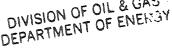


GO ELA POCA (SISSBONVILLE) 192 JAN 3 1977







# DIVISION OF OIL & GAS State of Mest Hirginian DEPARTMENT OF ENERGY Gil und Gas Bivision

Date			1986		
Opera	tor's				
Well	No	DEK	#11		
Farm	W. W	. Br	itton		
API N	ю4	Z <b>-</b>	035	<u>- 1388 - </u>	Frae

### WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas $\chi$ / Liquid Injection (If "Gas," Production $\chi$ / Underground	/ Waste nd Storage	e Disposal e/ Deep	/ Shall	llow <u>x</u> /)
LOCATION: Elevation: 706 Watershed ]	ackson Rur	of Straid	tht Fork	
District: Ravenswood County Jacks	on '	Quadrangle	Ripley	
DISCIPLE NAVEHSWOOD				
COMPANY Kaiser Exploration and Mining Company				_
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Size			
SURFACE OWNER Frank Britton, et ux	20-16			
ADDRESS 17 Holly Street. New Bedford, MASS	Cond. 13-10"	See ori	ginal OG-	10
MINERAL RIGHIS OWNER W. W. Britton	9 5/8	1		
ADDRESS Same	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	7			
Tephabock ADDRESSRt. 1, Box 101A, Ripley, W	A	,		
DERMITT ISSUED	3 1/2			
DRILLING COMMENCED December 16, 1976	4 1/2			
DRILLING COMPLETED December 23, 1976 1/10/86	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	. 4			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
GEOLOGICAL TARGET FORMATION Oriskany		Det	oth 465	igi feet
Depth of completed well 4728 feet	Rotary X	/ Cab	le T∞ls	
Water strata depth: Fresh N/A feet;				
Coal seam depths: N/A				e area? No
*Drilled on fluid				
OPEN FLOW DATA	-		. •	<i>.</i>
Producing formation Brown Shale	Pa	ly zone de	pth 3743	-3907' reet
Gas: Initial open flow Mcf/d				
Final open flow 293 Mcf/d				
Time of open flow between ini				
Static rock pressure 1000 psig(surfa	ce measure	ament) aft	er_72_hc	ours shut i
(If applicable due to multiple completio				
Second producing formation	P	ay zone de	pth	fee
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	n flow	Bbl/
Final open flow Mcf/d				
Time of open flow between ini				
Static rock pressurepsig(surface	e measure	ment) afte	er h	ours shut i
		10aux	ะ รางาน การ	noverse sid

Lis

7/10/86

ALLS OF PERFORMIND INTERVALS, FRACTURING OR STIMULATING, PRYSICAL CHANGE, ETC.

Young Wireline perforated the Brown Shale from 3743'-3907' with 19 shots. Set Baker retreivable bridge plug at 3980'.

7/11/86 NOWSCO 75% foam fractured the Brown Shale without sand at 2100 psig. Total nitrogen: 380,000 SCF; total fluid: 164 bbl; ISIP: 1240 psig; 5 min SIP: 1100 psig.

#### WELL LOG

		<b>4 6</b> 440			•	
WATION COLOR HARD OR SOFT	TOP	FEET	BOITOM FEET	Including	REMARKS indication water, coal	of all fresh, oil and gas
						, .
Same as previously submitted		٠				
					٠,	
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•			<b>10</b>	•		

(Attach separate sheets as necessary)

:	KAISER EXPLORATION AND MINING COMPANY	
	Hell Operator	
ŧ		
į	Ву:	
1	Date: July 24, 1986	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including earl, encountered in the drilling of a well."



### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

### Oil and Gas Division

	AA EFF	RELUXU		-	· UII
Quadrangle Ripley					Ga&XXXX
Gradian Bie TATOTEA					Comb
Permit No. JAC 1388					d Storage
				Disposal	(Kind)
Company Kaiser Exploration & Mi	-: 0-				
Address Box 98, Ravenswood, WV		Casing and	Used in	Left	Cement fill up
Farm W.W. Britton Ac		Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Jackson Rum of Str	aight Fork	Size		and the second s	
Well No DEK #11 Ele	2v/06	20-16		diversionis	
District Ravenswood County Jacks		Cond.			1
The surface of tract is owned in fee by Frank Britton, et ux		13-10"	<b></b>		
Address 17 Holly St., New Bedford	Macc	9 5/8	208	208	100 Sax
		8 5/8	7000	<del></del>	
Mineral rights are owned by Same as ab		7	1992	1992	75 Sax
Address		5 1/2			
Drilling Commenced December 16, 19		4 1/2	4701	4701	205 Sax
Drilling Completed December 23, 19	76	3			
Initial open flow Show cu. ft		2			
Final production 250 MCF/XXXX per day_	bbls.	Liners Used			,
Well openhrs. before test 1	360 RP.				
Well treatment details:  Perf. Oriskany 4657-4659 w/16 s	hots, frac	Attach copy of with 490 RRIS	cementing rec	ord.	0/40 cand
Perforated Marcellus 4259-4534	w/26 shots	face with 10	70 DDI 6	10,500# 2	0/40 Sanu.
7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	w/ 20.3110CS,	Trac With 10	10 BBF2 M	ater & 81	.000# sand.
	· · · · · · · · · · · · · · · · · · ·				
Coal was encountered atNone					
Fresh waterFe	ree	C 1. 3	Inch	es	· _
Producing Sand Oriskany & Marcellus	et	Salt \ Depth	Vater	650 8 125	Feet
a. Judenig Danie		Depti	1	033 & 423	3-4334
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	or Water	* Remarks
Sand	. 0	10			
Shale	10	61			
Sand	61	85			
Shale	85	144			
Sand	144	152			
Shale	152	198			
Sand Stale	198	268	CLA respons		•
Rad Rock	268	295	c.,;		•
Sand	295	341	o-company of the company of the comp		
Red Rock	341 346	346	on the state of th		
Shale	385	385 440			
Pad Fock	440	461	THE PRODUCTION OF THE PRODUCTI		
Sand	461	542			
Shale	542	581			
Red Rock	581	623			•
Sand Red Book	623	649			
Red Rock Sand	649	761		•	
Shale	761 760	780			* · · · · · · · · · · · · · · · · · · ·
Red Fook	780	820			The second se
Shale	820 840	840 894			
Line	894	901			
					Alif 4 min
	(υ	ver)	***************************************		
* Indicates Electric Log tops in the remarks	section.				

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Rema	rks
Shale Red Rock Salt Sand Shale Broken Sand Shale Sand Shale Sand Shale Maxon Big Lime Keener Sand Shale Injun Sand Shale Injun Sand Shale Breas Sand Shale Brown Shale Marcellus Shale Marcellus Shale Conordaga L.S. Oriskany Sand Helderberg L.S.	901 954 985 1009 1185 1249 1267 1327 1415 1474 1576 1692 1725 1760 1847 1857 2181 2206 2211 3370 3911 4380 4537 4636 4661	954 985 1009 1185 1249 1267 1327 1415 1474 1576 1692 1725 1760 1847 1857 2181 2206 2211 3370 3911 4380 4537 4636 4661		
Iog Total Depth		4728		
			· · · · · · · · · · · · · · · · ·	
<u> </u>				
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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

# DECEIVED JUL 2 5 1977

# OIL & GAS DIVISION OF MINES

#### CIL & GAS DIVISION DEFT. OF MINES

### Oil and Gas Division

Quadrangle Ripley Permit No. <u>JAC 13</u> 88 - W	RECORD		Cable Recycling	XX
Company Kaiser Exploration & Mining Co.  Address Box 98, Ravenswood, W. Va.  Farm W. W. Britton Acres. 52	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Jackson Run of Straight Fork Well No. DEK #11 Elev. 706  District Ravenswood County Jackson The surface of tract is owned in fee by	Size 20-16 Cond. 13-10''			
Frank Britton, et ux Address 17 Holly Street, New Bedford, Mass.	9 5/8 8 5/8	208	208	100 sax
Mineral rights are owned by Same as above Address	7 5 1/2	1992	1992	75 sax
Drilling Commenced December 16, 1976  Drilling Completed December 23, 1976  Initial open flow Show cu. ft 0 - bbls.  Final production 250 M cu. ft. per day bbls.	4 1/2 3 2 Liners Used	4701	4701	205 sax
Well openhrs. before test 1360 RP. Well treatment details: Logs show faulty cement job through Oriska: Squeeze with 50 sax at 4675' - no improvem Will treat upper zones Perf. Oriskan	ent	7.6 mln a 4 m		h 490 hhia water
& 10,500# 20/40 sand. Perf. marcellus 425 & 81,000 # sand.	59 <b>-45</b> 34 2/26 s	hots, fra	c with 10	70 bbls. water
Coal was encountered at <u>None</u> Feet  Fresh water Feet  Producing Sand Oriskany & Marcellus	Salt W	/ater		_ Feet

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Base of Pennsylvanian Big Lime Keener Sand Injun Sand Coffee Shale Berea Sand Brown Shale Marcellus Shale Onondaga L. S. Oriskany Sand Helderberg L. S. Log Total Depth	1692 1725 1847 2181 2206 3370 4380 4537 4636 4661 4728	1692 1725 1760 1857 2206 2211 3911 4537 4636 4661 4728	Approved: Date Zo July 1977  Lulu Que lunge Robert A. Pryce Kaiser Exploration & Mining

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES



### OIL & GAS DIVISION DEFT. OF MINES

Gasxxx show

Rotary\_XXX Oil\_

Cable\_\_\_\_\_

# Oil and Gas Division WELL RECORD

T3.0	Ripley						Comb
Permit No. JAC	1388						od_ Storage
						Disposal	(Kind)
Company Ka	iser Exp	loration & Mi	ning Co	Casing and	Used in	Left	Cement fill up
* •	-	swood, WV	-				■ Line State of the State o
		Acr		Tubing	Drilling	in Well	Cu. ft. (Sks.)
		on Run of Str		Size			
Well No.DEK #	11	Ele	v. 706	20-16			
District Rave	enswood	CountyJacks	on	Cond.			Land Street
		ned in fee by		13-10"			
Frank Britt	on, et u	X		9 5/8	208	208	100 Sax
Address	olly St.	, New Bedford	, Mass.	8 5/8	1000	7000	
Mineral rights a	are owned b	y Same as abo	ove	7	1992	1992	75 Sax
				5 1/2			
Drilling Comme	encedDe	<u>cember 16, 19</u>	76	4 1/2	4701	4701	205 Sax
		cember 23, 19		3		_	
Initial open flo	w <u>Show</u>	cu. ft	<u>-0-</u> bbls.	2			4
Final production	n	_cu. ft. per day	bbls.	Liners Used		_	_
Well open	···	_hrs. before test_	RP.		<u> </u>		
Well treatment	details:			Attach copy of	cementing rec	ord.	
		ment job thro					
		at 4675' - n	o improvemen	nt.			
Will treat	upper zo	nes.					
		<u> </u>					
		<u> </u>		······································			
Coal was encou	untered at	None	Feet	· · · · · · · · · · · · · · · · · · ·	Inch	es	
		Send.					
m 1							Feet
Producing Sand	1	rec					
Producing Sand	1						
Formation					h		
Formation			Top Feet	Depti Bottom Feet	h		
Formation Sand			Top Feet	Bottom Feet	h		
Formation Sand Shale			Top Feet 0 10	Bottom Feet  10 61	h		
Formation Sand Shale Sand			Top Feet  0 10 61	Bottom Feet  10 61 85	h		
Formation Sand Shale Sand Shale			Top Feet  0 10 61 85	Bottom Feet  10 61 85 144	h		
Formation  Sand Shale Sand Shale Shale Sand			Top Feet  0 10 61 85 144	Depti Bottom Feet 10 61 85 144 152	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale			Top Feet  0 10 61 85 144 152	Depti Bottom Feet 10 61 85 144 152 198	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand			Top Feet  0 10 61 85 144 152 198	Depti Bottom Feet 10 61 85 144 152 198 268	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale			Top Feet  0 10 61 85 144 152 198 268	Depti Bottom Feet 10 61 85 144 152 198 268 295	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Red Rock			Top Feet  0 10 61 85 144 152 198 268 295	Depti Bottom Feet 10 61 85 144 152 198 268 295 341	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Rad Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Rad Red Rock Sand Red Rock			Top Feet  0 10 61 85 144 152 198 268 295 341 346	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Red Rock Sand Red Rock Sand Red Rock Shale			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Rad Red Rock Sand Red Rock Sand Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Red Rock Sand Red Rock Sand Red Rock Shale			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Shale Red Rock Shale Red Rock Sand Shale Red Rock			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Red Rock Sand Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Sand Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623	Depti 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Sand Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Sand Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780 820	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Red Rock			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780 820	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780 820 840	h		
Formation  Sand Shale Sand Shale Sand Shale Sand Shale Red Rock Sand Red Rock Sand Red Rock Shale Red Rock Sand Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand Shale Red Rock Sand			Top Feet  0 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780	Depti Bottom Feet 10 61 85 144 152 198 268 295 341 346 385 440 461 542 581 623 649 761 780 820	h		

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Shale	901	954	
Red Rock	954	985	
Salt Sand	985	1009	
Shale	1009	1185	
Broken Sand	1185	1249	A Company of the Comp
Shale Sand	1249	1267	
Shale	1267 1327	1327	The state of the s
Sand	1415	1415 1474	
Shale in a common particle.	1474	1576	
Maxon	1576	1692	
Big Lime	1692	1725	<ul> <li>Section of the state of exercise property of the section of the sect</li></ul>
Keener Sand	1725	1760	eranda api sarabrata sabibatha kwa 1961 ili k 1964 ili kwa 1961 ili kwa 1964 ili kwa 1961 i
Shale with the state of the sta	1760	1847	
Injun Sand	1847	1857	
Shale	1857	2181	and the street of a probability of the street of the stree
Coffee Shale Berea Sand	2181	2206	and the second of the second o
Shale	2206 2211	2211 3370	
Brown Shale	3370	3911	a de la companya della companya dell
Shale	3911	4380	
Marcellus Shale	4380	4537	
Onondaga L.S.	4537	4636	Making Making Palabah Salabah Salab
Oriskany Sand	4636	4661	
Helderberg L.S.	4661		
Log Total Depth	·	4728	
		The control of the co	
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		And Andrews and An	
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Date October 10 19 77

By Staff Petroleum Geologist (Title)

FORM (Obve	2(B) )(())	FILE	COPY.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7
7/85		MANE	7 - 3	1986	



	Date: February	11	. 06
1)	Date: TENTAGE A	44	19. 00

2) Operator's DEK #11, Britton

Well No. 27 035 1388-3 3) API Well No. 47 County Permit

# DIVISION OF OIL & GAS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

				AFF	LICATIO	Y FUK A WELL	WORK PERMII			
) WELL TY	PE: A C	il	/ Ga	ιs <u>Χ</u>	/					
	B (1	f "Gas",	Production	л <u>X</u>	/	Underground sto	orage	_/ Deep	/ Shallow	Χ /
LOCATIO		vation: _						of Straigh		***************************************
	Dis	strict:	Ravens	wood.	455			Quadrangle: _		SANDUULL
WELL OP	ERATOR	Katse	Rayens ning (	oratio	श्रीकिर्य	25550 7	) DESIGNATED	AGENT R.	A. Pryce	
Addres	_	. O. B	ox 8	ompan,	y	Construction of the Constr	Address	Sa		
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OIL & GA					<u> </u>	O.	DRILLING CO	NTD ACTOD.		
	erry Te			1111		7,	,	<u>(aiser Compa</u>	ny Tools	
Addres			× 101A			-		_Same	11y 10013	
Muui (5)	***************************************	Tey, W		5271		- Commence	Address	Jun e		
						Martina 079-2844.				
PROPOSE	ED WELL	WORK:						/ Stimulate	/	
							e new formation_			
			Other p	hysical ch	ange in we	ell_(specify)_SqU	<u>ieeze 4 1/2'</u>	' casing ove	r Berea;	perforate,
GEOLOG:	ICAL TAR	GET FOR	MATION				<u>id Brown Sha</u>	ale: comming	<u>le Berea,</u>	<u>Shale, O</u> r
12) Estim	ated depth	of complet	ted well, .		<u>)1'(KB</u>	feet				
13) Appro	oximate trat	a depths:	Fresh, _	<u> N/A</u>		feet; salt,_	N/A	feet.		
14) Appro	ximate coa	l seam der	oths:	None	***************************************	Is coal	being mined in the	area? Yes	/ No_	X/
CASING A	AND TUBI	NG PRO	GRAM							/
SING OR		SPE	CIFICATIONS	9	H	FOOTAGE INT	TERVALS 1	CEMENT FILLUP	PACE	(FBS
BING TYPE	Size	Grade	Weight	No.	Used	For drilling		OR SACKS		h Bad E Star 7
d.,	Size	Grade	per ft.	New	Useo	FOR GRAINE	Left in well	(Cubic feet)	1	
ductor	H	<b></b>	1	<b></b>					Kinds N	one
water	19 5/8	HVA_	<u> </u>	-N/A -		<u>    208' (KB</u> )	208'(KB)	100 sk		-
	<del>                                      </del>	V FF	100			10001(117)	20001/10		Sizes	•
mediate	1/	K-55	20	X		1992'(KB)	1992'(KB)	75 sks		
uction	4 1/2		10.5	X			4701'(KB)	2055KS	Depths set	
ng	2 3/8	'J-55	4.6	X		-	4539 (KB)			
									Perforations:	
									Top	Bottom
									M4675	4659 (K
									4259	4534 (KI
										4
								•		
		Managara Amarak Salaman Salaman Salaman		Hitland Commission Commission Commission Commission Commission Commission Commission Commission Commission Com	OF	FICE USE O	NLY			
	***************************************				<del></del>	ILLING PER	<del></del>			Matter and Consider and Supplemental Consideration of the State of the
		m	* 000	<u></u>						
nit number_	4	<u>7-035</u>	<u>-1388</u>	-Frac		,			<u>arch 20,</u>	19 86
								Da	ite	
permit cov	ering the w	ell operate	or and wel	location	shown bel	ow is evidence of	permission grante	d to drill in accorda	nce with the per	rtinent legal re-
ements subj	ect to the c	onditions	contained	herein and	on the re	verse hereof Notifi	ication must be giv	en to the District Oi	and Gas Inspec	ctor. (Refer to
ct oil and s	ie construc tas inspecto	non of ros	ads, locations before a	ons and po- ctual nerm	is for any printed work	permitted work. has commenced.	in augmon, the we	ll operator or his co	ntractor snall no	Mily the proper
								*****		
permitted w rse hereof.	Ork is as o	escribed if	n the Notic	e and Ap	pucation, p	nat, and reclamati	ion plan, subject to	any modifications	and conditions s	pecified on the
nit expires	M	arch	20, 1	988		unleer wall u	onk is common and	prior to that date and	d management and and a	
michphics.				w		MINCS2 WEN W	OIR IS COMMISSIONED	prior to mar uate and	i prosecuted with	n due dingence.
						A CONTRACTOR OF THE PROPERTY O				
Bond:	Agent	:   I	Plat:	Casin	g Fe	e WPCP	S&E (	Otb@r		
4	1	,   /	101	40	- 1		MACI	77 1		
	11	<u>&gt;                                     </u>	シシー	<u> </u>	> 1969:	2021	KK PA	Julius // //		
						1				
							An AN	The state of the s		
E: Keep o	one copy of	f this pern	nit posted	at the dril	ling location	on. DA	ector Div	ision of Oil	and Cac	
·			-						and Gas	File
		See	the revers	e side of t	the APPLI	CANT'S ØOPY I	or instructions to	the well operator.	*	





OIL & GAS DIVISION DEFT, OF MINES

# DEPARTMENT OF MINES Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.		DATE December 10, 1976
Surface Owner Frank Britton, et ux		Vaican Evolomation & Mining Co
17 Holly Street, New Bed	ford, Mass.	OO445124111 Y
Mineral Owner Same as above	NAMES OF THE PARTY	Farm W. W. Britton Acres 52 Ac
ddress	argaint the submitted angule to encurying Automorphism committees again	Location (waters) Jackson Run of Straight Fork
Cama as above		DEV 1133
ddress		District Ravenswood County Jackson
oal Operator Not operated		A STATE OF THE PROPERTY OF THE
ddress	The state of the s	A 8 p py 0 11 8 p
PERMIT MUST BE POSTED AT THE WELL	SITE	
provisions being in accordance with Charter		
he W. Vs. Code, the location is hereby appr	F-A	SPECTOR  BE NOTIFIED Richard J. Morris
drilling This permit shall expraisions have not commenced by4-15-	211 6	DRESS Grantsville, W.Va.
John h roda		ONE 354-7259
Deputy Director - Oil & Gas Division	rnc	JNE
entlemen:		
we been notified as of the above date.  The above named coal owners and/or operator	ed engineer or	licensed land surveyor and all coal owners and/or operators
	ere mailed by re address py to the Depar	egistered mail, or delivered to the above named coal operators  day
	<b>\</b>	D. H. Lowella resident Engineer
ST VIRGINIA GEOLOGICAL AND	· • • • A	Box 98
ONOMIC SURVEY O. BOX 879	Address of	Street
RGANTOWN, WEST VIRGINIA 26505	Well Operator	
-304 - 292-6331		City or Town
		West Virginia
		State
nce and plat by the department of mines, to said pro filing of such plat, that no objections have been mad	posed location, the	State  partment of mines, within said period of ten days from the receipt of the department shall forthwith issue to the well operator a permit reciting the receipt of the department and that the same is approved
tice and plat by the department of mines, to said pro	posed location, the	partment of mines, within said period of ten days from the receipt of

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

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN	FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:  NAME Bill W. Backus				
NAME FWA Drilling						
ADDRESS Box 448, Elkv			ADDRESS Box 1433, Charleston, W. Va.			
TELEPHONE 965-3379		TELEPHONE 342-3171				
ESTIMATED DEPTH OF COMPL	ETED WELL 4725		_ CABLE TOOLS			
PROPOSED GEOLOGICAL FORM	Oriskany	ItOIAItI <u>ZZZZ</u>	_ CADDE 100L5			
TYPE OF WELL	CAS XXX		SE DISPOSAL			
TIPE OF WELL. OIL_						
	RECYC	LING WATER FI	LOOD OTHER			
TENTATIVE CASING PROGRAM			ing a sea a se			
	<b>*•</b>					
CASING AND TUBING .	USED FOR	LEFT IN	CEMENT FILL UP			
SIZE	DRILLING	WELL	OR SACKS - CUBIC IT.			
20 - 16						
13 - 10						
9 - 5/8	200	200	100 Sax			
8 - 5/8						
7	2000	2000	75 Sax			
5 ½	p = 0					
4 1/2	4725	4725	150 Sax			
3			Perf. Top			
2			Perf. Bottom			
Liners			Perf. Top			
			Perf. Bottom			
TO DRILL:  SUBMIT FIVE (5) COPIES  OF PLAT.	OF OG - 1, \$100.00 PER	MIT FEE, PERFORMANCE	BOND AND PERMANENT COPY			
TO DRILL DEEPER OR REDRIL						
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING OR TO 1929, A PERMANENT	IGINAL PERMIT NUMBER A COPY OF THE PLAT AND	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD			
		ting the second of the second	A TOTAL CONTRACTOR OF THE STATE			
TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL O BOND, PERMANENT PLAT	RIGINALLY DRILLED BE	FORE JUNE 5, 1929, FIVE (5	) COPIES OG - 1, PERFORMANCE			
			929, FIVE COPIES OG - 1, SHOW-			
ING ORIGINAL PERMIT NU	MBER, AND PERFORMAN	CE BOND.				
Required forms must be file four (24) hours in advance.	d within ninety (90) days o	of completion for bond release	e. Inspector to be notified twenty-			
The following waiver must thereof.	be completed by the coal	operator if the permit is to b	e issued within ten days of receipt			
			ner or Operator of the coal under			
		maps this proposed well loc	<i>'</i>			
We the	Coal Compar	ny have no objections to said	well being drilled at this location,			
providing operator has	complied with all rules and	regulations in Articles 4, 5, an	d 7, Chapter 22 of the West Virginia			
Code.			endigine en degeneral			
			For Coal Company			

Official Title