

1)	Date:_	March	1	, 19 83
2)	Operato	or's		

DRILLING CONTRACTOR:

-/	Dutc.				
2)	Operator's				
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3)	API Well No.	47	iga ho	035	1796
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6) WELL OF	PERATOR_	Kaiser	Explor	ration an	d Mining Con	1) DESIGNAT	ED AGENT R. A	. Pryce
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My Commission Expires Its: General Manager OFFICE USE ONLY
DRILLING PERMIT

March 4

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.

Proper district Oil and Gas Inspector. 24 hours before actual permitted work has companied. proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

November 4, 1983

The state of the s	ember 4, 1903	unless deilli-	
Bond: Agent:	Plat: Casing	diffess drilling	s is commenced prior to that date and prosecuted with due diligence.
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Courter Mi	1 1-10-	162330	Administrator, Office of Oil and Gas

47-035-1796

Line Item Explanation

- Date of Application 1)
- Your well name and number 2)
- To be filled out by office of oil & gas 3)
- "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced 4A) at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of 4B) the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
 - Where well is located 5)
- Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- Present surface owner at time application is filed.
- Optional 9)
- See Reg. 7.01 relating to code §22-4-1k 11)
- "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the 15) Form IV-2 filed in connection therewith.
 - 16) Anticipated formation for which well will be completed
 - 17) Self explanatory
 - Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in 18) elevation
 - 19) All coal seam depths
 - Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
 - Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a 21) permit described herein may file the following:
 - (1)A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4)A brief description of the royalty provisions of each such lease or contract.
 - Code 22-4-11(d) and 22-4-11(e). 22)
 - Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
 - The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

4		
The following waiver must be completed by who has recorded a declaration under Code days of receipt thereof.	the coal operator ar 22-4-20, if the pern	nd by any coal owner or coal lessee nit is to be issued within fifteen (15)
13/3	WAIVER	The second secon
The undersigned coal operator/ owner/ amined this proposed well location. If a mine map exists added to the mine map. The undersigned has no objection operator has complied with all applicable requirements	willen covers the are	sed to be done at this location, provided, the well
Date:, 19	By	

LEASE SUMMARY

KEM # 301

Tract Discription

County:

Jackson

District: Ripley

Acres:

141.621

Bounded By: North - Sexton

East - Sexton, Casto

South - Casto

West - US Rt. 21; Rolling Hills Estate

Lease Parties

Lessor(s): Hoy E. Casto and Bertha Casto

Lessee:

Kaiser Exploration and Mining Company

Recording Information

Book and Page: 156/619

Royalty Provision

1/8 of prevailing field price





DATE February 11, 1983
WELL NO. KEM #301

1796-Ren

API NO. 47-

State of Mest Wirginia

Department of Mines Gil und Gas Division

CONSTRUCTION AND RECLAMATION PLAN

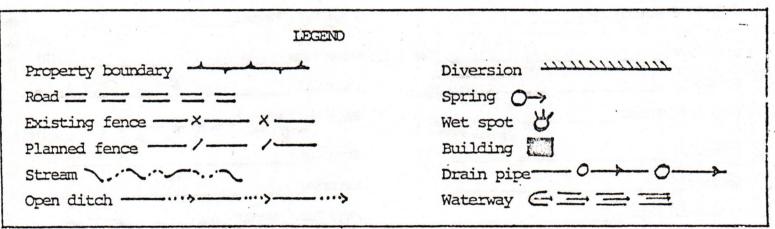
Address P. O. Box 8, Ravenswood	d, WV 2616	4 Address	
Tel ephone 273-5371		Telephone	
LANDOWNER Richard E. Rigney		SOIL CONS. DIST	RICT Western
Revegetation to be carried out	by Kaiser		
This plan has been reviewed b	/		
and additions become a part of thi		Felo 1 19	CD. All corrections
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Treatment Area I ime 4 Tons or correct to pH Pertilizer 14-14-14 600 lbs/ (10-20-20 or equivalent) sulch Hay 2 Tons eed*81% Orchard Grass/15% Ryelbs/ Red Clover 8 lbs/ *Inoculate all legumes such as vanoculate with 3% recommended emount	REVERENTA	Page Ref. Manual rly and repaired if and all brush and small ork begins. TION Treatme Lime Same as A or correct to Fertilizer (10-20- Mulch Seed* Cland clovers with the seed* ADDRESS 116 Pf	necessary. All all timber to be ent Area II Area I Tens/acre pH lbs/acre lbs/acre lbs/acre lbs/acre lbs/acre he proper bacterium. t Wood

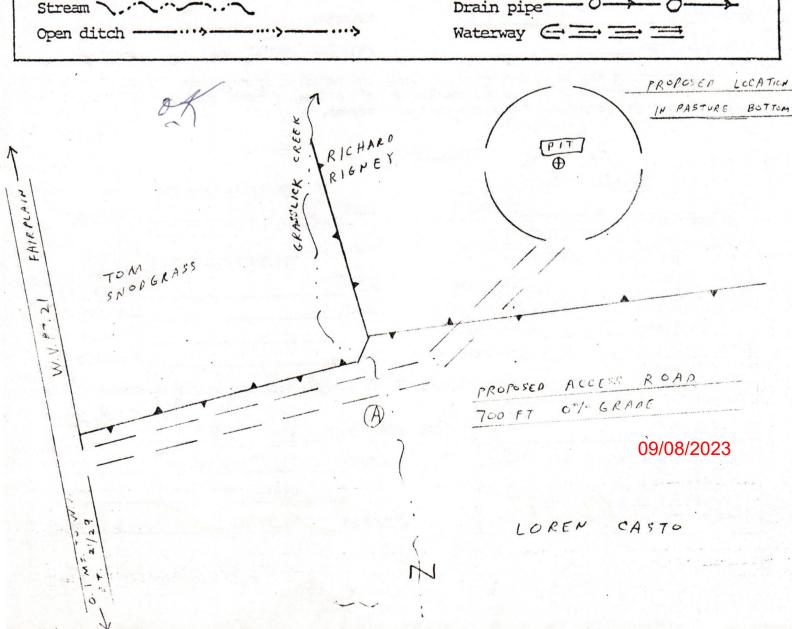
ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANCIE KENNA

Well Site Access Road

Common Co

ketch 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.





FILE COPY



1)	Date:	January	31	, 19 84
2)	Operator's	uronia my		

Well No. KEM #30 1

3) API Well No. 47 - 0.35 - 1.796 - REN
State County Permit

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

RENEW

			APPLIC	ATION FOR A WELL W	ORK PERMI	<u>r</u>	
4) WELL TY	PE: A C	Oil W. a.	/ GasX/	OFFICHE (IF ANY)	AND COM	DITICATIONS	PERMIT MO
	В (If "Gas",	Production X	/ Underground stora	ge	/ Deep	_/ Shallow/)
5) LOCATIO			704'				
				County: J			
	PERATOR	Kaiser	Exploration &	Mining Co. 7)			Pryce
Addres	SS		Box 8 swood, WV 2616	1	Address	Same	
0) 011 0 0	- C INIGREC						
	Homer		BE NOTIFIED			ONTRACTOR: lint Hurt	
Addres	1	inden F	Rt., Box 3A		Address	P. 0. Box	388 000000
radics			ille, WV	FREAT	Address	Elkview.	WIGGETA L
0) PROPOSI			,,	ill deeper/	Dedrill		NID.
o) TROTOS	LD WELL	WORK.		on/ Perforate r			-50 2 3 1084
				in well (specify)			FEB 2 3 1984
1) GEOLOG	ICAL TAR	GET FOR		an Brown Shale		AND THE RESIDENCE OF THE PROPERTY OF THE PARTY OF THE PAR	OIL & GAS DIVISIO
			ted well, 485				OIL of GIR
				feet; salt,		feet.	EPT. OF MIN
				Is coal bei		e area? Yes	/ No
5) CASING							
CASING OR	1	SPEC	CIFICATIONS	FOOTAGE INTER	VALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft. New Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor							Kinds
resh water	10 3/	4"	X	250'	250'	150 sks clas	s A to surface
Coal							
ntermediate	7"		X	2240'	2240 '	650sks 50/50	s A
Production	4 1/	2"	X	4850'	4850'	225 sks 50/	O eppozmix
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	oto()				2,145		
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				OFFICE USE ONL			
				DRILLING PERMI	11		ell work started
ermit number_	47	-035-1	796-REN			March 1,	19 84
						Dat	elikih adeto podalgino
his permit cov	ering the w	ell operato	or and well location show	n below is evidence of per	rmission grant	ed to drill in accordan	ce with the pertinent legal re
No. 8) Prior to	the constru	onditions c	contained herein and on t	he reverse hereof. Notific	ation must be	given to the District O	il and Gas Inspector, (Refer the tractor shall notify the prope
			s before actual permitted		iddition, the w	en operator or his con	ractor shall nothly the prope
he permitted w	ork is as de	escribed in	the Notice and Applicati	ion, plat, and reclamation	plan subject t	o any modifications as	nd conditions specified on the
everse hereof.				7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	pian, subject i	o any mounteations as	ia conditions specifica on the
ermit expires	Ma	rch 1,	1986	unless well work	is commenced	prior to that date and	prosecuted with due diligence
	Market St.	/	100				THER INSPECTIONS
		t:// F	Plat: Casing	Fee			
Bond:	Agen						
	Agen	1 1	n// m/1 5	966 -			Reason
BOND:	Agen	on	74 m/s		-	700	Reason

FORM IV-2(B) Reverse

County

Permit

FILE COPY

State

2) Operator's

3) API Well No. 47



	PIL	OFF	ICE USE ONLY		g A				
PERMIT MO	DIFICATIONS	AND CONDI	ΓΙΟΝS (IF ANY)	тот	UE DD	ODOSED.	WEIG	WODI	ער ניקער
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			feet; salt,_						
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	(Cubic feet)	Left in well	For drilling	Used	W5V	e per It.	Grad	Size	
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is and a Cit		OFFI	CE USE ONLY						gri
Perforations		0111	CE COE OTTET						87
his part of Form IV-2() is to record the	e dates of certa	in occurrences ar	nd any	follow-	un inspect	ions		
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		Date						Date(s	3)
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Application received			Follow-up	inspec	tion(s)				er er er er er er
			DEFICE USE OF)					
Well work started		1.11V	DRILLING PER		,,				
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Completion of the drilling									
ce with the pertinent zeaoord	to drill in accordan	permission grantec	below is evidence of	nworls a	Il location	ator and we	well oper	ang the	permit cove
Well Record received	Vog 16 che Di unet O. L'operator or his con	riceline mest be el n addition the wel	reverse hercol. Not	on the	herein an	is confained	e condition	ni 01 10:	ements subju
Vell Record received	mos em 10 jossisijo i	(11.5/11.000 11	ork has commenced.)	mitted w	ctual per	urs before a	ctor 24 ho	as inspe	ict oil and g
Reclamation completed	any modifications ar	on plan, subject to	n. plat. and reclamati	plication	a A bns so	in the Notic	described	ork is as	permitted w
									rse hereof.
prosecuted with due diligence.	orior to that date and	ork is commenced p	unless well w			(40 CB) . 1	0.10158		nit expires
THER INSPECTIONS						-			7
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			Fee		Casing	Platt	United	IA.	:bno
Reason:			599	B. J	Casing	Plat:	hing	gA.	TINMA

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

Administrator, Office of Oil and Gas

The state of the s

1) Date: January 31

2) Operator's

Well No.

Address

KEM #301

3) API Well No. 1796-Ken State County Permit

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

RENEW

(i)	Name Richard E. Rigney	5(i)	COAL OPERATOR None Address
	Address 838 Hughes Drive St. Albans, WV 25177 Name Address	5 (ii)	COAL OWNER(S) WITH DECLARATION ON RECORD Name None Address
	Name		Name Address
			COAL LESSEE WITH DECLARATION ON RECORD: Name None

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and

(3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Applicate and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

FEB 2 3 1984 OIL & GAS DIVISION

DEPT. OF MINES

6) - EXTRACTION RIGHTS

Check and provide one of the following:

County,

☐ Included is the lease or leases or other continuing contract or contracts by which

I hold the right to extract oil or gas.

The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contracts or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

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 Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by R. A. Pryce this day of 1984 elmari My commission expires 8/30 1993

Notary Public, Jackson

State of West Virginia

,	•	
		_

OPERATOR Kaiser Exploration and Mining Company

By Z	A.P	~-		
Its	General	Manager	ode.	
Addres	s P. O.	Box 8		
	Ravens	swood, WV	26164	
Teleph	one 304	273 5371		

09/08/2023

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 § 22-4-8a 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, 22-4-2a, 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 Book Page
Hoy Casto	Kaiser Exploration and Mining Company	1/8 of prevailing 156/619 field price

SURFACE OWNER'S COPY



1)	Date:	anuary '	37	, 19
2)	Operator's Well No.	EM #301		
3)	API Well No.	47	025	170%
-,		State	County	Permit

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

RENEW

				A	FLICAT	ION FUR A WELL	WORK I ERWIN	•	
4) WELL TY	B (I	f "Gas", F	roduction	1	Χ	_/ Underground st	orage	/ Deep	_/ Shallow/)
5) LOCATIO	N: Ele	vation:	Pin	104			Grasslick		Konna
6) WELL OP									Fryce
Address		P. O. Ravensi	Box B				Address	Same	
8) OIL & GA	Homer	Dough	ertv				O) DRILLING C Name	lint "urt	200
Address	Lo	nden R oneyvi	lle, k	V JA			Address	Elkview,	
0) PROPOSE	CAL TAR	GET FOR!	Plug of Other p	f old f hysical De	change in	well (specify)	te new formation		RECEIVED
			- 1			feet; salt,	I being mined in th	feet.	FEB 2 3 1984
14) Appro	ximate coa	l seam depl	ths:			Is coa	i being mined in th	le alea? Tes	DEPT. OF MINES
5) CASING	IND TOBI		JKAIVI IFICATION	2	н	FOOTAGE IN	TERVALS	11 CEMENT FILL-UP	PEPI. OF IVIII
CASING OR TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water	10 3/	† #5		X		250'	250'	150 sks clas	s A to surface
Coal		12.17						155 eke 50/5	Sizes
Intermediate	7"			X		2240'	2240'	100 SKs 618	
Production	4 1/	2 19		X		4850'	4850'	225 sks 50/	Depths let 1 X
Tubing									
Liners									Perforations:
	-			- 14				-	Top Bottom
	1		L	<u> </u>					

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:	XPE Rigney	Date: 2-17-84
Ву	(Signature)	
ItsDate_	(Signature)	Date:

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

COUNTY OF West Va :
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of— (1) Notice on Form IV-2(A) X / Form IV-3(A) / Form IV-4(A) / (2) Application on Form IV-2(B) X / Form IV-3(B) / Form IV-4(B) / (3) Plat snowing the well location on Form IV-0, and (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well) all with respect to operator's Well No. KEM 301 located in Pipley District, Jackson County, West Virginia, upon the person or organization nameg
병이 존심을 보고 하는 사람들은 이 사람들은 이번 중에 되는 사람들이 되는 사람들이 되었다. 그리고 그리고 하는 사람들은 아내를 다른 바다를 다
by delivering the same in fackson County, State of west value on the 17 day of 7cb , 19 84 in the manner specified below.
- [COMPLETE THE APPROPRIATE SECTION]
For an individual: [X] Handing it to him X / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
[] Handing it to a member of his or her family above the age of 16 years who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.
For a limited partnership: [] Handing it to the general partner, named
FEB 2 3 1984 FEB 2 3 1984 FEB 2 3 1984 Corporation's employee / officer / director / named (Signature of person executing service)
Taken, subscribed and sworn before me this 21 day of 46. My commission expires OCT 28, 1993 Stephen W Kelly
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE) Notary Public Commission Ex 09/08/2023



IV-35 (Rev 8-81)

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OIL & GAS DIVISION

DEPT. OF MINES

State of Mest Wirginia

Bepartment of Mines Bil und Gas Bivision

Date	March 27, 1985
Opera	tor's
Well	No. KEM #301
Farm	* Hoy Casto
API N	6. 47 - 035 - 1796

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

	Elevation:_	704'	Watershed	Grasslick	Creek		
	District:	Ripley	County	Jackson	_Quadrangl	e Kenna	
COMPANY Kais	ser Explorati	ion and Mi	ning Company	/	8.7	714 2 3 3 3 3 3	
	0. Box 8, Ra			-	Used in	Left	Cement
DESIGNATED	AGENT R. A	A. Pryce		Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS Sa	ame			Size			A1144
SURFACE OWN	ER Richard	E. Rigney		20-16 Cond			ON A
ADDRESS8	338 Hughes Dr	rive, St.	Albans, WV	25177 10 37	4 (21.14)	621140	200
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	INSPECTOR I				21.00.140	0100145	300sks po: 100 sks c
Tephabock	ADDRESS R	Rt. 1, Rip	ley, WV 252	71 5 1/2	2129'KB	2129 KB	
PERMIT ISSU	ED 3/18	4			417CUVD	4176145	005
DRILLING CO	MMENCED 10	0/05/84		4 1/2	4176'KB	41/6'KB	225 sks pc
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REWORKING.	VERBAL PER	AISSION OF	STAINED	useđ			
ON					Dom		51
ON	TARGET FORM	ATION Dev	vonian Brown	Shale			106 feet
GEOLOGICAL Depth	TARGET FORM	ATION Dev	vonian Brown 734' fe e	Shale t Rotary X	/ Cable	e Tools_	106 feet
GEOLOGICAL Depth Water	TARGET FORM of completed strata depth	ATION Dev	vonian Brown 734' fe e	Shale t Rotary X	/ Cable	e Tools_	
GEOLOGICAL Depth Water Coal s	TARGET FORM of completed strata depth seam depths:	ATION Dev	vonian Brown 734' fe e	Shale t Rotary X t; Salt N/	/ Cable Afeet being mine	e Tools_	
GEOLOGICAL Depth Water Coal s	TARGET FORMATA of completed strata depth seam depths:	ATION Development	vonian Brown 734' fee N/A fee	Shale t Rotary x t; Salt N/ Is coal Drilled	/ Cable A feet being mine on fluid-n	ed in the	area? No
GEOLOGICAL Depth Water Coal s	TARGET FORMATA of completed strata depth seam depths:	ATION Development	vonian Brown 734' fee N/A fee	Shale t Rotary x t; Salt N/ Is coal Drilled	/ Cable A feet being mine on fluid-n	ed in the	area? No
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Depth Water Coal s DPEN FLOW D Produc Gas: Static	TARGET FORMATA of completed strata depth seam depths: ATA sing formatic Initial open Final open f Time of rock pressu	ATION Development of the multi	vonian Brown 734' fee N/A fee ian Brown Sh Mcf/ it) 800 Mrf/ w between i commingled psig(sur	Shale It Rotary X It; Salt N/ Is coal Drilled ale Pa d Oil: In agled Fi nitial and fi face measure ion)	/ Cable A feet being mine on fluid-n y zone deprintial open nal open final tests ment) after	ed in the ot known th 3940'/4 flow 0 low 0 hour 109/08	area? No 106' feet Bbl/d Bbl/d Bbl/d rs rs shut in
Depth Water Coal s DPEN FLOW D Produc Gas: Static (If ap	TARGET FORMATA of completed strata depth seam depths: ATA sing formatic Initial open Final open f Time of rock pressu plicable due producing f	ATION Development of the multi-	vonian Brown 734' fee N/A fee ian Brown Sh Mcf/ it) 800 Mrf/ w between i commingled psig(sur	Shale It Rotary X It; Salt N/ Is coal Drilled ale Pa d Oil: In gled Fi nitial and f face measure ion) dstone Pa	/ Cable A feet being mine on fluid-n y zone deprintial open nal open final tests ment) after	ed in the ot known th 3940'/4 flow 0 low 0 hour 109/08 h 2356/2	area? No 106' feet Bbl/d Bbl/d Bbl/d irs rs shut in 3/2023
Depth Water Coal s Depth FLOW D Produc Gas: Static (If ap Second Gas:	TARGET FORMS of completed strata depth seam depths: ATA sing formation Initial open Final open formation Time of rock pressur plicable due producing formatial open	ATION Devening flow 0 Flow (estimated to multiflow flow) The state of the flow of the flow flow flow flow flow flow flow flow	vonian Brown 734' fee N/A fee ian Brown Sh Mcf/ it) 800° Mcf/ w between i commingled psig(sur ple complet Berea Sano 0 Mcf/	Shale It Rotary X It; Salt N/ Is coal Drilled ale Pa d Oil: In geled Fi nitial and f face measure ion) dstone Pa d Oil: In	A feet being mine on fluid-n y zone deprintial open inal open final tests ment) after y zone deprintial open	ed in the ot known th 3940'/4 flow 0 low 0 4 hour 0 109/08 th 2356/2 flow 0	area? No 106' feet Bbl/d Bbl/d Bbl/d ars s shut in 3/2023 366 feet Bbl/d
GEOLOGICAL Depth Water Coal s OPEN FLOW D Produc Gas: Static (If ap Second Gas:	TARGET FORMS of completed strata depth seam depths: ATA sing formation Initial open Final open for rock pressur plicable due producing formation Initial open Final open for	ATION Devening flow (est) The property of the	vonian Brown 734' fee N/A fee ian Brown Sh Mcf/ it) 800 Mcf/ w between i commingled psig(sur ple complet Berea Sand 0 Mcf/ 800 Commingled	Shale It Rotary X It; Salt N/ Is coal Drilled ale Pa d Oil: In geled Fi nitial and f face measure ion) dstone Pa d Oil: In	feet A feet being mine on fluid-n y zone dependential open inal open final tests ment) after y zone dependential open inal open final tests ment) after y zone dependential open inal open final open	ed in the ot known th 3940'/4 flow 0 low 0 2356/2 flow 0 low 0	area? No 106' feet Bbl/d Bbl/d ars s shut in 3/2023 2366 feet Bbl/d Bbl/d

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

10/15/84 - Young's Wireline perforated the Brown Shale from 3940' to 4106' with 20 holes (0.39") diameter

11/15/84 - Nowsco foam frac'd the Brown Shale. Treating pressure: 2350 psig; used: 60,000# of 20/40 sand; 774 mscf total nitrogen; total sand ladened fluid: 250 bbls; total fluid: 280 bbl; ISIP: 1600 psig; 5 minute SIP: 1200 psig.

2/05/85 - Young's Wireline perforated the Berea from 2356' to 2366' with 30 holes (0.34").

3/20/85 - Nowsco foam frac'd the Berea. Treating pressure: 2100 psig; used: 45,000# of 20/40 sand; 15,000# of 10/20 sand; 750 mscf of nitrogen; total sand ladened fluid: 228 bbl; total fluid: 310 bbl; ISIP: 1700 psig; 5-min SIP: 1570 psig.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free
FORMATION COLDER HARD ON SOFT	TOP TIEST	201101122	and salt water, coal, oil and ga
Shale and Siltstone Sand Shale and Siltstone Sand Shale and Siltstone Sand Sand and Shale Shale and Siltstone Salt Sands Big Lime Big Injun Sand Shale Coffee Shale Berea Sand Shale Brown Shale Shale Total Depth	0 53 113 475 551 965 1043 1335 1510 1620 1918 1971 2338 2359 2370 3940 4106 4324	53 113 475 551 965 1043 1335 1510 1617 1918 1971 2338 2359 2370 3940 4106 4234	
Column Column			
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sale to the first of the sale and the			

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: 09/08/2023

Date: March 27, 1985

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 weal, encountered in the drilling of a well."

Tribated the

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 035 179	96_				r Gas Well	
Company <u>Kaise</u>	er Exploration	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACK	(ERS
Address		Size				
Farm	casto	16			Kind of Pac	ker
Well No	Kem 3101	13			Size of	
District	County Jackson	81/4			Size of	
Drilling commenced1	0 3 84	6%			Depth set	
Drilling completed	Total depth	5 3/16			2	
Date shot	Depth of shot	2			Perf. top Perf. bottom	
Initial open flow	/10ths Water inInch	Liners Used		Marie de la Companya de la Marie de La Companya de	Perf. top	
Open flow after tubing	/10ths Merc. inInch				Perf. bottom	1
Volume	Cu. Ft.	CASING CEMEN	NTED	_SIZE	No. FT	Dat
lock pressure	lbshrs.	NAME OF SER	VICE COMPA	NY		
)il	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHE
	feetfeet	FEET_	INCH	ES	FEET	INCHE
Salt water	feetfeet	FEET_	INCH	ES	FEET	INCHE
Orillers' Names						
Remarks:	/					
	,					

10 3 84 Hurt Rig #6

Moving rig on and starting to spud well.

Juga 10910812023

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY		ADDRESS						
FARM		DISTRICT.	and the second s	COUNTY		A Second		
Filling Material Used	La Cal							
Liner Loc	eation	Amount	Packer	Location				
	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST		
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accompany of the latest	en e							
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						Martin de qui pipe de l'accessorate de		
rillers' Names	3 7.7							
emarks:			and the second second second second second	orition and the second second				

I hereby certify I visited the above well on this date.

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL	8.	GAS	DIVISION
EP	T	OF	MINES

(KIND)

Permit No. 035 1796

Company Kaiser Ex	ploration	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKE	ERS
Address		Size				
Casto		16		Production of the Community of the Commu	Kind of Pack	er
	em 301	13			Size of	V-31-1
District		81/4				
Drilling commenced10	2 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 Perf. bottom	
Open flow after tubing	/10ths Merc. inInch					
Volume	Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure	_lbshrs.	NAME OF SER	RVICE COMP	ANY		
Oil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERE	AT	FEET	INCHES
Fresh water	_feetfeet	FEET.	INC	HES	FEET	INCHES
Salt water	feetfeet	FEET	INC	HES	_FEET	INCHES

Drillers' Names.

Hurt Rig #6 Ferrabee

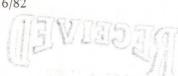
Remarks:

- 10 3 84 ran 103/4 csg set 631 kb cement 300 sks neat 3% cacl 1/4 lb per sk flocele. plug down 3:30 pm 10 4 84.
- 10 7 84 Ran 7'' csg set 2129' cement 300 sks 50/50 poz 10 % salt and 100 sks neat 1/4 lb per sk flocele plug down 4 :30 pm 10 7 84.
- 10 9 84 drilling 61/2 hole at 3836. 10 9 84

Just 100/08/2023
DISTRICT WELL INSPECTOR

DATE

Form 26 2/16/82



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.	and the same of th						
COMPANY			ADDRESS	- 1	71 TX	est saint	
	2,30.81 (5:34)		Report .	×25			
Filling Material Used					and a second second second		
Liner Loc	cation	Amou	int Packer	Loc	ation		
PLUGS USED A	PLUGS USED AND DEPTH PLACED		BRIDGES	CASING	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
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Copple solutions				18 8 01			
			man and the light of the second second section of the light of the light of the second section of the light of the second section of the light of the second section of the light of the light of the second section of the light of the section of the light of the second section of the light of the second section of the light of the section of the light of th	· · · · · · · · · · · · · · · · · · ·		TAN SEE TAINELLE SE	
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State Commission of the State	3512					ASSESSED TO 152 O	
and the second	A PARK STREET				or who were the second	property Proj	
		MOODAS E	Walled Dark and selection				
Drillers' Names	Zaroni.		1 200			e com steel	
				Value of the second			
Remarks:	ST MINISTER BEING STATES AND STATES AND STATES				the second section of the second	Manager Manager	
		Control of the Contro					
						#2125832	
awa Ool Ong dia		243	16013 3	00 300 111			
DATE	I hereby certify I vi	sited the above v	well on this date.	1/1 20 30			
DATE			. The state of our	5\10 m2			
			DIS	STRICT WELL INS	1970B	/2023	

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT



OIL & GAS DIVISION
DEPT. of MINES

by Romid

Permit No. Company / a Inspector Date	TOTAL .	County Farm	54ck Casto Ken		
				IN COMP	
RULE	DESCRIPTION	agen and the filter and an extra section of the public and the executive plants and	AND STREET AND CONTRACTOR STREET ON A STREET CONTRACTOR OF THE	Yes	No
23.06	Notification Prior to starting Wor	ric		estupinadeciational group	-
25.04	Prepared before Drilling to preven	t waste		empression delication in	***************************************
25.03	High-Pressure Drilling			*Nonespirality/170040000000	-
16.01	Required Permits at wellsite			- mention of the state of the s	
15.03	Adequate Fresh Water Casing				
15.02	Adequate Coal Casing				
15.01	Adequate Production Casing			-	
15.04	Adequate Cement Strength			-	-
23.02	Maintained Access Roads				-
25.01	Necessary Equipment to prevent Was	te		-	
23.03	Reclaimed Drilling Site			-	
23.04	Reclaimed Drilling Pits				
23.05	No surface or underground Pollution	n		-	-
7.03	Identification Markings			-	-
COMMENTS:	Jat duelled ox to a	ancell	-		
					-

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

	1	200
SIGNED:_	Juny 2 / uph	laborh
DATE:	12-20 83.	UC



DEPT. OF MINES





State of West Virginia Bepartment of Mines (Dil and Gas Bivision (Charleston 25305

WALTER N. MILLER DIRECTOR

December 29, 1983

In Re:

PERMIT NO:

THEODORE M. STREIT ADMINISTRATOR

Kaiser Exploration & Mining Company P. O. Box 8
Ravenswood, West Virginia 26164

		FARM: Hov E.	Casto
		WELL NO:	KEM-301
		DISTRICT:	Ripley
		COUNTYJackso	n
Gentlem	en:		
Th his of	e FINAL INSPECTION REPORT for the above describing. Only the column check below applies:	ibed well has	been received in
XXXXX	The well designated by the above permit numb Blanket Bond. (Permit Cancelled - never drill	er has been re	leased under your
	Please return the enclosed cancelled single designated by the above permit number to the said bond in your behalf, in order that they records.	CIIMARY COM	- 1
	Your well record was received and reclamation accordance with Chapter 22, Article 4, Secta will remain under bond coverage for life of	on 2 the charm	approved. In captioned well

Very truly yours,

Theodore M. Streit, Administrator Office of Oil & Gas-Dept. Mines

STATE OF WEST VIRGINIA
DEPARTMENT OF MIMES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



OIL & GAS DIVISION

DEPT. of MINES

Commanu: KAISER EXP % HIN, CO Farm: RIGHEY, RICHARD E. Well: KEM-301 Permit No. 4

Permit No. 47- 35-1796 County Jackson

Rule In Compliance Description 23,05 Notification prior to starting work 25.04 Proposed before drilling to prevent waste 25.03 High pressure drilling 16:01 Required permits at wellsite 15.03 Adequate Fresh Water Casins 15.02 Adequate Coal Casing 15.01 Adequate Production Casing 15.04 Adequate Cement Strength 15,05 Cement Ture 23.02 Maintained Access Roads 25:01 Necessary Equipment to Prevent Waste 23.04 Reclaimed Brilling Pits 23.05 No Surface or Underground Pollution 23.07 Requirements for Production & Gathering Pirelines 15.01 Well Records on Site 16.02 Well Records Filed 7,05 Identification Markings

. . E INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGHED (

DATE 6/285

our well record was received and reclamation requirements approved. In accordance ith Charter 22: Article 4: Section 2: the above well will remain under bond oversee for the life of the well.

Administrator

June 19, 1985

Date

TMS/nw

