

1)	Date:Nov	ember	17	, 1983
2)	Operator's Well No.	KEM #3	854	FÖRM IV-2
3)	API Well No.	47	107 1302	
		State	County	Permit

STA	ATE OF WES	ST VIRGIN	IIA	
DEPARTMENT	OF MINES,	OIL AND	GAS	DIVISION

				APPLI	CATION FOR A W	ELL WORK PERM	<u>IT</u>	
A) WELLTY	PE: A O	61 A A A A A A A A A A A A A A A A A A A	rady G	s X	VANNE AU SIN	ND CONTREPR	DIFICATIONS A	PERMIT MO
4) WELL II								_/ Shallow/)
5) LOCATIO	N· Fle	vation:	789	ELPINEA	Watershed:	Gilpen F	Run	
s, Locatic			Harris		County:		Quadrangle:	Lubeck
6) WELL OP							ED AGENT R. A.	Pryce
Address	s P. (	. Box	8		CONTRACTOR OF STREET	Address	1949	
	Rave	enswood	d, WV	26164	The state of the s		Same	
8) OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED		9) DRILLING		
Name	Jerry 7				Maria de la composición del composición de la composición de la composición del composición de la composición del composición de la composición del composic		Clint Hurt	
Address			x 101A	Market State of State	**************************************	Address	P. O. Box 388	
	Rip1	ey, W					Elkview, Whi	5(C) E 1 V   S   I
0) PROPOSE	D WELL	WORK:	Drill	Χ/ [	rill deeper	/ Redrill	/ Stimulate \	8
			Plug of	f old forma	tion/ Per	forate new formatio	on/	2501 1093
								DEC 1 - 1983
1) GEOLOG						The second secon	•	OIL & GAS DIVISION
				44		eet	C	A AINIE
						alt,	feet. DE	PT. of MINES
14) Appro					Is	coal being mined in the	he area? Yes	/ No/
5) CASING A	AND TUBI							
CASING OR TUBING TYPE	12 28.	SPEC	IFICATIONS Weight		FOOTAG	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New Used	For drilling	Left in well	(Cubic feet)	
onductor	10.010				050	050	150 1 1	Kinds
resh water	10 3/4			X	250	250	150 sks cla	ss a to surface
oal	7"		REPORT OF	v	1000	1000	CF -1 - F0/F	Sizes
termediate	#/			X	1800	1800	65 SKS 50/5	pozmix/100 sks Cla
roduction	4 1/2			X	4410	4410	225 sks 50/	<b>р</b> Фер <b>р⊙</b> ≅ <b>Т</b> Т Х
ubing					EMIO 360	3121110		
incis				and the same	The same of the sa	lates of certains o	n de broger bi dife	Perforations:
	20,000	2110111111	18111-1111-	WOHO! VIII	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J HERITOLIU SPIEL	3 4 18 M30351 V2 (110	Top Bottom
	L1 /T					ote .	A	
				t and the same of	el aucinalla I			Application received
					OFFICE USE	ONLY	Ba	
			3	- 1.	DRILLING P	ERMIT	No. of the second second	Weil work started
		47-107	-1302				Dece	ember 22, 1983
rmit number_		1. 10.	1002		TO ALL COLUMNS	M AND THE		e 11110 501 10 nod510000
	min a Aba assa	.11		1			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
irements subje	ct to the co	in operato	ontained l	location sno	the reverse hereof	Notification must be	ited to drill in accordance	ce with the pertinent legal re- and Gas Inspector, (Refer to
o. 8) Prior to t	he construc	tion of ros	ads, location	ons and pits	or any permitted wo	rk. In addition, the	well operator or his con	tractor shall notify the proper
strict oil and g	as inspector	24 hours	before ac	tual permitte	d work has commen	ced.)		113713331 12 (133 <b>)</b> 11 13 11
ne permitted w	ork is as de	scribed in	the Notice	and Applica	ation, plat, and recla	mation plan, subject	to any modifications ar	nd conditions specified on the
verse hereof.				ec. 22, 1	985			production and an arrangement
ermit expires _			U SECRET	001 22, 1	unless w	ell work is commence	ed prior to that date and	prosecuted with due diligence.
Г		12	1					OTHER INSPECTIONS
Bond:	Agent	P	lat:	Casing	Fee			trong and farming the
ET BUN	Ula	n	11	mil	965		-11	Keason:
A Marie Mari	12		141	///N	608	-		manage of mining to \$100.
			9.75				ministrator Office of C	Keason:
OTE: Keep o	ne copy of	this permi	t posted a	t the drilling	location.	Adn	ninistrator, Office of O	ii and Gas
				-0				File
File		See 1	he reverse	side of the	APPLICANT'S COI	PY for instructions to	the well operator.	

IV-9 (Pay 8-81)



DATE October 24, 1983
WELL NO. KEM #354

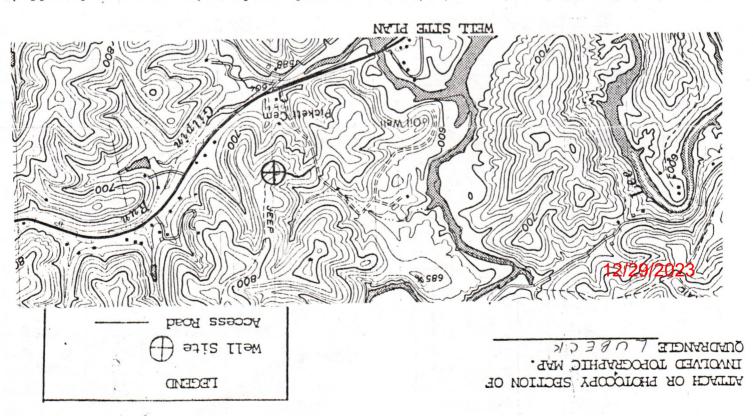
API NO. 47-107-1302

# State of Mest Nicyinia

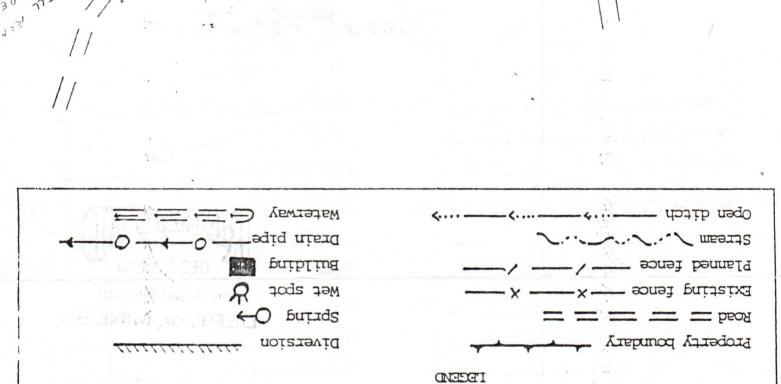
Department of Alines , Oil and Bas Division --

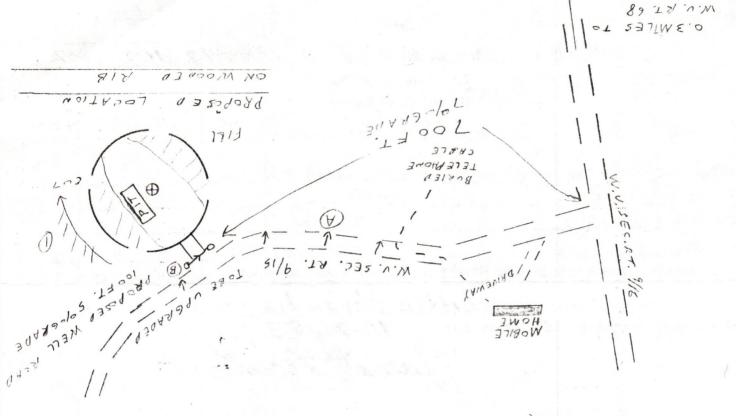
#### CONSTRUCTION AND RECLAMATION PLAN

OMPANY NAME Kaiser Exploration and M	<u>ini</u> ng CoP	ESIGNIED AGENT Same	
Address P. O. Box 8. Ravenswood.		64 Address	
Telephone 273-537]		Telephone	
LANDOWNER John A. Kroupa		SOIL CONS. DISTRICT Littl	e Kanawha
Revegetation to be carried out by K	aiser Exp		
This plan has been reviewed by	11/0	Kanaula con III	
and additions become a part of this plant	an:	1.24.92	corrections
	0	(Date)	,
	yar	rett Tlewton	
	0	(SCD Agent)	
ACCESS ROAD		LOCATION	
Structure Cross Drains	(A)	Structure Diversion Ditc	h (1)
Spacing . 80', 135'		Material Earthen	
Page Ref. Manual 2:4		Page Ref. Manual 2:12	
Structure Road Culvert	(B)	Structure	
Spacing 16" diameter		Material REGE	WEIN "
Page Ref. Manual 2:7	•	Page Ref. Manual DEC 1 -	1983
		OIL & GAS I	- The state of the
Structure	(C)	Structure DEPT. OF	MINITE (3
Spacing		Material	AVAII Vient
Page Ref. Manual		Page Ref. Manual	
All structures should be inspected commercial timber is to be cut and scut and removed from the site before	tacked and	all brush and small timber	All to be
R	EVEGETATIO	7	
Treatment Area I		Treatment Area I	T
Lime 4 Tons/acre	3	Lime Same as Area I	Tons/acre
or correct to pH  Fertilizer 14-14-14 600 lbs/acre		or correct to pH	
(10-20-20 or equivalent)		Fertilizer (10-20-20 or equ	lbs/acre
Mulch Hay 2 Tons/acre		Mulch	Tons/acre
Seed* 81% Orchard Grass/15% Ryabs/acre		Seed*	lbs/acre
Kentucky 31 Fescue 16 lbs/acre			lbs/acre
Red Clover 8 lbs/acre		-	lbs/acre
*Inoculate all legumes such as vatch, Inoculate with 3% recommended emount.	trefoil c	ma clovers with the proper	bacterium.
	ETAN PETE	ARED BY Vincent Wood	12/20/2023
HOTES: Please resucer landsumant			
scedling for one growing season.	. *	Dislam NV 2527	
Attach separate sheets as necessary for comments.	2010	Ripley, WV 2527	
,	FEC	NE NO. 372-2709	



setch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.





1) Date: November 17

2) Operator's

Well No. KEM #354

3) API Well No. 47-107-13 State \_ County

Permi

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

#### NOTICE OF APPLICATION FOR A WELL WORK PERMIT

SUI	RFACE OWN	ER(S) OF RECORD TO BE SERVED	5(i)	COAL OPERATOR None	
(i)	Name John	n A. Kroupa		Address	
. (-/		Rt. 1, Box 127A	700		
× .		Lubeck, WV	5(ii)	COAL OWNER(S) WITH DECLARATION ON REC	OF
(ii)	Name			NameNone	
- 2	Address	Total section		Address	
::1	\7-ma			Name	
11)	Name		Em	Address	
i	Address_			Eve Viviante	
	La de la con-		5(111)	COAL LESSEE WITH DECLARATION ON RECOR	.D.
			- (111)	••	U:
		and the second of the second o		Name None Address	
		projection of the second second		Auditess	
			•		
	-4	TO THE PERSON(S) NAMED ABOVE: You should	d have received the	us Form and the following documents:	
		(1) The Application for a Weil Work	Permit on Form IV-	-2(B) for Form TV-1 if the well is	
		to be plugged, which sets out t	he parties involve	d in the drilling or other work	
	Ž.	cementing program:	location and, if ar	pplicable, the proposed casing and	
		(2) The plat (surveyor's map) showi	ng the well location	on on Form IV-6; and	
	and the same of	(3) The Construction and Reclamatic	n Plan on Form TV-9	et vient est vient l'est ett eselent fe	
		plug a well), which sets out the reclamation for the site and ac	e plan for erosion	and sediment control and for	
37	top. Allest	THE REASON YOU RECEIVED THESE DOCTIM	ENTS IS THAT VOIL HE	AVE RIGHTS REGARDING THE APPLICATION	
		WHICH ARE SUMMARIZED IN THE "INSTRUCTION	S" ON THE REVERSE S	SIDE OF THE CODY OF THE ADDITION	
		(FORM IV-2(B) OR FORM 4, DESIGNATED FOR ACTION AT ALL.	YOU. HOWEVER, YOU	ARE NOT REQUIRED TO TAKE ANY	
4					
		Take notice that under Chapter 22 o erator proposes to file or has filed thi	f the West Virginia	a Code, the undersigned well op-	
		erator proposes to file or has filed thi for a Well Work Permit with the Administ	rator of the Office	e of Oil and Gas, West Virbials	
		Department of Mines, with respect to a w	ell at the location	n described on attached interception	
		and depicted on attached Form IV-6. Cop  Construction and Reclamation Plan have b	een mailed by regis	, the Application, the plan, and the stered or certified mail or selivered	
		Construction and Reclamation Plan have be by hand to the person(s) named above (or	by publication in	certain circumstances) on or DEC 1 - 1983	
	×***	before the day of mailing or delivery to	the Administrator.	DE0 1 1800	
		6) EXTRACTION RIGHTS		OIL & GAS DIVISION	
		Check and provide one of the following	<b>j:</b>		
		Included is the lease or leases or I hold the right to extract oil	other continuing co	contract or contracts by DEPT. OF MINES	
		The requirement of Code 22-4-1-(c)	or gas. (1) through (4). (Se	see reverse side for specifics \	
		7) ROYALTY PROVISIONS	.,		
		Is the right to extract, produce or ma	rket the nil or ma	to based man a large	
4-1	1.00	of other contract of contracts provide	no tor fire inil w	ensem I have now a service of 1	
		tor dailerisaction to the owner or the or	or dae in place t	thich is not inhamently and	
		to the volume of oil or gas so extract	ea, produced or man	rketed? Yes (No	
		If the answer above is No, not	hing additional is	needed. If the answer is Yes,	

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan. The truth of the information on the WELL Notice and Application is verified and sworm to and the Notice is

1993

signed on behalf of the Well Operator in my County and State by R. A. Pryce this 29 day of Movember 19 83

My commission expires 8/30

Notary Public, Jackson State of West Virginia OPERATOR Kaiser Exploration and Mining Company

By	1.1-	
	eral Manager	
Address P.	. O. Box 8	
Ra	avenswood, WV	26164
Telephone	304 273 5371	

(III 'III)

## INSTRUCTIONS TO APPLICANT

corporation that proposes to or does operate a coal mine.

CONCERNING THE LINE ITEMS:

Harvey Wigal

Ansel Dailey

the oil or gas are as follows:

Construction and Reclamation Plan;

Your well name and number. (2

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

See Code § § 22-4-11(d, e).

provided below.

See Code 5 22-4-20.

."abnal daus ni

Surface owner(s) of record to be served with Notice and Application. However, Use separate sheet if necessary.

(S 3 (t

To be filled out by the Office of Oil & Gas.

I) Date of Notice.

178/345

6t/I9/

field price

I/8 of prevailing

ROVALLY BOOK Page

and Mining Company

Kaiser Exploration

contract(s) by which the Applicant claims the right to extract, produce or market (2) the parties and recordation data (if recorded) for lease(s) or other continuing

applies, partly or wholly depicted in the accompanying plat, and described in the (1) the tract of land is the same tract described in the Application to which this Notice I depose and say that I am the person who signed the Notice for the Applicant, and that-Under the oath required to make the verification on the obverse side of this Notice,

IN TIED OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S) INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b. Service. In addition, service must be made on the surface owner(s) and the person(s)

and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-1k(d) and the reclamation required by Code § 23-4-1k(d) and the reclamation required by Code § 22-4-1k(d) and the reclamation required by Code § 2 panied by (i) a plat in the form prescribed by Regulation II, (ii) a bond in one of copies of the Motice and Application must be filed with the Administrator, accom-Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required

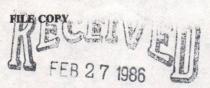
tinuing contract(s), the Applicant may fill out the information in the space see Code § 22-4-11(c). However, in lieu of filing the lease(s) or other con-

"Coal Operator" means any person, firm, partnership, partnership association or

co-conners of interest described in subsection (a) of this section hold interests see also Code § 22-4-lb(b) if "more than three tenants in common or other

owner of any water well on dwelling within 200 feet of the proposed well.

Grantor, lessor, etc. Grantee, lessee, etc.





1) Date: January 31 , 19 86

2) Operator's KEM #354, Wigal

3) API Well No. 47 107 1302 Frac
State County Permit

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

				APPLIC	ATION F	OR A WELL	WORK PERM	BILICATIONS T	PERMIT ME
4) WELL TY	PE: A C	oil	/ Ga	as X	/				
			Production		/ U	nderground sto	orage	/ Deep	_/ ShallowX/)
5) LOCATIO	N: Ele	evation:	789		W	atershed:	Gilpen Ru	ın	
	Di	Kaliser	darris	200	ond C	ounty: W	boo	Quadrangle:	Lubeck 449
6) WELL OP	ERATOR	Min	ind Cor	partion co	35E: 2	5550 7	) DESIGNATI	ED AGENT R. A	. Pryce
Address		. O. E					Address	Same	
				VV 26164		-			
8) OIL & GA				FIED		9		CONTRACTOR:	
	Glenn R			17	F + 1	-			
Address				leasant WV 261		€S	Address		
							( D-d-:11	/ Ori - 1	
10) PROPOSE	ED WELL	WORK:		f old format			e new formation	Stimulate	
									a & Brown Shale
11) GEOLOGI	ICAI TAR	GET FOR				specify)	ag of Isko		roduce commingled
12) Estima						feet			oduce committing red
13) Appro				NI/A		feet; salt,_	N/A	feet.	
14) Appro						Is coal	being mined in t	he area? Yes	/ NoX/
15) CASING	AND TUB	NG PRO	GRAM						
CASING OR		SPEC	CIFICATIONS	S	1	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New Used	Fe	or drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water	10 3/	4 Mill		X		264'	264'	175 sks cla	ss A
Coal	100	Rejec	t						Sizes
Intermediate	7"	J-55	20	X	1 1	8251	1825'	275 sks	-
Production	4 1/	2 J-55	10.5	X	4	410'	4410'	250 sks poz	Penths set
Tubing	V 115	110 60	D1273 CB3	DO TEST		egg, isb-	ia bio es	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
Liners								19 4.0110	Perforations:  Top 4335 Bottom 4340
							2000 Sept. 1		Top 4333 Bottom 4340
1679									753 KK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
						na -			A Million of the San
					OFFI	CE USE O	NLY		Sweek Securitation
					DRIL	LING PER	MIT		
	47	107 1	1200 1	7-20				N	larch   7 19 86
Permit number_	4/-	107-	1302-1	rac	T St.			Da	
This permit cove	ering the w	ell operato	or and wel	l location sho	wn below	is evidence of	permission gran	ated to drill in accordar	ace with the pertinent legal re-
quirements subje	ect to the c	onditions	contained	herein and on	the revers	e hereof Notif	ication must be	given to the District Oil	and Gas Inspector, (Refer to itractor shall notify the proper
No. 8) Prior to the	e construct	tion of roa	ds, locations before a	ons and pits for	r any peri	nitted work.	In addition, the	well operator or his cor	stractor shall notify the proper
									and conditions specified on the
reverse hereof.	OFK IS AS U	escribed in	THE NOUC	e and Applica	tion, plat,	and reciainat	ion pian, subjec	to any mounications a	ind conditions specified on the
Permit expires	Mar	ch/7	1988	3		_unless well w	ork is commenc	ed prior to that date and	prosecuted with due diligence.
Bond:	Agent		lat:	Casing	Fee	WPCP	S&E	Other	
Bolld.	Agent		1	N/C		FRAC	K	Other	
	70	1	751	1)	16933	TANK	IN	1	Acason C
							7/	161/	//
NOTE: Keep o	ne conv of	this nerm	it posted	at the drilling	location	5	m	2000	1
Reep C	ne copy of	ins perm	in posted a	at the drining	. Journal .	Di	ector Di	vision of Oil	and Gas
		See	the reverse	e side of the	PPLICA	NT'S C	or instructions	o the well operator.	1212312020

#### OFFICE USE ONLY

#### PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

#### OFFICE USE ONLY

This part of Form WW-2(B) is to record the dates of certain occurrences and any follow-up inspections.

Application received

Follow-up inspection(s)

Well work started

Completion of the drilling process

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason:

Reason:

FORM WW-2(B) COAL OWNER'S COPY (Obverse) 7/85

4) WELL TYPE: A Oil \_\_\_\_\_/ Gas \_\_\_\_/



1)	Date:	Jan	uary	31	
2)	Operator' Well No.	s K	EM #	354, Wigal	
3)	API Well	No.	47	107	1302
			State	County	Permit

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

#### APPLICATION FOR A WELL WORK PERMIT

		B (1	f "Gas", 1	Production	n		_/ Underground		/ Deep	/ Shallow X /)	
5)	LOCATION	N: Ele	vation:	789			_ Watershed: _	Gilgen Run			
		Dis	tricts	arris	wati	00 200	County:	ood	Quadrangle:	ubeck	
6)	WELL OPERATOR 7) DESIGNATED AGENT R. A. Pryce										
	Address Same										
	Ravenswood, WV 26164										
8)	OIL & GAS	SINSPEC	TOR TO	BE NOTI	FIED			9) DRILLING CO	ONTRACTOR:		
	Name G							Name			
	Address	134		Mt. P	leas	ant Es	tates	Address			
	71001033		THE RESERVE OF THE PERSON OF T		WV	26150					
10:	PROPOSE					/ D-:U		/ D-4-111	/ 6::- 1		
10)	PROPOSE	D WELL	WORK:			_/ Drill		ate new formation.	/ Stimulate		
										9 Prous Shall	
						change ir	n well (specify)	ing or iskany		& Brown Shale	
	GEOLOGI				,				pro	duce commingled	
	12) Estima				NZ		feet	MIA			
	13) Approx	ximate trat	a depths:	Fresh, _	14/1	A .	feet; salt	N/A	feet.		
	14) Approx	ximate coa	l seam dep	ths:	N//	4	ls co.	al being mined in the	area? Yes	/ No_X/	
15)	CASING A	ND TUBI	NG PROC	GRAM							
CAS	SING OR		SPEC	IFICATION!	S	11	FOOTAGE I	NTERVALS	CEMENT FILLUP	PACKERS	
TUI	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Cond	water	J.								Kinds	
		10 3/4	Mill	45.5	X		264'	264	175 sks clas		
	water		Reject					4.07	TIO SKS CIOS		
Coal		Z11	J-55	20	χ		1005:	10051	275 sks	Sizes	
	mediate	4 1/2	J-55	10.5	Y		1825' 4410'	1825' 4410'			
	uction	1 46/ 5	4-00	40.0	A		4410	4410.	250 sks pozm	Depths set	
Tubir	ng										
Liner	5									Perforations:	
										Top Bottom	
				70:0	TRICO	TIONS T	O COAL OREDAT	OD OUVED OD	1 DOOR D	And the second s	
	T that *a	he nam	ed coa	al open	cator	, coa.	1 owner(s),	or, owner, or and coal le required to	ssee are herel	oy notified 22B-1-15,16,or	
	17 mus	st be f	iled w	vith th	ne De	partm	ent of Energ	y within fi	fteen (15) day	ys after the	
							e Department				
									operator and l	av any coal	
									r Code 22B-1-		
	permit	i is to	be is	ssued v	ATULI	n III	WAIVER	lys of the f.	iling of the	Applicacion.	
T	ne undersigne	ed coal ope	erator			_/ owner		/lessee	/ of the co	al under this well location has	
										added to the mine map. The	
	West Virginia						it this location, prov	ided, the well opera	for has complied with	all applicable requirements of	
tile '	A COL A 11 RIII!	a Code and					ren A i	14			
			The state of the s	(5)	1	1 1 2 2	TANK	LD			
			Non		and and			27	11 1		
Date				, 1	9		I	By	Alexander .		
							1	ts		12/29/2023	
						i de la companya de l		A LONG THE RESERVE TO SERVE THE		Coal Owner	

FORM	WW-2A
Obver	se

1) Date: January 31 , 1986
Operator's 2) Well No. KEM #354, Wigal
3) API Well No. 47 - 107 - 1302 F
State County Permit

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY. DIVISION OF

SUR	FACE OWNER(S) OF RECORD TO	OF APPLICATION FOR		
	or Macond 10	BE SERVED 5 (1	) COAL O	PERATOR None
(i)	Name_ John A. Kroupa		Addres	8
,-,	Address Dt 1 D 110			
	Address Rt. 1, Box 140	5 (ii	) COAL O	WNER(S) WITH DECLARATION ON RECORD
1	Belleville, WV	26133	Name	None None
(ii)	Name			None
	Address		Addres	S
	10 (0) 00000000000000000		300000000000000000000000000000000000000	
(iii)	Name		Name	
	Address		Address	S
	SORRE THE CONTRACTOR	indesing indesing		
	A Particular State of the State	5 (iii)	COAL LI	ESSEE WITH DECLARATION ON RECORD:
			Name	None
		P 529 478	0.5	None
	TO THE PERSON(S) NAM	RECEIPT FOR CERTIF	ED MAIL	
	20 INL PERSON(S) NAM	NO INSURANCE COVERAGE	PROVIDED	he following documents:
	(1) The Applic	NOT FOR INTERNATIONAL	MAIL	
	involved i	(See Reverse)		sets out the parties 1 and its location
	(2) The plat (			1;
	(3) The Constr	Sent to-		W-6, and
	to plug a reclamatio	John H. Ka	Dupa	e well work is only sent control and for
	101100110111	Street and No.		
	THE REASON YOU WHICH ARE SUMMARIZED	K+1 BOX 140		GARDING THE APPLICATION
	WW-2(B) DESIGNATED F	1 Clate and ZIF COOR		COPY OF THE APPLICATION
	Q	Delleville, W/V	76133	ACTION AT ALL.
	Take notice tha erator proposes to f	Postage	\$	undersigned well op-
	for a Well Work Perm	Certified Fee	-	accompanying documents \$ 9
	well at the location	Certified Fee		s, with respect to a make attached Form WW-6. ZO
	Copies of this Notic have been mailed by	Special Delivery Fee	+	CGARDING THE APPLICATION  COPY OF THE APPLICATION  ACTION AT ALL.  Undersigned well op- accompanying documents  s, with respect to a attached Form WW-6.  and Reclamation Plan
	above (or by publica	opecial belivery Fee		1) to the person(e) named (
	to the Director of t	Restricted Delivery Fee	+	y of mailing or delivery 7 6 8 8 8
	6) EXTRACTION RIGHT			E & 06
		Return Receipt Showing to whom and Date Delivered	1	& GAS ENERG
	Check and provid			GAS AS
	hold the	Return receipt showing to whom,		or contracts by which I
	The requirer	Date, and Address of Delivery		Company of the contraction of th
	7) ROYALTY PROVISI	TOTAL Postage and Fees	\$	rse side for specifics.)
	Is the right to	Postmark or Date		C
	or other contrac	/c	\	pon a lease or leases
	for compensation	1	3,	any similar provision not inherently related
	to the volume o		5 I I	Yes (No)
	If the ani		1	
	you may use Aff	1080		f the answer is Yes,
	See the reverse sid	e for line item instructions,	and for the	
	the required copies	of the Notice and Application	n, plat, and	Construction and
	Reclamation Plan.			TOTAL WILL

and A li	Notice
and Application is verified and swor	n + 1
the Notice is signed on behalf of th	e Well
Operator in my County and State by	c well
R. A. Pryce	
this 21 days of 7	1986

My commission expires 8/30	, 19 <u>86</u> , 19 <u>86</u> .
Notary Public, Jackson State of West Virginia	County,

12. A. P _	
Its General Manager	
Address P. O. Box 8	0
Ravenswood, WV 26164	
Telephone 304-273-5371	4.00
arrais a configuration lapid yevre	12/29/2023

## $\underline{I} \ \underline{N} \ \underline{S} \ \underline{T} \ \underline{R} \ \underline{U} \ \underline{C} \ \underline{T} \ \underline{I} \ \underline{O} \ \underline{N} \ \underline{S} \quad \underline{T} \ \underline{O} \quad \underline{A} \ \underline{P} \ \underline{P} \ \underline{L} \ \underline{I} \ \underline{C} \ \underline{A} \ \underline{N} \ \underline{T}$

#### CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Division of Oil & gas.
- 4) & 5) Use separate sheet if necessary.
  - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code §22B-1-9(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
  - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iiii) See Code §22B-1-36.
  - 6) See Code §22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
  - 7) See Code § § 22-4-11 (d, e).

#### CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code §22B-1-6 and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22B-1-9, 22-B-1-13 and 22B-1-14.

INFORMATION SUPPLIED UNDER CODE \$22B-1-8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

#### SURFACE OWNER'S COPY



1)	Date: NOV	ember 17		, 1933
2)	Operator's Well No	KEM #354		
3)	API Well No.	47		
-,		State	County	Permit

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

5) LOCATION	J. Fle	vation: _	789			Underground	Gilpen R	Deep A	_/ Shallow/)
<i>5</i> , 200,1110.			arris					Quadrangle:	Lubeck
6) WELL OPE	RATOR	iser	Explor	atio	n and	Mining Co.	7) DESIGNATI	ED AGENT R. A.	Pryce
Address	P. O.	Box	8				Address		
	Raver	swood	. WV	2616	4	<u> </u>		Same	
8) OIL & GAS	INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING	CONTRACTOR:	and the second of the second o
Name	rry Te	phabo	ck				NameC	lint Hurt	
Address	200	, Box					Address	P. O. Box 388	
	Ripla	y. WY	252	71				Elkview, HV	DIC CIETAVIC
10) PROPOSED	WELL V	VORK:	Drill_X	1000	_/ Drill	deeper	/ Redrill	/ Stimulate	The same of
			Plug of	f old f	formation		rate new formatio		700
									DEC 1 - 1983
II) GEOLOGIC	AL TAR	GET FOR	MATION,	_0	riska	ny			
						ny feet	:		OIL & GAS DIVISIO
12) Estimate 13) Approxi	ed depth o imate trata	f complete depths:	ed well, _ Fresh, _		4410	feet; sal	t,		
12) Estimate 13) Approxi	ed depth o imate trata	f complete depths:	ed well, _ Fresh, _		4410	feet; sal	t,		OIL & GAS DIVISIO
12) Estimate 13) Approxi	ed depth o imate trata imate coal	f complete depths: seam dept	ed well, _ Fresh,		4410	feet; sal	t,		DEPT. of MIN
12) Estimate 13) Approxi 14) Approxi 15) CASING AN	ed depth o imate trata imate coal	f complete depths: seam depth NG PROC	Fresh, chs: GRAM		4410	feet; sal	t,	he area? Yes	DEPT. of MIN
12) Estimate 13) Approxi 14) Approxi 15) CASING AN	ed depth o imate trata imate coal	f complete depths: seam depth NG PROC	Fresh,		4410	feet; sal	t,oal being mined in th	he area? Yes	DEPT. of MIN
12) Estimate 13) Approxi 14) Approxi 15) CASING AN	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,		4410	feet; salIs co	t,	CEMENT FILL-UP OR SACKS	DEPT. OF MIN
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,		4410	feet; salIs co	t,	CEMENT FILL-UP OR SACKS (Cubic feet)	DEPT. OF MIN
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New	4410	feet; salIs co FOOTAGE For drilling	t,	CEMENT FILL-UP OR SACKS (Cubic feet)	DEPT. OF MIN No PACKERS Kinds
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New X	4410	feet; salIs co FOOTAGE For drilling	t,	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	DEPT. OF MIN No PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New	4410	feet; sal Is co FOOTAGE For drilling	t,	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	DEPT. OF MIN No PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New X	4410	feet; sal Is co FOOTAGE For drilling 250	t, Dal being mined in the Intervals  Left in well  250	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	DEPT. OF MIN No PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New X	4410	feet; sal Is co FOOTAGE For drilling 250	t, Dal being mined in the Intervals  Left in well  250	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	DEPT. OF MIN No PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New X	4410	feet; sal Is co FOOTAGE For drilling 250	t, Dal being mined in the Intervals  Left in well  250	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla
12) Estimate 13) Approxi 14) Approxi 15) CASING AN CASING OR TUBING TYPE  Conductor Fresh water Coal Intermediate Production Tubing	ed depth o imate trata imate coal ND TUBIN	f complete depths: seam depth NG PROC	Fresh,	New X	4410	feet; sal Is co FOOTAGE For drilling 250	t, Dal being mined in the Intervals  Left in well  250	CEMENT FILLUP OR SACKS (Cubic feet)  150 sks clas	PACKERS  Kinds S a to surface Sizes DOZMIX/100 SKS Cla

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

#### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)	(For execution by natural persons)	
NAME:	John a. France	Date: 11/21/83
Ву	(Signature)	11-21-83
ItsDate	(Signature)	Date:

#### AFFIDAVIT OF PERSONAL SERVICE ON SURFACE

D	CEIVE	M
CHOW	AR S	
Local based	DEC 1 - 1983	CHES CO.

	DEC 1 - 1983
COUNTY OF Jackson Wood:	OIL & GAS DIVISION
The undersigned, being first duly sworn, says that true and complete copy of all sides of—  (1) Notice on Form IV-2(A) X / Form IV-3(A)  (2) Application on Form IV-2(B) X / Form IV-3(B)  (3) Plat showing the well location on Form IV-6,  (4) Construction and Reclamation Plan on Form IV  is to plug a well) all with respect to operator's Well No. X: 354  Harris  District, Wood  upon the person or organization named	/ Form IV-4(A) / Form IV-4(B) / and
John A. Kroupa and F.A. Kroupa	
by delivering the same in /wood County, on the 21 day of wow , 1983 in the mann	State of <u>W.Va.</u> ner specified below.
- [COMPLETE THE APPROPRIATE SECTION]	
For an individual:  [ Handing it to him × / her × / or, because take it when I offered it, by leaving it in	e he / she / refused to h his / her / presence.
[ ] Handing it to a member of his or her family named of abode of the person to be served, and as it to the person to be served as soon as possible.	who resides at the usual place sking the family member to giv
For a partnership:  [ ] Handing it to  partnership or, because the partner refused over, by leaving it in the presence of the	, a partner of the to take it when I handed it partner.
For a limited partnership:  [ ] Handing it to the general partner, named because the general partner refused to take over, by leaving it in the presence of the	, or, e it when I tried to hand it general partner.
For a corporation:  [ ] Handing it to the corporation's employee attorney in fact / named	_/ office <u>r /</u> directo <u>r</u>
Willan (Signatur	re of person executing service
Taken, subscribed and sworn before me this ZZ of My commission expires Oct 28, 1983	•
Stephen W	Notary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)	

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)



# STATE OF WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION CHARLESTON 25305

Theodore M. Streit, Administrator Department of Mines Office of Oil and Gas

RE	: APPLICATION FOR PERMIT #47-107 -1302 TO DRILL DEEP WELL
CO	MPANY: Kaiser Exploration and Mining Co.
FA	RM: John A. Kroupa
CO	UNTY: Wood DISTRICT: Harris
The ap	plication of the above company is approved
	(APPROVED - DISAPPROVED)
Applic	ant has complied with the provisions of Chapter twenty-two,
four-A	(§22-4A), of the Code of West Virginia, nineteen hundred and thirty-one, as amended, Oil and Gas Conservation Commission, as follows:
1.	Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners;
2.	Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and,
3.	Provided a plat showing that the proposed location is a distance of 466 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3,000 feet of the proposed location:  107-1221 - 3150'  107-1231 - 4400' Very truly yours,
	107-0433P- 2550' 107-0429P- 3900' 107-0424P- 4300' Brett Loflin Petroleum Engineer



OIL & GAS DIVISION DEPT. OF MINES



## State of Mest Wirginia

Department of Mines Gil und Gas Division

Date 12/10/84	
Operator's Well No. KEM #354	
Farm Wigal	
APT No. 47 - 107 - 1302	

(Continue on reverse side)

WELL OPERATOR'S REPORT OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Control of the Contro	ilpen Run				
District: Harris County Woo	od	Quadrangl	e Lubeci	k	
COMPANY Kaiser Exploration and Mining Company					
ADDRESS P. O. Box 8 Ravenswood, WV 26164	Casing	Used in	Left	Cement	
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling		fill up Cu. ft.	
ADDRESS Same	Size		DI WELL	Cu. Ic.	
SURFACE OWNER John A. Kroupa	20-16 Cond.				
ADDRESS	10344"		264	175 sks cla	66 7
MINERAL RIGHTS OWNER Harvey Wigal	9 5/8	1	204	173 385 C16	155 /
ADDRESS	8 5/8				
OIL AND GAS INSPECTOR FOR THIS WORK Glen Rt. 1 #6 Mt. Pleasant			1005	175 sks 50,	
ADDRESS Estate, Mineralwells, WV	5 1/2		1825	100 sks cl	ass A
12/22/03	4 1/2				
DRILLING COMMENCED 10/18/84	3		4410	250 sks 50	/50 g
DRILLING COMPLETED 10/23/84	. 2		- Talket Menus and a second of the last of		
IF APPLICABLE PLUGGING OF DRY HOLE ON		-			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used				
ON	useu				
GEOLOGICAL TARGET FORMATION Oriskany Sandstone		Dont	h /225_/	240	
Donth of	Rotary x	Dept	Charles and the same of the sa		
Water strata depth: Fresh N/A feet;			1001s		
Coal seam depths: N/A	-				
OPEN FLOW DATA	Is coal	being mine Orilled on	<b>d in the</b> fluid not	area? NO known.	
Producing formation	D	zone depti	h 4335-43	40 feet	
Producing formation oriskany Sandstone			THE RESERVE AND PERSONS NAMED IN		
Gas: Initial open flow Mcf/d		tial open :	THE RESERVE AND PERSONS NAMED IN	Bb1/d	
Gas: Initial open flow Mcf/d Final open flow 300 Mcf/d	Oil: Init	tial open :	flow	Ph1 /d	
Gas: Initial open flow Mcf/d  Final open flow 300 Mcf/d  Time of open flow between init	Oil: Init	tial open : al open flo	flow	Bb1/d	*
Gas: Initial open flow Mcf/d  Final open flow 300 Mcf/d  Time of open flow between init:  Static rock pressure 1500 psig(surface	Oil: Init	tial open : al open flo	flow	Bb1/d	<b>X</b>
Gas: Initial open flow Mcf/d  Final open flow 300 Mcf/d  Time of open flow between init  Static rock pressure 1500 psig(surface)  (If applicable due to multiple completion-	Oil: Init	tial open : al open flo	Flow  OW  4 hour  48 hour	Bbl/d Ars s shut in	VA GOOD
Gas: Initial open flow Mcf/d  Final open flow 300 Mcf/d  Time of open flow between init:  Static rock pressure 1500 psig(surface (If applicable due to multiple completion- Second producing formation	Oil: Init	tial open : al open flo	Flow  OW  4 hour  48 hour	Bb1/d	
Gas: Initial open flow Mcf/d  Final open flow 300 Mcf/d  Time of open flow between init:  Static rock pressure 1500 psig(surface (If applicable due to multiple completion- Second producing formation  Gas: Initial coar flow	Oil: Init  Fina  ial and fir  e measureme )  Pay  Oil: Init	tial open floral tests_ent) after zone depth	Flow  W  4 hour  48 hour	Bbl/d ers s shut in 12/29/2023	

#### DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

PHID THE PER

10/31/84 Young Wireline perf Oriskany Sandstone from 4335' to 4340'. 11/02/84 BJ Hughes 75% foam frac Oriskany Sandstone with #30,000 of 20/40 sand, 400,000 scf  $N_2$ , 209 bbl fluid, ISIP-1670 psig.

#### WELL LOC

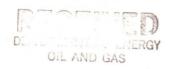
	1		REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all frest and salt water, coal, oil and ga
Soil and Shale	0	200	
Sand	200	250	
Shale and Siltstone	250	546	
Sand	546	2620	
Shale and Siltstone	620	990	
Dunkard Sands	990	1208	
Shale	1208	1386	
Sand	1386	1450	
Shale	1450	1577	
Salt Sands	1577	1700	
Shale	1700	2036	
Coffee Shale	2036	2057	
Berea Sand	2057	2060	S/G
Shale	2060	3204	3/4
Brown Shale	3204	3701	S/G @ 3685
Shale	3701	4034	S/G @ 3003
Marcellus Shale	4034	4204	G /G
그림 사람들이 아이들 때문에 가는 그렇지 않는 사람들이 되었다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면 살아 없었다면 살아 없다면 살아 싶다면 살아요니다면 살	The second secon	4324	S/G
Onondaga Limestone	4204		G /G
Oriskany Sandstone	4324	4370	s/G
Helderberg Limestone	4370	4448	
Total Depth	4448	No. of Alm	
		MARKET BETTER	
		AD LOUGHE	
		THE LANGE F	
Mail Page 1			
	1 1, 4		
		The same of the sa	
State of the State	1 126.1	The second second	
the court of having order to			
	300 - 300 - 400 - 300 - 300	A CONTRACTOR OF THE STREET	
			발문됐다. 그 사람 강생이 꼭 살게 되었다.
dayon ones yer.			

(Attach separate sheets as necessary)

Kais	er E	xplorat	cion and	d Mining	Company
We	11 0	perato			
Ву:	R	1	P_		12/29/2023
Date:	12/	10/84			

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 and, encountered in the drilling of a well."



IV-35 (Rev 8-81)

MAY 2 9 1986



## State of Mest Wirginia

Department of Mines Gil and Gas Division

Date	May	22,	1986	4	
Opera Well	tor's	3		4	
Farm	Wig	al			
ADT M	<b>1</b> 7		107	_ 1	302 -

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

LOCATION: Elevation: 789 Watershed_	Gilpen R	un	A STATE OF THE STA	and the second second second
District: Harris County			<b>e</b> Lube	ck
COMPANY Kaiser Exploration and Mining Company				
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Casing	Used in	Left	Cement
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling		fill up
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Size	DITTILING	Tu well	Cu. ft.
SURFACE OWNER John A. Kroupa	20-16			
ADDRESS Rt. 1, Box 127A, Lubeck, WV	Cond.	-		
MINERAL RIGHTS OWNER Harvey Wigal	13-370"	263	263	175 sks c
ADDRESS Rt. 1, Box 134, Belleville, WV	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Glenn	8 5/8	1005	1005	175 50/50
Robinson ADDRESS Mineral Wells, WV	7	1825	1825	100 sks c
PERMIT ISSUED	5 1/2			
DRILLING COMMENCED 10/17/84	4 1/2	4409	4409	250 sks 5
DRILLING COMPLETED 10/23/84	3	-		POZIIITA
F APPLICABLE: PLUGGING OF DRY HOLE ON	. 2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
				210 E1
POLOGICAL TARGET FORMATION Oriskany	Peters	Dept	<b>h</b> 4335-43	340 <b>feet</b>
Depth of completed well 4448 feet	Rotary X	/ Cable	Tools	
Depth of completed well 4448 feet Water strata depth: Fresh feet;	Rotary X	/ Cable	Tools_ Drilled	on fluid,
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:	Rotary X	/ Cable	Tools_ Drilled	on fluid,
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:	Rotary X Salt Is coal	/ Cable feet being mine	Drilled in the	on fluid,
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  DPEN FLOW DATA  Producing formation Brown Shale	Rotary X Salt Is coal Pay	/ Cablefeet being mine zone dept	Drilled in the	on fluid, lown X  -3699' feet
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale	Rotary X Salt Is coal Pay	/ Cablefeet being mine zone dept	Drilled in the	on fluid, lown X  -3699' feet
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d	Rotary X Salt Is coal Pay Oil: Ini	/ Cablefeet being mine zone dept tial open	Drilled in the h 3514'-	on fluid, lown  Area? X  -3699' feet
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d	Rotary X Salt_ Is coal Pay Oil: Ini Fin	/ Cablefeet being mine zone dept tial open al open fl	Drilled in the h 3514'-	on fluid, area? X  -3699' feet - Bbl/d
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init	Rotary X Salt_ Is coal Pay Oil: Ini Fin	/ Cablefeet being mine zone dept tial open al open fl	Drilled of in the character of the chara	on fluid, area? X  -3699' feet - Bbl/d Bbl/d
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init  Static rock pressure 800* psig(surface)	Rotary X Salt	/ Cablefeet being mine zone dept tial open al open fl	Drilled of in the h 3514'-  flow  hour 120 hour	on fluid, on fluid, on fluid, on fluid, Ebl/d Bbl/d ons rs shut in
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init Static rock pressure 800* psig(surface) (If applicable due to multiple completion)	Rotary X Salt	/ Cablefeet being mine zone dept tial open al open fl nal tests_ ent) after	Drilled in the h 3514'- flow how 12/29	on fluid, owner: X  -3699' feet - Bbl/c Bbl/c ars rs shut in
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init Static rock pressure 800* psig(surface) (If applicable due to multiple completion) Second producing formation Berea Sand	Rotary X Salt	/ Cablefeet being mine  zone dept tial open al open fl nal tests_ ent) after  zone dept	prilled in the hand in the han	on fluid, area? X  -3699' feet  - Bbl/c  Bbl/c  rs shut in /2023
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  PEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init Static rock pressure 800* psig(surfact (If applicable due to multiple completion Second producing formation Berea Sand Gas: Initial open flow Mcf/d	Rotary X Salt	/ Cablefeet being mine  zone dept tial open al open fl nal tests_ ent) after  zone dept tial open	prilled in the state of the sta	on fluid, area? X  -3699' feet  - Bbl/d  Bbl/d  rs shut in  /2023  2060' feet
Depth of completed well 4448 feet Water strata depth: Fresh feet; Coal seam depths:  DPEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow Mcf/d  Final open flow 200* Mcf/d  Time of open flow between init Static rock pressure 800* psig(surface) (If applicable due to multiple completion) Second producing formation Berea Sand	Rotary X Salt	/ Cablefeet being mine  zone dept tial open al open fl nal tests_ ent) after  zone dept tial open al open fl	prilled in the din the	on fluid,  area? X  -3699' feet  - Bbl/d  Bbl/d  rs shut in  /2023  2060' feet  - Bbl/d  - Bbl/d

#### DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

5/01/86 McCullough perforated the shale from 3514'-3699' with 19 shots.

5/06/86 Halliburton 75 quality foam fractured with 60,000# of 20/40 sand, 760,000 SCF nitrogen and 264 bbl fluid at average pressure of 2750 psig.

5/06/86 McCullough perforated the Berea from 2056'-2060' with 16 shots.

5/06/86 Halliburton 75 quality foam fractured with 60,000# of 20/40 sand, 765,000 SCF of nitrogen, and 263 bbl fluid at average pressure of 2000 psig.

#### WELL LOG

ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
See original OG-10			
	12302		
			n de la companya de l
			N. i.a.
		2,0	
			AND STALL OF STALL
			4/4
		7, 142, 1516	

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPA	ANY
Well Operator	
- DA Pa	12/29/2023
By: KAIMCE	
Date: May 22, 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 and, encountered in the drilling of a well."

# DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

# INSPECTOR'S WELL REPORTDEPT. OF MINES

Permit h	No.	47	-1	07	-1	30	2
Permit h	No.	4/	-1	07	-1	20	4

Oil or Gas Well OIL&GAS

Company KAISER EXPLORATION & MINING CO	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
P.O. BOX 8  RAVAENSWOOD, WV 26164	Size				
FarmKROUPA/WIGAL	16			Kind of Pack	cer
Well No. KEM#354	13			Size of	
DistrictWOOD	81/4				
Drilling commenced 10/15/84(LOCATION MADE)	6%			Depth set	
Drilling completedTotal depth	3		7 )	Perf. top	
Date shotDepth of shot	2			Perf. bottom	
Initial open flow/10ths Water inInch	Liners Used			Perf. top Perf. bottom	
Open flow after tubing/10ths Merc. inInch				7	
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure lbs, hrs.	NAME OF SEF	RVICE COMPA	ANY		
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES
Fresh waterfeetfeet	FEET_	INCI	HES	FEET	INCHES
Salt waterfeetfeet	FEET	INCI	HES	_FEET	INCHES

Remarks: CHECKED THIS LOCATION AFTER RECEIVING CALL THAT LOCATION AND POT WAS BEING MADE; LOCATION AND PIT LOCKS GOOD.

TALKED BRIEFLY WITH LANDOWNERS, MR. AND MRS. KROUPA.

15 OCTOBER 1984

Drillers' Names.

DLEN P. ROBINSON

DISTRICT WELL INSPECTOR

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

## **INSPECTOR'S PLUGGING REPORT**

OMPANY			ADDRESS	.302	57-207-3	ase ex
ARM		DISTRICT _	C	OUNTY	er project de de la companya de la c	and the second
		iding the	SERVICE OD PRIMING S	MELONATION	MISUR	YEGAN
illing Material Used				7 7 700	<u>*************************************</u>	
iner Loc	cation	Amour	nt Packer	Loc	cation	
	ND DEPTH PLACED		BRIDGES	CASIN	G AND TUE	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			COOW		HARRIS	
			132			
			(JUAN HOTTA)	0/15/2/(10		and year
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HSZ TAY	Land the state of	TREGUEST	Service in the service and the service of the servi			
Orillers' Names				Name Y		
Miners Ivames						
Color of the second of the sec	and the second second second second second				or the State of th	Marie Control
Remarks:						
CAS SETUC MANY.	neme o too terra	ADOL PART T	ION AFTER RECEIVING CAE	THIS LOCAT	CENDER	
facing Aurag ore	AMA CHIA MOAA	MOVE LEMIL C.	DOKS GOOD.		MOITADE.	
		MRS. KROUZA.	e landonnees, w. and e	BRISTLY WI	CSZJAT	
	I hereby certify I vi	sited the above w	vell on this date.			
DATE						

Permit No. 47-107-1302

#### STATE OF WEST VIRGINIA

## DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



#### INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well GAS

Company KATSER EXE	LORATION & MINING CO	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
P.O. BOX 8		Size				
Farm KROUPA/WIG	AL	16			Kind of Pac	ker
Well No.KEM#354	76)	13			Size of	
District HARRIS	County_WOOD	81/4	CANCELLE SEE SEE SEE SEE SEE			
Drilling commenced 10	/17-84	65/8			Depth set	
	Total depth	5 3/16			Perf. top	
Date shot	Depth of shot	2			Perf. botton	n
Initial open flow	/10ths Water inInch	Liners Used			Perf. top Perf. botton	
Open flow after tubing	/10ths Merc. inInch					
Volume	Cu. Ft.	CASING CEME	NTED 10 3/	4" SIZE 26	3 KBNo. FT10	)/17/8Pate
Rock pressure	lbshrs.	NAME OF SE	RVICE COMPA	ANY NOW	SCO	
Oil	bbls., 1st 24 hrs.	COAL WAS E	NCOUNTEREL	AT_NA	_FEET	INCHES
Fresh water	feetfeet	FEET	INC	HES	_FEET	INCHES
Salt water	feetfeet	FEET	INC	HES	_FEET	INCHES
77 77	FILTS OFDAID STADSIED	S. DAUTD CMS	TOED			1.00
Drillers' NamesW.1	. ELLIS, GERALD STARCHER,	OC DEATE SWI	DEK			

Remarks: RAN 263 OF 10 3/4" CSG AND CEMENT WITH 175SX CLASS "A" W/3% CACL 2 2#/SX FLOWSEAL.

CURRENTLY @ 511'; WILL PROBABLY RUN 7" SOMETIME FRIDAY NIGHT.

18 OCTOBER 1984

DISTRICTOR

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

Permit No.	70					W	/ell No	
CAS	V 20 P 1			ADD	RESS		-107-L	74
					C			
Filling Material Used					S MINING CO	KELORATION	ISER E	AM seens
Liner		ation	Amou	unt	Packer	_	cation Up	
		ND DEPTH PLACED			BRIDGES		G AND TU	Party .
CEMENT-THICKN	ESS	WOOD-SIZE	LEAD	CONS	TRUCTION-LOCATION	RECOVERED	SIZE	LOST
					COOM		BIAR	M reis
						10/17-84		
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								12 372 -
- TO/17/84	33 LCB	10_3/4_4=2						
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	006	O a						
	1.3	All to daying		97 JUNE 2	and a set seem in			
		# W			1.351			
Drillers' Names								1 1 1
	1 1 1 11 11 11 11				1982			
Remarks:								
			SMYDER .		GERALD STARCHER,	.T. ELLIS,		
Land Greek E. E. Alberting		CAC WAR CACI	755X CLASS	HI HIIW	CSG AND CENTERAL	OF LO 3/4	263 .D. 03	
		English Table to As	Test contents	on tit to	WILL PROBABLY RI	.1115 0 01	rintecrés e e e	
		LAMOIN IIA	LANG CHARAC		in Idahawa alliw	e and a re	LANDANO	
	1 1	hereby certify I visi						

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION
DEPT. OF MINES

#### INSPECTOR'S WELL REPORT

Company KAISER EXPL	ORATION & MINING CO	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
P.O. BOX 8  RAVENSWOOD,		Size			
FarmWIGAL/KROUE	A	16			Kind of Packer
Well No. KEM# 354		13			Size of
District HARRIS	County_ WOOD	81/4			
Drilling commenced 10/	17/84	6%			Depth set
Drilling completed	Total depth	3			Perf. top
Date shot	Depth of shot	2			Perf. bottom
Initial open flow	/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing	/10ths Merc. inInch				Perf. bottom
Volume	Cu. Ft.	CASING CEME	NTED 7"	SIZE 18	25 No. FT. 10/20/8% ate
Rock pressure	lbs,hrs.	NAME OF SER	RVICE COMPA	NY NOWSCO	)
Oil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT_NA	_FEETINCHES
Fresh water	feetfeet	FEET	INCH	IES	FEETINCHES
Salt water	feetfeet	FEET	INCH	IES	FEETINCHES

Remarks: 10/20/84 RAN 1825' 7" CSG AND CEMENTED WITH 175SX OF 50/50 POX W/10% SALT AND 1/4/SX OF FLOWSEAL, AND 100SX OF CLASS A WITH 1/24/SX FLOWSEAL.

OPEN HOLE T.D. 1845'

PRESENTLY @ 4349' AND WILL LOG AND RUN PRODUCTION CSG SOMETIME TONIGHT.

22 OCTOBER 1984

TE

POPENSON 12/20/2023
DISTRICT WELL INSPECTOR

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

## INSPECTOR'S PLUGGING REPORT

DAN		-		0.00	I_TOE_T	. ,
			ADDRESS		7-107-1	
ARM		_ DISTRICT		OUNTY	Contract Contract	niero attantante de torre
				KPLOKATION	VISER E	
illing Material Used			64	00, NV 261	AVE .V.	SI R
iner Loca	tion	Amount	t Packer		cation	
PLUGS USED AN	D DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			gow goow		RRIS	
			COUNTY SE		93.7.7.2	20.2 11.13
				10/17/84		P. 109 3 101
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Security of the second				6 KiqsC		
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825' . 10/22/3	7					
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rillers' Names			1449			waster -
Timers Traines						
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demarks:				CONTRACTOR AND A CO		
				D STARGHER	(Ander)	
		war war to appropriate	AT BETT OF A STATE OF THE	TA F FEE CO	21721	**************************************
NICZ SALT AND WA			' &' CSG AND CLASHTED X OF CLASS A WITH '#/S			
				E T.D. 184		
			NA MILL LOG AND RUN CM	Y (8-4348) X	RESONNE	
DATE	hereby certify I visi	ited the above we	en on this date.			
	11					

# DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

# INSPECTOR'S WELL REPORTET. OF MINES

Permit No. 47-107-1302			Oil or	Gas Well GAS
Company KAISER EXPLORATION & MINING CO	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
P.O. BOX 8 Address RAVENSWOOD, WV 26164	Size			-4-2-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
FarmWIGAL/KROUPA	16	and the second second		Kind of Packer
Well NoKEM #354	13			Si
District HARRIS County WOOD	81/4			Size of
Drilling commenced 10/17/84	65%			Depth set
	5 3/16			
Drilling completed 10/23/84 Total depth 4448	3			Perf. top
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEMEN	NTED 43"	SIZE 441	0 No. FT. 10/23/8/at
lock pressurelbshrs.	NAME OF SER	VICE COMPA	NY NOWS	CO
Dilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEETINCHE
resh waterfeetfeet	FEET_	INCH	ES	_FEETINCHE
Salt water feet feet	FEET_	INCH	ES	FEETINCHE
Drillers' Names				e je njenjiš
Remarks: RAN 4410' OF 42" CSG AND CEMENTED	VITH 250SX OF	50/50 POZ	W/10% SAT	T AND 121/SX CTI

WILL PROBABLY WAIT A COUPLE OF DAYS BEFORE MOVING RIG TO #47-107-1324 DUE TO THE WEATHER!

24 OCTOBER 1984

DATE

12/20/2023 DISTRICT WELL INSPECTOR

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

## **INSPECTOR'S PLUGGING REPORT**

Permit No.			TALE ROLD PARMI	Well No.			
			ADDRESS			47	
ARM		_ DISTRICT .		COUNTY	1997 (A. 1998) (T. 1994)	the transport of the second	
	1.00 000		s nining co	XPLORATION	I THEI		
ling Material Used			4.0	OB. EV 261	VENSWO	<u>, c</u>	
ner Loca	ation	Amou			cation	***	
PLUGS USED AN	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	JBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
			GOOW		RRIS	dir	
La La Callada La re Callada				28/77/0	1		
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			TOACE JOSEPH	40)153	19.0als.	giner Poli	
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				rd 01 \		desperation	
		apara de la companya	Merk State Commencer	in of the second	geldur s	ts etc.	
101 - 10/23/84	3 17,53		(BMICAU) III DD				
300	TOLL PRAYEOU			agentin to the property of the		discount of	
117671	Ny						
Orillers' Names	27.5MI 27.65MI	T. S. Z.		1357			
Comarks.							
MET AND 12 pm/sx on	O POZ W/ICK SM	SX OF SU/S	AMO CHEMMED LIMI 2501	OF SHE CSC	.0155 1	AAA tatha	
TO THE MEATHER!	7-107-1322 Ju	RIG TO #4	OF DAYS BEFORE HOVING	IT A COUPLE	AN YJJ	LE PROBA	
0	I hereby certify I vis	ited the above	well on this date.				
DATE	I hereby certify I vis	ned the above	men on the date.				
- colors	MANIFER P.				NEO F	ssaonoo	
V	GENTLON . THE ME		D	ISTRICT WELL IN	12/29/	2002	





OIL & GAS DIVISION
DEPT. OF MINES

# State of West Virginia Department of Mines (Dil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

	INSTECTORS	COMPLIANCE	KEPUKI		
COMPANY	KAISER EXPLORATION & MINING	со	PERMIT NO	47-1	07-1302
	P.O. BOX 8		FARM & WE	LL NO	WIGAL/DROUPA-KEM354
	RAVENSWOOD, WV 26164		DIST. & CO	OUNTY	HARRIS/WOOD
				TN	COMPLIANCE
RULE	DESCRIPTION			YES	
23.06	Notification Prior to Start	ing Work		7	ζ
25.04	Prepared before Drilling to	Prevent Was	ste		ζ
25.03	High-Pressure Drilling			7	
16.01	Required Permits at Wellsit	e		7	
15.03	Adequate Fresh Water Casing			X	
15.02	Adequate Coal Casing			X	
15.01	Adequate Production Casing			X	
15.04	Adequate Cement Strenght			X	
15.05	Cement Type			X	
23.02	Maintained Access Roads			X	
25.01	Necessary Equipment to Preven	ent Waste		X	
23.04	Reclaimed Drilling Pits			X	
23.05	No Surface or Underground Po	ollution		X	
23.07	Requirements for Production	& Gathering	g Pipelines	X	
16.01	Well Records on Site			X	
16.02	Well Records Filed			X	
7.05	Identification Markings			X	
I HAVE I	NSPECTED THE ABOVE CAPTIONED	WELL AND RE	COMMEND TH	AT IT	BE RELEASED:
			SIGNED G		I Shames -
			STOWED &	por s	1 MIGHTOSORDE
			DATE 1	O JUNI	E 1985
Your wel	l record was received and rec	lamation re	quirements	annr	oved In accordance
with Char	pter 22, Article 4, Section 2	the above	well will	roma	in under bond
coverage	for the life of the well.	, the above	well will	Tema.	in dider bond
			1	A STATE OF THE PARTY OF THE PAR	m del
		-	Administra	tor-0	il & Gas Division
			June	19,	1985
				DATE	

#### INSPECTOR'S PERMIT SUMMARY FORM

DECIEUV 2 JUN 1 1 1986

DIVISION OF OIL & GAS

				DEPT.	OF ENERGY			
WELL TYPE GA			API# 47	10/-1302-F	(3-17)			
ELEVATION 789								
DISTRICT_HAI					20 12 12 20 20 X 20			
QUADRANGLE		100	WIGA					
COUNTY	WOOD	WELL	, # KEM 35	04				
		COMMENTS						
TARGET FORMA	TION_BROWN SHA	ALE & BEREADATE APP	LICATION	RECEIVED_	3/1/86			
DATE STARTED LOCATION		NOTIFIED	DR	ILLING CO	MMENCED			
WATER DEPTHS	5							
		,						
		CASING						
Ran	feet of _	"pipe c	n	with	fill up			
Ran	feet of _	"pipe o	n	with	fill up			
Ran	feet of _	"pipe c	on	with	fill up			
Ran	feet of _	''pipe o	n	with	fill up			
TD	feet on							
		PLUGGIN	G					
		FLOGGIN	ď					
Type		From	То		Pipe Removed			
			Name of the last o					
Pit Discharg	e date:	Type						
		phfe						
	received							
1			110					
Date Release	d 6/6/86		1///	//				

Inspector's signature

I	R	-	2	6	
Re	V	e	r	S	e

API#	47	_	
111 17	I 6		

### LIST ALL VISITS FOR THIS PERMIT

DATE	TIME	PURPOSE	COMMENTS
A34		·VI	ASTRON
58			ABBUS MINTE MINES
			1 March 10 M
732 1000			
al ries.			
	4 4		

Notes

1.0 API well number. (If not available, leave blank 14 digits i	-		47-107-1302	·		
2.0 Type of determination being sought (Use the codes found on the front of this form.).		10: Section o	3		Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)			4410	a.	feet	
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	300 Street	ser Energy, Lakeside D		CA	94643	Seller Code
	Cit.	Tallu		State	Zip Coile	•
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	New Field N Wood County				WV	
(b) For OCS wells:	1				State	
e de la companya della companya de la companya della companya dell	N/A Area Na			_	Block Number	
•		Mo. Day	1 1 1	OCS I	ease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Harvey	/ Wigal, KEM	#354	22-		
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A					
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Borg W	arner <u>Chemic</u>	al, Inc.			
(b) Date of the contract:		907.	Mo. Day	بب		Buyer Code
(c) Estimated annual production.		•	25		MMcf	
		(a) Base Price (\$/MMBTU) -	(b) Tax	Price	II Other s [Indicate r (-).]	(d) Total of (a), (b) and (c)
	Dec, 84	2.951	3 <u>5 2</u>	-		3:303
Maximum lawful rate:     (As of filing date. Complete to 3 decimal places.)		2.951	352			3.303
O Person responsible for this application .	D 7	Cotes				
Auncy Use Only In Received by Juris, Agency	Name:	2 Coty		;	Petroleur	m Engineer
Ite America by FERC	Signa: ure	The state of the s				
	Date Appui	er 10, 1984	30	_	73-5371	2/29/2023

#### FERC FORM 121 (effective Jan. 1, 1983) 98,051

US DEPARTMENT OF ENERGY Manhampton, D.L. 20476

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

#### GENERAL INSTRUCTIONS

opiete this form if you are applying for price classification under sections 102, 100, 107 or 108 of the home

confidential and will not be treated as such.

mut the completed application to the appropriate Jurisdictional Agency as tissed in tale 18 of the CFR, part 274-501. If there are any questions, call (202) 357-8585.

#### SPECIFIC INSTRUCTIONS

Samuel of	Category	Douchector	
(J)	(b)	let	
102	1	New OCS lease	
102	2	New onshore well (2.5 mile test)	
102	3	New onther well (1000) feet deeper test)	
102	4	1 -law a.mare reservoir	
102	5	New reservoir on old OCS lease	-C-2- 740000
103	-	New onshire production well	-
107	0	Deep (more than 15,0-4) feet) high onst gas	4-10-10-10-10-10-10-10-10-10-10-10-10-10-
107	1	Gas produced from deopressured brine	
107	1 2	Gas produced from coal seams	
107	3	Get produced from Devonian shale	
107	5	Production ennancement gas	
107	6	New tient formation das	
167	7	Recompletion tight formation das	
108	0	Stripper well .	
. 108	1 1	Stripper well = seasonally affected	
108	2	Stripper well = ennanced recovery	
108	3	Ctripper well - temporary pressure buildup	
108	1 4	Stripper weil - protest procedure	

No.	Contract Date (Ma, Da, Yr) (a)	Purchase (b)	a'
1			
2	A seed of the seed		
3			
4			
5	3		
6			

€1982 Federal Programs Advisory Service, Washington, D.C.

12/15/82

Date Received

## STATE OF WEST VIRGINIA

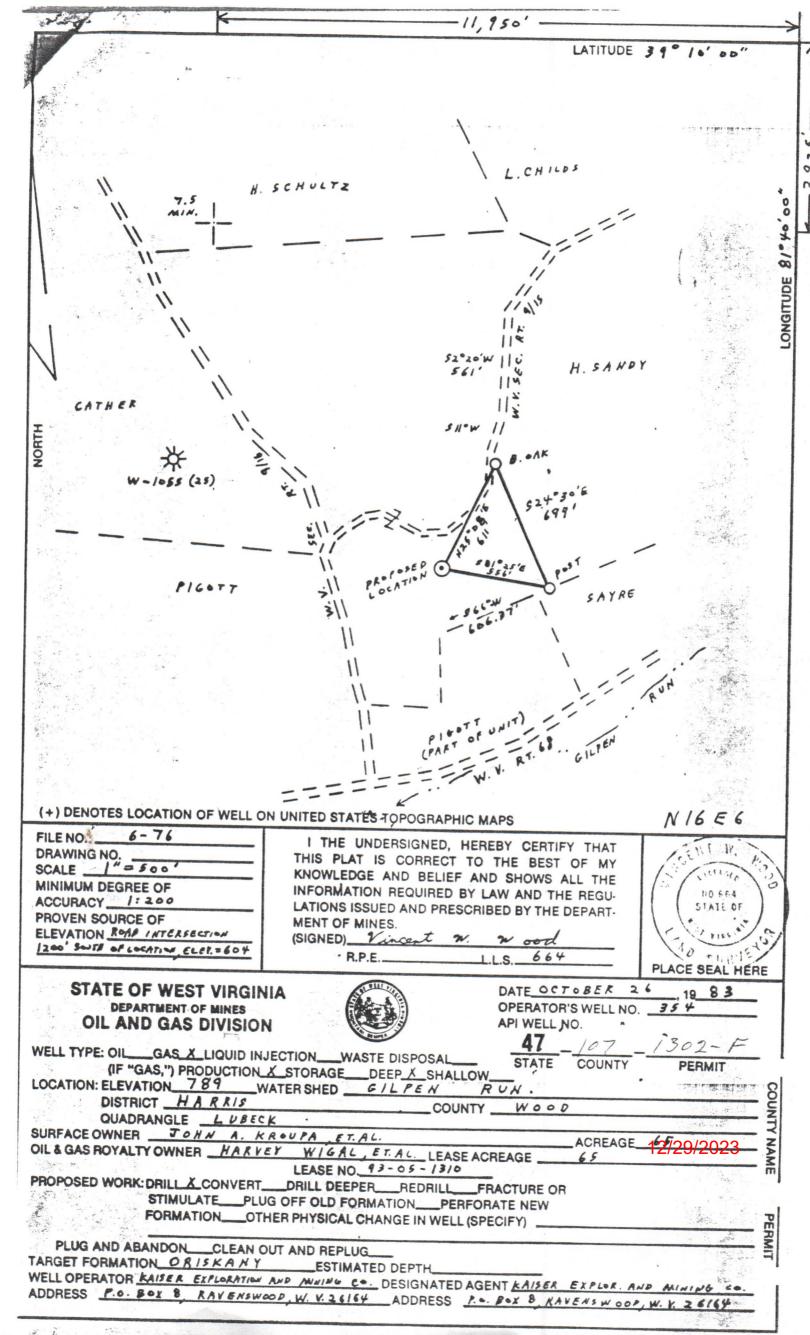
## DEPARTMENT OF MINES, OIL AND GAS DIVISION

DEC 28 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: December 10,19 84	AGENCY USE ONLY
Applicant's Name: Kaiser Energy, Inc.	WELL DETERMINATION FILE NUMBER
Address: Kaiser Center 300 Lakeside Drive	9.112.11
Oakland, CA 94643	841211 -103-107-1302
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well
Date of Contract (Month, day and year)	
(nonch, day and year)	
First Purchaser: Borg Warner Chemicals, Inc.	Designated Agent: Author Sandy
Address: International Center	Address: Borg Warner Chemicals, Inc. International Center
(Street or P.O. Box) Parkersburg, WV 26164	Parkersburg, WV 26101
(City) (State) (Zip Code) FERC Seller Code	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERN BE ADDRESSED:	
Name: R. L. Coty (Print)	Petroleum Engineer
Signature: RLCoty	(Title)
Address: P. O. Box 8	
(Street or P.O. Box) Ravenswood, WV	26164
Telephone: (City) (State) (304) 273-5371 (Area Code) (Phone	
(Certificate of Proof of Service to Purch	-
NGPA Catagory Ap	plied For
NGPA SECTION/SUBSECTION	
102 New Natural Gas	108 Stripper Well Natural Gas
102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test	108- Stripper Well
102-4 New Onshore Reservoir	108-2 Enhanced Recovery
103 New Onshore Production Well  X 103 New Onshore Production Well	108-3 Temporary Pressure Buildup
107 High Cost Natural Gas	AGENCY USE ONLY
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine	The second secon
107-2 Coal Seams 107-3 Devonian Shale	
107-5 Production enhancement 107-6 New Tight Formation	QUALIFIED
Recompletion Tight Formation	COMILITY ILL
Kegara Ch	
DEC 1 1 1984	12/29/2023
OIL & GAS DIV.	. 2, 20, 2020
DEPT. OF MINES	

Determination Date





1)	Date: No	vembe	er 17	, 19 83
2)	Operator's Well No.	KEM	#354	
3)	API Well No.	47		
,		State	County	v Dermit

# STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

			/	APPLICA	TION FOR A WEL	L WORK PERMIT		
4) WELL T	YPE: A	Oil	/ Gas	x /				
					/ Underground	storage	/ Deep X	_/ Shallow/)
5) LOCAT					Watershed:			
	Di	strict:	Harris		County:	lood	Quadrangle:	Lubeck
6) WELL C							AGENT R. A.	
Addre		0. Box				Address		
	Ray	enswoo	nd WV 26	164			Same	
8) OIL & C			BE NOTIFIED			9) DRILLING C	ONTRACTOR:	
Name _	Jerry	Tenhal	oock				lint Hurt	
Addre	ess Pt	1. Bo	X 101A				P. O. Box 388	
	21:	olev 1	IV 25271				Elkview. WV	
10) PROPOS						/ Redrill	/ Stimulate	V /
10, 110101	ED WEEL	WORK.			n/ Perfora			^_
					in well (specify)	ate new formation		
11) GFOLO	GICAL TAR	GET FOR	MATION,					CARRIED CO.
					feet			
					feet; salt,		feet	
							e area? Yes	/ No
15) CASING					15 CO	ar being inned in the	alea! les	/ No/
	II				II FOOTAGE II	UTERUAL C	II consense present	
CASING OR TUBING TYPE		1	Weight		FOOTAGE II		OR SACKS	PACKERS
	Size	Grade	per ft. New	Used	For drilling	Left in well	(Cubic feet)	
Conductor								Kinds
Fresh water	10 3/4		X		250	250	150 sks cla	ss a to surface
Coal								Sizes
Intermediate	7"		X		1800	1800		O pozmix/100 sks C
Production	4 1/2	3 19	X		4410	4410	225 sks 50/	Depths set
Tubing					- A			
Liners								Perforations:
								Top Bottom
					200			
			INSTRUC	CTIONS T	O COAL OPERATO	OR, OWNER, OR	LESSEE	
	Tho	namad aan						
	are requir	ed to make	e by Code \$22-4-	3 must be	filed with the Depart	ment of Mines with	any objection they wish in fifteen (15) days afte	of to make or
	of this Ap	plication	by the Departme	ent.	Дорин	ment of wines with	in mitteen (15) days ante	i the receipt
		The follo	wing waiver mus	t be comp	oleted by the coal op	erator and by any o	oal owner or coal lesse	ee
			recorded a declar			the permit is to be	ssued within fifteen (1:	5)
		uays of th	ic filling of the A	гррпсатю	1.			
					WAIVER			
The undersig	ned coal one	rator		/ owner		(10000	(-64)	
			If a mine man e	_/ owner		he well location the	/ of the co	al under this well location has added to the mine map. The
indersigned ha	s no objection	on to the w	vork proposed to	be done	at this location, provi	ded, the well opera	tor has complied with a	all applicable requirements of
he West Virgin	nia Code and	d the gove	rning regulations	i.		- Spera	ma ramphed with t	approacto requirements of
		t.						
				1 PW		Andrew State of the State of th		A STATE OF THE STA
Date:			. 19		R	V		

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