

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

### Oil and Gas Division

Quadrangle Ripley	WELL	RECORD		Rotary	The state of the s
Permit No. JAC-1546				Recycling	Comb
				Disho:ai_	(Kind)
Company Kaiser Exploration and	Mining Co.	Carina			
Address P. O. Box 8. Ravenswood	1, WV	Casing and Tubing	Used in	Lest	Cement fill up
Farm E. M. Sayre, Heirs	Acres 400	r voing	Drilling	in Well	Cu. st. (Sks.)
Location (waters) Parchment Creek		Size			
Well No. KFM #59	Elev_636_15	20-16			
District Ripley County Je	ckson	Cond.			
The surface of tract is owned in fee by		13-10" 10 3/4	1 229'(KB)	229'(K	B) 150 sks class A
F. M. Sayre, Heirs		9 5/8			3% calcium cloride
Address P. O. Box 1777, Beckley,		8 5/8			1/4#/sk flocele
Mineral rights are owned by Same		7	2389'(KB)	2389'(K	
Address_Same		5 1/2			B)65 sks 50/50 pozm 10% salt; 100 sks Class A, 3% HCL
Drilling Commenced 5/12/81		4 1/2	4858'(KB)	4858' (KI	])230 sks 50/50 pozn
Drilling Completed 5/19/81		3		1000 / 11	10% salt, 1/4#/flo
Initial open flowcu. ft	bbls.	2		4796'(KI	cele
Final and water 200 one The		Liners Used		H/30 (N	2 /
Well open 4 hrs. before test	1500 RP				-
Well treatment details:		Attach come of			ě.
5/20/81: perforated Oriskany s carrier: 5/21/81: hydrofractur	andstone fro	Attach copy of	cementing recoi	rđ.	
carrier: 5/21/81: hydrofracture	and cone in	11 4/9/ -480/	(KB), 28 h	oles, 3	5/8" hollow steel
carrier: 5/21/81: hydrofracture 28% HCL acid, 194,000 SCF of no	d Uriskany	W/15000# 80/1	<u>00 sand, 45</u>	.000# 20	/40 sand, 500 gal
28% HCL acid, 194,000 SCF of no pressure: 4000 psig instantance			20.5 BPM a	vg rate;	4550 psig avg
	ous shut in	oressure.			
Coal was encountered of					
Coal was encountered at					
roducing Sand Oriskany Sandstor	eet	Salt \	Water		_ Feet
		Depti	4797	<u>-480°</u>	7
Formation Color Hard or Soft	T				
1216 OI 50.E	Top Feet	Bottom Feet	Oil, Gas or 1	Water '	* Remarks
* All formation tops taken from electric log depths					
Soil & Siltstone			•		•
Sand	_0	72			•
Siltstone	72	. 86			
Sand	86 162	162			
Shale & Siltstone	201	201 485			
Sand	485	512	A		
Siltstone & Shale	512	599			
Sand	599	614			•
Shale	614	646			
Sand	646	669			
Siltstone Sand	669	788	•		•
Shale	788	801			•
Sand	801	950			•
Shale & Siltstone	950	1183	•		
Salt Sand	1183	1520			
Shale	1520 1612	1612			
Big Lime (Greenbrier)	1664	1664			•
Shale	18]8	1818 1857			•
Big Injun Sand	1857	1900			•
					a v

(over)

\* Indicates Electric Log tops in the remarks section.

			M * TO A DESCRIPTION AND A STATE OF THE ADDRESS OF
Formation Color Hard or Suft	Top Feet	Bottom Feet	Oil, Gas or Water A Kemarks
Shale Coffee Shale (Sunbury) Berea Sand Shale Brown Shale Shale Marcellus Shale Onondaga Lime (Corniferous) Oriskany Sand Helderberg	1900 2295 2317 2324 3536 4054 4426 4689 4778 4816	2295 2317 2324 3536 4054 4426 4689 4778 4816 4860	Show/Gas
Total Depth	4860	•	
			•
		200420-b	

Date August 18 10 81 APPROVED\_

By... General Manager (Lule)





### Oil and Gas Division DEPT. OF MINES

OIL & GAS DIVISION

#### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.	DATE December 11, 1980
urface Owner F. M. Sayre, heirs	Company Kaiser Exploration and Mining Company
Address P. O. Box 1777, Beckley, WV 25801	Address P. O. Box 8, Ravenswood, WV 26164
fineral Owner Same as above	Farm F. M. Sayre, heirs Acres Pt. of 400
Address Same	Location (waters) Parchment Creek
coal Owner Same as above	Well No. KEM #59 Elevation 636.15
ddress Same	District Ripley CountyJackson
Coal Operator None	Quadrangle Ripley
Address  HIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisions being in accordance with Chapter 22,  pt-like W. Va. Code, the location is hereby approved  drilling This permit shall expire it  for  apprairions have not commenced by 8-18-81	INSPECTOR TO BE NOTIFIED Richard Morris
operations have not commenced by	and the second s
- Deputy Director - Older Cas Division	ADDRESS P, O. Box 372, Grantsville, WV PHONE 354-7259
heirs made to Kaiser Exploration are 80, inlackson County, Book155	nd Miningn Gorecorded on the 25 day of March  Page 346
X NEW WELLDRILL DEEFER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILL	ED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer ave 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 herebomake by Section 3 of the Code, must be received by, or	y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed in coal owners at their above shown respective addressime day with the mailing or delivery of this copy to the I	by registered mail, or delivered to the above named coal operators  ———————————————————————————————————
LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:	
	Very truly yours, (Sign Name; A. C.
EST VIRGINIA GEOLOGICAL AND CONOMIC SURVEY Acc. 10. BOX 879	R. A. Pryce Rt. 2, South Street
CONOMIC SURVEY Aca	R. A. Pryce Rt. 2, South Street
CONOMIC SURVEY  10. BOX 879  ORGANIOWN, WEST VIRGINIA 26505  Viell Op	R. A. Pryce Rt. 2, South Street Rescue Rayenswood

parametric to a cost from the securpt of the security of the securi

# ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

Y					
		DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Know		RESPONSIBLE AGENT:  NAME Robert A. Pryce  ADDRESS P. O. Box 8, Ravenswood, WV  TELEPHONE 273-5371			
NAME Not known at this time					
ADDRESS	•				
TELEPHONE					
ESTIMATED DEPTH OF COMPLETE	D WELL: 4850'	ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FORMATI	on: Oriskany		역에 한 것 같아. 중합 		
TYPE OF WELL: OIL	GAS_X co	MB. STORAGE	DISPOSAT.		
			ODOTHER		
· ·		WAIDR I DO	Office		
TENTATIVE CASING PROGRAM:					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP		
20 - 16		in the second of	والمستعد كالمستعدد المستعدد ال		
13 - 10					
9 - 5/8 10 3/4"	250'.	250' -	To surface		
8 - 5/8					
7	Z = 2400'	2400'	125 sks = 570 ·		
5 1/2	4 2 5000	10501	and the second s		
4 ½	48-54850'	4850'	125 sks = 1500'		
3			Perf. Top		
Liners			Perf. Bottom Perf. Top		
			Perf. Bottom		
			¥.		
SUBMIT FIVE (5) COPIES OF ( OF PLAT.  TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF O WELLS DRILLED PRIOR TO 19 MUST ALSO BE SUBMITTED.  TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGIN BOND, PERMANENT PLAT AND OIL AND/OR GAS WELL ORIGIN ING ORIGINAL PERMIT NUMBER Required forms must be filed with four (24) hours in advance.	G - 1, SHOWING ORIGIN 229, A PERMANENT CON NALLY DRILLED BEFOR O ORIGINAL WELL RECO NALLY DRILLED ON ANI R, AND PERFORMANCE I	FAL PERMIT NUMBER AN PY OF THE PLAT AND THE PLAT AND THE JUNE 5, 1929, FIVE (5) CORD.  DIOR AFTER JUNE 5, 1928 BOND.	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORE COPIES OG - 1, PERFORMANCE 9, FIVE COPIES OG - 1, SHOW-		
1001 (24) Hours in advance.					
The following waiver must be conthereof.					
WAIVER: I the undersigned, Agent for this lease have examined an	d place on our mine map	Coal Company, Owner os this proposed_well locati	or Operator of the coal unde		
We the	Coal Company ha	ive no objections to said w	ell being drilled at this location,		
providing operator has comple	ied with all rules and regul	ations in Articles 4, 5, and 7	, Chapter 22 of the West Virginia		
			%. '%.		
er.	đ				
		Fo	or Coal Company		
			Official Title		