



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division WELL RECORD

Quadrangle_Cottageville



OIL & GAS DIVISION

Rotary_XXX	_ Oil
Cable	Gas_XXX
Recycling	Comb.
Water Flood_	_ Storage
Disposal	
1.054	Comone fill un

6 2.00 Pt 2 00 0 1 Pg American					Como
Permit No. JAC 1393	And the second			Water Floo	d Storage
				Disposal	(Kind)
	140	+ 1 , p. 1			(Kind)
Company Kaiser Exploration & Mi	ning Co.				
Box 98 Ravenswood W	Va	Casing and	Used in	Left	Cement fill up
Farm Earlie Hoschar	1301	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Left Fk of Cow Ru	n				
Well No. DEK #24 F		Size			
		20-16	nd de la companya de		
District Union County Jackson The surface of tract is owned in fee by		Cond. 13-10"			
Earlie Hoschar et al			214	27/	770
Address Rt. 1, Box 127 - Evans, W	Va	9 5/8	1 214	274	110 sax= to su
		8 5/8			
Mineral rights are owned by <u>Same as a</u>			2281	2281	75 sax=625'
Address	1-11-110-110-110-110-110-110-110-110-11	5 1/2			
Drilling Commenced 6/30/77 Drilling Commenced 7/14/77		4 1/2	4486	4486	150 sax=1800'
Dinning Completed		3			
Initial open flow Show cu. ft.	bbls.	2			_
Final production 100 MCFD CMX MX per day.	bbls.	Liners Used			
Well openhrs. before test					
Coal was encountered at	Feet		Inch	es	And the state of t
Fresh water Producing Sand Oriskany Sand	eet	Salt V	Water		Feet
Producing Sand Uriskany Sand		Depth	4420-44	.22	
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	r Water	* Remarks
Soil Sandstone	0	25	No. of the control of		
Sands cone Shale	25 50	50 240			
Sandstone	240	260			
Shale	260	265			
Sandstone	265	280	The second secon		
Shale	280	373			
Sandstone	323	405			
Shale	405	415	militaring		
Sandstone	415	425	-		
Red Rock	425	492	1		

Soil Sandstone Shale Sandstone Shale Sandstone Shale Sandstone Shale Sandstone Red Rock Sandstone Red Rock Sandstone Shale & Red Rock	0 25 50 240 260 265 280 323 405 415 425 492 522 640 680 742	25 50 240 260 265 280 373 405 415 425 492 522 640 680 742 770	
Shale	770	794	
Sandstone Shale & Red Rock Salt Sand Slate & Shells Sandstone	794 810 937 1011 1072	810 937 1011 1072 1087	
Slate	1087	1118	

(over)

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

Formation Color Hard or Soft	Top Feet 9	Bottom Feet	Oil, Gas or Water * Remarks
Sandstone Slate Sandstone Slate & Shells Sandstone Slate Salt Sand Slate Maxon Sand Big Lime Shale Injun Sand Shale Coffee Shale Berea Sand Shale Br. Shale White Slate Br. Shale Marcellus Shale Onondaga Limestone Oriskany Sand Helderberg Limestone	1118 1125 1193 1208 1270 1300 1375 1432 1500 1570 1685 1714 1816 2178 2194 2207 3354 3794 4122 4188 4323 4406 4426	1125 1193 1208 1270 1300 1375 1432 1500 1575 1685 1714 1816 2178 2194 2207 3354 3794 4122 4188 4323 4406 4426 4512	
Log Total Depth	4512		
			# 100 100 200

Date	Marc	h ₄ 2			19 78
APPROVED	龙	h	a	R	Owner
By	Opera	tions	Man	ager	

(Title)

"I have read and undersi Chapter 22, Article



Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE March 21, 1977
arface Owner Earlie Hoschar, et al	
ddress Rt. 1, Box 127, Evans, WV	
ineral Owner Same as Above	
	Location (waters) Left Fk. of Cow Run of Mill
Canada and At	Well No. DEK #24 Elevation 624
ddress	linion
Not Opposited	Quadrangle Ravenswood 15, Cottageville 7½
	* ************************************
RIMIT MUST BE POSTED AT THE WELL SITE	
Thons being in accordance with Chapter 22, W. Va. Code, the location is hereby approved	
This permit shall expire it	INSPECTOR Richard J. Morris
ons have not commenced by	ADDRESS Box 372, Grantsville, W.Va.
efect of Jacobson Division Director - Oil & Gas Division Division	PHONE 354-7259
The place of the Country of the Coun	Landay and a control of the control
entlemen:	
69 in Jackson County, Book 109 XXX NEW WELL DRILL DEEPER	Page 393 REDRILL FRACTURE OR STIMULATE
VVV	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRIE	REDRILLFRACTURE OR STIMULATE
NEW WELL	REDRILL FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.
NEW WELL	REDRILL FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the
NEW WELL	REDRILL FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators a day
NEW WELL	REDRILL FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the
NEW WELL	REDRILL FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, Exploration & Mining (Sign Name) Exploration & Mining (Sign Name) F. Wegener's Representation of R
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, Exploration & Mining (Sign Name) W. F. Wegener, Uwner's Representat Box 98
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, Exploration & Mining (Sign Name) Exploration & Mining (Sign Name) Exploration & Street ddress Street
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, Exploration & Mining (Sign Name)
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours,
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * d by registered mail, or delivered to the above named coal operators of Department of Mines at Charleston, West Virginia. Very truly yours,
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. The provided that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * The department of Mines within ten (10) days. * The department of Mines at Charleston, West Virginia. The department of Mines at Charleston, West Virginia a
NEW WELL	REDRILLFRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969. The provided that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. * The department of Mines within ten (10) days. * The department of Mines at Charleston, West Virginia. The department of Mines at Charleston, West Virginia a
OIL AND GAS WELL ORIGINALLY DRIP The enclosed plat was prepared by a registered enging to been notified as of the above date. The above named coal owners and/or operator are her make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were maile coal owners at their above shown respective address ne day with the mailing or delivery of this copy to the EASE SUBMIT COPIES OF ALL OPHYSICAL LOGS DIRECTLY TO: ST VIRGINIA GEOLOGICAL AND ONOMIC SURVEY O. BOX 879 RGANTOWN, WEST VIRGINIA 26505 *SECTION 3 If no objections are filed or found by ite and plat by the department of mines, to said proposed local filing of such plat, that no objections have been made by the contractions.	REDICTION REDICTION REDICTION REPORE JUNE REPORE JUNE REPORE JUNE REPORE JUNE REPORT R

The reclamation requirements as set forth in -b and will carry out the specified requirements."

Wegger, Owner's Representative

_PERMIT NUMBER

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	LCo.	NAME Bill W. B	ackus		
ADDRESS Box 448, Elk	view, WV	ADDRESS Box 1433,	Charleston, WV		
TELEPHONE 965-3379		TELEPHONE 342-3	171		
ESTIMATED DEPTH OF COMPI	· ·		CABLE TOOLS		
PROPOSED GEOLOGICAL FOR					
TYPE OF WELL: OIL_		TOMB STOPACE	DICROCAT		
			ODOTHER		
	Itho I on	WATER FECA	OTHER		
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	200'	2001	100 6		
9 - 5/8	200	200'	100 Sacks = To Surfa		
8 - 5/8	A.O.T. T. 1				
7	2275'	650	75 Sacks =625!		
5 1/2	AFOEL				
4 1/2	4525'	4525	125 Sacks =1500'		
3			Perf. Top		
4			Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
APPROXIMATE FRESH WATER	DEPTHS FEFT	CAIT WATER	Division		
ADDROVINGED CO. I. DODGE	None Anticipated	SALT WATER _	FEET		
APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN TH					
TO DRILL:					
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERM	HT FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRIE	LL:				
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR	OF OG - 1, SHOWING ORIG TO 1929, A PERMANENT C	INAL PERMIT NUMBER AND COPY OF THE PLAT AND T	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD		
MUST ALSO BE SUBMITTI	ED.				
TO FRACTURE - STIMULATE:					
BOND, PERMANENT PLAT	AND ORIGINAL WELL RE	CORD.	OPIES OG - 1, PERFORMANCE		
OIL AND/OR GAS WELL O ING ORIGINAL PERMIT NU	RIGINALLY DRILLED ON A IMBER, AND PERFORMANCE	ND/OR AFTER JUNE 5, 1929 BOND.	, FIVE COPIES OG - 1, SHOW-		
Required forms must be file	d within ninety (90) days of	completion for hand release	Inspector to be notified twenty-		
four (24) hours in advance.	(oo, days or	provider for botto release.	inspector to be notified twenty-		
The following	ho communication is				
The following waiver must hereof.	be completed by the coal op	perator if the permit is to be is	ssued within ten days of receipt		
WAIVER: I the undersigned, Age					
		naps this proposed well location			
We theproviding operator has	Coal Company	have no objections to said we	ell being drilled at this location, , Chapter 22 of the West Virginia		
Code.	-		, agreement and a size from the filling		
		Fo	r Coal Company		
	· ·		ing the property of the second		
			Official Title		