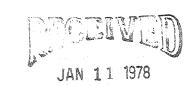


5-5 Mt. Alto (158)





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

CUL GAS DIVISION OF MINES

Oil and Gas Division

Quadrangle Cottageville	e 7½		RECOR	RD 13	5	Rotary Cable Recycling	GasXXX
Permit No. JAC-1411	~						d_ Storage
47-035		· .				Disposal	(Kind)
Company Kaiser Explor			Casing	and	Used in	Left	Cement fill up
Address P.O. Box 98, Ra Farm Emma Bibbee			Tubi		Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Lick Ru			Size		response a response sur property of the second seco		
Well No. DEK #50 District Union			20-16				The Company of the Co
The surface of tract is owner	•		Cond. 13-10"				
John W. Bibbee, Et al			9 5/8		204'	2041	110 Sax=To Surf.
Address 378 S Witcher			8 5/8	THE RESERVE THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED A	- David Garden		
Mineral rights are owned by	-	•	7		2201'	2201'	75 Sax=625'
Address			5 1/2	r-una rus ribra, shau nina ribadina njedin			1
Drilling Commenced 8/19			4 1/2				•
Drilling Completed 8/30/7			3				
Initial open flow 280		bbls.	2			4280	
Final production 332	cu. ft. per day	bbls.	Liners Us	ed		1295	Set on bottom
Well open			<u>5 1/2</u>				
Coal was encountered at	Fe	et		Salt V		***************************************	Feet
Formation Color	Hard or Soft	Top Feet	Botton	ı Feet	Oil, Gas o	r Water	* Remarks
Shales Sand Red Shales Sand Red Rock Sand Shales Sand Red Rock Sand Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Shale Shale Red Rock Shale		0 124 183 375 414 444 485 525 537 602 633 698 729 808 824	124 183 375 414 444 485 525 547 602 633 698 729 808 824 847	mana and an and an and an			
Sand Red Rock Shale Sand Shale Sand Shale Sand		847 873 894 938 973 995 1001 1010	873 894 938 973 995 1001 1010				

⁽over)

1. States regardant regular de proposition de la company d				
Formation Color	Hard or Soft	Top Feet 15	Bottom Feet	Oil, Gas or Water * Remarks
Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Maxon Big Lime Shale Injun Shale Coffee Shale Shale Brown Shale Shale Brown Shale Shale Marcellus Log Total Depth		1053 1064 1091 1130 1246 1261 1285 1341 1569 1609 1676 1752 1836 2130 2150 3294 3746 4152	1064 1091 1130 1246 1261 1285 1341 1569 1609 1676 1752 1836 2130 2150 3294 3746 4152 TD 4301	
0 non 42	82-WTL			
	Anney Collection Colle	. · ·		
and the second of the second o	Jan 18 Garage	ee waaran		
			To Company the Company of the Compan	
	**-Long-de-wind control and co			
·,	BOOKERSON AND AND AND AND AND AND AND AND AND AN			
	EL-right laws later lessons			
			ud eti	
	pose indication monatorial instead			
ALL (s) declarates proprieta de la companya del la companya de la		O ALEXANDER OF THE PROPERTY OF		

APPROVED _

Signed by

Robert A. Pryce





OIL & GAS DIVISION DEFT. OF MINES

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

				·
TO THE DEPARTMENT OF MINES.				7 g
Charleston, W. Va.	DATE	August 1, 1	977	
Buriace Owner John W. Bibbee, et al	Company_	Kaiser Explora	tion & Min	ina Co.
378 S. Witcher Road, Belle, WV		Box 98, Ravens		
fineral Owner Same as above	Farm		Acres	
dire		waters) lick Run o		
cal Owner Same as above	Well No		Elevation	
ddrew	District		County_	
oal Operator Not operated			•	
xidress	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Marie Commission of the Commis	***************************************
THIS PERMIT MUST BE POSTED AT THE WELL SITE				
Al' provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved	Tatenmonori			
for <u>drilling</u> . This permit shall expire if	INSPECTOR TO BE NOTIF	IED Rie	hard Morr	is .
operations have not commenced by 12-4-77.	ADDRESS	Gra	ntsville,	W. Va.
Deputy Director - Oil & Gas Division	PHONE 3	54-7259		
ENTLEMEN:				
The undersigned well operator is entitled to drill upon t				
75 in Jackson County, Book 130 XXX NEW WELL DRILL DEEPER	* -	ILL FRACT	TRE OR STI	שרים. יווער
OIL AND GAS WELL ORIGINALLY DRILLI			one on si	MULATE
The enclosed plat was prepared by a registered engineer ave been notified as of the above date.				
The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or	y notified that a filed with the D	ny objection they wish Department of Mines wit	to make, or a hin ten (10) d	re required lays. *
Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the D		ďav	hafora	l operators or on the
	Very truly you			Minina (
LEASE SUBMIT COPIES OF ALL	(Sign Name)		7	
COPHYSICAL LOGS DIRECTLY TO:	(Sign Name)	Well Operator	Robert A!	Prvce
ST VIRGINIA GEOLOGICAL AND		Box 98	MODEL C M:	riyce
CONOMIC SURVEY Adda		Street		
of O. BOX 879 of Well Op Well Op		Ravenswood		
DRGANTOWN, WEST VIRGINIA 26505 SP S-304 - 292-6331	***************************************	City or Town	**************************************	
		Wast Virgin	ia	
		State		
*SECTION 3 If no objections are filed or found by the tice and plat by the department of mines, to said proposed location filing of such plat, that no objections have been made by the coal d the well operator authorized to proceed.	n, the department sl	hall forthwith issue to the w	ell operator a ne	emit racition
RIANKET DAMA		JAC-1411		
PLINIL DANS	-	L. L. T. L. L.	PERMI	T NUMBER
have read and understand the reclamation requirements as set sapter 22. Article 4. Section 12-b and will carry out the specified requ	forth in irements."	47-035		

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

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN FR.	ACTURE-STIMULATE		
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT:			
NAME FWA Drilling Com	pany				
ADDRESS Box 448, Elkv	iew, W. Va.	ADDRESS PO Box	1433, Charleston, WV		
TELEPHONE 965-3379		TELEPHONE 342-31	71		
ESTIMATED DEPTH OF COMPL	ETED WELL: 4300		CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	Marcellus	Shale			
TYPE OF WELL: OIL_			DISPOSAL		
	RECYC	LING WATER FLOC	DDOTHER		
		•			
TENTATIVE CASING PROGRAM					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 - 10					
7 - 3/6	200	200	110 Sax= To Surface		
8 - 5/8	2225	2225	75 Sax= 625'		
5 ½	2223	2223	75 3dx- 025		
4 1/2		DESCRIPTION OF CASE			
3			Perf. Top		
2			Perf. Bottom		
Liners			Perf. Top		
		, 1 Nobel Substitution (Nobel Substitution (No	Perf. Bottom		
			standers för execusioner		
APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN THE	None Anticipa E AREA? No	ted, access	O 8 NO - roberto praeso		
TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PER	MIT FEE, PERFORMANCE BO			
	OF OG - 1, SHOWING OR TO 1929, A PERMANENT	IGINAL PERMIT NUMBER AND COPY OF THE PLAT AND TO			
TO FRACTURE - STIMULATE:					
BOND, PERMANENT PLAT	AND ORIGINAL WELL F	FORE JUNE 5, 1929, FIVE (5) C RECORD. AND/OR AFTER JUNE 5, 1929			
ING ORIGINAL PERMIT NU	MBER, AND PERFORMAN	CE BOND.	, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	d within ninety (90) days o	of completion for bond release.	Inspector to be notified twenty-		
		· .	and the second of the second o		
The following waiver must be thereof.	be completed by the coal	operator if the permit is to be is	ssued within ten days of receipt		
WAIVER: I the undersigned, Age this lease have examin		Coal Company, Owner maps this proposed well location			
We the	Coal Compa	ny have no objections to said we	ell being drilled at this location,		
code.	complied with all rules and	regulations in Articles 4, 5, and 7	, onapter 22 of the West Virginia		
		Annal Halland and Annal Anna and Anna			
		Fo	r Coal Company		

Official Title