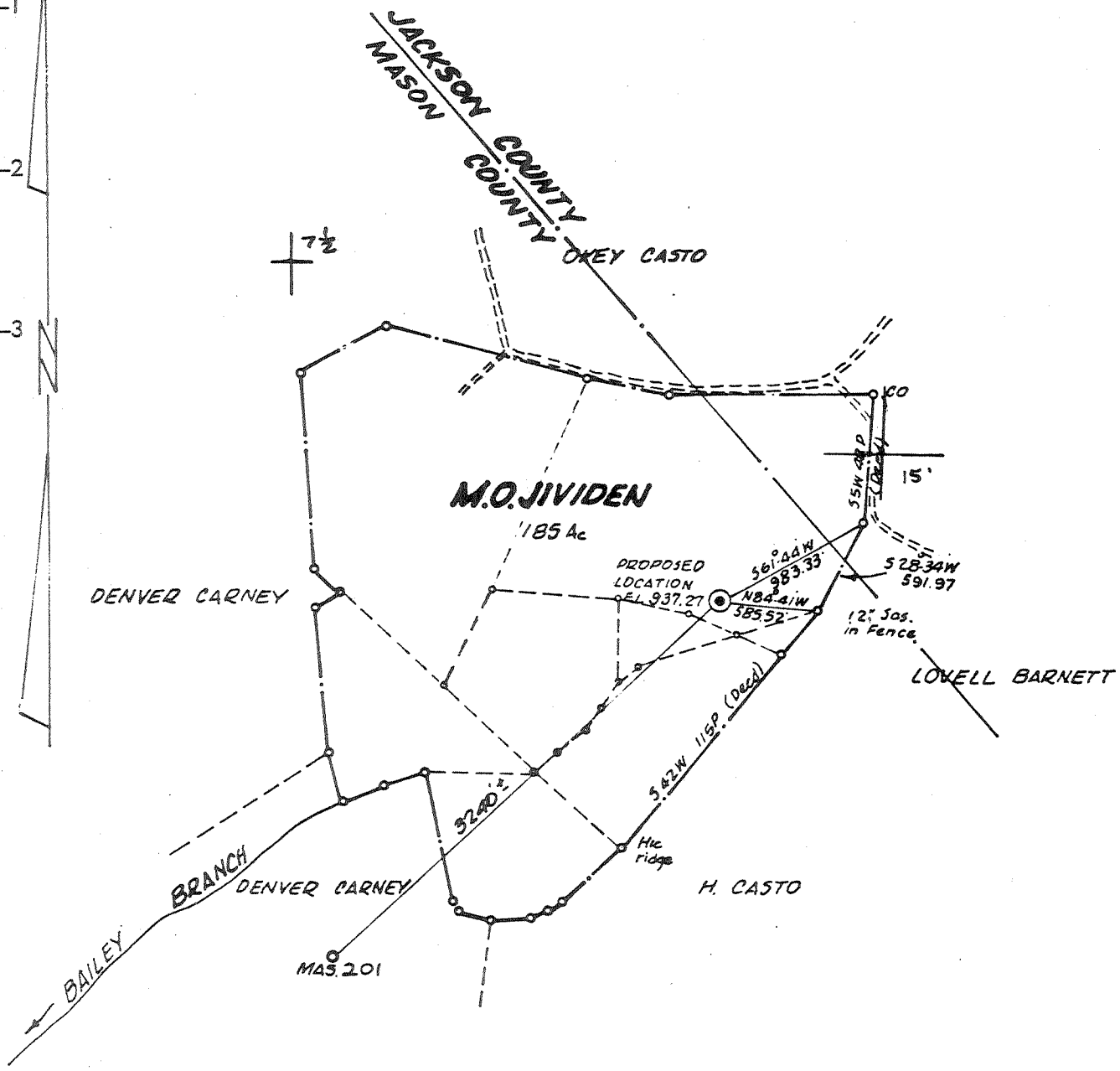


LATITUDE 38° 42' 30" (15') 38° 45'

LONGITUDE 81° 45' 00" 5,950



CERTIFICATE

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT - 8/25/81

"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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed Frank H. Barber LL5 # 289

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8 RAVENSWOOD, WEST VIRGINIA
 FARM M. O. JIVIDEN
 MAP _____ ACRES 185 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM-42
 ELEVATION (SPIRIT LEVEL) 937.27
 QUADRANGLE ELMWOOD 7 1/2 WINFIELD 15'
 COUNTY MASON DISTRICT UNION
 POINT OF PROVEN ELEVATION Pt. on Knob EL. 1119

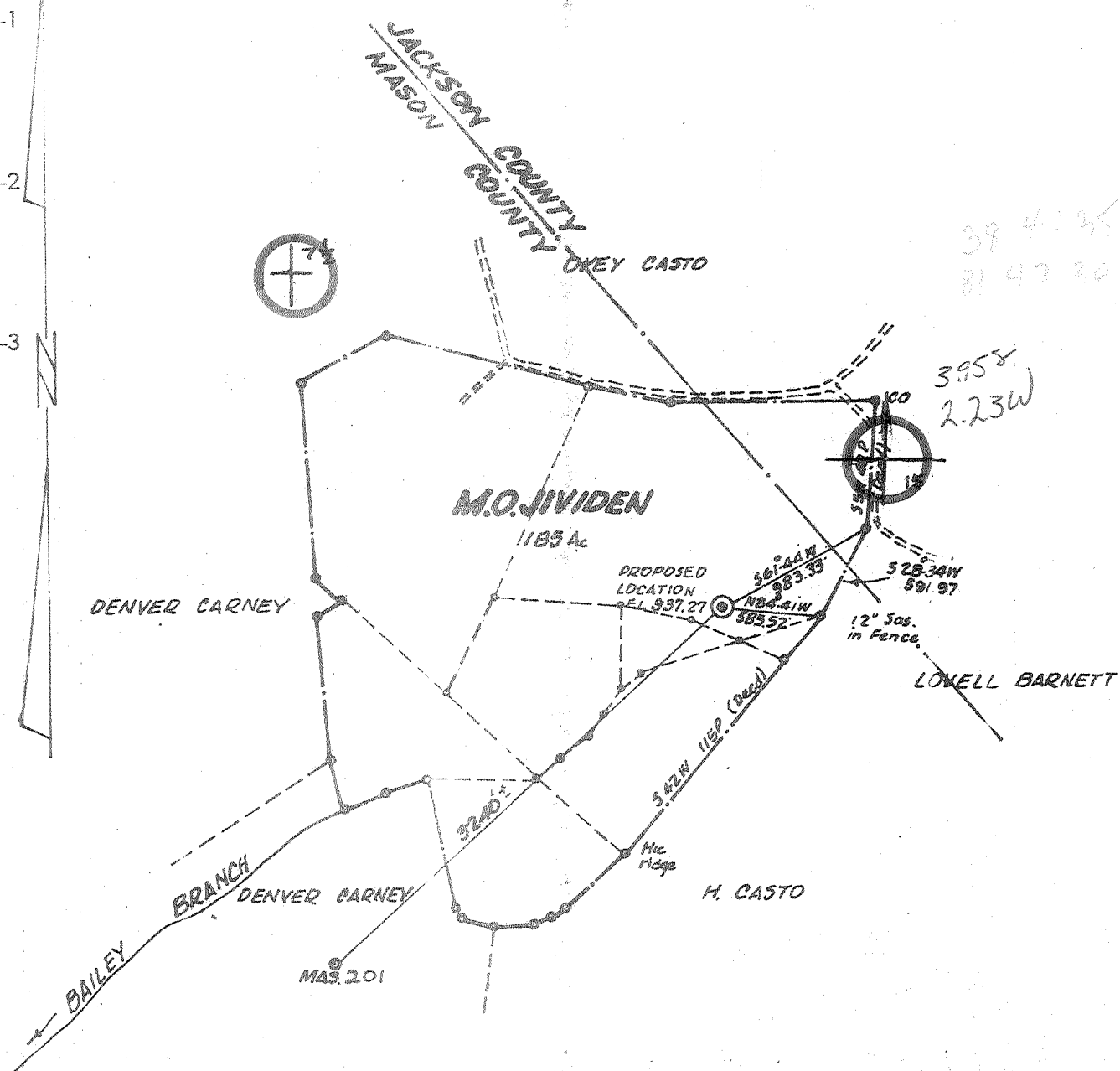
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
053-0231-P
 FILE NO. _____
 SEP 9 1981

+ 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.

FILE NO. _____ DRAWING NO. _____
 DATE MAY 28, 1980 SCALE 1" = 1000 FT.

LATITUDE 38° 42' 30" (15') 38° 45'

LONGITUDE 81° 45' 00" 81° 47' 30"



CERTIFICATE

"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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
 Minimum degree of accuracy is one part in 200
 Signed Frank J. Barber LLS #209

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8 RAVENSWOOD, WEST VIRGINIA
 FARM M. O. JIVIDEN
 MAP _____ ACRES 185 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM-42
 ELEVATION (SPIRIT LEVEL) 937.27 NL
 QUADRANGLE ELMWOOD 7 1/2 WINEFIELD 15'
 COUNTY MASON DISTRICT UNION
 POINT OF PROVEN ELEVATION Pt. on Knob EL. 1119
 FILE NO. _____ DRAWING NO. _____
 DATE MAY 28, 1980 SCALE 1"=1000 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
053-0231
 FILE NO. _____
 + 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 - New hole to Rock Castle (346)

JUL 28 1980



RECEIVED

JUL 08 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

W. VA. OIL & GAS
CONSERVATION COMMISSION

Oil and Gas Division

WELL RECORD

Quadrangle Elmwood

Permit No. MAS-0231

Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>Kaiser Exploration and Mining Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 8, Ravenswood, WV 26164</u>	Size			
Farm <u>M. O. & Helen Jividen</u> Acres <u>185</u>	20-16			
Location (waters) <u>Mud Lick Fork</u>	Cond.			
Well No. <u>KEM #42</u> Elev. <u>937.27</u>	13-10" 10 3/4"	265' (KB)	265' (KB)	280 sks class A (to surface)
District <u>Union</u> County <u>Mason</u>	9 5/8			
The surface of tract is owned in fee by _____	7	2705' (KB)	2705' (KB)	260 sks pozmix 100 sks class A (1200' fillup)
<u>James D. & Bernice Carter</u>	5 1/2			200 sks pozmix 100 sks Class A (2200' fillup)
Address <u>4612 Sissonville Drive, Sissonville, WV</u>	4 1/2	5731' (KB)	5731' (KB)	
Mineral rights are owned by <u>M. O. & Helen Jividen</u> Address <u>Rt. 3, Box 155, Leon, WV</u>	3			
Drilling Commenced <u>7/19/80</u>	2	--	5050' (KB)	
Drilling Completed <u>8/20/80</u> (<u>Oriskany</u>)	Liners Used			
Initial open flow <u>Trace</u> cu. ft. -- bbls.				
Final production <u>45 M</u> cu. ft. per day -- bbls.				
Well open _____ hrs. before test <u>1700</u> RP.				

Well treatment details:

Attach copy of cementing record.

45 MCF

Well drilled to T.D. of 6050' (KB); no natural shows in Newburg or Lockport Dolomite; set 7" permanent plug in 7" casing, and dumped 15' of calseal on plug; plug top at 5134' (KB); perforated Oriskany Sandstone from 5042'-5052' (KB), 40 holes, 4 holes/ft, 3 1/2" glass jets; fractured Oriskany w/30,000# 80/100 sand, 30,000# 20/40 sand, 200,000 SCF of nitrogen; 22 BPM avg rate; 3900 psig avg treating pressure; Maximum pressure was 4000 psig; 990 bbl water used in treatment; breakdown: 3400 psig; used 1000 gal 28% HCL acid; 15 min. shut in: 3600 psig.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sandstone Depth 5042'-5052' (KB)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	20		Tops probably from KB - about 949'
Siltstone			20	47		
Sand			47	66		
Siltstone			66	240		
Shale			240	283		
Red Rock			283	398		
Sand			398	425		
Shale			425	509		
Red Rock			509	584		
Shale			584	655		
Sand			655	702		
Shale			702	763		
Sand			763	795		
Shale			795	844		
Red Rock			844	961		
Shale			961	1007		
Red Rock			1007	1091		
Shale			1091	1158		
Sand			1158	1208		
Shale			1208	1256		
Sand			1256	1270		
Shale			1270	1364		
Sand			1364	1560		

* Indicates Electric Log tops in the column

JUL 27 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1560	1740		
Sand			1740	1799		
Shale			1799	1813		
Sand			1813	1828		
Shale			1828	1857		
Sand			1857	1890		
Salt Sand			1890	2018		
Big Lime			2018	2132		
Shale			2132	2164		
Big Injun			2164	2216		
Shale			2216	2611		
Coffee Shale			2611	2633		
Berea Sand			2633	2644		
Shale			2644	3846	Show/Gas	3677'
Brown Shale - <i>Huron</i>			3846	4333	Show/Gas	4210' - 32'
Shale			4333	4664		
Marcellus <i>(Rhinesbeck)</i>			4664	4940	Show/Gas	4668' - 4700', 4930'
Onondaga Lime			4940	5010		
Oriskany Sand			5010	5065	Show/Gas	5028' - 50'
Helderberg Lime			5065	5107		
Chert & Dolomite <i>Salina</i>			5107	5747	Show/Gas	5352
Newburg Sand (Williamsport)			5747	5762		
Bloomsburg			5762	5840		
Lockport Dolomite			5840	6020		
Keefer Sand			6020	6043		
Total Depth			6043			

Date December 8, 1980

APPROVED *E.A.P.*
 Operation Manager



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 12, 1980

Surface Owner James D. & Bernice Carter
Address 4612 Sissonville Dr., Sissonville, WV
Mineral Owner M. O. & Helen Jividen
Address Rt. 3, Box 155, Leon, WV
Coal Owner Union Carbide Corporation
Address 32 Sanderson Road, Clendenin, WV 25045
Coal Operator Same as above
Address Same as above

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm M. O. & Helen Jividen Acres 185
Location (waters) Mud Lick Fork
Well No. KFM #42 Elevation 937.27
District Union County Mason
Quadrangle Elmwood

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 3-2-81.

INSPECTOR
TO BE NOTIFIED Kenneth Butcher
ADDRESS RFI #1, Barboursville, WV 25504
PHONE 736-4885

Fred B. Butcher
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 October 31 19 78 by M. O. & Helen Jividen made to Kaiser Exploration & Mining Co. and recorded on the 8 day of December 19 78, in Mason County, Book 44 Page 239

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) Original signed by
Operator Well Operator

Address
of
Well Operator

Street
R. A. Pryce
P. O. Box 8
City or Town
Ravenswood, WV 26164
State

BLANKET BOND

RECEIVED
JUN 13 1980

*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.

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Burdette Drilling Company NAME Robert A. Pryce
 ADDRESS P. O. Box 10167, Charleston, WV 25312 ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE 744-1361 TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: 5150' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Newberg
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8 10 3/4	250'	250'	125 sx Class A to surface
8 - 5/8			
7	2760'	2760'	165 sx Pozmix Class A (1500')
5 1/2			
4 1/2	5150'	5150'	225 sx Pozmix (2300')
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? _____

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

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, 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.

<u>Union Carbide Corporation</u> COAL OPERATOR OR OWNER	<u>Kaiser Exploration and Mining Company</u> NAME OF WELL OPERATOR
<u>32 Sanderson Road, Clendenin, WV 25045</u> ADDRESS	<u>P. O. Box 8, Ravenswood, WV 26164</u> COMPLETE ADDRESS
---	---
---	---
<u>James D. & Bernice Carter</u> LEASE OR PROPERTY OWNER	<u>September 29 19 81</u> WELL AND LOCATION
<u>4612 Sissonville Drive, Sissonville, WV</u> ADDRESS	<u>Union District</u> <u>Mason County</u>
	<u>Well No. KEM #42</u>
	<u>M. O. & Helen Jividen Farm</u>

STATE INSPECTOR SUPERVISING PLUGGING.....Kenneth Butcher.....

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Mason } ss:

Richard L. Coty and Robert A. Pryce

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 Kaiser Exploration and Mining Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 7th day of September, 19 81, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION		SIZE & KIND		
<u>Brown Shale</u>	<u>3900'</u>	<u>4 1/2" permanent</u>		
<u>Perf's: 4134' -</u>		<u>bridge plug</u>		
<u>4326' (KB)</u>	<u>3900' - 450' 6% gel</u>	<u>185 bb1</u>		
	<u>450' - 0' Class A</u>	<u>305 sks</u>		
	<u>cement</u>		<u>2800'</u>	<u>2931' 7"</u>
NOTE: After cutting <u>9 5/8" casing and retrieving same,</u>			<u>650'</u>	<u>1425' 9 5/8"</u>
<u>hole caved in and could not get down with 2 3/8"</u>				
<u>tubing to spot cement across casing cuts. Notified</u>				
<u>Kenneth Butcher, and after circulating for 3 hours</u>			<u>265'</u>	<u>13 3/4"</u>
<u>to no avail (400 psig pressure), a solid cement</u>				
<u>plug from 450' - 0' was authorized.</u>				
COAL SEAMS		DESCRIPTION OF MONUMENT		
(NAME)		<u>6" casing, 2 1/2-3' above ground</u>		
(NAME)		<u>level, properly identified.</u>		
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 23rd day of September, 19 81.

And further deponents saith not.

Sworn to and subscribed before me this 30th day of September, 19 81.

My commission expires:
December, 1985

Richard L. Coty
V.A.P.
Gail Ann Walcott

Notary Public.
Permit No. 053-0231-P

MASON - 0231-P