







## Oil and Gas Division

## OIL & GAS DIVISION DEPT. OF MINES

RECORD WELL

Rotary\_\_\_\_\_\_ Oil\_ Gas\_X Cable\_\_ Recycling\_\_ Comb. Water Flood\_\_ Storage\_

Quadrangle\_Elmwood Permit No. MAS-227

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Disposal\_ (Kind) Company Kaiser Exploration and Mining Company Left Cement fill up Used in Casing and Address P. O. Box 8 Rayenswood WV 26164
Farm Gary Stone (Formerly: Beylah 134 Drilling in Well Cu. ft. (Sks.) Tubing Location (waters) Warner's Branch Size \_ Elev 748.53 Well No. KEM 28 20-16 \_\_\_ County\_\_Mason\_ Cond. District Union <u>247'(KB</u>) 150 sks class A <u>13-10"</u> 10 3/4" 247' (KB) The surface of tract is owned in fee by\_ (to surface) 9 5/8 Gary Kent Stone 8 5/8 Address Murraysville, WV 65 sks 50/50 po Mineral rights are owned by Same as above

Address Same as above 2476'(KB)2476'(KB) 100 sks class A 5 1/2 (1400' fillup) 225 sks 50/50 poz 4720'(KB)4720'(KB) 4 1/2 Drilling Commenced 8/26/80 (2000' fillup) Drilling Completed 9/4/80 Initial open flow 34 M cu. ft. \_\_\_ bbls. Final production 1,500 Mer. ft. per day \_\_\_ bbls. Liners Used Well open 10 hrs. before test 2000# RP.

Attach copy of cementing record. Well treatment details:

Perforated pay zone from 4660'-4668' (K.B.), 4 holes/ft, 32 holes, .39" diameter (McCulloug Halliburton & B.J. Hughes on location to hydrofracture pay zone 9/7/80; used 30,000# 80/100 sand, 30,000# 20/40 sand, 833 BBL water, 2174 hydraulic horsepower, 200,000 SCF of nitrogen. 22 BPM avg rate at 4000 psig; opened well up.

Inches \_Feet\_\_ Coal was encountered at \_ Feet --\_\_\_\_ Salt Water \_\_\_\_ \_Feet \_\_ Fresh water\_\_\_\_ \_\_\_\_Depth \_\_\_4660!-4668! (KB) Oriskany Sandstone Producing Sand\_\_\_

\* Remarks Oil, Gas or Water Top Feet Bottom Feet Color Hard or Soft Furmation 48 0 Soil & Shale 48 65 Sand 90 65 Shale 241 90 Sand 241 458 Shale 468 458 Sand 521 468 Shale 534 521 Sand 534 824 Shale 849 824 Sand · 914 849 Shale 914 958 Sand 980 958 Shale 1032 980 Sand 1032 Shale 1262 1110 Salt Sands 1302 1262 Shale 1320 1302 Sand 1600 Shale 1626 1600 Sand 1744 1626 Shale 1870 1744 Big Lime 1923 1870 Shale 1984 1923 Big Injun

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Formation Color Had or Safe	Tup Feet	I was Feet	(Co), Gas on Water Charles		
Shale Coffee Shale Berea Sand Shale Brown Shale Shale Marcellus Onondaga Lime Oriskany Sand Helderberg Lime	1984 2372 2393 2410 3582 4024 4354 4570 4646 4678	2372 2393 2410 3582 4024 4354 4570 4646 4678 4754	Tok Frem KB 759 Show/Gas 3825' Show/Gas 4602' Show/Gas 4666'		
Total Depth	4754				
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Date November 12,



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Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE May 27, 1980
Surface Owner Gary Kent Stone	_ Company Kaiser Exploration and Mining Compan
Address Murraysville, W	Address P. O. Box 8, Ravenswood, WV 26164
Mineral Owner Same as above	Farm Formerly Beulah Badgley Acres 134
Address Same as above	Location (waters) Warners Branch
Coal Owner Union Carbide Corporation	
Address 32 Sanderson Road, Clendenin, WV	
Coal Operator None	
Address	
S PERMIT MUST BE POSTED AT THE WELL SITE	
	INSPECTOR CONTROL OF THE PROPERTY OF THE PROPE
drilling . This permit shall expire if	O BE NOTIFIED Kenneth Butcher
A fort & A	DDRESS RFD #1, Barboursville, WV 25504
Deputy Director - Oil & Gas Division GENTLEMEN:	PHONE 736-4885  e above named farm or tract of land for oil and gas, having fee
Badgley, et al made to Kaiser Exploration and 1979, in Mason County, Book 46	Mining Cocorded on the 1st. day of October
XX NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRILLEI	
The enclosed plat was prepared by a registered engineer of nave 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 fi	notified that any objection they wish to make, or are required iled with the Department of Mines within ten (10) days.
	registered mail, or delivered to the above named coal operators
PLEASE SUBMIT COPIES OF ALL	Very truly yours, (Sign Name) Well Operator
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Addres	R. A. Pryce <u>P. O. Box 8</u>
of Wall Ones	
MORGANTOWN, WEST VIRGINIA 26505 Well Opera AC-304 - 292-6331	City or Town
MANUET BOND	West Virginia 26164

\*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.

47-053-0227

PERMIT NUMBER

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

PROPOSED WORK ORDER TO				
DRILLING CONTRACTOR: (If NAME Not known at this	timo			
			-	
ADDRESS		ADDRESS P. O. Box 8, Ravenswood, WV 2616 TELEPHONE 273-5371		
ESTIMATED DEPTH OF COMP	화 경향이 생각하는 수있는 그들은 사람이 불어져 보다.	ROTARY XX	CABLE TOOLS	
PROPOSED GEOLOGICAL FOR				
TYPE OF WELL: OIL_			DISPOSAL	
	•	G WATER FLO	ODOTHER	
TENTATIVE CASING PROGRAI	. ' <sup>24</sup> <b>M:</b>	u 5 <sup>4</sup> 0.	n to a consesso Alaboration of the	
12 24.			e de la compania de	
CASING AND TUBING SIZE	USED FOR	LEFT IN	CEMENT FILL UP	
	DRILLING	WELL	OR SACKS - CUBIC 1-T.	
20 - 16				
9 - 5/8 10 3/4	250'	250'		
8 - 5/8			Cement to surface	
7	2700'	2700'	125 sk = 570 feet	
5 1/2	27.00	2700	123 SK - 370 Teet	
4 ½	4930'	4930'	125 sk = 1500 feet	
3			Perf. Top	
2			Perf. Bottom	
Liners			Perf. Top	
			Perf. Bottom	
OF PLAT: TO DRILL DEEPER OR REDRII SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	CL: OF OG - 1, SHOWING ORIGIN TO 1929, A PERMANENT COR ED. RIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECORIGINALLY DRILLED ON AND THE TOTAL CORRESPONDENCE BEFORMANCE BETTER THE TOTAL CORRESPONDENCE STATEMENT OF THE TOTAL CORRESPONDENCE OF THE TOTAL CORR	AL PERMIT NUMBER AND TO SELECT THE PLAT AND TO SELECT THE PLAT AND TO SELECT THE SELECT	DND AND PERMANENT COPY D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE D, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-	
•				
The following waiver must lithereof.	be completed by the coal opera	tor if the permit is to be in	ssued within ten days of receipt	
WAIVER: I the undersigned, Age	nt for	Coal Company, Owner	or Operator of the coal under	
this lease have examine	ed and place on our mine map	s this proposed well location	on.	
We theproviding operator has code.	Coal Company ha	ve no objections to said we ations in Articles 4, 5, and 7	ell being drilled at this location, , Chapter 22 of the West Virginia	
•			<b>&gt;</b>	
		Fo	r Coal Company	
		Martin Control of the	Official Title	