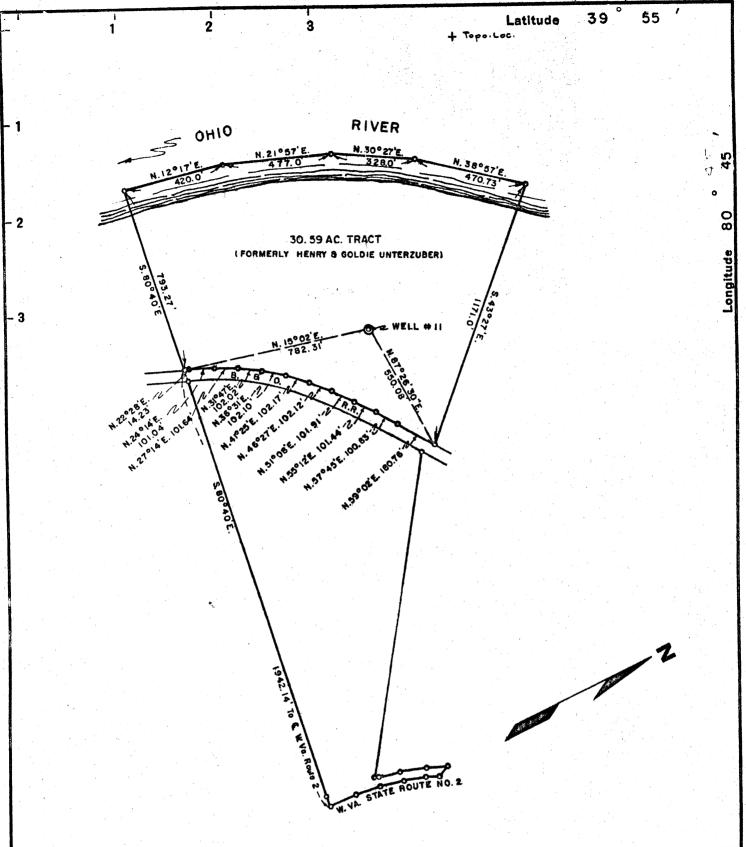


1100 : 111000

OLOTH UNIC 12 ()



Fracture Before 6/5/27	
New Location	X
Redrill	
Drill Deeper	

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 Natl 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
Quadrangle CLARINGTON
Quagrangie CLARRIGION
County MARSHALL District CLAY
Engineer M. Januar Achielle and
1 //
Engineer's Registration No. 1673
File NoDrawing No
1,410,660 0 1"4,600"

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

CHARLESTON

# WELL LOCATION MAP

- + 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.

  1978 Owko No charge

Deep Well (Saling) 9-09

DEC 1 6 1960



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# M. Chally 1

### Oil and Gas Division

#### WELL **RECORD**

	_					
Quadrangle_l	NE/4	Clar	ingt	on :	15	•

Permit No. MARS 537 RE
------------------------

Producing Sand Salt

Jr.	FEB 2 7 1978	<i>.</i>
	a gas division. T. OF MI	on III.

Rotary X air	Oil
Cable	Gas
Recycling	Comb
Water Flood	Storage
Disposal	<i>-</i>

Feet .

			Disposal	(Kind)
Company Allied Chemical Corporation Address P. O. Box E, Moundsville, W Farm Allied Chem. Corp Acres 30.39	Casing and W26041 Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Well No. 11 Elev. 635' District Clay County Marshall	Size 20-16 Cond.			
The surface of tract is owned in fee by	13-10"	73'	73'	90 sx to surf
Allied Chemical Corporation  Address P. O. Drawer E, Moundsville, W		1475	1475	500 sx to surf
Mineral rights are owned by Allied Chemical Co	rp	6515	<b>651</b> 5	200 sx
Address Same	5 1/2			
Drilling Commenced 8-18-77	4 1/2			
Drilling Completed 10-14-77	3	1		
Initial open flowcu. ftbbls.	2			
Final productioncu. ft. per daybbls.	Liners Used			
Well openhrs. before testRP.				
Well treatment details:	Attach copy of	cernenting recor	d.	; 
This well was fractured through the fresh water. The connection was ba	salt sections	on at a de	epth of	nd thence to
* 10 Outlet well. Fresh water was	injected for	r a perio	7 Of 3'	dave to offer
a washout of salt and achieve a low	pressure c	onnection	Brin	ne returns from
# 10 was used in plant production.				
Coal was encountered at None. Fee	Pt	Inches		
Fresh water None Feet		Water None	_	<b>.</b>

TOTHE	ion Color	mard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
The fo traver	rmation di sed same d	rilled was t general stra	he same as ta.	original	well MARS - 5	37 - Bore hole
NOTE -	east of t	was direct the original new well.	ionally dr bottom lo	illed to a cation to	point 350 ft make a new ca	north and 60'

Sait Water None.
Depth 6400 to 6500

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.



#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS DIVISION ! %

Storage

Rotary

Spudder

Cable Tools

Quadrangle Businessburg, Ohio - W. Va.

O (Salt)

X

Permit No. MA	THE WEST					Oil or G	KIND
Company Indust	rial Chemi	cals Div., Al	lied Chemic Cor	a1 Casing and p. Tubing	Used in Drilling	Left in Well	Packers
Address MOIII Alliad	Chemical C	Corp. Ac	res 30.59	Size			
				16			Kind of Packer J-slo
		liver			85		Hook wall
Well No			ev. 635.5		1,490		Size of 0.D.6-1/2
		County Mar			1 1	1	set in 7"26 lbs
The surface of trace	t is owned in fee	e by Allied Ch	emical Corp			1	
	Ασ	dress Mounds vil	le, W. Va.		XXXXXX	1	Depth set 6250 ft
Mineral rights are	owned by A11	ied Chemical	Corp.				
		<sub>ddress</sub> Moundsvil		41/2	XXXXXX	6,529	
		er 1, 1968		3			Perf. top none
Drilling commence		¥		2	.		Perf. bottom none
		er 21, 1968					Perf. top
Date Shot	From	То			1 1	1	•
With a					1		Perf, bottom
Open Flow	/10ths Water	in	Inch	Attach copy of	f cementing record	•	
	/10ths Merc.	in	Inch	CASING CEN	MENTED .13-3/	81ZE 85	No. Ft. 11/1/68 Date
				Amount of cer	ment used (bags)	90	(See Remarks below for other strings.)
		1bs					Company
							FEET INCHES
WHILL ACIDIZED	) (DETAILS)						FEET INCHES
							FEET INCHES
WELL FRACTUR	RED (DETAILS	5)					
RESULT AFTER	E AFTER TRE	ATMENT	00101/1	HOURS			
JCK PRESSURI	S AFIER INE	A) MEN		Calt Water		Feet	
resh Water	The second secon	Feet		Sait water			
Producing Sand	The second section of the second				Depth		
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
			_				
ave1			A 1	70			
avel,Shale	1		0	<b>7</b> 9			13_3/8" _ '8
			0 79	<b>7</b> 9 85			·
							90 sacks of
			79	85	VI. 4 am	104	90 sacks of
ıle					Water	104	90 sacks of
			79 85	107	Water	104	90 sacks of
ale, Red			79 85 107	85 107 418	Water	104	90 sacks of
ale ale, Red ock ale	Gray		79 85 107 418	107 418 438	Water	104	90 sacks of
ale, Red ock ale	Gray		79 85 107 418 438	107 418 438 450	Water	104	90 sacks of
ale, Red ock ale d Rock	Gray		79 85 107 418 438 450	107 418 438 450 555	Water	104	90 sacks of
ale, Red ock ale d Rock ale	Gray White		79 85 107 418 438 450 555	107 418 438 450 555 605	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd			79 85 107 418 438 450 555 605	107 418 438 450 555 605 630	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale			79 85 107 418 438 450 555 605 630	107 418 438 450 555 605 630 655	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale ale			79  85  107  418  438  450  555  605  630  655	107 418 438 450 555 605 630 655 759	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd			79  85  107 418 438 450 555 605 630 655 759	107 418 438 450 555 605 630 655 759 890	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale ale & Sand nd & Shale			79  85  107 418 438 450 555 605 630 655 759 890	107 418 438 450 555 605 630 655 759 890 980	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale			79  85  107 418 438 450 555 605 630 655 759 890 980	107 418 438 450 555 605 630 655 759 890 980 1025	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale	White	Broken	79  85  107 418 438 450 555 605 630 655 759 890 980 1025	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040	Water	104	90 sacks of
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale	White Gray White	Broken	79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040	107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065	Water		90 sacks of
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd nd & Shale nd nd of Shale nd ndy Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065	107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	Water		90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd nd & Shale	White Gray White	Broken Very Hard	79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water		90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065	107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	Water	J EEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd ondy Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	J EEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	FEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	FEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	FEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	FEB	90 sacks of Common Cement.
ale, Red ock ale d Rock ale nd ale ale & Sand nd & Shale nd nd & Shale nd ndy Shale nd nd and Shale md nd and Shale	White Gray White		79  85  107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080	85 107 418 438 450 555 605 630 655 759 890 980 1025 1040 1065 1080 1120	Water	J EEB	90 sacks of Common Cement.

Formation	Color	Hard or Soft	Top / 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
•				**************************************			
and less /			1170 1425	1425 1642			9-5/8" Casing at 1,506°. Cemented
							With 500 sacks.
and & Shale			1642 1685	1685 2045			
and & Shale			2045 2220	2220 3843		G 15	
hale andy Shale			3843	3960			
hale ime & Shale			3960 5150	5150 5554	Gas Blow-	5480, 5500	
		9.	5554	5653	outs		
hert on Hunt.		•	5554	3033			
Oriskany			5653	5755			
Sand Line,	*		5940	5978			
Lime & Shale Shale		r	59 <b>7</b> 8 6330	6365			
Sand & Shale			6365 6402	6402			
Salt Anhydrite			6496	6508 6536			
Salt Sale	Seelin	а	6508 6536	6548		•	7" O.D. Casing a
· ····································							6,500°. Cemented with 285 sacks
tal Depth				6548			4½" Casing at
		· · · · · · · · · · · · · · · · · · ·					6,529
		. :					
				-			
				5554			
		(		5557			
							- The state of the
• <b>1</b>							
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							The state of the s
· · · · · · · · · · · · · · · · · · ·							

Date December 12, 1968

APPROVED Allied Chemical Corp., Owner

By President of (Title)

Fox Rotary Drilling Corp.



**DEPARTMENT OF MINES** 

### Oil and Gas Division



OIL & GAS DIVISION eft. of Mines

### GAS WELL PERMIT APPLICATION

Charleston, W. Va.	5 3
	DATE August 3, 1977
rface Owner ALLIED CHEMICAL CO	- Company
dress P.O. Box E. Moundsville.	W. Va. Address P.O. Box E. Moundsville, W.
neral Owner Same	Fart Unterzuber) Chemical Acres 30.59
dress Same	Location (waters) Ohio River
i Owner Same	Well No. 11 Elevation 635 ft
dress Same	District Clay County 32737
al Operator Same	Quadrangle Businessburg, Ohio - W. Va.
dress	NE/4 Clarington 15' Quadrangle
THIS PERMIT MUST BE POSTED AT TI	HE WELL SITE N 3952.5-W 8045/7.5
Mister h continued by /d-	shall expire to BE NOTIFIED Thelles Iraces
thereto, (or as the case may be) under gracer ux ETImade to Allied Ch  52 in Marshall County, Book  NEW WELL DRILL I	DEEPER XX REDRILL XX FRACTURE OR STIMULATE
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL	nemical and recorded on the 21 day of record
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register	nemical and recorded on the 21 day of recorded on the 283 Page 410 XX FRACTURE OR STIMULATE
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  he enclosed plat was prepared by a register been notified as of the above date.	ant or lease dated March 21  nemical and recorded on the 21  k 283  Page 410  DEEPER XX  REDRILL XX  FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  the above named coal owners and/or operators.	nemical and recorded on the 21 day of record
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  The above named coal owners and/or operator to the code, must be received as their above shown respective.	ant or lease dated March 21  nemical and recorded on the 21  day of , are j  REPRILL XX FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  The definition of the day of street or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. The day of the labove named coal operators address day before or on the labove part or the labove named coal operators address day before or on the labove named coal operators.
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  The above named coal owners and/or operator to the code, must be received as their above shown respective.	ant or lease dated March 21  memical and recorded on the 21  day of recorded on the 21  memical and recorded on the 21  memical and recorded on the 21  memical and recorded on the 21  memical day of recorded on the 21  May of recorded on
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  The above named coal owners and/or operator to the code, must be received as their above shown respective.	ant or lease dated March 21  nemical and recorded on the 21  day of , are j  REPRILL XX FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  The definition of the day of street or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. The day of the labove named coal operators address day before or on the labove part or the labove named coal operators address day before or on the labove named coal operators.
thereto, (or as the case may be) under graceruber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  the above named coal owners and/or operators are by Section 3 of the Code, must be received as a second owners at their above shown respective day with the mailing or delivery of this condition.  ASE SUBMIT COPIES OF ALL	nemical and recorded on the 21 day of recorded and recorded and recorded and surveyor and all coal owners and/or operators are hereby notified that any objection they wish to make, or are required everyor are hereby notified that any objection they wish to make, or are required everyor and all coal owners and/or operators are hereby notified that any objection they wish to make, or are required everyor are hereby notified with the Department of Mines within ten (10) days. *  The second recorded on the 21 day of recorded and recorded
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  the above named coal owners and/or operators and by Section 3 of the Code, must be received by Section 3 of the enclosed plat we coal owners at their above shown respective day with the mailing or delivery of this coal owners at their above shown respective day with the mailing or delivery of this coal owners at their above shown respective day with the mailing or delivery of this coal owners at their above shown respective day with the mailing or delivery of this coal owners at their above shown respective day with the mailing or delivery of this coal owners.	ant or lease dated March 21  nemical and recorded on the 21  k 283  Page 410  DEEPER XX  REDRILL XX  FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days.  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the py to the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Well Operator Corporation
thereto, (or as the case may be) under gracer ux ETImade to Allied Chester ux ETIMADE ux E	ant or lease dated March 21    19 52   by Henery     19 52   by He
thereto, (or as the case may be) under graceruber UX ETImade to Allied Chester    52 in Marshall County, Book    NEW WELL DRILL I BRINE WELL ORIGINAL    the enclosed plat was prepared by a register been notified as of the above date.    the above named coal owners and/or operator aske by Section 3 of the Code, must be received as their above shown respective day with the mailing or delivery of this county of this county of the COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:	ant or lease dated March 21  nemical and recorded on the 21  k 283  Page 410  DEEPER XX  REDRILL XX  FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days.  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the py to the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Well Operator Corporation
thereto, (or as the case may be) under greerzuber UX ETImade to Allied Chester    52 in Marshall County, Book    NEW WELL DRILL I BRINE WELL ORIGINAL    be enclosed plat was prepared by a register been notified as of the above date.    The above named coal owners and/or operator    ake by Section 3 of the Code, must be received a section and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of this notice and the enclosed plat was prepared by the propies of the propies of the enclosed plat was prepared by a register been notified as of the above date.	ant or lease dated March 21  memical and recorded on the 21  day of march 21  k 283  Page 410  DEEPER XX  REDRILL XX  FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  The defendence or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  The defendence of the above named coal operators address day before, or on the pay to the Department of Mines at Charleston, West Virginia.  Very truly yours, (Sign Name)  Allied Chemical Corporation  P.O. Drawer E  Address of Moundsville
thereto, (or as the case may be) under graceruber UX ETImade to Allied Chester UX ETIMADE County, Book DRILL I BRINE WELL ORIGINAL Chester UX ETIMADE WELL ORIGINAL Chester UX ETIMADE WELL ORIGINAL Chester UX ETIMADE COMPANY AND COMPANY ASE SUBMIT COPIES OF ALL CHYSICAL LOGS DIRECTLY TO:  OF VIRGINIA GEOLOGICAL AND NOMIC SURVEY D. BOX 879 GANTOWN, WEST VIRGINIA 26505	nemical and recorded on the 21 day of , are in the analysis of the above named coal operators and recorded by registered mail, or delivered to the above named coal operators and recorded by registered mail, or delivered to the above named coal operators and recorded by the Department of Mines at Charleston, West Virginia.  Very truly yours, (Sign Name)  Allied Chemical, Corporation P.O. Drawer E  Address of
thereto, (or as the case may be) under gracerzuber UX ETImade to Allied Ch.  52 in Marshall County, Book  NEW WELL DRILL I  BRINE WELL ORIGINAL  the enclosed plat was prepared by a register been notified as of the above date.  the above named coal owners and/or operators aske by Section 3 of the Code, must be received as a second to be a shown respective day with the mailing or delivery of this complex of this copy of the complex of this copy of the complex of the complex of the complex of the mailing or delivery of this copy of the complex	ant or lease dated March 21  memical and recorded on the 21  day of march 21  k 283  Page 410  DEEPER XX  REDRILL XX  FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  The defendence or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  The defendence of the above named coal operators address day before, or on the pay to the Department of Mines at Charleston, West Virginia.  Very truly yours, (Sign Name)  Allied Chemical Corporation  P.O. Drawer E  Address of Moundsville

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of otice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting he 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 nd the well operator authorized to proceed.

Original Mars 537- Red PERMIT NUMBER 47-051

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

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

PROPOSED WORK ORDER TO	DRILL XX	DEEPENXX	FRACTURE-STIMULATE
DRILLING CONTRACTOR: (If		RESPONSIBLE AGEN	· ·
NAME S. W. Jack Drillin	g Co.	NAME	
ADDRESS P.O. Box 754, In	diana, PA 15701		
TELEPHONE 412-463-919	1	TELEPHONE	
ESTIMATED DEPTH OF COMPL	ETED WELL: 6500'	ROTARY XXX	_ CABLE TOOLS
PROPOSED GEOLOGICAL FORM			
TYPE OF WELL: OIL_	GASC	OMB. STORA	GE DISPOSAL
			LOODOTHER Brine
			ZOOZOTMEN_BITHE
TENTATIVE CASING PROGRAM	:	• • • • • • • • •	
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16		, , , , , , , , , , , , , , , , , , ,	OR SACKS - COBIC 11.
13 - 10		73	90 SX to Surf.
9 - 5/8	•	1475	500 SX to Surf.
8 - 5/8			Joo on to buil.
7		6500'	200 SX
5 ½			200 011
4 ½			
3		,	Perf. Top
2	•	<u>, , , , , , , , , , , , , , , , , , , </u>	Perf. Bottoin
Liners			Perf. Top
			Perf. Bottom
APPROXIMATE FRESH WATER	DEPTHS 1200 FEET	SALT WATER	R None FEET
APPROXIMATE COAL DEPTHS_	90' (3 ft.)	•	
IS COAL BEING MINED IN THE NO coal is being mined un TO DRILL:  SUBMIT FIVE (5) COPIES (OF PLAT.	der or immediately adj	acent to the Allie	ed Chemical property herei describe BOND AND PERMANENT COPY
TO DRILL DEEPER OR REDRILL	•		•
SUBMIT FIVE (5) COPIES O	F OG - 1, SHOWING ORIGIN D 1929, A PERMANENT CO	VAL PERMIT NUMBER A PY OF THE PLAT AND	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:		•	
	IGINALLY DRILLED BEFOR AND ORIGINAL WELL RECO	E JUNE 5, 1929, FIVE (5	) COPIES OG - 1, PERFORMANCE
•	IGINALLY DRILLED ON AN	D/OR AFTER JUNE 5, 19	929, FIVE COPIES OG - 1, SHOW-
Required forms must be filed four (24) hours in advance.	within ninety (90) days of co	mpletion for bond release	Inspector to be notified twenty-
		•	
The following waiver must be hereof.	completed by the coal opera	ator if the permit is to be	e issued within ten days of receipt
WAIVER: I the undersigned, Agent	for	Coal Company O	ar or Operator of Al
this lease have examined	and place on our mine map	os this proposed well loc-	ct of Operator of the coal under
	mplied with all rules and regul	ave no objections to said ations in Articles 4, 5, and	well being drilled at this location, 17, Chapter 22 of the West Virginia
	•		For Coal Company
	•	. •	•

Official Title

PECSIVED
Office of Oil & Gas
UIC Section
WI-38 AUG 2 5 1998
12 Dec-97
WV Division of
Environmental Protection

API # 47- 51-00537-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.

and the time ec	opy (and extra cop	nes il required) siloui	id be maned to eat	cii coai ope	ו מנטו מנ	ileii respec	tive addresses.
Farm name:	HANLIN CH	EMICALS	Operator Well	No.: 11			
LOCATION:	Elevation: 635		ngle: BUSINESS				
	District: CL.		County: MA				
		60 Feet South of 3					
	Longitude: 300	00 Feet West of	80 Deg. 47 Min	. 30 Sec.			
Well Type:	OIL (	GASOTHE	ER: BRINE				
Company: Allied Signal Inc. Coal Operator							
	Box J		or Owner				
	undsville, WV 260	041					
and we are the second of	n P. DeNoon		Coal Oper	ator			
rigent. <u>Boi</u>	III. DCIVOOII		or Owner	atoi		<del></del>	
Permit Issued:	12/01/97		or Owner				
· ·	12/01/97						
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 the	y are experienced	in the work of plug	ging and filling oi	il and gas w	ells and w	ere emplo	yed by the above named
operator, and pa	articipated in the v	vork of plugging and	filling the above	well. and $N$	Aichael W	. Lewis	Oil and Gas Inspector
			menced on the _	2	day of $\underline{D}$	ecember	, 19 <u>97</u> , and that the well
	d filled in the foll	•					
Type	<i>*</i>	From	To	Pipe Ren			
Class			5,790'	13(3/8)"		80.	
6% G			5,623'	9(5/8)"		1,475	
Class			5,475'		5,475`		
6% G			4.975	5(1/2)"	5.280	510	
Class			3,050'				•
6% G			2,731'				
Class			2,300'				
6% G			2,200		<del></del>		-
Class	<del></del>		1.775'		1		Bridge Plug 5790'
6% G			1,525'	41-)			printe . 2 2110
and that the work of plugging and filling said well was completed on the 12 day of December, 1997.							
and furthur deponents saith not.  Union Drilling							
COUNTY OF THE SHIRL HOL.							
		4	/ am	21_		Conne	Start
Sworn and subscribe before me this 6 day of August 1998							
My commission expires: 2-7-2006							
( )ourse E Harauter							
			ON	otary Publi	c 00	1	<del>-</del>
	OFFICIAL SEAL	~~~~ <u></u>	V ~	1. 111	( )	107	$\mathcal{C}$
HOTARY P	UBLIC, STATE OF WEST VI	RGINIA Oil an	d Gas Inspector:	N///W,	Vaduk		Saus &
	OYCE E. HAGGERTY	{		40		<u> </u>	
<b>华过海</b> [7]	ROUTE 2, BOX 505	<b>}</b>				` \	}
	BURG, WEST VIRGINIA						Jan Bar Mary
MY COMM	IISSION EXPIRES FF3. 7						T 1 20 1 3 L 1994

MARS 0537-P