



(Rev 8-81)

OIL & GAS DIVISION EState of Mest Hirginia
DEPT OF MINEState of Mest Hirginia Gil und Cas Phision

Date 9/27/8	2
Operator's	
MCTT PACE	- 189
Farm Dorsel	Fisher
API No. 47 -	035 - 1681

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL	TYPE:	Oil/	/ Gas_x/	Liquic	d Injec / Under	tion	/ Was	te Disposa ge/ Dee	l/ p/ Sha	ıllow/)
LOCAT	ION:	Elevation	3: 894	Wa	tershed	На	arpold Ho	llow		
		District	Ripley	Co	unty	Jac	KSON	Quadrangl	e Kenna	Umanica (ST uman septim (ST um
COMPA	NY KA	ISER EXPLO	RATION & M	INING CO	MPANY					
). Box 8, R				•	Casing	Used in	T 0.54	Cement
		AGENT R.					Caşing Tubing	4		fill up
		D. Box 8, F				•	Size	Drilling	Tu werr	Cu. ft.
SURFA	CE OW	NER Dorse	l & Wilma	Fisher		•	20-16			
ADDRE	SS <u>Rt.</u>	1, Given,	WV 25245			5	Cond. 13-10"		454	200 sks
MINEF	AL RI	GHI'S OWNER	R Same				9 5/8		131	200 383
ADDRE	SS			•						
OIL A	ND GA	S INSPECTO	R FOR THI	S WORK_	Richard		8 5/8		2450 *	165 sks
Morr	is	ADDRES	S P. O. E	Box 372,	Grants.	nto	7		2430	100 585
PERMI	T ISS	UED 4/19	/82		ville		5 1/2			
DRILI	ING O	OMMENCED_	5/06/82				4 1/2 3		5100'	225 sks
DRILL	ING O	OMPLETED_	5/13/82							
		BLE: PLUC					2			
		PROGRESSI VERBAL I					Liners used			
ŒŒ	XGICAL	TARGET FO	RMATION	Oriska	ny S.S.			Dep	h 4994	feet
	Depth	of comple	eted well_	5136	fee	t R	otary	Cable	Tools_	
	Water	strata de	epth: Fre	sh	fee	t;	Salt	feet		
	Coal :	seam depth	ıs:				Is coal	being mine	ed in the	area?
OPEN	FLOW I	DATA								
•	Produ	cing forms	ition Or	riskany S	s.s.		Pay	zone dept	h 4994-50	063 feet
									-	Bbl/d
		Final ope	n flow_	4	Mcf/	ď	Fir	nal open fi	Low	Bbl/d
		Time	of open	flow be	tween i	niti	al and fi	ipal tests	6 ho	uîrs
	Statio	c rock pre	essure(000 P	sig(sur	face	measure	ment) after	hou	rs shut in
~	(If a	pplicable	due to mu	ltiple (complet	ion-	-) (48 70-4	500	
•	Secon	d producir	ng formati	on Devo	onian Br	own	Shale Pay	y zone dept	h 4036'-4	422' feet
	Gas:	Initial o	pen flow_		Mcf/	d	Oil: Ini	itial open	flow -	- Bbl/d
		Final ops	n flow	142	Mcf/	d ,	Oil: Fir	nal open fl		Bbl/d
;		Time	e of open	flow be	tween i	niti	al and fi	inal tests	ho	urs
	Stati	c rock pre	essure 98	30 ps:	ig (surf	ace :	measureme	ent) after		rs shut in
				,				(Contin	* *	OV 8 (§§) verse side)

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

5/16/82 Oriskany S.S.

Perforation

5073-5078, 5045-5050, 5036-5040

56 shots

5/18/82

Oriskany S.S.

Frac:

50,000 # of 20/40 sand

Treatment pressure = 4000 psig

Total of 820 bbl of water and

174,000 SCF of N₂

9/20/82

Set Go-Elite 3.71" O.D. permanent bridge plug in 4 1/2" at 4500' (KB). Perforated Brown Shale selectively with 27 holes, .39" diameter from 4036'-4422'. 9/23/82 Frac: 60,000# of 20/40 sand, treatment pressure 2000 - 2900 psi; instantaneous shut in pressure 1270 psig; total 342 bbls

of water and 789 MSCF of nitrogent LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh
			and salt water, coal, oil and gas
Shale Sandstone and shale Sandstone Shale Coffee shale Berea S.S. Shale Brown shale	0 150 1600 2150 2480 2504 2517 3744	150 1600 2150 2480 2504 2517 3744 4280	s/g @ 3786, 4025, 4194, 4204, 4241,
Shale Marcellus Onendaga L.S. Oriskany S.S. Helderberg	4280 4650 4936 4997 5063	4650 4936 4997 5063 5136-TD	3/9 6 3/00, 4023, 4134, 4204, 4241, 4265 s/g @ 4424 s/g @ 4674
		The state of the s	
			2534
			1519

(Attach separate sheets as necessary)

KAISE	R EXPLORATION AND MINING	COMPANY	
We.	ll Operator		
By:	P. A. P		
Date:	September 27, 1982		

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 that, encountered in the drilling of a well."

FORM 10.2 (Obverse) (12-81)



	State	County	/ Per	mit
API Well No.	47	035	16	81
Operator's Well No.	KEM	#189		
Date: Marc	h 15	9	19 82	

Permit

State

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

	OIL AND	GAS WELL PER	MIT APPLICAT	ION
WELL TYPE:	Oil/ Gas	<u>x/</u>		
	(If "Gas", Production	X / Undergro	und storage	/ Deep X / Shallow/)
LOCATION:	Elevation: 894'	Watersho	d: Harpold Hol	low
	District: Ripley	County:	Jackson	Quadrangle: Kenna
WELL OPERAT	OR <u>Kaiser Exploratio</u>	n and Mining C	o. DESIGNATED AC	GENT R. A. Pryce
• •	P. O. Box 8			0. Box 8
	Ravenswood, WV	26164	Ra	venswood, WV 26164
OIL & GAS		T. L.	COAL OPERATO	R None
	NER Dorsel and Wilma			N NOTE
Address	<u>Rt. 1.</u>		Audiess	
•	Given. WV			
Acreage	107.62		COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OW	NER Same		Name	BECERTER
Address			Address	The second second second second
				MAR 1 7 1982
Acrese			Name	OIL AND GAS DIVISION WYDEPARTMENT OF MINES
FIELD SALE (IF MADE) TO:		Address	
Address				
47,00			COAL LESSEE V	WITH DECLARATION ON RECORD:
OIL & GAS IN	SPECTOR TO BE NOTIFIE	D	Name	WEELEN MILL
Name Rich	ard Morris		Address	APR 1 - 1982
	P. O. Box 372		· · · · · · · · · · · · · · · · · · ·	
	Grantsville, WV			OIL AND GAS DIVISION WY DEPARTMENT OF MINES
				X X
				ration under a deed/ leaseX
	/ dated <u>August 21</u>	, 19_80,	to the undersigned we	ll operator from Dorsel & Wilma
Fisher (IF said deed, 1	lease, or other contract has be	een recorded:)		
Recorded on	<u>September 5, 1980</u> . i	n the office of the Cle	rk of the County Comm	nission of <u>Jackson</u> County, Wes
Va., in <u>Le</u>	ase Book 157	_at page36	A permit is requested	as follows:
PROPOSED	WORK: Drill X / Drill d	eeper/ Re	drill/ Fractu	re or stimulate/
			te new formation	
	Other physical change	- 19 A	PANCIANS CLASS.	1921 - Barrist Art
	Street Surfaces countries	west (apecing),		
	-planned as shown	on the work order or	the reverse side her	eof.
The shove as	•			objection they wish to make or are required to
			i i	ys after the receipt of this Application by the
Department.		•	•	
-	Permit Application and the end	losed plat and reclam	ation plan have been m	ailed by registered mail or delivered by hand to
the above name	ed coal operator, coal owner(s),	and coal lessee on or	before the day of the n	nailing or delivery of this Permit Application t
the Departmen	t of Mines at Charleston, We	st Virginia.		
PLEASE SUBN	AIT COPIES OF ALL			
GEOPHYSICAL	L LOGS DIRECTLY		KAISER E	EXPLORATION AND MINING COMPANY
ПО:			Spanner -	Well Operator
MAKET VIDEIR	VIA OII AND GAS!		, ,	- , i

CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BIANKET BURD

By 1= all (1 /its <u>General Manager</u>

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

RILLING CO	NTRAC	TOR (IF	KNOW	N) _(Clint	: Hurt & As	sociates.	Inc.	-	•
			e i je jego i	Ad	dress	P. O. Box	388			
						<u>Elkview.</u>	WV 2507		_	
EOLOGICAL							-aca			
					1.0				Cable tools/	
- - -						feet;				
,				······································		Is coal	being mined	in the area? Ye	/ No X	/
CASING AND	TUBING	G PROG	RAM							*
			::::::::::::::::::::::::::::::::::::::	·						*
LASING OR TUBING TYPE		CIFICAT Grade	ONS Weight per ft	New	Used		NTERVALS Left in well	CEMENT FILL OR SACK (Cubic feet)		
Conductor									Kinds	
Fresh Water	10 3/	4		X		\$ 50'	# 50'	150 sks C1	ass A (to surface)	
Coal									Sizes	
intermediate	7"			X		2470'	2470'	55 sks 50/5	<u>O pozmix, 100 class</u>	_A
Production	4 1/	2		<u> </u>		5194'	5194'	225 sks 50/	50 Ozmiths set	
Tubing				-						
Liners .									Perforations:	•
			ŀ						Top Bott	tom
*###				-	-					
-				Д						
Code A s	§22-4-8 separate F	a from toor too.	he owner shall not	of an	y wate	er well or dwel for fracturing or	ling within 200 stimulating a	O feet of the pro well where fractu	the consent required by posed well. ring or stimulating is to n connection therewith.	
						•				
THIS PERMIT							~		·	
						TH CHAPTER 2				
						on is hereby mit shall ex				
						12-19-82				
BY			/	5	The second se					
34444	3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		*****	****		# 6 6 9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ଅବଶ୍ର ପ୍ରତ୍ତ ପ୍ରତ୍ତ ପ୍ରତ୍ତ ହେଉଛ		U U O O O O O O O O O O O O O O O O O O	
The deci	following aration u	waiver r	nust be co de 22-4	omplet 1-20, if	ed by t	the coal operato permit is to be	r and by any co issued within	al owner or coal le fifteen (15) days	essee who has recorded a of receipt thereof.	
						WAI	VFD			
proposed well The undersign	l location. ned has r	lf a min 10 object	e map exion to the	ists wh e work	iich coi . propo	/ lesse	e/ of the well location at this location	on, the well locati n. provided, the	this well location has exami on has been added to the mi well operator has complied	ne man
							Colonia de la co			
							Ву			
Date:			, 19)			ру			M

None

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

PARTIAL

AFFIDAVIT OF PLUGGING AND FILLING WELL THE R GAS DIVISION OF MINEE

. 1982

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SMOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ABDRESSES.

NUTTE	THE MANUAL PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROP	Kais	er Exploration	and Mining	Company
©0.	al operator or owner		name of well	OPERATOR	
4.750 Miteraturi have governige department relation and all a section of the section and the section and the section of the section and the se	ADDRESS	· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~). Box 8, Ravens		26164
<u>None</u>	•	Octo	complete a ber 26	DDRESS	
604	LL OPERATOR OR OWNER	Compared to the compared to th	WELL AND L	OCATION	<u>19</u> 82
455-4945 456-billion-weekshalayati alaqii qaasi shakkaran kaalilaana valaa alaqii alahanaa soo ahaanaa		Ripl			District
Dorsel & Wi	Aponsos Ima Fisher	70 2			DISTRICT
LEAS	E OR PROPERTY OWNER	. <u>Jack</u>	son	The state of the s	County
Rt. 1, Give	n, WV	Well 1	No. KEM #189		•
	AD DYZG S				Ministrative community and a section of the contract of the co
	•	Dors	el & Wilma Fishe	r.	Farm
STATE INSPECTO	R SUPERVISING PLUGGING	Richar	d Morris		GL III
	and the Carlo Carl	" o sommo do o como con o como	C. 1101 1 1 2	<u> </u>	# ### ################################
	AFF	IDAVIT			
STATE OF WES	•				
County oflac	ksonss:	•			
<u> R. L. C</u>	oty	and R.	A. Prvce		
being first duly s	sworn according to law depose	and sav tl	hat they are experie	encod in the	2
- E	- bottorca m me work of bi	HOOMA AMA	fillian make . 1.	well, that sa	aid work
was commenced o and filled in the f	ulie culi date av Sebiome	<u>er</u>	., 19 <u>82</u> , and that t	he well was	nlugged
Commence of the commence of th	onowing manner:			are areas as card	hrn22en
SAND OR ZONE RECOR	p Filling Material		PLUGS USED	(D) 0	
FORMATION .			SIZE & KIND	Cea	SING .
Oriskanv	Bridge plug @ 4500' (K	(B)		PULLED	LEFT IN
5045'-5078' (KB)	15' of Caseal on top o	PRINCE AND DESCRIPTION OF THE PRINCE OF THE	4 1/2" permaner	17	
ACT OF COMPANY OF COMP	est. @ 4485' (KB)	T hind	Gearhart-Owen	None pu	lled
CASSES PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PROP					
CONTRACTOR	Plug back to Brown Sha	le Interv	2 Î		-
of \$0.000 to proper continues to the continues of the con					
ACT SOUTH COMMON AND AND AND AND AND AND AND AND AND AN					***************************************
					The state of the s
					NO. OF THE PARTY O
CEST COUNTY DAYS THE RESIDENCE OF THE PROPERTY					Merchanista and a supplied to the supplied of
Charles and the second					
Chip destruction Contraction and Chip and the State of Contraction and Contrac					MITTER SERVICE
COAL SEAMS					March and Company of the Company of
(MARK)			DESCRIPTION	OF MONUMEN	4T
(MAME)					
(MAME)					
(MANC)					
The state of the s					
and that the work	of plugging and filling said v	vell was co	ampleted on the	20th	2
<u>September</u>	, 1982.	, com 1, 640 At	mpieted on the		day of
And further der	oonents saith not.		$\wedge D$		
Suran de and	should be a second of the seco		- vory		#** *** ****
PAATH TO BUG SI	ubscribed before me this 27	day of	October	<i>/</i>	82
My commission expi	Trs:	1100	ea ann H	alber	
December 1, 198				Notary Pu	
	Secretary and the secretary an		Permi	t No. JAC-	1681
•				\$35-	



Basin Surveys, Inc.

	GU	MPER	SATE	ם פ	ER	SIT	YL	• C
FILIN	1G NO.		KAISE	R EXP	LORAT	ION &	MINING	COMPANY
		COMPANY						
PER	MIT #	WEIL	KEM #	189	<u> </u>	F15,	HER	
	-1681-	FIELD	RIPLE	Y DIS	TRICT			
47 - 035		COUNTY	JACKS	ON		STATE	$V\Lambda$	
		HARPO	LD HOLLOW KENNA	Ψ	81		OTHER SERV	
Permai Log Me Drilling	nent Datur easured Fr g Measure	GROUN OM_ K.B. d From_	D LEVLE		818 Elev.:		Elev. K.B. D.F. G.L.	
Date			5-13-82				-	
Run N			ONE					
Type L			GR/COMP.	DENVO	CAL/US	GD		
	-Driller		5122'					
	Logger		5136'					
	i logged i		5134'					
	gged inter		2450'					
	luid in ho		AIR DRILI	_ED		· · · · · · · · · · · · · · · · · · ·		
	nity, PPM	C1.						
Den: Leve					·····			
	ec. temp.,		terino					
	ting rig ti							
		IIIC	6 1/2 HRS			***************************************		
Recorded by Witnessed by			K. FISHER		MD O	OV		
			MR. MATHE	SWS &	MR. C	UA		
Pun		Bore-Hole Re	cord			Casing 1	Pacord	
No.	Bit	From	To	Size	Wgt.	Fre		To
1	6 1/4		T.D.	711		SURF		2464'
				•	,	BOICE	•	2707
	t	**************************************	 			 		

