#### **FILE COPY**



1)	Date:	August	26,	, 19_83
2)	Operator's	S VEN	71205	ORM IV-2(B)

2) Operator's Well No. KEM #325

3) API Well No. 47 - 035 - 1903
State County Permit

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

					Al	PLICATI	ON FOR A WE	LL WORK PERMIT		
	WELLTY	DE. A O	alconic co	/ Co	, )	(	ALC ATTENDED	TELCHACY CINA	DELETCA WONE	ANA TIKA GIJO
4)	WELLITI									_/ ShallowX/)
<i>5</i> )	LOCATIO		vation:					Stonelick		_/ Shallow/)
3)	LOCATIO								Quadrangle:	Kenna
									DAGENT R. A.	
6)					mac	on and	i mining co			Fryce
	Address	-		Box 8	LIV	2616	1	Address	Same	
		-		swood,	The state of the s	26164	<u> </u>			
8)	OIL & GAS				IED			9) DRILLING C		
	Name Ho							NameU	lint Hurt	0.0
	Address			Linden				Address	P. O. Box 3	
		Loc	oneyvi	11e, WV					Elkview, WV	
10)	PROPOSE	D WELL	WORK:	Drill	(	/ Drill	deeper	/ Redrill	/ Stimulate	
				Plug off	old f	ormation_	/ Perfo	rate new formation		
							well (specify)			
11)	GEOLOGI	CALTAR	GET FOR			AND THE RESERVE OF THE PARTY OF	Brown Sha			
,	12) Estima						fee			
							STATE OF THE PARTY OF	t,	feet	
									e area? Yes	/ No
16							18 C	oai being mineu in th	carca: 1es	/ No/
,	CASING A	"								0
	ASING OR UBING TYPE		SPEC	Weight			FOOTAGE	INTERVALS	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Con	ductor									Kinds
Fres	sh water	10 3/4	."		X	17	300 250	300 250	150 sks clas	s A to surface
Coal	ıl								100 -11-	Sizes
Inte	rmediate	7	Charles 1724 or South		Χ		2350	2350	100 sks 509	Dozmix
Proc	duction	4 1/2	11		Χ		5197	5197	225 sks 50/	
Tubi							V 160 320	DIRAG	1 2 3 110 3 17	
Line										Perforations:
Line					100					CAS THE RESERVE
			200000	COLUMN TO STATE OF THE STATE OF	Well field	ans ba	R-260 F13 T19 3 X 62	TENERS OF SHEET	**************************************	Top Bottom
	(2	ets()						1 1 1 1 1 1 1		
					1	<del>oogani j</del>	EFFER TIEF	011111		<u> </u>
							FFICE USE	ONLY		
								TINE CUTT		
		STATE OF THE STATE			Ţ,		RILLING PI	ERMIT		
Darr	mit number			47-	-035	D		ERMIT	Octob	er 6. 19.83
Pern	mit number_			47-	-035			ERMIT		per 6, 19 83
		ring the w	ell operato	4,75,44	400	-1903	PRILLING PI	- 1. <u>- 1</u>	Dat	e 19 83
This	s permit cove	The state of the s	The state of the s	or and well	locatio	1903 on shown b	PRILLING PI	of permission grant	Dat ed to drill in accordan	er 6, 19 83 e with the pertinent legal re-
This quir	s permit cove rements subje	ct to the co	onditions of ro	or and well contained h	location	-1903 on shown to the lipits for a	pelow is evidence reverse hereof. No	of permission grant otification must be k. In addition, the w	Dat ed to drill in accordan given to the District Oil	e 19 83
This quir	s permit cove rements subje	ct to the co	onditions of ro	or and well contained h	location	-1903 on shown to the lipits for a	PRILLING PI below is evidence reverse hereof.	of permission grant otification must be k. In addition, the w	Dat ed to drill in accordan given to the District Oil	ce with the pertinent legal reland Gas Inspector, (Refer to
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This quir No. district The reverse Perr	s permit cove rements subje . 8) Prior to the rict oil and gas expermitted was erse hereof. mit expires	ct to the co he construct as inspecto ork is as de	onditions of root 24 hours	or and well contained h pads, location s before act the Notice	location and and trush per and A	on shown beind on the pits for a rmitted we application 1985	pelow is evidence reverse hereof. No ny permitted wor ork has commence , plat, and reclan unless we	of permission grant totification must be particle. In addition, the weed.)	Dat ed to drill in accordan given to the District Oil vell operator or his con to any modifications an	ce with the pertinent legal re-
This quir No. district The reverse Perr	s permit cove rements subje . 8) Prior to the rict oil and gas expermitted was erse hereof.	ct to the construction to the construction as inspecto	onditions of root 24 hours	or and well contained h pads, location s before act the Notice	location and and and and and and and and and an	on shown to and on the lipits for a rmitted we application 1985	pelow is evidence reverse hereof. No ny permitted wor ork has commence , plat, and reclan	of permission grant totification must be particle. In addition, the weed.)	Dat ed to drill in accordan given to the District Oil vell operator or his con to any modifications an	ce with the pertinent legal reland Gas Inspector, (Refer to tractor shall notify the proper and conditions specified on the prosecuted with due diligence.

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

File

Administrator, Office of Oil and Gas

Reason:



	40	OFFIC	CE USE ONLY		911G				
PERMIT M	ODIFICATIONS	AND CONDIT	IONS (IF ANY	то тн	IE PI	ROPOSI	ED WE	II WOI	OKT LIAW (
	La Deep		i bnueigtebaU \_						CK.
	neek	Stone Tex	Watershedt				:goits		LOCATION
	Quadrangle: K								
Pryce	ACENT R. A.	OP ROBBINS ATE	d Wining Co	na noi		[exal	(ajse)	RATOR	) WELLOPE
									Address Address
		S) DRIEFING CO							OH & GAS
		Name							Namer 10
	W. wiev. W.	Address						XOu_	Address
		Redull						A TITAL	PROPOSEE
			i well (specify) a Brown Site				inea m	N. S.	
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PACKERS	I committee I	RIAVRITA	FOOTKGER			ELC A CHONS			ASING ON
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	Lado ala otal	18 ME	## GOS					10 8/4	no goraliv de
89468	Mr. L. Bar								ia i
ximscall								T	
X TOTAL CARROLL	\$225 skg 507	5157	2619					1/1 0	
		OFFIC	E USE ONLY						8110
Perforations:									ers
his part of Form IV-2	(b) is to record the	dates of certain	occurrences ar	nd any fo	ollow	-up insp	ections		
									l
	1	Date						Date	e(s)
pplication received			Follow-up	inspecti	ion(s)				-
		TIME	DRILLING PE						
Vell work started		1 1802	La S Car Acamarac	,					
E 01 1 1111	200000								
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with the periment 82900	d to doll in accordance								
ell Record received	d operator or his contr								
ch Record received				w ballinna		before ac		inspector	as bus to bir
eclamation completed	o any modifications and	tion plan, subject t	n, plat, and rectange	*pplication	, bna			rk is as des	e permitted wo
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THER INSPECTION	S								
			501	1 94		اهلاريان	9		Bonde
Reason:			The state of the s						

See the reverse side of the APPLICANT'S COPY for instructions to the well operator,

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



1)	Date:	NII P de	96	, 19
2)	Operator's	Just	20,	03
2)	Well NoAPI Well No.	47	#325	
3)	All well ito.	State	County	1 On Permit

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

4) WELL TYP			/ Gas	ASSOCIATION IN COMPANY		_/ Underground	storage	/ Deep	/ Shallow/)
5) LOCATION		vation: _	047		,	Watershed: _	Stonelick (	rael Quadrangle:	Α
		trict:	Halay			County:			enna
6) WELL OPI	ERATOR_	Katen	· Funla	190 D T 1	An and	Mining Co	7) DESIGNATED	AULIVI	Pryce
Address		DA	BAY R	rati	IVII GIIL	a mining we	mpanyAddress	Same	rryce
		Dayano	wood	w	26164				
8) OIL & GAS		TOR TO	BE NOTIF	IED	2010		9) DRILLING CO		
Address	omer Do	ugner	CY .				Address	int Hurt	0
	BOX	3A, 1	.inden	Rt.				P. O. Box 38	8
10) PROPOSE	D WELL	WORK:	Drill		/ Drill	deeper	/ Redrill	/ Stimulate	
io, i koi ose	D WEEL			old f	formation_	/ Perfo	rate new formation		
						well (specify)			
11) GEOLOGI	CAL TAR	GET FOR							
12) Estima				De	Annual Control of the Control	Brown She	le		
13) Appro					5197	feet; sal	t,	feet.	
14) Appro						Is co	oal being mined in the	e area? Yes	/ No/
15) CASING A									
	II I I I I I I I I I I I I I I I I I I		CIFICATIONS		11	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
CASING OR TUBING TYPE		1	Weight		1		Left in well	OR SACKS (Cubic feet)	
	Size	Grade	per ft.	New	Used	For drilling	Left in wen	(Cable 100)	Kinds
Conductor									
Fresh water	10 3/4	段		X		250	3m 250	150 sks clas	Sizes to surface
Coal									Sizes
Intermediate	7			X		2350	2350	100 sks slas	Depths set X
Production	4 1/2	69		X		E307	5197	225 sks 50/5	Dozmix
Tubing						3137	2137		Perforations:
Liners									Top Bottom
									Top Bettern
	1								
			INS	TRUC	TIONS TO	O COAL OPERA	TOR, OWNER, OR	LESSEE	
	The	named cor	l operator	coal	owner(s) a	and coal lessee are	hereby notified that	any objection they wis	h to make or
	are requir	ed to mak	e by Code	§22-4-3	3 must be f	filed with the Depa	artment of Mines with	hin fifteen (15) days aft	er the receipt
	of this A	pplication	by the De	partme	nt.				
					the Paris of			Octobe	
								coal owner or coal less	
			recorded a he filing of				if the permit is to be	issued within fifteen (1	13)
		days of t	ne ming o	the A	ррпсаноп				
						WAIVE	₹		
The undersign	and coal on	erator			/ owner		/ lessee	/ of the co	oal under this well location has
examined this p	roposed we	ell location	If a mine	map e	xists which	covers the area of	of the well location, the	he well location has bee	en added to the mine map. The
undersigned has	no objecti	on to the	work prop	osed to	be done a	t this location, pr	ovided, the well oper	ator has complied with	all applicable requirements of
the West Virgin									
								1 1/ 1	
	11		all a	W.		108			
							D	56 16 16 16	
Date:			, 1	9		-	LE CELLE	ALL THE	
							Its		

State of West Virginia

1) Date: August 26 ,1983 2) Operator's

Well No. KEM #325

3) API Well No. 47
State County Permit

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

	NOTICE OF APPLICATION	FOR A WELL WORK PERMIT
4) SURFACE OW	NER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR None
(i) Name De	elton Randolph	Address
Address		5(ii) COAL OWNER(S) WITH DECLARATION ON RECOP
(11) Name Ar	nna Gail Canterbury	Name None Address
Address	•	
(iii) Name		Name
Address		Address
		5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
		Name None Address
		1.444.655
		i 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
	and describes the well and its	ne parties involved in the drilling or other work, location and, if applicable, the proposed casing and
	cementing program;	
	(2) The plat (surveyor's map) showi	ng the well location on Form IV-6; and no Plan on Form IV-9 )unless the well work is only to
	plug a well), which sets out the	e plan for erosion and sediment control and for
	reclamation for the site and ac	tess road.
	THE REASON YOU RECEIVED THESE DOCUM	INTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION
	WHICH ARE SUMMARIZED IN THE "INSTRUCTION	S" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION
	(FORM IV-2(B) OR FORM 4, DESIGNATED FOR ACTION AT ALL.	OU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY
		the West Virginia Code, the undersigned well op-
	erator proposes to file or has filed this	Notice and Application and accompanying documents
	for a Well Work Permit with the Administ	rator of the Office of Oil and Gas. West Virginia
	Department of Mines, with respect to a w	all at the location described on attached Application
	Construction and Reclamation Plan have by	les of this Notice, the Application, the plat, and the sen 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.
	6) EXTRACTION RIGHTS	
	Check and provide one of the following	
	☐ Included is the lease or leases or	other continuing contract or contracts by which
	I hold the right to extract oil The requirement of Code 22-4-1-(c)	or gas. 1) through (4). (See reverse side for specifics.)
		-/
	7) ROYALTY PROVISIONS  Is the right to extract, produce or ma	rket the oil or gas based upon a lease or leases
	or other contract or contracts providi	ng for flat well royalty or any similar provision
	for compensation to the owner of the or to the volume of oil or gas so extract	l or gas in place which is not inherently related
	If the answer above is No, not you may use Affidavit Form IV-60.	hing additional is needed. If the answer is Yes,
	See the reverse side for line its	m instructions, and for instructions concerning
	the required copies of the Notice Reclamation Plan.	and Application, plat, and Construction and
The tempth of		· · · ·
	the information on the	WELL
	Application is verified	OPERATOR Kaiser Exploration and Mining Compan
	and the Notice is	- 17 A D -
	ehalf of the Well Operator	By 12. 04. 11.
	and State by	Its <u>General Manager</u>
R. A. Pryc		Address P. O. Box 8
this 30 day of		Ravenswood, WV 26164
My commis	ssion expires $12/01$ , $1985$ .	Telephone 304 273 5371
hit	Rann Holbert	00/00/0000
Notary Pu	ublic, Jackson County,	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-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—

- 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 P	age
Ronald Lee Randolph et al	Kaiser Exploration and Mining Company	1/8 of prevailing field price	173/339

IV-9 (Rev 8-81)



August 22, 1983 WELL NO. KEM #325

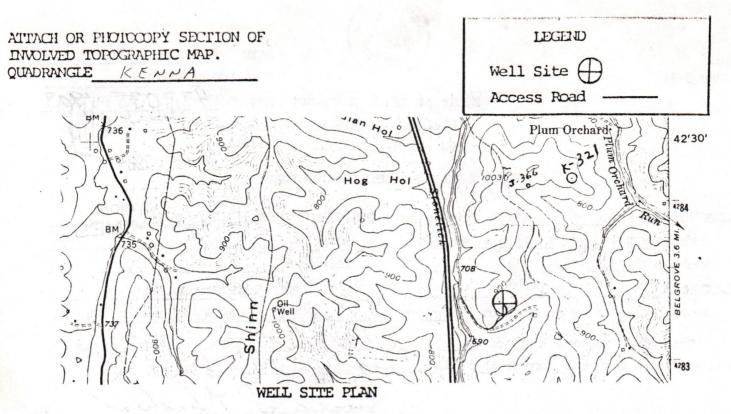
# State of Mest Wirginia Bepartment of Mines

API NO. 47 5 035 SEP 26 1983

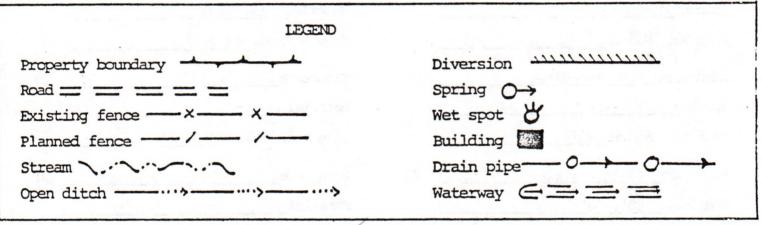
Bil and Gas Bivision

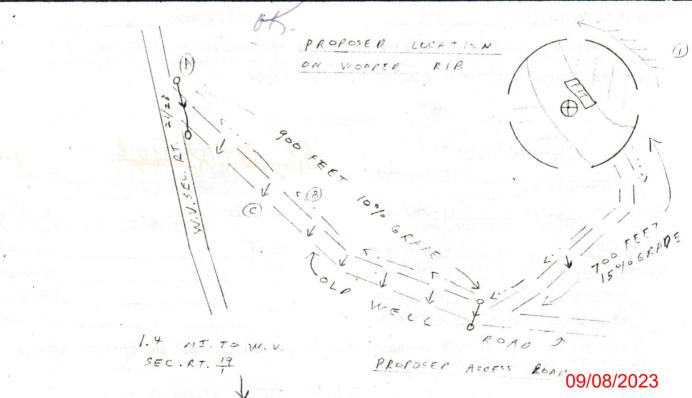
### CONSTRUCTION AND RECLAMATION PLAN

COMPANY ARMS Voices Furlessties and M	ining Capt	OIL & GAS DIVISION	
COMPANY NAME Kaiser Exploration and M		IVIIIVE	
Address P. O. Box 8. Ravenswood.	WV	Address Same	
Telephone 273-5371  TANDOWNER Ronald L. Randolph, et al		Telephone	
		SOIL CONS. DISTRICT Western	
Revegetation to be carried out by K	aiser Expl	oration and Mining Company (Agen	it)
This plan has been reviewed by	4/6	sco. All corrections	
and additions become a part of this pla	an: Use		
	1/	(Date)	
	04/9	(SCD Agent)	
logged man			
ACCESS ROAD		LOCATION	
Structure Road Culvert	(A)	Structure Diversion Ditch	(1)
Spacing 12" diameter		Material Earthen	
Page Ref. Manual 2:7		Page Ref. Manual 2:12	
Structure Drainage Ditch	(B)	Structure	(2)
Spacing Earthen		Material	
Page Ref. Manual 2:12		Page Ref. Manual	
Structure Cross Drains	(C)	Structure	(3)
Spacing 80', 60'		Material	
Page Ref. Manual 2:4		Page Ref. Manual	
All structures should be inspected commercial timber is to be cut and s cut and removed from the site before	tacked and	all brush and small timber to be begins.	
-			
Treatment Area I	_	Treatment Area II	
or correct to pH 4 Tons/acr	е.	or correct to pH	æ
Fertilizer 14-14-14 600 lbs/acre (10-20-20 or equivalent)		Fertilizer lbs/acre (10-20-20 or equivalent)	Э
Mulch Hay 2 Tons/acr	e	Mulch Tons/acc	ce
Seed*81% Orchard Grass/15% Rydbs/acre		Seed* lbs/acre	
Kentucky 31 Fescue 161bs/acre		lbs/acre	
Red Clover 8 lbs/acre		lbs/acre	3
*Inoculate all legumes such as vetch	, trefoil	and clovers with the proper bacterium.	
Inoculate with 3X recommended amount.		09/08/202	3
	FLAN PRE	FARED BY Vincent Wood	_
NOTES: Please request landounere!		IPDRESS 116 Pfost Avenue	
seedling for one growing season.			
Attach separate sheets as		Ripley, WV 25271	-
necessemi for commines	7:1	372-2709	



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.





1)	Date: Au	ust	25,		_, 19
2)	Operator's Well No	KEM	#325		
3)	API Well No.	47			E .
-,		State		County	Permit

Will:

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

		vation:	ipley			Watershed:			enna
WELLOD				rati	on and			AGENT R. A.	
Address						Contraction to the			Francisco de la composição de la composi
		Ravens	wood,	WY	26164	The Control of the Control	ed this are to a	eway mili men med	The second second second second second
OIL & GA				TED	er Charleston Can	9)	DRILLING C		
Name H	omer Do							lint Hurt	
Address	Box	3A, I	inden	RT.	47	etr	Address	P. O. Box 38 Elkview, WV	Company of the compan
A SAME OF THE	All the second second	1000	the second second	-					
PROPOSE	D WELL	WORK:			_/ Drill	And the second s		/ Stimulate	The section of the second
						well (specify)		AND AND AND AND	
CEO! OG!	CAL TAR	GET FOR				Brown Shale			
GEOLOGI 12) Estima	ated depth o	of complet	ed well.		5197	feet	Presidente das		
13) Appro	ximate trata	a depths:	Fresh, _			feet; salt,_	12 VA 1 7 7 1	feet.	
14) Appro							being mined in the	e area? Yes	/ No
CASING A	AND TUBI	NG PRO	GRAM			740	Const (1967)		
CASING OR TUBING TYPE	1	SPEC	IFICATIONS   Weight		.	FOOTAGE INT	ERVALS	OR SACKS	PACKERS
OBING TITE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
nductor	20 2/1	m		X		250	250	150 sks cla	s A to surface
sh water	10 3/4		TEN TO B	A	4.480		45 25 27		Sizes
al	7		1.0	Y	19.00	23501	2350	199 3k3 509	3 Bozmix
ermediate oduction	9 1/2	19		×		5197	5197	225 sks 50/	Bepths set 11 X
bing	1 4/4					4127			
ners				11-1-1					Perforations:
									Top Bottom
					1			ــــــــــــــــــــــــــــــــــــــ	
	the filing	of the Ap	plication if	the sur owner'	face owner s copy of	face owners. Howev (s) of record sign(s) t the Application.  Y STATEMENT OI	he following "Vo	be issued in less than luntary Statement of No	15 days from o Objection''
	Applied a				<b>C</b>	on the	de of this Applica	tion for a Well Work D	ermit and that I have recei
mine of (1) o N	Votice of A	nlication	for a Well	Work	Permit on I	Form IV-2(A), (2) an	Application for a	Well Work Permit on	ermit, and that I have received. Form IV-2(B), (3) a survey
Form IV 6	and (1) a (	onstructi	on and Re	clamati	on Plan or	Form IV-9, all for	proposed well wo	ork on my surface land	as described therein.
I further st	ate that I h	ave no ob	jection to t	he plan	ned work	described in these ma	terials, and I hav	e no objection to a perm	nit being issued based on th
						(F	execution by natu	iral persons)	
aterials.	by corpora	tion, part	nership, et	<u>c.</u> )		(For	execution by nati	nai persons)	

B (If "Gas", Production \_

\_\_/ Gas \_



1)	Date:	ust	25,		19
2)	Operator's Well No	KEM	#325		
3)	API Well No.	47			
-,		State		County	Permit

Shallow .

Permit

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

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

/ Underground storage \_\_\_\_\_

5) LOCATIO	N: Ele	evation: _	947		a state	Watershed: _	Stonelick !	Creek	
	Di	strict:	dpley			County:	Jakkson	Quadrangle:	Kenna
6) WELL OP	ERATOR.	Kaiser	Explo	rati	on and	i Mining Co	MAD ADESIGNATE	AGENT R. A.	
Address	1 12 <u>1873 </u>	P. O.	Sox 8	(F) (6)	at with the first	OTEST COMMENSAGE	Address	Same	er partie en de la company
Showing the state of	A SCHOOLS	Ravens	, boows	WV	26164	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the state of the	Statement trends regard, encod	THE CASE PART OF THE STATE OF THE STATE OF
8) OIL & GA	S INSPEC	TOR TO	BE NOTIF	FIED	e de la companya de l	and to 24 momen	9) DRILLING C	The state of the s	at the secretary and the secretary
Name He							NameC	int Hurt	The same of the sa
Address						<u>cit i eletan er</u>		P. O. Box 3	88
A Alamaherta	100	ineyvi]	1e, W	1 31/5	the As the	Course of the court	a machine independent in	Elkview, WV	the state of the second state of the second
10) PROPOSE	D WELL	WORK:	Drill		_/ Drill	deeper	/ Redrill	/ Stimulate	
			Plug of	f old f	formation_	/ Perform	rate new formation		
						well (specify)			
11) GEOLOGI	CAL TAR	GET FOR	MATION,	_De	vontar	a Brown Sha	10		
12) Estima									
13) Appro	ximate trat	a depths:	Fresh, _					feet.	
14) Appro						Is co	oal being mined in the	e area? Yes	/ No/
15) CASING A	AND TUBI	NG PRO	GRAM				11. 400		
CASING OR TUBING TYPE		SPEC	IFICATIONS Weight		.	FOOTAGE	INTERVALS	OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	25 21	20		14		050	050	150 -1 - 3	Kinds
Fresh water	10 3/4	**		X		250	250	150 SKS Cla	s A to surface
Coal	-		Maria Maria	7 17 5				100 sks cla	Sizes
Intermediate	7	5.8		X		23501	2350	-55 3k3 507	d pozmix
Production	4 1/2	2.8		X		5197	5197	225 sks 50/	Depths set 10 1 X
Tubing									
Liners				-					Perforations:
	-								Top Bettorn
						•			
	<b>T</b> 1 1				1.6				
								be issued in less than I untary Statement of No	
						he Application.	the following von	antary Statement of 140	Objection
				VO	LUNTAR	Y STATEMENT	OF NO OBJECTION	N	
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									Form IV-2(B), (3) a survey plat
on Form IV-6. a	ind (4) a C	onstructio	n and Recl	amatio	n Plan on	Form IV-9, all fo	or proposed well wor	k on my surface land	as described therein
I further sta	te that I ha	ve no obje	ection to th	e plann	ed work d	escribed in these n	naterials, and I have	no objection to a perm	it being issued based om those
materials.									
(T			b:	,		(F-		1	
(For execution b	y corporat	ion, partn	ersnip, etc.	.)		(FO	r execution by natur	ai persons)	
NAME:							11-10	Fan 1-01	9/19/10
							Jamy X.	Signature)	Date: 2/30/89
Ву	1							o-Buture)	
Its				D	ate		(	Signature)	Date:
							,	J.Butute)	



1)	Date:	ust	25,		_, 19
2)	Operator's Well No	KEM	#325		
3)	API Well No.	47			
,		State		County	Permit

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

	PE: A O			24					
N LOCATIO		f "Gas", I	m 4 M	n	A STATE OF S	Underground sto Watershed:		Deep	_/ Shallow/)
) LOCATIO			dolev				esson		Kenna
WELL OP				ora † f	on and			DAGENT R. A.	
Address		P 0	Box 8	e granta pi	1 2 5 75 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	restriction com	Address	Same	
Addiess		Ravens		uv	26164	Lyeromeky received	and objection on a		
OIL & GA	SINSPEC	A 10 PM	Charles and Charles and the State	FIED	d selection control	on the second second	DRILLING	ONTRACTOR:	Hadinathan Train Carp Monthly 5
Name He				ille		propagation and an extension of		lint Hurt	A In several training
Address	69.	-	inden	D+	Alger Strate	The second secon	Address	P. O. Box 3	28
Address		nevv11					Address	Elkview. WV	
			Drill_		/ Drill			Page Control of the Control	
PROPOSE	D WELL	WUKK:				deeper			
							new formation		
CEO! OC!	CAL TAD	CET FOR				Brown Shale			
12) Estima						feet	SALEST SEL		
						The Property of the second		foot	
13) Appro							seina minad in 4b	feet.	/ 1
14) Appro						Is coal (	being mined in the	e area? Yes	/ No
	ום סו עאו		IFICATIONS			FOOTAGE INT	PRVATE	II CEMENT THE CO	
CASING OR TUBING TYPE		1	Weight	1			the same of the same of the same	OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
nductor	20 211	n		X		250	250	150 sks cla	Kinds S Å to surface
sh water	10 3/4			A		400	200	100 385 614	3 A SU SUITAGE
al	7		100000000000000000000000000000000000000	٧	13.00			100 sks sla	Sizes
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oduction	4 1/2	-		Ä		5197	5197	225 sks 50/	Depths set 111 X
bing	-							-	
ners	-							-	Perforations:
								-	Top Bottom
				<u> </u>			*	1	
	The l	ow require	s a comm	ent neri	ad for surfa	as owners. Howeve	the permit con	he issued in less than	Is down from
				_				be issued in less than	
	the filing of	of the Appl	lication if	the surf	ace owner(s			be issued in less than untary Statement of No	
	the filing of	of the Appl	lication if	the surf	ace owner(s	of record sign(s) th			
	the filing of	of the Appl	lication if	the surf owner's	copy of the	of record sign(s) th	e following "Vol	untary Statement of No	
Lharshu sta	the filing on a facsi	of the Applimile of thi	lication if is surface	the surf owner's VO	ace owner(s copy of the	of record sign(s) the Application.  STATEMENT OF	NO OBJECTION	untary Statement of No	Objection"
	the filing of on a facsi	of the Applemile of this	lication if is surface	the surfowner's  VOI	ace owner(s copy of the LUNTARY	of record sign(s) the Application.  STATEMENT OF rs on the reverse side.	NO OBJECTION of this Applicat	untary Statement of No  N  ion for a Well Work P	o Objection"  ermit, and that I have received
oies of (1) a No	the filing of on a facsi	of the Applemile of this	lication if is surface	voluments to su Work P	ace owner(s copy of the LUNTARY arface owner ermit on Fo	of record sign(s) the Application.  STATEMENT OF rs on the reverse siderm IV-2(A), (2) an A	NO OBJECTION  of this Applicate Application for a	untary Statement of No N ion for a Well Work P Well Work Permit on I	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey pla
oies of (1) a No Form IV-6, a	the filing of on a facsi te that I ha otice of Ap and (4) a C	of the Appl mile of thi ve read the oplication for	lication if is surface e instructio for a Well n and Rec	voluments voluments voluments voluments voluments voluments	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF rs on the reverse side rm IV-2(A), (2) an A form IV-9, all for p	NO OBJECTION  of this Applicate Application for a roposed well work.	untary Statement of No N ion for a Well Work P Well Work Permit on I rk on my surface land	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey plant as described therein.
pies of (1) a No Form IV-6, a I further sta	the filing of on a facsi te that I ha otice of Ap and (4) a C	of the Appl mile of thi ve read the oplication for	lication if is surface e instructio for a Well n and Rec	voluments voluments voluments voluments voluments voluments	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF rs on the reverse side rm IV-2(A), (2) an A form IV-9, all for p	NO OBJECTION  of this Applicate Application for a roposed well work.	untary Statement of No N ion for a Well Work P Well Work Permit on I rk on my surface land	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey plant as described therein.
pies of (1) a No Form IV-6, a I further sta aterials.	the filing of on a facsi te that I ha otice of Ap and (4) a C te that I ha	of the Applemile of this we read the oplication from the construction we no object.	lication if is surface e instruction for a Well in and Reception to the	voluments volume	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF  rs on the reverse side of the IV-2(A), (2) an Action IV-9, all for particularly acribed in these materials.	NO OBJECTION  of this Applicate Application for a roposed well work and I have	N ion for a Well Work P Well Work Permit on I rk on my surface land no objection to a perm	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey play as described therein.
pies of (1) a No Form IV-6, a I further sta aterials.	the filing of on a facsi te that I ha otice of Ap and (4) a C te that I ha	of the Applemile of this we read the oplication from the construction we no object.	lication if is surface e instruction for a Well in and Reception to the	voluments volume	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF  rs on the reverse side of the IV-2(A), (2) an Action IV-9, all for particularly acribed in these materials.	NO OBJECTION  of this Applicate Application for a roposed well work.	N ion for a Well Work P Well Work Permit on I rk on my surface land no objection to a perm	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey plant as described therein.
pies of (1) a Non Form IV-6, a I further state aterials.	the filing of on a facsi te that I ha otice of Ap and (4) a C te that I ha	of the Applemile of this we read the oplication from the option of the o	lication if is surface e instruction for a Well in and Reception to the ership, etc.	voluments volume	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF  rs on the reverse side of the IV-2(A), (2) an Action IV-9, all for particularly acribed in these materials.	NO OBJECTION  of this Applicate Application for a roposed well work and I have	N ion for a Well Work P Well Work Permit on I rk on my surface land no objection to a perm	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey plat as described therein.  nit being issued based on those
pies of (1) a No Form IV-6, a I further sta aterials.	the filing of on a facsi te that I ha otice of Ap and (4) a C te that I ha y corporat	of the Applemile of this we read the oplication from the objection of the objection, partners of the objection, partners of the objection, partners of the objection, partners of the objection o	e instruction is surface instruction a Well in and Reception to the ership, etc.	voluments volume	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF  rs on the reverse side of the IV-2(A), (2) an Action IV-9, all for particularly acribed in these materials.	NO OBJECTION To of this Applicate Application for a roposed well workerials, and I have recution by naturally application by naturally applications are not	no objection to a pern	o Objection"  ermit, and that I have received  form IV-2(B), (3) a survey plat  as described therein.
pies of (1) a No Form IV-6, a I further sta atterials.	the filing of on a facsi te that I ha otice of Ap and (4) a C te that I ha	of the Applemile of this we read the oplication from the objection of the objection, partners of the objection, partners of the objection, partners of the objection, partners of the objection o	e instruction is surface instruction a Well in and Reception to the ership, etc.	voluments volume	ace owner(s) copy of the LUNTARY arface owner ermit on Fo n Plan on F	of record sign(s) the Application.  STATEMENT OF  rs on the reverse side of the IV-2(A), (2) an Action IV-9, all for particularly acribed in these materials.	NO OBJECTION To of this Applicate Application for a roposed well workerials, and I have recution by naturally application by naturally applications are not	N ion for a Well Work P Well Work Permit on I rk on my surface land no objection to a perm	o Objection"  ermit, and that I have received form IV-2(B), (3) a survey plat as described therein.  nit being issued based on those

1)	Date:Aur	rust	25,		_, 19 3
2)	Operator's Well No.	KEM	#325		
3)	API Well No.	47			
-,		State		County	Dermit

Mail !

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

4) WELL TY			/ Gas	X	/ Underground s	storage		_/ Shallow _X/)
5) LOCATIO	N: Ele	vation: _	947	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Watershed:	Stonelick	Creek	
	Dis	strict:	Ripley		County:	Jakkson	Quadrangle:	Kenna
) WELL OP	ERATOR	Kaise	r Explo	ration and	Mining Cor	7) adesignate	DAGENT R. A.	Pryce
Address					on the state of the second	Address	Same	and the second control of the second control
1807 (\$10, \$774.02)	1961 3 - 2014 35	Ravent	swood,	W 26164	Service Company (Section 1997)	te can applied the con-	odiane salidi ostas e so	the production of the second second second second
OIL & GA				ED	ness of the second	9) DRILLING C	ONTRACTOR:	e <b>Le</b> maissant de la com
				0+			P. O. Box 3	88
Audits	1 00	navud	la WV	consisting the person of	terriero de la contra	Address .	Elkview. WV	of M. American and the control of Segre
, propost			The second					the way to the Market and the first had
) PROPOSE	D WELL	WORK:		Drill			/ Stimulate	A SEE SERVICE
						ate new formation		
OFOLOG!	CAL TAR	CET FOR	The state of the s					
					Brown Sha	1 53		
				5197				
,					Is coa	al being mined in th	e area? Yes	/ No
) CASING A	AND TUBI	NG PRO	GRAM					
CASING OR TUBING TYPE	Size	SPEC Grade	Weight per ft.	New Used	FOOTAGE II	Left in well	OR SACKS (Cubic feet)	PACKERS
onductor								Kinds
esh water	10 3/4	R		X	250	250	150 sks cla	s A to surface
al			0.00		1.6	277.0	100 1 3	Sizes
termediate	7	i i i i i i i i i i i i i i i i i i i		X	22501	2250	165 8K8 809	d Bozmix
oduction	4 1/2	18		y l	5107	5107	225 sks 50/	Depth Set MIX
ibing					3 8 34	31-11	1 1000 1000	
ners								Perforations:
							1	Top Bottom
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	1						1	1
	the filing of	of the App	lication if th	ne surface owner(s wner's copy of th	s) of record sign(s) he Application.		be issued in less than I luntary Statement of No	
pies of (1) a N Form IV-6, a	otice of Ap and (4) a C	plication i	for a Well W	ork Permit on Fo	orm IV-2(A), (2) ar Form IV-9, all for	Application for a proposed well wo	Well Work Permit on F rk on my surface land	ermit, and that I have receive form IV-2(B), (3) a survey p as described therein.
or execution b	y corporat	ion, partn	ership, etc.)		(For	execution by natu	ral persons)	
AME:					x	John R	Randofor	Date: 9-22-8
Ву							(Signature)	Duit.
Its				Date			Signature)	Date:

1)	Date:Ai	leust	25.		_, 19_3
2)	Operator's Well No	KEN	#325		
3)	API Well No	47			
,		State		County	Permit

Permit

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

4) WELLTY 5) LOCATIO	B (I	f "Gas", levation:	Production 947	X		Watershed:	Stonelick	Deep	
6) WELL OP Address	ERATOR_	Kaiser P. O.	Sox 8	rati		Mining Co	ONT) adesignate	DAGENT R. A. Same	
	omer Do	ugheri 3A, I	y inden	Rt.			NameC	ONTRACTOR: lint Hurt P. O. Box 3: Elkview, WV	
13) Appro	CAL TAR ated depth o eximate trat eximate coa	GET FOR of complet a depths:	Plug of Other plus MATION, ed well, Fresh, ths:	f old fi	change in very standard from the contract of t	Perfo well (specify)	orate new formation		
CASING OR TUBING TYPE	Size	SPEC Grade	Weight per ft.	New	Used	FOOTAGE For drilling	INTERVALS  Left in well	OR SACKS (Cubic feet)	PACKERS
Conductor Fresh water	10 3/4	28		X		250	250	150 eke clas	Kinds S Å to surface
Coal	120 0/	1		- 74	- Catha			200 313 314	Sizes
Intermediate	7	110000		X		22501	2350	195 3k3 509	3 Bozmix
Production	4 1/2	23		X		5107	5107	225 sks 50/	Depths set 11 1 %
Tubing									
Liners									Perforations:
-									Top Bottom
	Ш				- 11			Ш	

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.

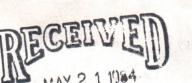
(For execution by corporation, partnership, etc.)	(For execution by natural persons)
NAME:	- Anna G. Cantertury Date: 9/22/8.
Ву	(Signature)
ItsDate	(Signature) Date:

STATE OF WEST VIRGINIA. COUNTY OF JACKSON:	
The undersigned, being first duly sworn, says the true and complete copy of all sides of—  (1) Notice on Form IV-2(A) / Form IV-3(A)  (2) Application on Form IV-2(B) / Form IV-3(B)  (3) Plat showing the well location on Form IV-6  (4) Construction and Reclamation Plan on Form I is to plug a well) all with respect to operator's Well No. Kem 325  Ripley District, Jackson  upon the person or organization named	/ Form IV-4(A) / ) / Form IV-4(B) / , and V-9 (unless the application
John R. Randelph	
by delivering the same in <u>Jackson</u> County, on the <u>ZZ</u> day of <u>Sept</u> , 1983 in the many	State of West Va. ner specified below.
- [COMPLETE THE APPROPRIATE SECTION]	
For an individual:  [ Handing it to him X / her / or, because take it when I offered it, by leaving it is	e he / she / refused to n 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 person to be ser	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 d 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>
Stephen (Signatu	Kelly re of person executing service
Taken, subscribed and sworn before me this 23 of My commission expires	day of <u>Sept</u> , 19 <u>83</u> .
Liffhe	Notary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)	09/08/2023

STATE OF West Va COUNTY OF JACKSON :
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 showing the well location on Form IV-6, 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. KEM325 located in  Ripley District, Jackson County, West Virginia, upon the person or organization named
ANNA S. CANTERberry
by delivering the same in <u>Jacksov</u> County, State of <u>West Va</u> on the <u>ZZ</u> day of <u>Sept</u> , 1983 in the manner specified below.
- [COMPLETE THE APPROPRIATE SECTION]
For an individual:   [ $\times$ ] Handing it to him / her $\times$ / 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 named 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
For a limited partnership:  [ ] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee / officer / director / attorney in fact / named
Stephen Kelly (Signature of person executing service)
Taken, subscribed and sworn before me this 23 day of Sept , 1983.  My commission expires
Notary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE) 09/08/2023

STATE OF LestVa COUNTY OF JACKSON :
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) × / Form IV-3(A) / Form IV-4(A) /  (2) Application on Form IV-2(B) × / Form IV-3(B) / Form IV-4(B) /  (3) Plat showing the well location on Form IV-6, 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 325 located in Ripley District, Jackson County, West Virginia, upon the person or organization named
Ronald L. Randolph
by delivering the same in <u>Jackson</u> County, State of <u>West Va.</u> on the <u>9</u> day of <u>Sept</u> , 1983 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 named 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, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee / officer / director / attorney in fact / named
Stephen Kelly (Signature of person executing service
Taken, subscribed and sworn before me this 23 day of Sept , 1983.  My commission expires 2/18/86
Notary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)  09/08/2023

# IV-35 (Rev 8-81)





# OIL & GAS DIVISISSTATE of West Wirginia DEPT. OF MINE Department of Allines Bil und Vas Division

Date	Ар	ril 9,	198	4
Operat	or's			
Well N	0	KEM	-325	
Farm	G. A	. Rand	olph	
API No	• 47	- 03	5 .	<b>-</b> 1903

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

COCATION: Elevation: 947' Watershed	Stonelick	Creek		
District: Ripley County Ja	ackson	Quadrangle	Kenn	a
COMPANY KEMGAS	-			1-
ADDRESS P. O. Box 8, Ravenswood, WV. 26164	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Same	Tubing	Drilling	in Well	Cu. ft.
ADDRESS	Size	1-1-		
SURFACE OWNER* R. L. Randolph	20-16 Cond.			
ADDRESS Rt. 1, Box 434, Ripley, WV 25271	<b>13-10"</b> 3/4	318'	318'	175 sks C1
INERAL RIGHTS OWNER G. A. Randolph	9 5/8			611
ADDRESS	8 5/8			175
OIL AND GAS INSFECTOR FOR THIS WORK J.	7	2348 '	2348 '	175 sks Po 100 sks cl
Tephabock ADDRESS Ripley, WV 25271	5 1/2			
PERMIT ISSUED	4 1/2		4516'	200 sks po
DRILLING COMMENCED 10-17-83	3			
DRILLING COMPLETED 10-23-83	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
		Den	<b>th</b> 4125	(KB) feet
GEOLOGICAL TARGET FORMATION Devonian Brown				
Depth of completed well 4515' feet	Rotary X	_/ Cable		
GEOLOGICAL TARGET FORMATION Devonian Brown	Rotary X	/ Cable	Tools_	
Depth of completed well 4515' feet	Rotary X	/ Cable	Tools_	area?No
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None	Rotary X	/ Cable	Tools_	
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None	Rotary X Salt 75 Is coal	/ Cable 0' feet being mine	e Tools_	e area?No
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None	Rotary X Salt 75 Is coal ale Pay	_/ Cable 0' feet being mine zone dep	ed in the	e area? No 5' (KB) <b>feet</b>
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  OPEN FLOW DATA  Producing formation Devonian Brown Sha	Rotary X Salt 75 Is coal ale Pay Oil: Ini	_/ Cable	ed in the	e area? No 5' (KB)feet Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  OPEN FLOW DATA  Producing formation Devonian Brown Share Gas: Initial open flow 0 Mcf/d Final open flow 350+ Mcf/d	Rotary X Salt 75 Is coal ale Pay Oil: Ini Fin	/ Cable/ feet being mine zone dep tial open al open f	ed in the	e area? No 5' (KB)feet Bbl/d Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  Depth DATA  Producing formation Devonian Brown Share Cas: Initial open flow 0 Mcf/d Final open flow 350+ Mcf/d Time of open flow between initial	Rotary X Salt 75 Is coal ale Pay Oil: Ini Fin	/ Cable	ed in the	E area? No 5' (KB)feet Bbl/d Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  DEPN FLOW DATA  Producing formation Devonian Brown Share Gas: Initial open flow 0 Mcf/d Final open flow 350+ Mcf/d Time of open flow between initial static rock pressure 950 psig(surfate)	Rotary X Salt 75 Is coal ale Pay Oil: Ini Fin	/ Cable/ feet	ed in the	E area? No 5' (KB)feet Bbl/d Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  Depth DATA  Producing formation Devonian Brown Share Gas: Initial open flow 0 Mcf/d  Final open flow 350+ Mcf/d  Time of open flow between initial open flow paig (surface)  Static rock pressure 950 psig (surface)	Rotary X Salt 75 Is coal ale Pay Oil: Ini Fin tial and fince measurem	cable feet being mine zone depential open al open final tests ment) after ys Coming l	ed in the	Bbl/d Bbl/d Bbl/d Bbl/d Bbl/d Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  Depth DATA  Producing formation Devonian Brown Share Gas: Initial open flow 0 Mcf/d  Final open flow 350+ Mcf/d  Time of open flow between ini Static rock pressure 950 psig(surface)  (If applicable due to multiple completion Second producing formation Rerea Sands Gas: Initial open flow 0 Mcf/d	Salt 75  Salt 75  Is coal  ale Pay  Oil: Ini  tial and fi  ace measurem  on) + Pay  tone Pay  Oil: Ini	/ Cable/ feet	th 4125 flow 0 low 0 4 housed th 2593 flow	Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  OPEN FLOW DATA  Producing formation Devonian Brown Sha Gas: Initial open flow 0 Mcf/d  Final open flow 350+ Mcf/d  Time of open flow between ini Static rock pressure 950 psig(surfa  (If applicable due to multiple completion Second producing formation Rerea Sands	Salt 75  Salt 75  Is coal  ale Pay  Oil: Ini  tial and fi  ace measurem  on) + Pay  tone Pay  Oil: Ini	/ Cable/ feet	th 4125 flow 0 low 0 4 housed th 2593 flow	Bbl/d
Depth of completed well 4515' feet Water strata depth: Fresh 218' feet; Coal seam depths: None  OPEN FLOW DATA  Producing formation Devonian Brown Sha Gas: Initial open flow 0 Mcf/d  Final open flow 350+ Mcf/d  Time of open flow between ini Static rock pressure 950 psig(surfa  (If applicable due to multiple completion Second producing formation Rerea Sands Gas: Initial open flow 0 Mcf/d	Salt 75  Salt 75  Is coal  ale Pay  Oil: Ini  tial and fi  ace measurem  on) + Pay  tone Pay  Oil: Ini  Oil: Fin	/ Cable/ feet	ed in the house of the 2593 flow low low low low low low low low low	Bbl/d

# DETAILS OF PERFORMIED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC.

Young's Wireline: Perforated Brown SHale 4125'/4297' (KB) with 20 holes, .41" diameter 3/20/84:

Nowsco, FJ Hughes: Foam frac. Brown SHale. Used 500 gal., 15% Hcl acid, 60,000# 20/40 sand, 690 MSCF N<sub>2</sub>, 320 bbl fluid; 2080 psig breakdown, 2500# average treating pressure, ISIP 1800 psig. 3/20/84:

Young Wireline: Perforated second stage Berea Sandstone 2593'/2600' (KB), 21 holes, .41" diameter. 3/20/84:

Nowsco, BJ Hughes foam frac Berea: used 60,000# 20/40 sand, 700 MSCF N2, 320 bbl 3/20/84:

H<sub>2</sub>O, 1800 psig breakdown, 1880 average treating pressure, ISIP: 1640 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
Sand       252       321       684         Sand       684       744       801         Sand       801       820       916         Sand       916       982       1240         Shale and Siltstone       982       1240       1320         Shale and Siltstone       1240       1320       1390         Little Dunkard Sand       1240       1320       1390         Shale       1320       1390       1510         Shale       1510       1702       1736         Shale       1702       1736       1784         Salt Sands       1784       1944       2156         Big Lime (Greenbrier)       1944       2156       2216         Shale       2216       2584       2600         Berea Sand       2600       2607         Shale       2607       3834         Brown Shale       3834       4440         Shale       4440       4525				
Sand       252       321       684         Sand       684       744       801         Sand       801       820       916         Sand Be       820       916       982         Shale and Siltstone       982       1240         Little Dunkard Sand       1240       1320         Shale       1320       1390         Big Dunkard Sand       1390       1510         Shale       1510       1702         Sand       1702       1736         Shale       1702       1736         Salt Sands       1784       1944         Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2156       2216         Shale       2216       2584         Coffee Shale       2584       2600         Berea Sand       2600       2607         Shale       3834       4440         Shale       4440       4525	Soil and Shale	0	252	
Shale and Siltstone       321       684       744         Sand       801       820       916         Sand       801       820       916         Sand       916       982       1240         Shale and Siltstone       982       1240       1320         Shale Dunkard Sand       1320       1390       1510         Shale       1320       1390       1510         Shale       1510       1702       1736         Shale       1736       1784       1944         Salt Sands       1784       1944       1944         Big Lime (Greenbrier)       1944       2156       2216         Shale       2216       2216       2216         Shale       2584       2600       2607         Shale       2607       3834       4440         Shale       3834       4440       4525         T,D.       4525       4525				
Sand       684       744       801         Sand       801       820         Shale       820       916         Sand       916       982         Shale and Siltstone       982       1240         Little Dunkard Sand       1240       1320         Shale       1320       1390         Big Dunkard Sand       1390       1510         Shale       1510       1702         Sand       1702       1736         Shale       1736       1784         Salt Sands       1784       1944         Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2156       2216         Shale       2216       2584         Coffee Shale       2584       2600         Berea Sand       2600       2607         Shale       2607       3834         Brown Shale       3834       4440         Shale       4440       4525				
Sand       801       820       916         Sand       996       982         Shale and Siltstone       1240       1320         Little Dunkard Sand       1240       1320         Shale       1320       1390         Big Dunkard Sand       1390       1510         Shale       1510       1702         Sand       1702       1736         Shale       1736       1784         Salt Sands       1784       1944         Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2156       2216         Shale       2216       2584         Coffee Shale       2584       2600         Berea Sand       2600       2607         Shale       2607       3834         Brown Shale       3834       4440         Shale       4525	Sand			
Shale       820       916       982         Sand       916       982         Shale and Siltstone       1240       1320         Little Dunkard Sand       1320       1390         Shale       1320       1390         Big Dunkard Sand       1390       1510         Shale       1702       1736         Sand       1702       1736         Shale       1736       1784         Salt Sands       1784       1944         Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2156       2216         Shale       2584       2600         Coffee Shale       2584       2600         Berea Sand       2600       2607         Shale       3834       4440         Shale       4440       4525         T.D.       4525	Shale	744	801	
Sand       916       982       1240         Little Dunkard Sand       1240       1320       1390         Shale       1320       1390       1510         Shale       1510       1702       1736         Sand       1702       1736       1784         Shale       1736       1784       1944         Salt Sands       1784       1944       2156         Big Lime (Greenbrier)       1944       2156       2216         Shale       2216       2584       2600         Coffee Shale       2584       2600       2607         Shale       2607       3834       4440         Shale       3834       4440       4525         T,D.       4525       4525	Sand	801	• 820 .	
Shale and Siltstone	Shale	820	916	
Little Dunkard Sand Shale Big Dunkard Sand Shale Sand Shale Sand Shale Salt Sands Shale Sig Lime (Greenbrier) Big Injun Sand Shale Coffee Shale Berea Sand Shale Shale Toffee Shale Berea Sand Shale Toffee Shale Berown Shale Brown Shale Toffee Shale Shale Toffee Shale Brown Shale Toffee Shale Shale Toffee Shale Brown Shale Toffee Shale Shale Toff	Sand	916	982	
Shale     1320     1390       Shale     1510     1702       Sand     1702     1736       Shale     1736     1784       Salt Sands     1784     1944       Big Lime (Greenbrier)     1944     2156       Big Injun Sand     2156     2216       Shale     2216     2584       Coffee Shale     2584     2600       Berea Sand     2600     2607       Shale     2607     3834       Brown Shale     3834     4440       Shale     4440     4525       T.D.     4525	Shale and Siltstone	982	1240	
Big Dunkard Sand     1390     1510       Shale     150     1702       Shale     1736     1784       Salt Sands     1784     1944       Big Lime (Greenbrier)     1944     2156       Big Injun Sand     2156     2216       Shale     2216     2584       Coffee Shale     2584     2600       Berea Sand     2600     2607       Shale     3834     4440       Shale     3440     4525       T.D.     4525	· Little Dunkard Sand	1240	1320	
Big Dunkard Sand   1390   1510   1702   1736			, 1390	
Sand   1702   1736   1784   1944			1510	
Shale   1736   1784   1944   1944   2156   2216   2216   2584   2600   2607   3834   8	1.0000000000000000000000000000000000000			
Salt Sands       1784       1944         Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2156       2216         Shale       2216       2584         Coffee Shale       2584       2600         Berea Sand       2600       2607         Shale       2607       3834         Brown Shale       3834       4440         Shale       4525				
Big Lime (Greenbrier)       1944       2156         Big Injun Sand       2216       2216         Shale       2584       2600         Berea Sand       2600       2607         Shale       2607       3834         Brown Shale       3834       4440         Shale       4525       4525				
Big Injun Sand Shale Coffee Shale Berea Sand Shale Brown Shale Shale T.D.  2156 2216 2584 2600 2607 3834 4440 44525				
Shale Coffee Shale Berea Sand Shale Brown Shale Shale T.D.  2216 2584 2600 2607 3834 4440 4525	Big Lime (Greenbrier)			
Coffee Shale Berea Sand Shale Brown Shale Shale T.D.  2584 2600 2607 3834 4440 4525  2584 2600 2607 3834 4440 4525	Big Injun Sand			
Berea Sand Shale Brown Shale Shale T,D.  2600 2607 3834 4440 4525  2607 3836 4440 4525				
Shale Brown Shale Shale T.D.  2607 3834 4440 4525				
Brown Shale Shale T.D.  3834 4440 4525				
Shale T.D. 4440 4525				
T.D. 4525				
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- 하나, 사람이 있었다면 그는 사람이 되는 것으로 하는 것이 되었다. 그는 사람이 있는 사람이 없는 사람이 없어 보고 있는 것이 없는 것이 없다. 그는 것이 없는 것이 없어 없어요. 그런 것이 없는 것이 없는 것이 없는 것이 없어요. 그런 것이			the same to be a	
		1		

(Attach separate sheets as necessary)

Well Op	EXPLORATION AND MINI	W. C.O. A.V.
	D	carrie contradign (N)
By:	A	09/08/2023

Regulation 2.02(i) provides as follows:

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

Permit No. 035 1903

#### 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\_\_\_\_\_\_

Company Kaise	or Explorato	n/	CASING AND TUBING	USED IN DRILLING	LEFT IN	PAC	KERS
Address		to the first of the second	Size				4 L J. E.
Farm RONO	lolph		16			Kind of Pa	cker
Well No. Kem	- 325		13				4
District	County	Tackson	81/4			Size of	
Drilling commenced			6%			Depth set_	
Drilling completed 10	6 2283 Total depth	4515	5 3/16				
	Depth of shot		32				
	/10ths Water		Liners Used			Perf. top	n
	/10ths Merc.					Perf. botton	n
			CASING CEMEN	NTED	SIZE	No. FT	Date
Rock pressure	lbs	hrs.	NAME OF SER	VICE COMPA	NY		
Oil	bbls	s., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh water	feet	feet	FEET_	INCH	ES	_FEET	INCHES
Salt water	feet	feet	FEET_	INCH	ES	_FEET	INCHES
Drillers' Names Ris	of B Went,	es men de la companya					
i							
Remarks:	283 106/4"	Holoat	8:0004				
	RAN 108	g5 43'	'Set at 45	15 Kb	,		
			+ goos45				
	pluz	Down 1	10 73 83 11:13	7719			

### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

## INSPECTOR'S PLUGGING REPORT

Permit No.				W	l Ho				
COMPANY			ADDRESS						
ARM		DISTRICT.	COUNTY						
"illing Material Used									
iner Loc	ation	Amount	Packer	Location					
PLUGS USED A	ND DEPTH PLACED	The state of the s	BRIDGES	CASIN	G AND TU	BING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	Los			
		1							
		raru er na evi er e		. 1		-			
		era stanieni i i							
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		wajosa.							
rillers' Names						W-1.			
mers Names				· ·					
emarks:									
	4		and the state of the state of						

### STATE OF WEST VIRGINIA

# DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

## INSPECTOR'S WELL REPORT

DEPT. OF MINES

Permit No. 035	-1903			Gas Well		
Company K41	ser Explorat	ion	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address		42. E 19. 11. 15. 150 11	Size			
Farm LANds	1ph		16			Kind of Packer
Well No			13			
District	County_SAG	ckson	81/4			Size of
Drilling commenced			6%			Depth set
	Total depth_	in the state of th	5 3/16			
	Depth of shot		3			Perf. top
	/10ths Water		Liners Used			Perf. top
	ng/10ths Merc. in					Perf. bottom
	, , , , , , , , , , , , , , , , , , , ,		CASING CEMEN	NTED	SIZE	No. FTDate
	lbs		NAME OF SER			Date
	bbls.,		COAL WAS EN	COUNTERED	АТ	FEETINCHES
	feet		and the April of the Security of the weather			FEETINCHES
Salt water	feet	feet				FEETINCHES
Orillers' Names	0 21	1				
Remarks:	Rig of Hent 183 Starles Drilli	n.				
	57 TO 9% Hohe					
	RAN 73 913					
	Comt Hallba		5 Sh & 50/50 f			
	t r		0			

### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

# INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS							
			ADURESS							
FARM	RMCOUNTY									
Filling Material Used										
ming material Osed										
Liner Loc	eation	Amount	Packer	Location						
PLUGE USED A	ND DEPTH PLACED		BRIDGES							
	- Andrews - Andr				G AND TU					
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOS				
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	# 1888 1978 1 - 1			and the second second						
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rillers' Names		200 - 100 -								
emarks:										
cinal RB:										
		19.300	State at a							
			e well on this date.							

09/08/2023

STATE OF West Va. COUNTY OF JACKSON:
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 showing the well location on Form IV-6, 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 325 located in County, West Virginia, upon the person or organization named
Ray Randolph
by delivering the same in <u>Jackson</u> County, State of <u>Lust Va.</u> on the <u>19</u> day of <u>Sept</u> , 19 <u>83</u> in the manner specified below.
- [COMPLETE THE APPROPRIATE SECTION]
For an individual: [ $\times$ ] Handing it to him $\times$ / 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 named 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
For a limited partnership:  [ ] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee / officer / director / attorney in fact / named
Stephen Kelly (Signature of person executing service)
Taken, subscribed and sworn before me this 13 day of Sept , 1983.  My commission expires 2/18/86
Motary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)  09/08/2023

COUNTY OF LICKSON:
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 showing the well location on Form IV-6, 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. 325 located in County, West Virginia, upon the person or organization named
Tommy Randolph
by delivering the same in Karawha County, State of West Va. on the 20 day of Sept , 1983 in the manner specified below.
- [COMPLETE THE APPROPRIATE SECTION]
For an individual: [ $\times$ ] Handing it to him $\times$ / 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 named 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
For a limited partnership:  [ ] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee / officer / director attorney in fact / named
Stephen Kelly
(Signature of person executing service
Taken, subscribed and sworn before me this 23 day of Sept , 1983.  My commission expires
Notary Public
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)  09/08/2023





## State of West Virginia

### Department of Mines Gil and Gas Division

### Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 30, 1984

	,,,,	•	0 100 1
OIL	&	GAS	DIVISION
DEP	Τ.	OF	MINES

	May 30, 1984					
COMPANY	Kaiser Exploration & Mining Co.	PERMIT NO		035-19	03	10/83
P. 0.	Box 8	FARM & WELL	NO _	G. A.	Randolp	h, KEM-325
Raver	swood, West Virginia 26164	DIST. & COUN	TY	Ripley	/Jackson	n _
			IN CO	OMPLIA	NCE	
RULE	DESCRIPTION	,	YES		NO	
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01	Notification Prior to Starting Work Prepared before Drilling to Prevent Wa High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gatherin Well Records on Site		\( \frac{\chi}{\chi} \ch			
16.02	Well Records Filed	_				
7.05	Identification Markings		X			*
Your wel	NSPECTED THE ABOVE CAPTIONED WELL AND F	SIGNED DATE  requirements approximately appr	pprov	82 ved. I	sy n aecore	•
	pter 22, Article 4, Section 2, the above for the life of the well.	Administrator August	r=01]	l & Ga	Di	ton

