

4630 Marcellus Skale 6-6 Providence (3.59)



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OT & GAS DIVISION DEPT. OF WILL

MAR 1 6 1979

Oil and Gas Division

WELL RECORD =

Cottageville Quadrangle__ Permit No. JAC-1460

Rotary_XXX	Oil
Cable	Gas XXX
Recycling	Comb.
Water Flood	Storage
Disposal	(Kind)

Company KAISER EXPLORATION & MINING CO. Address Box 537, Ripley, WV Farm Roy Hoschar Acres 69	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Left Fork of Cow Run Well No. DEK #59 Elev. 905 KB District Union County Jackson	Size 20-16 Cond.	The state of the s		
The surface of tract is owned in fee by Roy Hoschar	9 5/8	331	331	110 Sax
Address Rt. 2, Cottageville, Wv	8 5/8			
Mineral rights are owned by Same Address	7 5 1/2	2508	2508	75 Sax
Drilling Commenced 0/20//0	4 1/2		4629	200 Sax
Drilling Completed 9/4//8	3		 	4
Initial open flow Zero cu. ft. bbls. Final production 158 cu. ft. per day bbls. Well open 6 hrs. before test 880 RP.	Liners Used			
Well treatment details:	Attach copy of	cementing rec	ord.	

Perforated 4½" csg. 4467' to 4556' with 19 shots in Marcellus foam frac with 212 bbl water and 60,000 lbs sand. Tested 158 MCF/Day with 880 PSI shut in pressure after frac. Perforated 4½" @ 3975' to 4065' in Brown Shale section foam frac w/307 bbl water & 60,000# sand.

Coal was encountered at ___None Salt Water Feet 3975-4065 & 4467-4556 Fresh water_ Feet . Brown Shale & Marcellus Producing Sand____

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface	0	· 20	- english was any panta panta panta and and panta panta panta panta banka Albaba Albaba Albaba Albaba Albaba A	
Shale	20	295		
Sand	295	327		
Shale	327	515		
Sand	515	558		
Shale	558	623		
Sand	623	640		
Shale	640	668		
Sand	668	700		
Shale	700	730		
Sand	730	783		
Shale	783	883		
Broken Sand	883	1049		4
Shale	1049	1200		
Sand	1200	1293		
Shale	1293	1780		
Maxon Sand	1780	1850		
Shale	1850	1857		
Big Lime	1857	1997	and the second s	
Shale	1997	2010		
Injun Sand	2010	2142		
Shale	2142	2470		1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V
Coffee Shale	2470	2490		
Berea Sand	2490	2502		<u>.</u>

(DV(F)

^{*} Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 2/	Bottom Feet	Oil, Gas on Water * Remarks
Shale Brown Shale Shale Marcellus Shale	2502 3651 4094 4489	3651 4094 4489 4630	
Total Depth	4630		
0101. @ 4628-WTL		Additional services in the services of the ser	
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PPROVED Robert A. Pryce

By Operations Manager

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OIL & GAS DIVISION DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

•	•		
TO THE DEPARTMENT OF MINES, Charleston, W. Va.		August 14, 19	978
Surface Owner Roy Hoschar	DATECompany		ation & Mining Co.
Address	5239 Address	PO Box 537, R	ipley, WV 25271
Mineral Owner Same as above	Farm	Roy Hoschar	Acres69
Address	Location	(waters) Left For	
Coal Owner Same as above	Well No	DEK #59	Elevation 897
Address	District_	Union	CountyJackson
Coal Operator Not Operated	Quadran	_{gle} Cottageville	7½
Address	AND		
THIS PERMIT MUST BE POSTED AT THE WE			ॐ .
of the W. Va. Code, the location is hereby as for <u>drilling</u> . This permit shall e	oproved INSPECTOR		rd Morris
operations have not commenced by 12-			sville, W. Va.
A Company of the Comp	2 227 27 12 13 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Ch Care	
Deputy Director - Oil & Gas Division	PHONE 35	4-7259	
GENTLEMEN:		·	
The undersigned well operator is entitled to dri	ll upon the above nam	ed farm or tract of land i	for oil and gas, having fee
title thereto, (or as the case may be) under grant			
et ux made to Commonwealth			day of
19, inJacksonCounty, Book _	109 Page _	390	t.
XXX NEW WELLDRILL DEF	EPERRE	DRILLFRAC	TURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY			
The enclosed plat was prepared by a registered have been notified as of the above date.			owners and/or operators
The above named coal owners and/or operator a to make by Section 3 of the Code, must be received	are hereby notified that ed by, or filed with th	t any objection they wish e Department of Mines wi	to make, or are required thin ten (10) days. *
Copies of this notice and the enclosed plat were or coal owners at their above shown respective ad same day with the mailing or delivery of this copy	ldress	day	before, or on the
	Very truly	VOURS KAISER PEXPLO	RATTON AND MINING COMPA
PLEASE SUBMIT COPIES OF ALL	,	TOXA	V.
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name	Well Operator	Operations Manager
WEST VIRGINIA GEOLOGICAL AND		P. O. Box 537,	118 McGraw
ECONOMIC SURVEY	Address	Street	der verste eine der der Freit im Freit verste der Methode von der der verste der verste der verste der verste
P. O. BOX 879	of Well Operator	Ripley	
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	-	City or Town	
10 JUH - 272 UJJI		West Virginia	
		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.

BLANKET BOND

JAC-1460 PERMIT NUMBER 47-035

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

PROPOSED WORK ORDER TO	AXX TIDITY	## ## ## ## ## ## ## ## ## ## ## ## ##	TO A CHILLIDES CONTRACTOR A CONTRACTOR CONTR		
PROPOSED WORK ORDER TO XXX DRILL DRILLING CONTRACTOR: (If Known) NAME FWA Drilling Co. ADDRESS Box 448, Elkview, W. Va. TELEPHONE 965-3379					
		TEROLOMORDER MORNAY			
			2827		
PROPOSED GEOLOGICAL FORMATION: Marcellus Shale			CABLE TOOLS		
TYPE OF WELL: OIL_			E DISPOSAL		
	RECYC	LING WATER FLO	OODOTHER		
ENDER A COLUMN COLOR DE COLOR					
TENTATIVE CASING PROGRAM	M:				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
SIZE	DRILLING	WELL.	OR SACKS - CUBIC FT.		
20 - 16					
13 - 10			THE CONTRACTOR OF A CONTRACTOR OF THE CONTRACTOR		
	300	300	125 sax=to surface		
8 - 5/8					
7	2575	2525	75 sax=630 feet		
4 ½		4630	150 sax=1800 feet		
3			Perf. Top		
2 Liners			Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
OF PLAT. TO DRILL DEEPER OR REDRII SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL O BOND, PERMANENT PLAT	LL: OF OG - 1, SHOWING ORI TO 1929, A PERMANENT ED. ORIGINALLY DRILLED BEF C AND ORIGINAL WELL R RIGINALLY DRILLED ON	MIT FEE, PERFORMANCE B GINAL PERMIT NUMBER AN COPY OF THE PLAT AND T CORE JUNE 5, 1929, FIVE (5) (ECORD. AND/OR AFTER JUNE 5, 192	OND AND PERMANENT COPY TO PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 9, FIVE COPIES OG - 1, SHOW-		
			Inspector to be notified twenty-		
	* * *				
	i e				
1.1)					
The following waiver must be the following waiver waiver waiver which waiver which waiver w	be completed by the coal o	perator if the permit is to be	issued within ten days of receipt		
WAIVER: I the undersigned, Age	ent for	Coal Company, Owner	or Operator of the coal under		
WAIVER: I the undersigned, Age this lease have examin	ent fored and place on our mine	Coal Company, Owner	or Operator of the coal under		
WAIVER: I the undersigned, Age this lease have examin	ent fored and place on our mine :	Coal Company, Owner maps this proposed well located water to said well and well are to said well as to said well are to said	or Operator of the coal under		
WAIVER: I the undersigned, Age this lease have examin We the providing operator has o	ent fored and place on our mine :	Coal Company, Owner maps this proposed well located water to said well and well are to said well as to said well are to said	on. ell being drilled at this location.		

Official Title