



1)	Date: A	pril 4	, 1984
2)	Operator's	VCM 170	CHISACI MISCOS

2) Operator's Well No. KEM-173
3) API Well No. 47 -

47 - 035 State County

- 1655-FF Permit

OIL & GAS DIVISION DEPT. OF MINES

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

4) WELL TY	PE: A C	Dil W. G	/ Ga	ıs	X /			AND COND	SMOITA DISECT	MARKARIA
	В (If "Gas",	Production	1	X	/ Undergrou	nd stor	age	_/ Deep	_/ ShallowX/)
5) LOCATIO	N: Ele	evation:		937 '				Burnt Rur		
	Di	strict:	Rip	ley	a real	County:		Jackson	Quadrangle:	Kenna
6) WELL OF	ERATOR.	XXEX	KKANS Ka:	iser	Exp &	& Mining C	0.7)	DESIGNATED	AGENT R.A.	PRYCE
Addres	s P	. 0. 1	Box 8					Address		me .
	R	avens	vood, W	V 2	6164					
8) OIL & GA							9)	DRILLING CO	NTRACTOR:	
	J. Tep								ser Drilling	Ria #1
Addres			WV 2	5271				Address		L WV 26164
								ridaress	- Navenswood	1, WV 20104
) PROPOSE	ED WELL	WODK.	Drill		_/ Drill	dooner		/ Dodaill	/ Stimulate	ν .
, TROTOSI	D WELL	WORK.						new formation_	And the same of th	<u>^</u> /
										. Danas . T1-4-
CEOLOG	CAL TAD	CET FOR	Other pi	Ro	change i	andstone	Sha	le Rores	with tubing	Berea; Isolate
					629'			ire, berea	with tubing	and packer.
12) Estim					400		eet	050		
13) Appro				STORY TAXABLE			alt,		feet.	
14) Appro				11	one	Is	coal b	eing mined in the	area? Yes	/ NoX
5) CASING	AND TUBI									
CASING OR TUBING TYPE		SPEC	UFICATIONS Weight			FOOTAG	E INTE	RVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling		Left in well	(Cubic feet)	
onductor										Kinds None
esh water	10 3/4	1 H	32.75	X		598' (KB)	598' (KB) 375 sks Ne	at
oal									, CF D	Sizes -
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oduction	4 1/	2 K	10.50	X) 200 sks Po	Zifienths set -
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ners										Perforations:
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	and I									
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	1					DRILLING P				
	47.0	25 16				DRILLING	LINIV			ell work started
rmit number_	4/-0	35-16:	55-FRAC						May 9, 19	984 19
										ampletion of the dalls
is permit cove	ring the we	ell operato	or and well	locatio	n shown	below is evidence	e of p	ermission granted	to drill in accordance	ce with the pertinent legal re
rements subje	ct to the co	naitions (contained n	erein a	nd on the	e reverse hereof.	Votific	ation must be give	n to the District Oil	and Cas Inspector (Defer t
trict oil and g	as inspector	24 hours	before act	ual per	mitted w	ork has commen	ced)	addition, the well	operator or his cont	ractor shall notify the prope
erse hereof.	ork is as de	scribed in	the Notice	and A	pplication	n, plat, and recla	mation	plan, subject to	any modifications an	d conditions specified on th
rmit expires _	May	9, 198	36			unless	alla.	1. :		
			N. 1. 1. 3/2			unless w	or wor	k is commenced p	rior to that date and p	prosecuted with due diligence
Bond:	Agent	- 1	Plati	Casin	g	Fee				
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0 0	1114	/	1/	•	173	34	rr	laura.	1 11	1011
						1	/	jargare	To X	usse
								Admini	strator, Office of Oi	l and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

09/08/2023

FORM	IV-2(B)
Davarca	

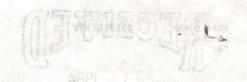
Reason:

Kilo

FILE COPY



STATE OF WEST VIRGINIA



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	Quadrangle:	Jackson				gfa	ericts and	eiCT	
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		9) DRILLING CO				BE NOTH			
	isec unilling								Name
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		icehew lormation							
			C (virta ir) lis						
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									13) Approx
		being mined in the							(4) Approx
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900/i think									Conductor
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			(gN) 16192				1		
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Perforacions									Luneus
This part of Form IV-2	(b) is to record th	ne dates of certa	in occurrence	s and any	y follo	w-up ins	pections	·	
		Date						Dat	e(s)
	H.,	Date						24.	
Application received			Follow	-up inspe	ection(s)			
			HICH USE O	10					
Well work started		3116	HEING PER	MCI	,,				
Completion of the drill	ing								
process manifest out theme	to dell in accordance		ow is evidence of	shown bel	nocation				
	n to the District Oil a Departur or his contr								
Well Recold received				arto wabeitu			ZW nones		istrict on and gas
Reclamation completed	any modifications and	on plan, subject to	iamat reclamat		and, Ap	he Notice	ni bedita		he nermitted wor
							801 A		verse nereor.
roscouted with dire diligence.									Company 1000
OTHER INSPECTION	IS								
					Casing	7		Agenti	
Reason:		1/10	T	1201		()	E VI	WINCE.	1515

COAL OWNER'S COPY



1)	Date:	r11 4		, 19
2)	Operator's Well No.	KEM_173		
3)	API Well No.	47	035	1655
-		State	County	Dormit

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

4)	WELL TYP			/ Ga		X /	/ Underground's	torage	/ Deen	_/ Shallow/)
5)	LOCATION		vation:					Rurnt Pur		, siano
			strict:	Rip	lev		County:	Jackson	Quadrangle:	Kenna
6)	WELL OPE	ERATOR_	KEM					7) DESIGNATED		1 delining
	Address		0.8					Address	Sa	mo em
		R	avencu	and W	V 2	6164				
8)	OIL & GAS	SINSPEC	TOR TO	BE NOTIF	FIED	0101		9) DRILLING CO	NTRACTOR:	
	Name	J. Ten	habock					Name Kai	ser Drilling	P4o #1
	Address	R	iplev.	WV 2	5271			Address	Ravenswood	WV 26164
									1101011211000	, NV 20107
10)	PROPOSEI	DWELLY	WORK.	Drill		_/ Drill	deener	/ Redrill	/ Stimulate	y /
10)	I KOI OSLI	D WELL	WORK.					ate new formation_		
										Rorea: Isolate
11)	CEOLOGIC	CAL TAD	CET FOR						with tubing	
	12) Estima					A SERVICE SERVICES	The second second	nore, berea	with tuoing	and packer.
							feet	050	C	
	13) Approx					400		850	feet.	
	14) Approx				- 1	one	Is coa	al being mined in the	area? Yes	/ No/
	CASING A	ND LOBI								
	SING OR BING TYPE		SPEC	Weight 1			FOOTAGE II	NTERVALS	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Cond	uctor									Kinds None
Fresh	water	10 3/4	H	32.75	X		5981 (KB) 598' (KB) 375 sks No	94
Coal									,	Sizes
Interr	nediate	7	K	20	X		2616' (KB) 2616' (KB) PROSKS PRZ	Lix
Produ	uction	4 1/	2 K	10.50	X			45731 (KB	1 200 sks Po	Depths set
Tubir	ıg							1000 (100	7 200 313 10	SH TA
Liner	s									Perforations:
										Top Bottom
		are require of this Ap	ed to make plication The follow who has r	l operator, e by Code { by the Dep wing waive	coal o §22-4-3 eartment r must declara	wner(s), and must be file it. be complete	d coal lessee are he ed with the Depart ed by the coal op	ment of Mines within	ny objection they wish in fifteen (15) days after oal owner or coal lesses sued within fifteen (1	er the receipt
							WAIVER			
exam unde	ined this pro	posed well to objection Code and	l location. In to the w	If a mine work proporning regul	map ex	ists which c be done at t	overs the area of t	he well location, the	well location has been	pal under this well location has n added to the mine map. The all applicable requirements of
Data							/	1 largar	1+ 11 1	was .
Date:		1		, 19			/ B			

FORM IV-2(A) Obverse [8-83]

1) Date: <u>April 4</u> ,19 84 2) Operator's

Well No. KEM-173

3) API Well No. 47 - 035 - 1655 - State County Permit

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

Frac.

		NOT	ICE OF APPL	ICATION	FOR	A WEI	L	WORK PERMIT
4) SU	RFACE OWN	TER(S) OF RE						COAL OPERATOR
(i)	Name	Arthur Penni	ngton					Address
	Address_	5215 Tyler				5/3	÷1	COAL CUMED (C) LITTLE DECE
(ii)	Nome -	Charleston,	WV			5(1		COAL OWNER(S) WITH DECLARATION ON RECORNAME
(11)	Name Address	-						Address
	Auditess_							1861 (33
(iii)	Name -							Name
	Address							Address
		A reservation in				5(11	.i)	COAL LESSEE WITH DECLARATION ON RECORD:
								Name
								Address
		And the	,					
		TO THE PERSON	•					
		(1) The A	PS Form 3800,	-			* 1	U.S.G.P.O. 1983-403-517
		and c	Pos	Return Date, a	Return to whom	Spe	Cen	Street No. Street
		(2) The p	ma	AL I	חסח א	Special Delivery	Certified	PO State and ZIP Code Postage Postage Postage Postage Postage
		(3) The (plug	NSUS	and Address of Delivery L Postage and Fees			Fe	P CEIPT NOT FOR NOT FOR State and
		recla	10 April	ot st ddre	D	Delivery Fe	O	URAN FOR
		THE REASON WHICH ARE SUM	131 200	and and	Sho	ק ק		FOR CERT FOR CERT INTERNATIO (See Revers ZIP Code
		(FORM IV-2(B) ACTION AT ALL	1 1000	ng to of Dell	Deli	n o		CODE CODE
		Take not	1009	es elive	vere			ERTIFICATIONAL PROPERTY OF THE
		erator propos for a Well Wo	SPO	Wou wo	a			Se)
		Department of						- CE 6 38 E
		and depicted Construction		64				60 act, and the
		by hand to the before the da						mail or delivered
		before the da					_	
		6) EXTRACTION			-			
		Check and Include	ase or	leases or	ther ~	ntinuir	~ ~	ontract or contracts by which
		I ho						
				(2-4-1-(C) (1) thro	agh (4).	(Se	ee reverse side for specifics.)
		7) ROYALTY PROV Is the right	to extract, pro	duce or mar	ket the	oil or		s based upon a lease or leases
			ne of oil or gas					
		If t	he answer above	is No. noth				needed. If the answer is Yes,
		you may use	Affidavit Form I	V-60.		40181	15	needed. If the answer is Yes,
		See the	reverse side fo	r line item	instru	ctions,	and	d for instructions concerning plat, and Construction and
					an uhh	TICALIO	n, pi	plat, and Construction and
		the information				WEI	L	
Noti	.ce and Ap	plication is	s verified			OPE	RAT	TOR Kaiser Exploration and Mining
and	sworn to	and the Not.	ice is					- A O
sign	ea on beh	alf of the	Well Operati	or		By_		KAL
דוו ווו		and State by	4				ts	General Manager
this	R.A. Pry	Ce	-	1901		A	adr	ress P.O. Box 8
		sion expires	8/30	19 93		т	210	Ravenswood, WV 26164
				30.		1	CTE	ephone (304) 273-5371
N	otary Pub	lic Taglia	anney					00/00/000
		lic, <u>Jacks</u> West Virgin	on Coun	CY,				09/08/2023
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INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office 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 § 22-4-lb(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, iii) See Code § 22-4-20.
 - 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 § 22-4-lk 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 § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a 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 § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(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:

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

Arthur Pennington

Mining Company

Kaiser Exploration and 1/8 of prevailing 146/610 field price

Mulch Hay

. .

STATE OF WEST VIRGINIA

	OFFICE OF O	IL AND GAS		
Company Name Kaiser Explorati	on and Minh	Address Address		
Telephone 273-5371	SH2EON-	Telephone		
Lindowner Arthur Penningto	n ·	Soil Cons. District West	ern	
Revegetation to be carried				
This plan has been reveiwed and additions become a part	by L	Jestern SCD, AM	corrections/	ha
		(Date) (A	ov agency	
Access Road		Location	•	
Structure Culvert	(A)	Structure Interceptor	Ditch (1)	
spacing 16" diameter		Material Earth		
Page Ref. Manual 1.7		Page Ref. Manual]:]]		
Structure Road Ditch	(B)	Structure	(2)	
Spacing	Mandamonia	Material		•
Page Ref. Manual 1:9		Pege Ref. Manual	transferramental/promoted/particles	
Structure Cross Drain	(C)	Structure	(3)	
spacing 250'		Material		-
Page Ref. Manual 1:3		Page Ref. Manual		
All structures should be in		arly and repaired if neces	sary.	
ALL SLIUCEULES SHOULD DE AM	speciel regar			
	Revegeta	tion		
	Apositionis difeterments	added Street Controls	•	
Treatment Area I		Treatment Area	II	
or correct to pH	adliguence	Lime Same as Area I or correct to pil	-	
Fertilizer 14-14-14 40 (10-20-20 or equival	00 lbs/acre	Fertilizer (10-20-20 or eq	lbs/acre . uivalent)	

Seed* 81% Orchard Grass/15% Rybbs/acre Kentucky 31 Fescue 16 lbs/acre Red Clover 8 lbs/acre *Inoculate all legumes such as vetch, trefoil and clovers with the property CED

FEB 2 3 1982

Tons/Acre

lbs/acre lbs/acre lbs/acre

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Attach or photocopy section of involved Topographic map. Quadrangle 09/08/2023 Legens, frequenty Boundry -

Divorsion Market

(1)这种的复数形式的现在分词 1997年,1997年,1997年,1997年,1998年,1998年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年	The state of the same	Spring O- Wet Spot O Nuilding [3]	
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sketch to include well wellsite, drilling pits and nece with first part of this plan. I	ssary structures number	ed or lettered	to correspond
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· All Andrews		Boll Brook	
	Microsoft (A)	2	AN. 308.173
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	/		325
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and the second second second second	PROPOSED	ACLESS ROAD 8	-10%
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λ	ROND WINTER PENNINGTON		
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1	II PITI O		in Tues
NTS.	INTER	CEPTOR	
	DITCH		
A Committee of the Comm	The state of the state of the second	itaan sanaa na ma	doa
1	and the second s		
M. Carlotte and the second			
CORRECTE: PROPOSED LOCATION IS O	N FLAT IN WOODS . BRUSH	REMOVED FROM	SITE-
MARKETABLE TIMBER CUT I STACKED			
OF COMPLETION 1		Marie Tier (C. C.)	Kan Lander
	KAISER EXPLORATION AND M	INING COMPANY	Establish passaggit nganytan nganytan natarit natarity at pagatan at the attendence of the attendence
Signature: N. Hisher	P O Box 8 Ravenswood	WV 26164	09/08/2023

Friegre render ; languages cooperation to protect new seeding for one growing season.

Swortell.



IV-3 (Rev	5 8-81)	EG		VI	September 1
		APR	18	1984	اللا

WELL TYPE: Oil

DEPT. OF MINES

State of Mest Wirginia

Department of Allines Bil und Gas Division

Date	September 10. 1982
Operat	or's
Well N	lo173
Farm	Pennington
APT NO	47 -025

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 937' Watershed B	ound Stora			
District: Ripley County Jac		Oladrana'	lo Varia	
	KSOII .	_vuaurang.	Le Kenna	
CMPANY Kaiser Exploration & Mining Co.				
DDRESS P. O. Box 8, Ravenswood	Casing	Used in	T - c.	Cement
ESIGNATED AGENT Same	α	Used in		fill up
DDRESS	Tubing	Drilling	in Well	Cu. ft
URFACE OWNER Arthur Pennington	Size 20-16			
DDRESS 5215 Tyler View Drive, Charleston	Cond.			
INERAL RIGHIS OWNER Same, et al	13-10"	598	598	375 sx
DDRESS	9 5/8		1	
IL AND GAS INSPECTOR FOR THIS WORKRichard	8 5/8			
cris ADDRESS P.O. Box 372, Grants-	7	2616	2616	165 sx
RMIT ISSUED 2/26/82 Ville	5 1/2			
RILLING COMMENCED 8/17/82	4 1/2	4573	4573	200 sx
BILLING COMPLETED 8/23/82	3			
APPLICABLE: PLUGGING OF DRY HOLE ON	2			
NITINOUS PROGRESSION FROM DRILLING OR	Liners			
WORKING. VERBAL PERMISSION OBTAINED	used			
OLOGICAL TARGET FORMATION Devonian Brown sha	ale	Dept	h4162 - 439	94 fee
separ of campleted well 4629 feet R	otary x	/ Cable	h4162-439 T∞ls	94_fee
Water strata depth: Fresh feet;	otary <u>x</u> Salt	_/ Cable feet	Tools_	
Water strata depth: Fresh feet;	otary <u>x</u> Salt	_/ Cable feet	Tools_	
Water strata depth: Fresh feet; Coal seam depths:	otary <u>x</u> Salt	_/ Cable feet	Tools_	
Water strata depth: Fresh feet; Coal seam depths:	Salt Is coal b	_/ Cable feet eing mined	Tools_	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall	Salt	_/ Cablefeet eing mined zone depth	Tools in the a	area?
Water strata depth: Fresh feet: Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d C	Salt	Cable feet eing mined zone depthial open f	Tools in the and $4107-43$	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d	Salt_ Is coal b e Pay Oil: Init	_/ Cablefeet eing mined / zone depthial open flo	Tools in the and the second s	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial	Salt Is coal b e Pay Dil: Init Fina		in the and the	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface)	Salt Is coal be e Pay Dil: Init Fina al and fina measuremen		in the and the	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface) (If applicable due to multiple completion—	Salt Is coal be Pay Dil: Init Final	Cable feet eing mined / zone depth ial open floal tests nt) after after after	Tools in the and 4107-43 flow hours	area?
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface) (If applicable due to multiple completion— Second producing formation	Salt Is coal be Pay Dil: Init Final and final measurement) Pay 2	Cable feet eing mined cone depth ial open flowed tests tope depth after	Tools in the and the	Bbl/d Bbl/d s shut in
Water strata depth: Fresh feet: Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface) (If applicable due to multiple completion— Second producing formation Gas: Initial open flow Mcf/d 0	Salt	/ Cable feet feet eing mine zone depth ial open flo al tests ht) after zone depth ial open f	Tools in the and 4107-43 flow hours	Bbl/d shut in 09/08/202
Water strata depth: Fresh feet; Coal seam depths: N FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d of Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface) (If applicable due to multiple completion— Second producing formation Gas: Initial open flow Mcf/d 0 Final open flow Mcf/d 0	Salt Is coal be Pay Dil: Inition of the Pay 2 initial of the Pay 3 initi	/ Cable feet feet reing miner zone depth ial open flo al tests nt) after zone depth ial open flo nt open flo	Tools in the and 4107-43 flow hours hours	Bbl/d Bbl/d Bbl/d Bbl/d
Coal seam depths: EN FLOW DATA Producing formation Devonian Brown Shall Gas: Initial open flow 0 Mcf/d Final open flow 184 Mcf/d Time of open flow between initial Static rock pressure 1110 psig(surface (If applicable due to multiple completion— Second producing formation	Salt Is coal be Pay Dil: Init. Final and final measurement Pay 2 il: Initi. I and final land f	/ Cable feet feet reing miner zone depth ial open flo al tests tone depth ial open flo al tests cone depth ial open flo al tests	in the and the	Bbl/d Bbl/d Bbl/d Bbl/d Bbl/d Bbl/d

FULLI AV" (PEVEICE)

DETAILS OF PERFORMTED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC.

Brown Shale perforation 9/08/82

20 shots from 4107-4392 (0.40" diameter holes)

Brown shale frac: 75 quality foam; total sand: 60,000# 20/40 sand; total fluid: 391 BBL; total nitrogen: 1,144,000 SCF; treating pressure: 3300 psig; break-down with 800 psig; displaced 500 gal of 15% HCL; instantaneous shut in 9/09/82:

pressure: 1400 psig.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale & siltstone Sandstone Shale Sandstone Siltstone & shale Sandstone Siltstone Sandstone Siltstone & shale Sandstone & siltstone Siltstone Greenbrier Lime Shale Sandstone Shale Coffee Shale Berea Ss. Shale Brown Shale Shale	0 160 193 229 625 750 785 890 1100 1190 1310 1410 1570 1740 2096 2116 2230 2576 2599 2610 4162 4394	4162 4394	s/g s/g @ 3980, 3680, 3790 s/g @ 4215, 4324 T.D. s/g @ 4550

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company Well Operator 09/08/2023 Date: September 10. 1982

Regulation 2.02(i) provides as follows:

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



OIL & GAS DIVISION DEPT. OF MINES



State of Mest Mirginia Pepartment of Alines Gil und Gas Division

Date 12/28/84
Operator's
Well No. KEM 173
Farm A. Pennington
API No. 47 - 035 - 1655 - FRAC

REVISED

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production / Undergrou		e/ Deep	/ Sha	llow_X_/)
District: Ripley County Jackson	on	Quadrangle	Kenna	
LOCATION: Elevation: 937 Watershed Burnt Run District: Ripley County Jackson Quadrangle Kenna				
COMPANY Kaiser Exploration and Mining Co.				
	Casing	Used in	Left	
DESIGNATED AGENT R. A. Pryce	u u	Drilling	in Well	
ADDRESS Same	Size			
ADDRESS 5215 Tyler View Drive, Charleston, WY	-13-10,3/4	598	598	375 sx
MINERAL RIGHTS OWNER Same, et al				
ADDRESS				
OIL AND GAS INSPECTOR FOR THIS WORK Richard		2616	2616	165 sx
Morris ADDRESS P. O. Box 372 Grantsville				
PERMIT ISSUED 2/26/82 (5-9-84)		4570	4570	000
DRILLING COMMENCED 8/17/82		4573	4573	200 sx
DRILLING COMPLETED 8/23/82				
	. 2			
	used			
GEOLOGICAL TARGET FORMATION Devonian Brown Sha	ale	Don	h 4162-	4394 foot
			ed in the	area? No
	is coal			
	•			
Producing formation Devonian Brown Shale	Pay	zone dept	h 4107-	4392 feet
	Oil: Ini	tial open	flow	Bbl/d
Final open flow 184 434 Mcf/d	Fin	al open fi	Low	Bbl/d
Time of open flow between initi	al and fi	nal tests	ho	urs
Static rock pressure 1110 psig(surface	measurem	ent) after	hou	rs shut in
(If applicable due to multiple completion-	-)			19/08/2023
Second producing formation Berea Sandstone	Pay	zone dept		
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
나는 사람들은 사람들이 가지 않는 사람들이 되었다. 그렇게 되었다면 하는 사람들이 되었다면 하는 사람들이 되었다.			-	
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and the plantage plantage plantage and the second plantage plantage and the second plantage plantage and the second plantage plan		(Contin	we on re	verse side.

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

10/15/84 Young's to perf Berea with 30 (.39" dia) shots from 2599'-2609'.

12/14/84 NOWSCO to X-link frac the Berea. Broke down formation with 500 gal of 15% HCl, ran 250 bbl gel pad, treated with 30 lb X-link gel @ 1650 psig, used #45,000 of 20/40 sand, #15,000 of 10/20 sand, total nitrogen: 187 mscf, total fluid: 636 bbl, ISIP: 1720 psig, 5 min SIP: 1650 psig.

WELL LOG

FORMATION	COLOR HARD OF	SOFT TO	OP FEET	BOTTOM E	EET	Including and salt wa	REMARKS indication o ater, coal,	f all fresh oil and gas
See Origi	nal							
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		ren calling Angels		le light				
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			V.					
	ani at a nine A gan asi							

(Attach separate sheets as necessary)

11150	Kaiser Exploration and Mining Compa	any
	Well Operator	
	By: Konglet Quest	
	Dec La Milal Last	09/08/2023

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 drilking of a well."

Colt Control Chile

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 035 1655					Oil or	Gas Well	
Company Kaiser	Exploration		CASING AND TUBING	USED IN DRILLING	LEFT IN	PAC	KERS
Address			Size	^			
Farm	Pennington		16	100	A.	Kind of Pa	cker
Well No	Kem 173		13	011 SED	CAN.		
District	County_Jac	kson	81/4	My Com	O. (5)	Size of	
Orilling commenced			6%	0,		Depth set_	
Orilling completed			5 3/16		G.		
Date shot			3		0.	Perf. top	
nitial open flow			Liners Used			Perf. botto	
pen flow after tubing	•			•		Perf. botto	m
'olume				NIMED.	A.G.D.		
lock prescure			CASING CEMEN			No. FT	Dat
il			COAL WAS EN				
resh wateralt water							
art water	reet	feet	FEET_	INCH	ES	FEET	INCHES
rillers' Names							
emarks:							
emarks.							
Young set per	rm. plug 3.71'	at 26	85 KB perfo	rate 3 ho	les 2660	for squ	leeze.
							1
9 17 84				Jan) m	Typha	loh
wais.				V	<i>Y</i>	00/04	0/2022
300 dis	splaced pressu	re. good	d squeeze.	/	1		8/2023

DEPARTMENT OF MINES

Form 26 2/16/82

OIL AND GAS WELLS DIVISION

STATE OF WEST VIRGINIA

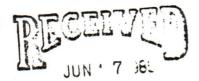
DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS			
ARM		DISTRICT	c	OUNTY		
lling Material Used						
iner Loc	ation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	CASING AND TUB	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
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	40,40,00					
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illers' Names				γ		
emarks:						
				. An		
DATE	I hereby certify I	risited the abov	e well on this date.			
					09/08/2	2023

SISTRICT WELL INSPECTOR



DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF HINES
OFFICE OF OIL AND GAS
CHARLESTON 20305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Company: KAISER EXP & MIN. CO

Farm: ARTHUR PENNINGTON \$173 Well:

Permit No. 47- 35-1655-FRAC County: JACKSON

5.1	Parameter I de la companya de la com	In Comr	
Rule	Description	Yes	No
23.06	Notification prior to starting work	X	
25.04	Prepred before drilling to prevent waste		
25.03	High pressure drilling		
16.01	Required permits at wellsite	X	
- 15.03	Adequate Fresh Water Casing	X	
15.02	Adequate Coal Casins	X	
•	Adequate Production Casins		
	Adequate Cement Strength	X	
	Cement Type	X	
	Maintained Access Roads	Y	
25.01	Necessary Equipment to Prevent Waste	<i>Y</i>	
	Reclaimed Drilling Pits	X	,
23.05	No Surface or Underground Pollution	<u> </u>	
	Requirements for Production & Gatherins Pipe	lines	
	Well Records on Site		
S Inc. and Industry	Well Records Filed		
	Identification Markinss	<u>K</u>	
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL AND RECOR	MEND THAT IT BE	RELEASED:
		Ω	- 1010
		SIGNED_ fen	1 repliebal
		// 0	
•		DATE	C1483
V	-11		
	sell record was received and reclamation requi		
	Chapter 22, Article 4, Section 2, the above we	ell will remain	under bond
covers	se for the life of the well.	-	. //
	•	111	1-10
•		Admini	strator
		June 1	9, 1985
			ate
		L	

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

CASING AND TUBING	USED IN DRILLING	LEFT IN	PAC	KERS
Size				
16			Kind of Pa	cker
13			Size of	
81/4			Size vi	
6%			Depth set_	
5 3/16			7.41	
2				m
Liners Used			Perf. top_	
			Perf. botto	m
CASING CEME	NTED	SIZE	No. FT	Date
NAME OF SEF	RVICE COMP.	ANY		
COAL WAS EN	COUNTERE	O AT	_FEET	INCHES
FEET	INC	HES	FEET	INCHES
FEET	INC	HES	_FEET	INCHES
				Ammoh
	Size 16	Size 16	CASING AND TUBING LEFT IN WELL Size 16	Size 16. Kind of Pa 13. Size of 8¼ 6½ 5 3/16. 3. Perf. top 2. Perf. botto Liners Used Perf. top Perf. top Perf. top Perf. botto CASING CEMENTED SIZE No. FT. NAME OF SERVICE COMPANY COAL WAS ENCOUNTERED AT FEET FEET INCHES FEET

Fraced 11 27 84 to be reseeded in spring.

12 11 84

DATE

SISTRICT WELL INSPECTOR

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.				W	/ell No	
OMPANY	e 10		ADDRESS		1	-
ARM	E. Martin and States and Court point appears of the court	DISTRICT _	C	OUNTY		
	JOHN DAN		100			man y maga
iner Loc	ation	Amou	nt Packer	Loc	cation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
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	24.00					
and the second s						
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Series Control Series				4 62	s, waar	
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	YKASMO	MOIVACK TE				
movorea	Ta GHAG		William Total Committee Co			
rillers' Names	89H0H1					10011111
1379/1 1787 E	SEDVI.	71.77	1381	- Pagi		
emarks:						
I	hereby certify I visi	ted the above w	rell on this date.			
DATE						
			DIS			

Permit No. 035 1655

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT OF MINES

CASING AND USED IN LEFT IN Kaiser Exploration PACKERS Company_ Size Address___ Kind of Packer___ Farm pennington 173 Well No.____ Size of____ Jackson District___ ____County_ 81/4_____ 65% Depth set____ Drilling commenced____ 5 3/16____ Drilling completed_____Total depth___ Perf. top____ Date shot______Depth of shot___ Perf. bottom____ Initial open flow_____/10ths Water in___Inch Liners Used_ Perf. top____ Open flow after tubing_____/10ths Merc. in____Inch Perf. bottom____ Volume__ CASING CEMENTED_____SIZE____No. FT.____Date _Cu. Ft. NAME OF SERVICE COMPANY _lbs___ hrs. bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_____FEET___INCHES Fresh water_____feet___ _feet FEET __INCHES_____FEET____INCHES Salt water_ _feet_ feet FEET INCHES FEET INCHE! Drillers' Names___

Remarks:

needs some work in spring before release.

2 8 85

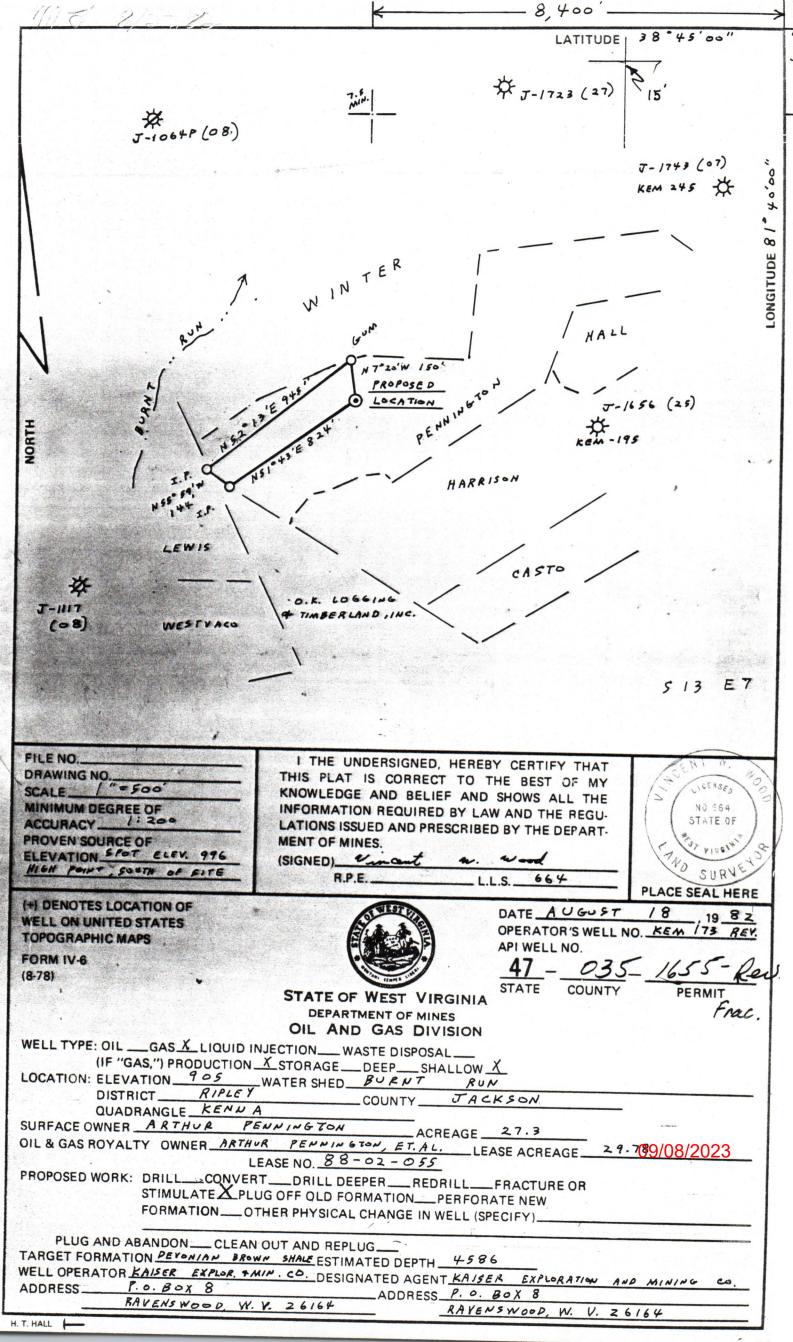
DATE

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS		ì	
ARM		DISTRICT _	C	OUNTY		- a - company of the company
TIMI	or was a second	38 1 18		Valoria i		1010
lling Material Used						
ner Loc	ation	Amoun	t Packer	Loc	ation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
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Total lightermore				X 6/1		
11		CONTRACTOR				
	**************************************		190	5		1.1.
(1092) and the TAR Inc.	TA GART	TMEGORIS PLA	N Jami'r an Ani Aide			
Orillers' Names	REGOVI	7707		2003		
Jimers Names		p		1842		1,111
100 100 100 management of the contract of the		and the second s	Charles of English Warner and Charles providing the Contract of the Contract o	The second way		
Remarks:						
			. 70			
	I hereby certify I	visited the above	well on this date.			
DATE	_ I hereby certify I					
			-	DISTRICT WELL	INSPECTO	R
					09/08	



DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 035 1655		TO SAS DIV	SION (KII	Gas Well
Company Kaiser Exploration	CASING AND TUBING	USED IN DRILLING	SEPT IN	PACKERS
Address	Size			
Pennington Farm	16			Kind of Packer
Well NoKem 173	10			Size of
DistrictCounty_ Jackson	81/4			
Drilling commenced	6%			Depth set
Drilling completedTotal depth	5 3/16			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 CEME	NTED	SIZE	No. FTDat
Rock pressure lbs hrs.	NAME OF SER	VICE COMP.	ANY	
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERE) AT	_FEETINCHE
Fresh waterfeetfeet	FEET_	INC	HES	_FEETINCHE
Salt waterfeetfeet	FEET_	INC	HES	_FEETINCHE
Drillers' Names				
Remarks:				

Noscoe pumped 5 BBL water 36 BBL gel down 41/2 pressure set at 36001b broke to 600 lbs rose to 600xxxx 2500 lbs then went to 0lbs pumped 100 sks neat plug down to 2630. taged plug backside of 41/2 circulated. 300 displaced pressure. good squeeze.

9 21 84

Jens- (20010812023

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS		_	
ARM		DISTRICT	C	OUNTY		
illing Material Used						
iner Loc	Location		Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
				-		
	•					
				2 20 2 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
rillers' Names					A	
marks:			e soa e e e e e e e e e e e e e e e e e e e			
		J-14-3 A31	e well on this date.			