

DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Big Injun Shale

Coffee Shale Berea Sand GR 109

JUL - 5 1984

OIL & GAS DIVISION DEPT. OF MINES

Rotary_X_ Oil_

Company Kaiser Exploration and Mir Address P. O. Box 8. Ravenswood. Verm G. W. Sayre, Heirs Acrosomo (waters) Thirteen Mile Creek Well No. KEM #32 Elev District Union County Mason The surface of tract is owned in fee by Grace M. Morrison	V 26164 es 168 7 718	Casing and Tubing Size 20-16 Cond. 3-10" 10 3/4	Used in Drilling	Recycling_ Water Flood Disposal Left in Well	Comb Storage (Kind) Cement fill up Cu. ft. (Sks.)
Address Rt. 1, Box 372, Leon, WV Mineral rights are owned by G. W. Sayre Address Rt. 1, Eleanor, 1 Orilling Commenced 9/19/80 Orilling Completed 9/25/80 Initial open flow Trace cu. ft. —— Final production 200 M cu. ft. per day	. Heirs WV 25070	3 5/8 7 5 1/2 4 1/2 3 2 Liners Used		1	B) 65 sks 50/50 100 sks class (1400' fillup B) 225 sks 50/50 (2000' fillup B)
Well open	744' (K.B.) 4 ocation 9/29 5,000# 20/40 at 22.5 BPM 3300 psig.	/80 to hydro sand, 819 E at 4100 psi	B2 holes, ofracture z BBL water, g; 3500 ps	39" diam cone; use 2236 hyd ig insta	d 500 gal 28% raulic horsepowe ntaneous shut in
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	r Water	* Remarks
Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Salt Sands Shale Sand Shale Sand Shale Sand Shale Sand Shale	0 52 101 293 608 626 752 770 802 926 1046 1282 1354 1354 1382 1494 1502 1530 1640 1692 1896	52 101 293 608 626 752 770 802 926 1046 1282 1354 1382 1494 1502 1530 1640 1692 1896 1962	TOR	s Pe	OBABLY FROM

189**6** 19**62**

2073 2383

2405

2073

2383

2405 2416

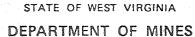
JUL 3 0 1984

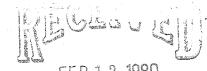
Shale Marcellus 4064 4404 4637 Onondaga Lime 4637 4708 4754 4858 Show/Gas 4517', 4548', 4567' Oriskany Sand Helderberg Lime 4858 Total Depth 4858 Marcellus 4404 4637 4708 4708 4754 4858 Show/Gas 4517', 4548', 4567' Show/Gas 4725' Show/Gas 4725' Show/Gas 4725' Show/Gas 4725'	Form Colo	r It id or Soft	Top Feet	Pottoin Fret	Oil, Green Wires
# 3894 	Brown Shale Shale Marcellus Onondaga Lime Oriskany Sand	66 ° 09	3598 4064 4404 4637 4708	4064 4404 4637 4708 4754	
H 5033	Total Depth		4858		
A - ARC P. Co. ASC P.	6810 <u>6</u> -2	4 12 2 14 5 1			
	5-4060 A-409 : Rh 4407 :	* 1			
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November 12,7

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FEB 1 3 1980

OIL & GAS DIVISION
DEPT, OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE January 24, 1980
Surface Owner Grace M. Morrison	Company Kaiser Exploration and Mining Company
Address Rt. 1, Box 372, Leon, WV 25123	taran da araba da filipante de la companya da araba da a
	Farm G. W. Sayre, heirs Acres 168
Address Rt. 1, Eleanor, WV 25070	
0 11 0	Well No. KEM 32 Elevation 718
Address Rt. 1. Eleanor, WV 25070	
Coal Operator None	·
Address	
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 This permit shall expire if	INSPECTOR TO BE NOTIFIED Kenneth Butcher
operations have sof commenced by 10-15-80	ADDRESS RFD #1, Barboursville, WV 25504
Deputy Director - Oil & Gas Division	PHONE 736-4885
GENTLEMEN:	
heirs made to <u>Kaiser Exploration</u> 1980, in <u>Mason</u> County, Book 47	on & Miningn&Gecorded on the22 day of January Page463
X NEW WELL DRILL DEEPER	RREDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DR	
have been notified as of the above date. The above named coal owners and/or operator are h to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were main	tereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. * led by registered mail, or delivered to the above named coal operators are day
	Very truly yours,
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) . A. P. Well Operator R. A. Pryce, Operations Manager
WEST VIRGINIA GEOLOGICAL AND	
ECONOMIC SURVEY	Address Street
ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 We	
ECONOMIC SURVEY P. O. BOX 879	of P. O. Box 8, Ravenswood
ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 We	Address Street of Il Operator P. O. Box 8, Ravenswood City or Town

*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 FF	RACTURE-STIMULATE			
DRILLING CONTRACTOR: (If I	•		RESPONSIBLE AGENT:			
NAME Not known at this	time					
ADDRESS		ADDRESS P. O. Box 8, Ravenswood, WV 2616				
TELEPHONE						
ESTIMATED DEPTH OF COMPLE		ROTARY X	CABLE TOOLS			
PROPOSED GEOLOGICAL FORM	ATION: Salar A					
TYPE OF WELL: OIL_						
	RECYCLI	NG WATER FLO	ODOTHER			
TENTATIVE CASING PROGRAM:						
	·		to ak ga o k to - •			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT FILL UP			
20 - 16	DRILLING	WELL	OR SACKS - CUBIC FT.			
13 - 10						
9 - 5/8 10 3/4*	200	200	Cement to surface			
8 - 5/8			CEMEIL CO SITTAGE			
7	2375	- 2375	120 sks = 570 feet			
5 ½ 4 ½	4890	4890				
3	+030	4890	125 sks = 1500 feet Perf. Top			
2			Perf. Top Perf. Bottom			
Liners			Perf. Top			
			Perf. Bottom			
APPROXIMATE FRESH WATER I	DEPTHSFEET _	SALT WATER	FEET			
APPROXIMATE COAL DEPTHS _			, page 1			
S COAL BEING MINED IN THE	AREA? Not at this tir	meBY WHOM?				
TO DRILL:	•					
SUBMIT FIVE (5) COPIES O	OF OG - 1, \$100.00 PERMI	FEE. PERFORMANCE RO	ND AND PERMANENT COPY			
OF PLAT.		,	A SECTION OF STANFACTOR OF THE SECTION OF THE SECTI			
O DRILL DEEPER OR REDRILL	:	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·			
SUBMIT FIVE (5) COPIES OF	F OG - 1, SHOWING ORIGI	NAL PERMIT NUMBER AND	PERFORMANCE BOND. ON			
WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	, 1929, A PERMANENT CO	PY OF THE PLAT AND TH	IE ORIGINAL WELL RECORD			
en de la companya de La companya de la co	·					
O FRACTURE - STIMULATE:			e e			
BOND, PERMANENT PLAT A	GINALLY DRILLED BEFOR	EE JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE			
OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUMI	BER, AND PERFORMANCE	DIOR AFTER JUNE 5, 1929, BOND.	FIVE COPIES OG - 1, SHOW-			
Required forms must be filed to four (24) hours in advance.	within ninety (90) days of ec	ompletion for bond release. I	nspector to be notified twenty-			
			The state of the s			
ו						
	· · · · · · · · · · · · · · · · · · ·					
The following waiver must be nereof.	completed by the coal oper	ator if the permit is to be iss	sued within ten days of receipt			
VAIVER. I the undersigned Agent	6					
VAIVER: I the undersigned, Agent this lease have examined	and place on our mine man	Coal Company, Owner of this proposed well location	or Operator of the coal under			
providing operator has cor	nnlied with all rules and regul	ave no objections to said well	being drilled at this location,			
Code.	with an inter and legul	acous in Arucies 4, 5, and 7,	Chapter 22 of the West Virginia			
•			y			
			196;			
		For	Coal Company			
		A	Official Title			
		•				