

38°- 42: 30 LATITUDE (15') 38°45' 384055 HAZEL CASTO HEIRS . 815025 EVELYN WARNER Fence Comer Call of NO. 5 80° 35E 1103.04 Fenca Corner -3 MELEAN PROPOSED LOCATION ELEV. 694.86 THURMAN HULBERT G.F. CASTO /35 "Ac L.H. MINSKER R. SMITH CERTIFICATE NEW LOCATION "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 RECONDITION laws of West Virginia." DRILL DEEPER Minimum degree of accuracy is one part in ZOO ABANDONMENT KAISER EXPLORATION AND MINING COMPANY STATE OF WEST VIRGINIA P.O. BOX 537 RIPLEY, WEST VIRGINIA DEPARTMENT OF MINES THURMAN HULBERT, DONALD OIL AND GAS DIVISION CHARLESTON KEM 12 WELL LOCATION MAP 694.86 TION (SPIRIT LEVEL) 634.00

ELMWOOD 7/2 WINFIELD UNION MASON DISTRICT\_ Road Intersection 686 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC 24,000

MAPS. SCALE 1 TO 62.500. LATITUDE AND LONGITUDE LINES POINT OF PROVEN ELEVATION. BEING REPRESENTED BY BORDER LINES AS SHOWN. MAR 2 1 1979 FILE NO. FEB. 23, 1979 /"= 500 FT DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division

Ouadrance Elmwood

WELL RECORD 30

OIL & GAS DIVISION

EPT. OF	MIII A ET eT
Rotary X	Oil
Cable	Gas X
Recycling	Comb.
Water Flood	Storage
Disposal	(Kind)

Permit No. <u>47-053-</u> 0181				Water Floo Disposal	od Storage
Company Kaiser Exploration and M: Address P. O. Box 8, Ravenswood, V Farm Truman Hulbert Acr	<u>W 26164</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Beech Fork & Mud L: Well No. KEM 12 Ele District Union County Mass	ick v 694.86 on	Size 20-16 Cond	and recognized and the second		
The surface of tract is owned in fee by Donald D. Casto  Address Rt. 1, Leon, WV 25123		13-10" 10 3/4 9 5/8 8 5/8		250'	125 sx class A (to surface)
Mineral rights are owned by Trumqui nutros  Address 1023 Red Oak St	reet, Charle	7 stpo, WV			65 sx pozmix-10 class A (1100')
Drilling Commenced 10/20/79  Drilling Completed 10/28/79  Initial open flow 1 M cu. ft. —  Final production 400 M cu. ft. per day	bbls,	4 1/2 3 2 Liners Used		4714'	225 sx pozmix (2300')
Well open 10 hrs. before test 1 Well treatment details:  Perforated Oriskany 4647' - 4 fractured Oriskany w/15,000# and 201,000 SCF of nitrogen.	655' (K.B.) 80/100 sand	Attach copy of c w/4 holes/ft and 30,000#	; Aircowel	1 and H	alliburton 829 bbl water
		tas są przesuszane sokredat y Ank gon do men obycnieja kierojski nojni goniają yma burio.	400	MCF	
Coal was encountered atFresh waterFe		so as Sait W	Vater 464		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	* Remarks
Soil Silt & Sand	10	10 132	7083		Alley Frem

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Soil Silt & Sand Sand Silt & Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Silt & Shale Silt & Shale Sand Shale Silt & Shale Sand Shale Silt & Silt Salt Sand Shale Shale & Silt Salt Sand Shale Siltstone Shale & Silt Sand & Silt Sand & Silt Shale	0 10 132 147 249 429 440 478 488 503 510 613 800 828 894 942 1070 1120 1257 1320 1332 1486 1534	10 132 147 249 429 440 478 488 503 510 613 800 828 894 942 1070 1120 1257 1320 1332 1486 1534 1564	TORS PRIBARLY FROM  KB - ASSIT 707
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<sup>\*</sup> Indicates Electric Log tops in the remarks section.

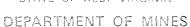
Formation Color Hard or Soft	Top Feet 22	Bottom Feet	Oil, Gas or Water * Kemarks
Sand & Silt Shale Sand Shale Shale Maxton Big Lime	1564 1609 1625 1632 1685 1758	1609 1625 1632 1685 1758 1845	
Shale Big Injun Shale Coffee Shale Berea Shale Brown Shale Shale Marcellus Onondaga Oriskany Helderberg Total Depth	1845 1897 2030 2341 2365 2378 3552 3998 4337 4558 4630 4654 4747	1897 2030 2341 2365 2378 3552 3998 4337 4558 4630 4654 4747	
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Date February 20 1980

APPROVED Kaiser Exploration and Mining Company

By 1 Lt. (1 /2 Operations Mahayer







OLEGASDIVISION REPT. OF MINES

## Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE February 19, 1979
Surface Owner Donald D. Casto	Company Kaiser Exploration and Mining Compan
Address Route 1, Leon, WV 25123	Address P. O. Box 537, Ripley, WV 25271
Mineral Owner Truman G. Hulbert	Farm Truman G. Hulbert Acres 135
Address 1023 Red Oak Street, Charleston, WV 25	302 Beech Fork and Mud Lick
Coal Owner Same as above	Well No. KEM #12 Elevation 694.86
Same as above	District Union County Mason
Coal Operator None	Flowood
Address None	-
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
of the W. Va. Code, the location is hereby approved.	NSPECTOR O BE NOTIFIED Kenneth Butcher
for <u>drilling</u> . This permit shall expire if	DDRESS RFD #1, Barboursville, WV 25504
operations have not commenced by 10-27-79	736 1885
A CONTRACTOR OF THE CONTRACTOR	HONE
GENT PENEN Director - Oil & Gas Division	
G. Hulbert made to Kaiser Exploration 8	a above named farm or tract of land for oil and gas, having fee dated August 14, 19 78 by Truman  R Mining Co. and recorded on the 6th day of June  Page 400
XXX NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer chave been notified as of the above date.	or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or f	notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. *
	registered mail, or delivered to the above named coal operators  day before, or on the partment of Mines at Charleston, West Virginia.
THE CONTRACT CONTRACTOR AND	Very truly yours,
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) C.A. P.
	R. A. Pryce Operator Operations Manager P. O. Box 537
VA. OIL & GAS CONSERVATION COMMISSION Addre	
of 3 WASHINGTON STREET, EAST Well Oper	rator Ripley
ARLESTON, WEST VIRGINIA 25311	City or Town
	West Virginia 25271
	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.

DARKI BOW

47-053-0181

PERMIT NUMBER

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

PROPOSE	D WORK ORDER	TO X DRIL	L DE	DEPEN F	RACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Known)				RESPONSIBLE AGENT:				
NAME Not known at this time ADDRESS				NAME Robert A. Pryce ADDRESS P. O. Box 537, Ripley, WV 25271				
			AI					
TELEPHO	NE		TE	TELEPHONE 372-2828 or 372-2827				
ESTIMATED DEPTH OF COMPLETED WELL:			RC	TARY X	CABLE TOOLS			
PROPOSEI	O GEOLOGICAL F	ORMATION: Orisk						
TYPE OF	WELL: O	TLGAS	X COMB.	STORAGE	DISPOSAL			
					ODOTHER			
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TENTATIV	VE CASING PROG	RAM:						
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CASIN	NG AND TUBING SIZE	USED FOR DRILLING	e en	LEFT IN WELL	CEMENT FILL UP			
20 - 16	the first the found the second	The state of the s		AA 1T.* T.	OR SACKS - CUBIC FT.			
13 - 10				- TOTAL Market Committee C				
9 - 5/8	10 3/4	200		200	Cement to surface			
8 - 5/8				adds a sandamannia. Yazarrari inga gan gʻilganin qab qoʻr co arregining an - 1900 ililganin dalam				
7		2400		2400	125 sk = 570 feet			
5 1/2								
4 ½		4730	- TOTAL CONTRACT SEASON	4730	125 sk = 1500 feet			
3					Perf. Top			
Liners				1984 Managaran Maria, Makabahan sama sama sama, mpa ndari sandari Ababahan sama	Perf. Bottom			
					Perf. Topy Perf. Bottom			
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APPROVIA	MAID FRESH WAI	TER DEPTHS	_ FEET	SALT WATER _	FEET			
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IS COAL .	BEING MINED IN	THE AREA?		BY WHOM?				
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SUBN	MIT FIVE (5) COP	IES OF OG - 1, \$100.0	00 PERMIT FEE		OND AND PERMANENT COPY			
OF P	LAT.							
TO DRILL	DEEPER OR RED	RILL:						
			JO OPIGINAL E	ייא מספעוווא דיוועססס	D PERFORMANCE BOND. ON			
WEL	LS DRILLED PRIC	OR TO 1929, A PERMA	NENT COPY O	F THE PLAT AND T	HE ORIGINAL WELL RECORD			
MUST	T ALSO BE SUBMI	TTED.			THE CHICAGO WILL RECORD			
TO: FRACT	URE - STIMULAT	E:						
OIL .	AND/OR GAS WEL	L ORIGINALLY DRILL	ED REFORE JUR	SF 5 1090 FIVE/5\C	OPIES OG - 1, PERFORMANCE			
BONI	D, PERMANENT PI	LAT AND ORIGINAL W	ELL RECORD.	(11 0, 1525, PIVE (5) C	ories og - i, performance			
OIL A	AND/OR GAS WEL	L ORIGINALLY DRILLI	ED ON AND/OR	AFTER JUNE 5, 1929	9, FIVE COPIES OG - 1, SHOW-			
ING (	DRIGINAL PERMIT	NUMBER, AND PERFO	RMANCE BOND		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
Requi	red forms must be	filed within ninety (90)	days of complet	ion for hand release	Inspector to be notified twenty-			
four (	(24) hours in advan	ce.	days or complet	ion for bond release.	inspector to be notified twenty-			
The could be desired as \$1.00 May be desired as \$2.00 May be desired as \$1.00 May be desired as \$	MRC facilitation of matchines and of diagraphy and design or command and control of the control of matchines and control of the control of th	Principal desiration and the second s	Antoniore I produced in the second of the State	Contracting recognitions and Contracting and C				
The t	ollowing waiver mu	ust be completed by the	coal operator if	the permit is to be i	ssued within ton days of receipt			
thereot.								
WAIVER:	I the undersigned,	Agent for		Coal Company, Owner	or Operator of the coal under			
	this lease have exa	mined and place on our	mine maps this	s proposed well locati	on.			
	We the	Coal C	Company have no	objections to said we	oll being drilled at this location,			
	providing operator l	has complied with all rule	es and regulations	in Articles 4 5 and 7	, Chapter 22 of the West Virginia			
	Code.		S S WA -		, onapoce 22 of the nest virginia			
					* * * * * * * * * * * * * * * * * * *			
				which has compared to the second management of the compared management of t	796. 1			
				Fo	r Coal Company			
					Orficial Title			

DEC 0 1 1989

7R-38 .2-Sep-89

### STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVSION OF OIL AND GAS

#### AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE 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.

respective a	auuresses.						Safe Not for 4 6 4 km in
Farm name:	CASTO, DON	ALD	Opera	tor Well	No.:KEM	12	RECEIVED Division of Energy
LOCATION:		694.86 ( UNION 9710 Feet 2150 Feet				30 s 0 s	NOV 2 0 89 Sec <b>Oil and Gas</b>
Well Type:	OIL	GAS _X_					
Company: R	tz Box 5	ind GLS 38 WV 25550	or	al Operat Owner	or New	<u>.e</u>	
Agent: Representation    Agent: Representation	onald W. I Jerry Tep ed: 09/12/8	ourst JR hahexk 9	_ Coa _ or	al Operat Owner	or		
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