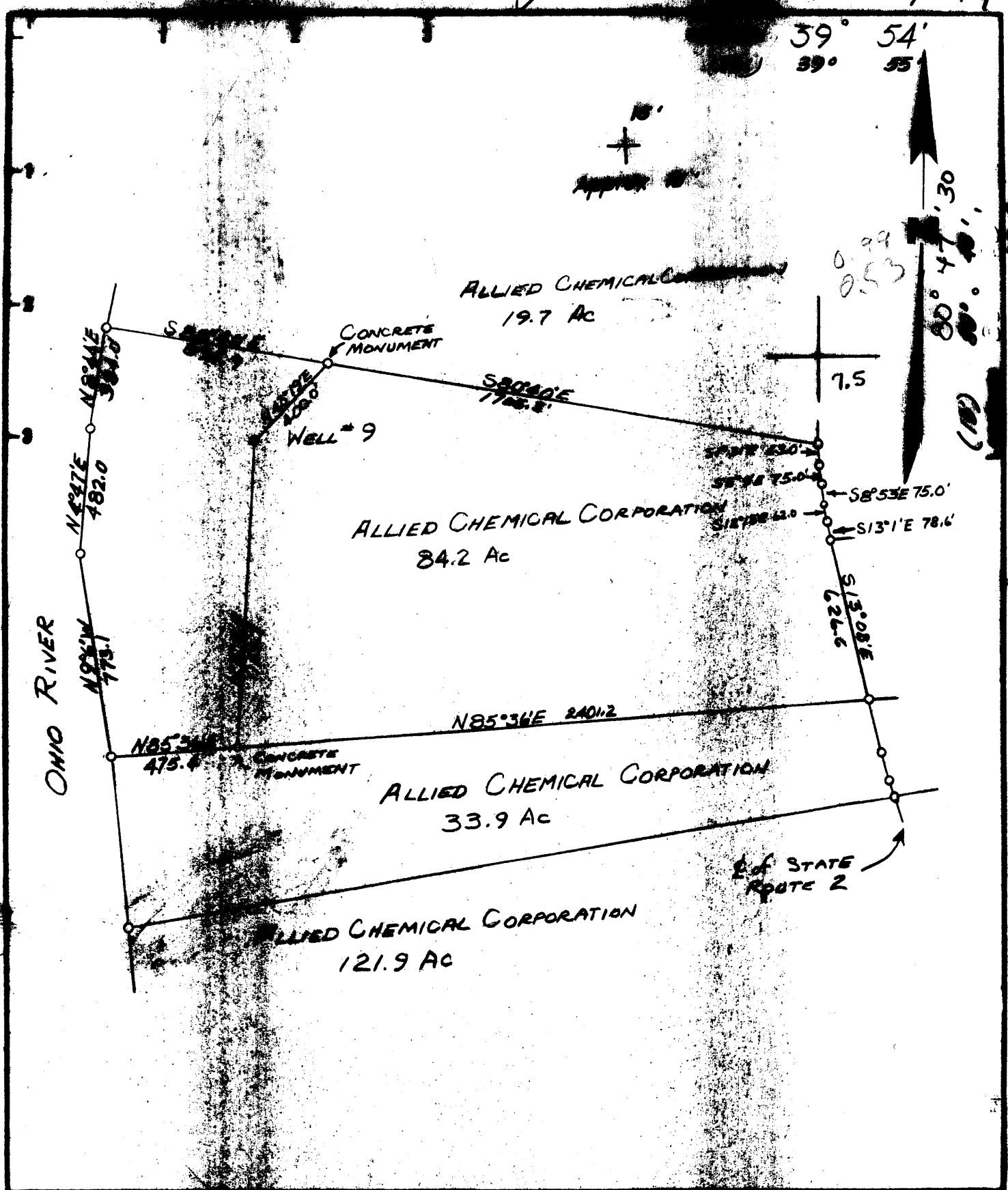


10/29/76

39° 54'  
39° 55'



- 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 Regulation.

PROVEN ELEVATION \_\_\_\_\_

Allied Signal, Inc.  
P.O. Box J  
Moundsville, wVa. 26041  
Surface: Manlin Chemicals

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

Tract \_\_\_\_\_ Acres \_\_\_\_\_ Lease No. **OWNED**

Well (Farm) No. **1** Serial No. \_\_\_\_\_

Elevation (Spirit Level) **634.7**

Quadrangle **MARSHALL, Clarrington 15'**

County **MARSHALL** District **CLAY** ✓

Engineer **James D. Tolton**

Engineer's Registration No. **2886**

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date **11-3-66** Scale **1" = 500'**

**WELL LOCATION MAP**

FILE NO. **11-11-533-RED**

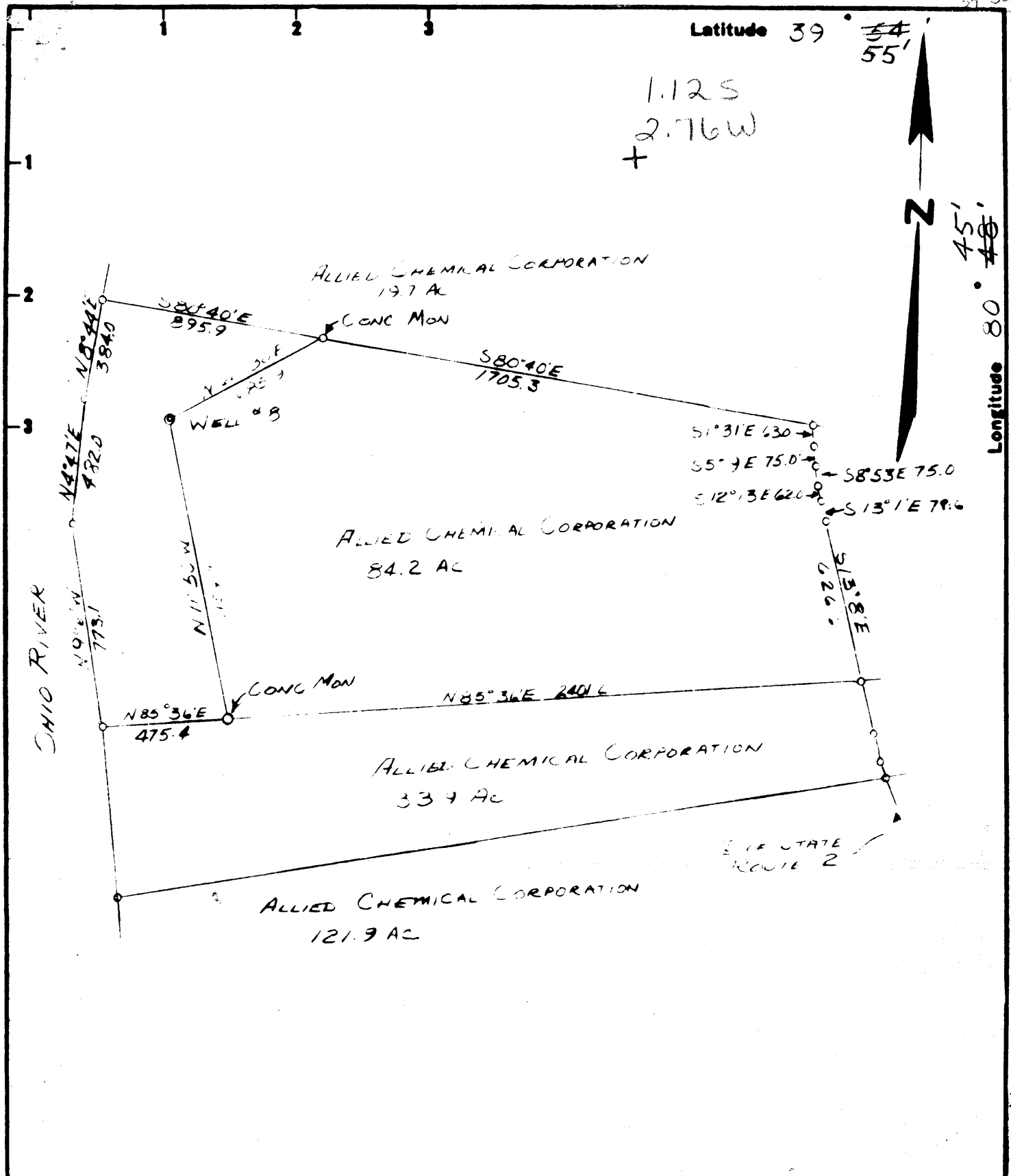
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

DEC 19 1997  
**47-051**

6550 Salina





1.125  
2.76W  
+

- 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** \_\_\_\_\_

Company ALLIED CHEMICAL CORPORATION

Address BOX 6, SOLVAY, NEW YORK

Farm ALLIED CHEMICAL CORP.

Tract \_\_\_\_\_ Acres 84.2 Lease No. OWNED

Well (Farm) No. 8 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 635.5

Quadrangle MARSHALL ~~Clarington~~

County MARSHALL District CLAY

Engineer James B. Tilton

Engineer's Registration No. 2886

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date 11-3-66 Scale 1" = 500'

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

**WELL LOCATION MAP**  
FILE NO. MARS-532

+ 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

WELL RECORD

Quadrangle NE/4 Clarington 15'

Permit No. MARS 533-RED  
47-051

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ Brine  
(Kind)

Company Allied Chemical Corporation  
Address P.O. Drawer D, Moundsville, W. Va.  
Name Allied Chem. Corp. Acres 84.2  
Location (waters) Ohio River  
Well No. 9 Elev. 635  
District Clay County Marshall  
The surface of tract is owned in fee by  
Allied Chemical Corporation  
Address Same  
Mineral rights are owned by Same  
Address Same  
Drilling Commenced 12/11/76  
Drilling Completed 1/22/76  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Concl. 13-10"		82'	- to surface
9 5/8		1529'	- 400 sx
8 5/8			
7		6536'	- 330 sx (1)
5 1/2			
4 1/2		6250'	- (2)
3		310'	- (3)
2			
Liners Used	5 1/2	285'	- (4)

Attach copy of cementing record. (attached)

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand SALINA Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Formation same as previous report for #9 Well MARS 533.						
(1) 100 sx to cement salt section (100' salt). 230 sx to 7" casing through perforations at 5890'. Estimated 100 sx to loss zone at <u>6390'</u> .						
(2) & (3) Development tubing that will be removed when well is developed for full production.						
(4) Tail pipe to remain after development.						
NOTE: This well was offset drilled to a bottom location 597' east 305' south of TD for original #9 Well.						

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

WELL RECORD

Oil or Gas Well **BRINE**

Quadrangle \_\_\_\_\_

Permit No. MAR-523

Company Allied Chemical and Dye Corp  
Address P.O. Drawer "D", Mdv, W. Va.  
Farm Solvay Process Plant Acres 120  
Location (W. or S. or E. or N. or NE or SE or SW or NW) \_\_\_\_\_  
Well No. 9 Elev. 640.00  
District Clay County Marshall  
The surface of tract is owned in fee by Allied Chemical  
Address \_\_\_\_\_  
Mineral rights are owned by Allied Chemical  
Address \_\_\_\_\_

Drilling commenced 1/23/67  
Drilling completed 3/2/67  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_

Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) \_\_\_\_\_

WELL FRACTURED (DETAILS) \_\_\_\_\_

RESULT AFTER TREATMENT (Initial open Flow or bbls.) \_\_\_\_\_

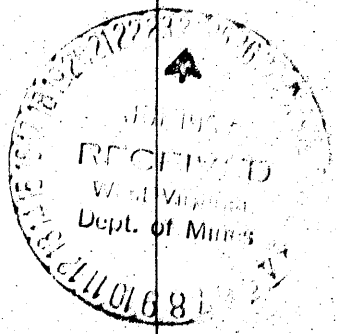
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS \_\_\_\_\_

Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 13 3/8	82'		
10 9 5/8	1522'		Size of
8 1/4 7"	6494'		Depth set
6 3/4			
5 3/16			Perf. top
4 1/2			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) all strings cemented to surface.  
Name of Service Co. Haliburton  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
gravel			0	0			
lime			80	129			
shale			129	187			
sand and shale			187	325			
shale	grey		325	366			
red rock			366	396			
shale	dard grey		396	514			
shale			514	560			
sand			560	606			
sahale			606	907			
sand			907	1098			
lime			1098	1139			
Big Injun			1139	1353			
shale			1353	1383			
sand, broken			1383	1535			
sahale			1435	2158			
sand			2158	2195			
shale			2195	3540			
sand			3540	3547			
sahle			3547	3945			
lime			3945	3963			
shale			3963	5601			
chert and oriskany			5601	5931			
lime - Helderberg			5931	6208			
shale			6208	6369			
anhydrite			6369	6389			
salt			6389	6509			
anhydrite			6509	6591TD			



Salina Group - Tonoloway + Wills Creek



**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL  DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME (Tentative) S. W. Jack Drilling Co. \_\_\_\_\_ NAME \_\_\_\_\_  
 ADDRESS P.O. Box 754, Indiana, PA 15701 \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 6550' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Salina \_\_\_\_\_  
 TYPE OF WELL: GIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER  BRINE \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10		82'	To Surface
9 - 5/8		1529'	400 SX
8 - 5/8			
7		6510	150 SX
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 1200 FEET \_\_\_\_\_ SALT WATER NONE FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 91' (3 ft) \_\_\_\_\_, 410' (1ft) - 850' (1 ft) \_\_\_\_\_

IS COAL BEING MINED IN THE AREA? Yes\* BY WHOM? Consolidation Coal Company  
 \*No coal is being mined under, or immediately adjacent to, the Allied 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.

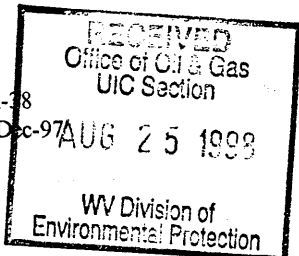
WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

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

WR-18  
08-Dec-97



API # 47- 51-00533-P

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: HANLIN CHEMICALS Operator Well No.: 9

LOCATION: Elevation: 634.70 Quadrangle: BUSINESSBURG  
District: CLAY County: MARSHALL  
Latitude: 4600 Feet South of 39 Deg. 55 Min. 0 Sec.  
Longitude: 3950 Feet West of 80 Deg. 47 Min. 30 Sec.

Well Type: OIL \_\_\_\_\_ GAS \_\_\_\_\_ OTHER: BRINE

Company: Allied Signal Inc. Coal Operator \_\_\_\_\_  
PO Box J or Owner \_\_\_\_\_  
Moundsville, WV 26041

Agent: Don P. DeNoon Coal Operator \_\_\_\_\_  
or Owner \_\_\_\_\_

Permit Issued: 12/08/97

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_ ss:

Union Drilling and James R. Harry, 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:

Type	From	To	Pipe Removed	Left
Class A w/Latex	6.062'	6.230'	13(3/8)" 0'	82'
Class A w/Latex	5.453'	5.653'	9(5/8)" 0'	1.522'
6% Gel	5.240'	5.453'	7" 5.226'	1.304'
Class A w/Latex	4.682'	5.240'		
6% Gel	2.300'	4.682'		
Class A w/Latex	2.200'	2.300'		
6% Gel	1.832'	2.200'		
Class A w/Latex	0'	1.832'		
6% Gel	0'	1.540'		
Bridge Plug	6.230'			

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 27 day of January, 1998.

and further deponents saith not. William S. Deard Union Drilling

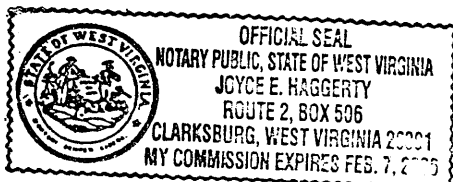
James R. Harry Consultant

Sworn and subscribe before me this 6 day of AUGUST, 1998

My commission expires: 2-7-2006

Joyce E. Haggerty  
Notary Public

Oil and Gas Inspector: Michael W. Lewis



AUG 31 1998

MARS 0533-P