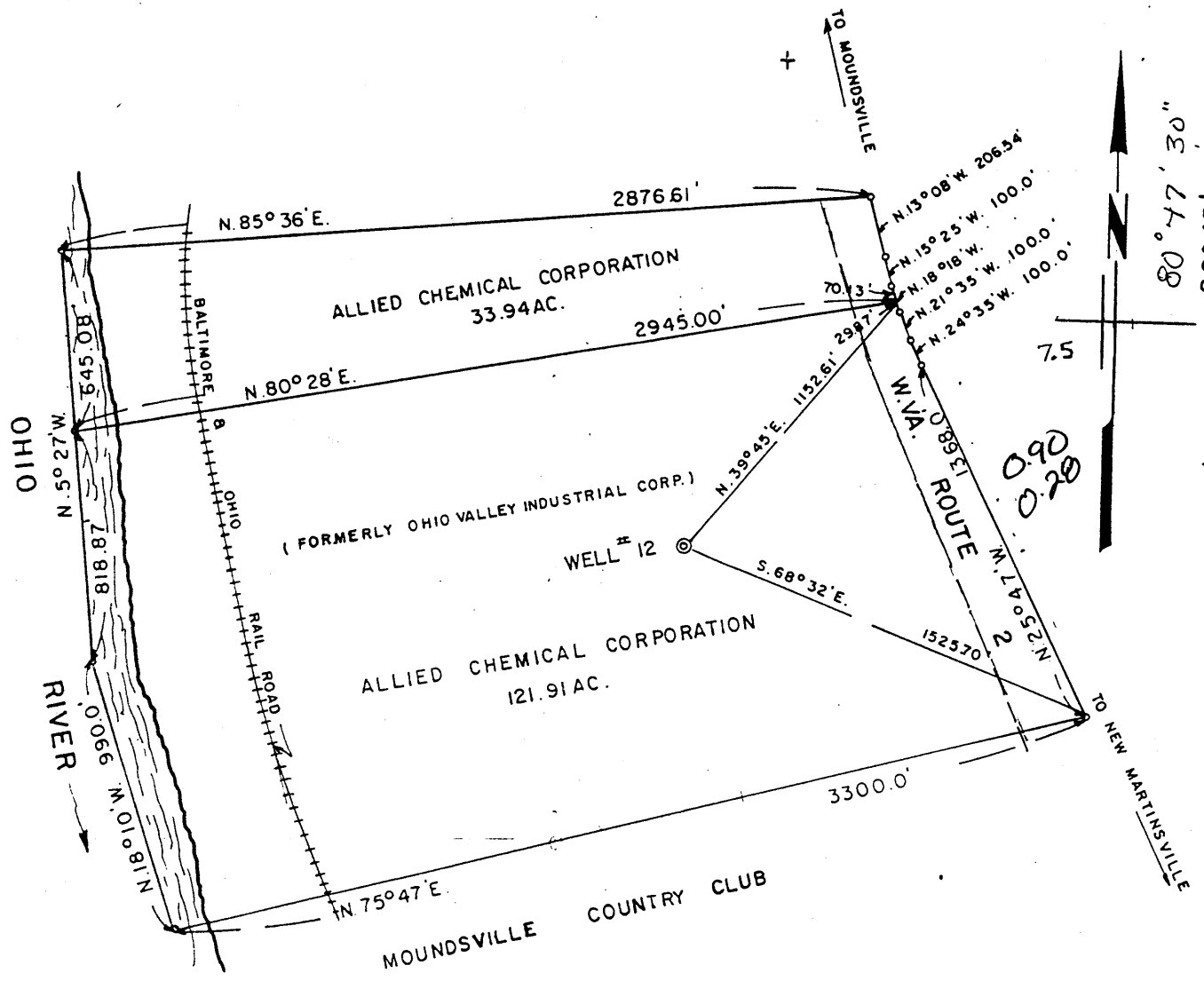


1400 12/13/76
 Latitude 39° 55'



Structure Before 6/5/27.....
 New Location.....
 Drill Location.....
 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 702.37

SOLVAY PROCESS DIVISION
 Company ALLIED CHEMICAL CORPORATION
 Address PO. DRAWER D, MOUNDSVILLE, W. Va.
 Farm ALLIED CHEMICAL CORPORATION
 Tract _____ Acres 121.91 Lease No. OWNED
 Well Farm No. 12 Serial No. _____
 Elevation Spirit Level 702.37
 Quadrangle CLARINGTON *Businessburg*
 County MARSHALL District CLAY
 Engineer John R. Schellham
 Engineer's Registration No. 5214
 File No. _____ Drawing No. _____
 Date 11/18/76 Scale 1 inch = 600 Feet

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

WELL LOCATION MAP
 FILE NO. **MARS-566** *P*

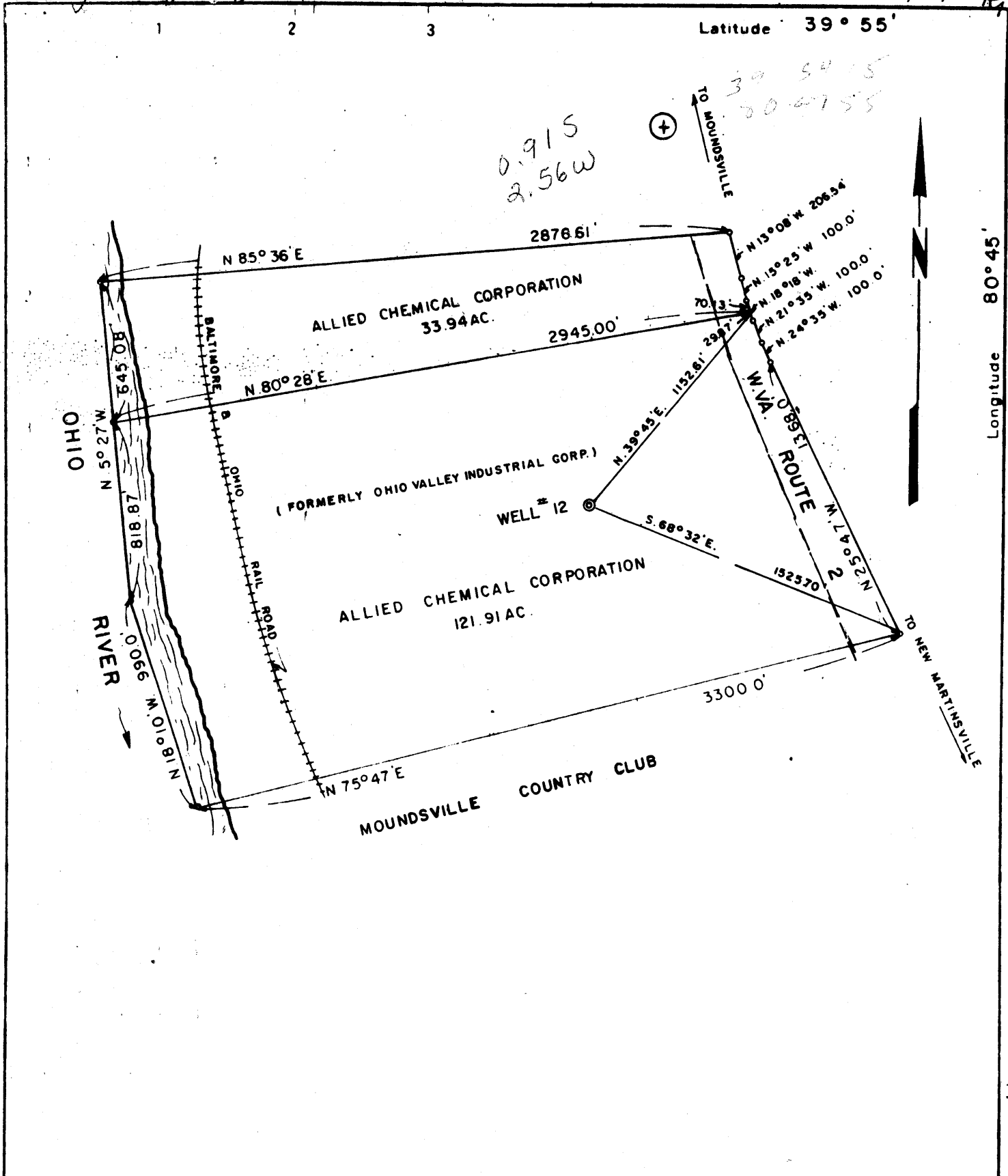
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown
 - Denotes original spaces on border line of original tracing

47-051

MARS 566-P

6600' Salina
1900' (MCL)

12/13/76



Structure Before 6/5/27
 New Location
 Drilling Location
 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 702.37

SOLVAY PROCESS DIVISION
 Company ALLIED CHEMICAL CORPORATION
 Address PO. DRAWER D, MOUNDSVILLE, W.Va.
 Farm ALLIED CHEMICAL CORPORATION
 Tract _____ Acres 121.91 Lease No. OWNED
 Well Farm No. 12 Serial No. _____
 Elevation Spot Level 702.37
 County CLARINGTON *EC*
 State MARSHALL District CLAY
 Surveyor *John R. Schellman*
 Registration No. 3214
 Date 11/18/76 Scale 1 inch = 600 Feet

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

WELL LOCATION MAP
 FILE NO. **MARS-566**

+ Denotes a station in the United States
 International Meridian System by 500 feet
 State Plane System as presented

47-051 FEB 1 1977

6600' Sal. 9-0 Deep well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

(BRINE) WELL RECORD

RECORDED

OCT 31 1977

OIL & GAS DIVISION
DEPT. OF MINES
Rotary Oil
Cable Gas
Recycling Comb.
Water Flood Storage
Disposal **BRINE** (Kind)

Quadrangle NE/ 4 Clarington 15'

Permit No. MARS 566
45-051

Company ALLIED CHEMICAL
Address P.O. DRAWER E, MOUNDSVILLE, W.VA.
Farm ALLIED CHEMICAL CORP. Acres 121.91
Location (waters) OHIO RIVER
Well No. 12 Elev. 702.37
District CLAY County MARSHALL
The surface of tract is owned in fee by ALLIED CHEMICAL CORP.
Address SAME
Mineral rights are owned by ALLIED CHEMICAL CORP. Address SAME
Drilling Commenced 5/2/77
Drilling Completed 7/12/77
Initial open flow NONE cu. ft. - bbls.
Final production - cu. ft. per day - bbls.
Well open - hrs. before test - RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10"	78'	78'	150 SX-TO SURF.
9 5/8	1595	1595	500 SX-TO SURF.
8 5/8			
7	6624	6624	200 SX
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well completed with 7" casing installed and cemented from bottom upper salt section (6620') to bottom marcellus shale (5670'). Plan to install tubing at future date and develop by water circulation or by fracturing to cause this well to join or communicate with #13 in the lower salt section.

Coal was encountered at 97 - 99 Feet 0 Inches
Fresh water - Feet 118' & 255' Salt Water NONE Feet -
Producing ~~SALT~~ SALT SECTION Depth 6520 to 6656

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Gravel	-	Soft	GL	75	Water	-
Lime	-	Med.	75	97		
Coal	-	Soft	97	99		
Shale & Lime	-	Med.	99	220		
Red Rock	-	Soft	220	250	Water	
Shale	-	Soft	250	1085		
Lime & Sand	-	Med to Hard	1085	1615		Set 9-5/8" Casing 1595
Shale & Slate	-	Med	1615	5610		
Marcellus Shale	-	Soft	5610	5670		Caving Hole
Lime & Chert	-	Hard	5670	5910		
Oriskany Sand	-	Hard	5910	5990		5670
Lime & Chert	-	Hard	5990	6520		702
Salt	-	Soft	6520	6620		4968
Anhydrite	-	Med.	6620	6631		
Salt	-	Soft <u>SALINA</u>	6631	6656	TD	

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
NOV 23 1976
R

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE November 23, 1976

Surface Owner Allied Chemical Corporation
Address P.O. Drawer D, Moundsville, W. Va.
Mineral Owner Same
Address Same
Coal Owner Same
Address Same
Coal Operator None
Address _____

Company Allied Chemical Corporation
Address P.O. Drawer D, Moundsville, W. Va.
Farm Allied Chem Corp Acres 121.91
Location (waters) Ohio River
Well No. 12 Elevation 702.37
District Clay County Marshall
Quadrangle Businessburg, Ohio - W. Va.
NE/4 Clarington 15' Quadrangle
N 3952.5 - W 8045/7.5

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 5-12-77.

INSPECTOR
TO BE NOTIFIED Wm. Blosser
ADDRESS Colfax, W.Va.
Fairmont
PHONE 363-9105

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 4th Feb. 1952 by Ohio Valley Ind. Corp. made to Allied Chemical & Dye and recorded on the 4th day of Feb. 1952 in _____ County, Book 282 Page 477

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
_____ OIL AND GAS 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 _____ day _____ before, or 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
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) [Signature] Well Operator
Address _____ Street _____
of _____ City or Town _____
Well Operator _____ 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 notice and plat 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 thereto by the department and that the same is approved and the well operator authorized to proceed.

(Brine Well)

Mar - 506 PERMIT NUMBER
47-051

"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."

Signed by [Signature]

[Signature]

**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: 6600 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Salina
 TYPE OF WELL: OIL _____ 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	100'	100'	To surface
9 - 5/8	1600'	1600'	450 SX
8 - 5/8			
7	6550	6550	200 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 150' (3 ft.), 450' (1 ft.) - 900' (1 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 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.

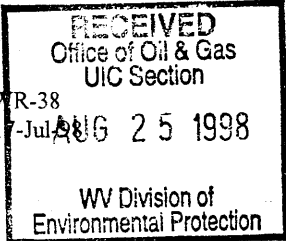
The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

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-38
17-Jul-98

API # 47- 51-00566-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.: 12

LOCATION: Elevation: 702.00 Quadrangle: BUSINESSBURG
District: CLAY County: MARSHALL
Latitude: 4800 Feet South of 39 Deg. 55 Min. 0 Sec.
Longitude: 1400 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: 07/17/98

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 June, 1998, and that the well was plugged and filled in the following manner:

Type	From	To	Pipe Removed	Left
Class A w/Latex	5.915'	6.474'	13(3/8)" 0'	78'
Salt Water Gel	5.620'	5.915'	9(5/8)" 0'	1.595'
Class A	5.120'	5.620'	7" 5.594'	1.030'
Fresh Gel (6%)	3.850'	5.120'		
Class A w/Latex	3.600'	3.850'		
Fresh Gel (6%)	2.850'	3.600'		
Class A	1.751'	2.850'		
Fresh Gel (6%)	0'	1.751'		
Bridge Plug	5.784'			

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 14 day of July, 1998.

and further deponents saith not.

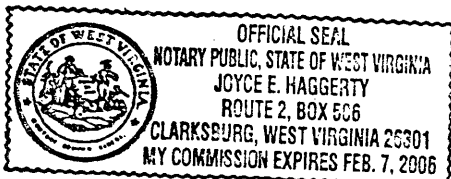
Union Drilling Bottom Plug

Sworn and subscribe before me this 16 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 0566-P