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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

OCT 1 2 1977

OIL & GAS GIVISION DEFT. OF MINES

*	WELL	RECORD 9			011 Gas ^{XXX}
Quadrangle Ravenswood					Comb
<u> </u>					od Storage
Permit No. JAC 1378				Disposal	
				Disposar	(Kind)
Company Kaiser Exploration & Mini	ng Co_	Cosing and	Used in	Left	Cement fill up
Address Box 98, Ravenswood, WV		Casing and		8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Farm Roy Hoschar Acre		Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Ieft Fk. of Cow Run		Size			
Well No. DEK #14 Elev	659	20-16			
District Union County Jack		Cond.			
The surface of tract is owned in fee by		13-10"			-
Roy Hoschar, et al		9 5/8	210	210	100 Sax
Address Rt. 2, Cottageville, WV		8 5/8			1
Mineral rights are owned by Same as above		7	2273	2273	75 Sax
- · · · · · · · · · · · · · · · · · · ·		5 1/2	6464 J.J.		15 Dax
Address		4 1/2	4505	4505	110 Sax
Drilling Commenced November 3, 1976		3			
Drilling Completed November 10, 1976		3			-
Initial open flow Show cu. ft	bbls.			4436	
Final productioncu. ft. per day	bbls.	Liners Used			_
Well openhrs. before test	RP.				
Well treatment details:		Attach copy of c	ementing re	cord.	
Perforated 4½" casing at 4,449" a	nd 44611	with 16 shots			
Fractured with 1,000 bbls water a	nd 32,50	0# sand. Open	flow 580	M/D - 16	40 psi.
Perforated 4½" casing 3427 to 379					
Fractured with 372 bbls water and					
Shut in pressure = 1025 psi. Tes	ting not	complete.			
Coal was encountered at	F	eet	Inc	hes	
Fresh water Feel					Feet
Producing Sand Oriskany Sand & Br					
Troutening Sairo School Market 14 Add		Depti			
				,	
Formation Color Hard or Soft	Top Fee	t Bottom Feet	Oil, Gas	or Water	* Remarks
Red Shales	0	74		CT-MCCLEUSWINSKEROES IN CT-MORNIC MEETINGENES IN WE	minister mening separat personal mening separat personal personal personal personal personal personal personal
Red Rock	74	88			
Shales	88	104			
Red Rock	104	110	-		
Shale	110	190			
Sand	190	204			
Red Rock	204	290			
Sand	290	307	-		
Red Rock	307	440	CALLEGE DE DE CALLEGE DE DE CALLEGE DE CALLE		
Sand	440	450			
Red Rock & Shales	450	724	90 mar		
Shale	724	757	Tanana and a sandara and a		
Red Rock	757	763	A Transcript		
Shale	763	777			
Sand	777	792			
1		824			
Shale Rock	792	ž.			
Red Rock	824	840			
Shale	840	958			
Salt Sand	1958	1018 1152			
Shale Sand	1018	1182			
Sand Shale	1152 1182	1439		*	
Sand	1439	1439			
Shale, and the second s	1467	1576			

(over)

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

Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Marcellus Shale Onondaga L.S.		1576 1638 1741 1756 1892 2222 2236 2251 3394 3834 4228 4363 4446 4465	1638 1741 1756 1892 2222 2236 2251 3394 3834 4228 4363 4446 4465 4552	
neiderberg 1.5.	en en filosofie en	4400	4552	
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Date_October 10 19 77

APPROVED Folia a. Page Owne

By Staff Petroleum Geologist (Title)





__PERMIT NUMBER

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE November 1, 1976
Surface Owner Roy Hoschar, et al	Company Kaiser Exploration & Mining Co.
Address Rt. 2, Cottageville, W. Va	Address
dineral Owner Roy Hoschar & John Frie	se Farm Roy Hoschar, et al Acres 68 ac
Address Rt. 2, Cottageville, W. Va	TO CONTOUR (WORKERS)
coal Owner Roy Hoschar & John Fries	13164 871 A11
ddress Rt. 2, Cottageville, W. Va	District Union County Jackson
bal Operator Not Operated	Quadrangle Ravenswood 15', Cottageville 75'
\ddress	The state of the s
IS PERMIT MUST BE POSTED AT THE WELL	SITE
provisions being in accordance with Chapter	2?
the W. Va. Code, the location is hereby appro-	INSPECTOR
drilling. This permit shall expir	to BE NOTIFIED Richard Maris
rations have not Emmenced by 3-3-7;	ADDRESS Drantsville Wa
Notest to Sell	PHONE 354-7259
Deputy Director - Oil & Gas Division	FRONE OS 4 12 2
mark of the companies o	
The undersigned well operator is entitled to de	
	rill upon the above named farm or tract of land for oil and gas, having fee
le thereto, (or as the case may be) under gran	t or lease dated May 10th 19 74 by Roy
le thereto, (or as the case may be) under gran Hoschar, et almade to Devon Corp.	t or lease dated May 10th 1974 by Roy & Eason Oil Coand recorded on the 16th day of April
le thereto, (or as the case may be) under gran Hoschar, et almade to Devon Corp. 74, in Jackson XXX	t or lease dated May 10th 1974 by Roy & Eason Oil Coand recorded on the 16th day of April 126 Page 427
le thereto, (or as the case may be) under gran Hoschar, et almade to Devon Corp. 74, in Jackson County, Book XXX NEW WELL DRILL DE	t or lease dated May 10th 19.74 by Roy & Eason Oil Coand recorded on the 16th day of April 126 Page 427 EPPERREDRILLFRACTURE OR STIMULATE
le thereto, (or as the case may be) under gran Hoschar, et almade to Devon Corp. 74, in Jackson County, Book XXX NEW WELL DRILL DE	t or lease dated May 10th 1974 by Roy & Eason Oil Coand recorded on the 16th day of April 126 Page 427
Hoschar, et almade to Devon Corp. 74, in Jackson County, Book XXX NEW WELL DRILL DE OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered	t or lease dated May 10th 19.74 by Roy & Eason Oil Coand recorded on the 16th day of April 126 Page 427 EPPERREDRILLFRACTURE OR STIMULATE
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*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.

"I have read and understand the reclamation requirements as set forth in

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

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN F	DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT:				
NAME FWA Drilling Co.						
ADDRESS Box 448, Elkvie 765-3379	ew, W. Va. 25071	ኅለባ ኅኘ	ኃይን ኃንግኘ			
ESTIMATED DEPTH OF COMPL		ROTARY XXX CABLE TOOLS				
PROPOSED GEOLOGICAL FORM	!					
			E DISPOSAL			
			OOD OTHER			
		\$20 C	OSD			
TENTATIVE CASING PROGRAM	4:					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.			
20 - 16						
13 - 10						
9 - 5/8	200	200	100 Sax			
8 - 5/8	ingele en de grande grande kapte grande de grande grande grande de grande de grande grande grande grande grand Mar en de grande gr					
5 ½	2300	2300	75 Sax			
4 1/2	4550	4550	110 Sax			
3			Perf. Top			
2			Perf. Bottoin			
Liners	E Demokratik Kantoloff (1886) mili makan ke-untur mili makan menjang selangan mili mpulan sembangan		Perf. Top			
			Perf. Bottom			
OF PLAT. TO DRILL DEEPER OR REDRIF SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR ' MUST ALSO BE SUBMITT! TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL O BOND, PERMANENT PLAT OIL AND/OR GAS WFLL O ING ORIGINAL PERMIT NO	LL: OF OG - 1, SHOWING ORIGINATED APERMANENT OF THE PROPERTY O	GINAL PERMIT NUMBER A COPY OF THE PLAT AND DRE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 19 E BOND.	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW-			
The following waiver must thereof.	be completed by the coal of	perator if the permit is to be	e issued within ten days of receipt			
	ent for		er or Operator of the coal under			
			well being drilled at this location,			
providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.						
		<u> </u>	· · · · · · · · · · · · · · · · · · ·			
			For Coal Company			

Official Title