



H. T. HALL

DEFDWELL 6-4

Elk-Poca (Sissonville) (192



IV-35 (Rev 8-81)

State of West Birginia

Bepariment of Mines Bil und Ges Bivision

Date June 20	1986	_
Operator's	(
Well No. KEN	M 236	
Farm Staats		_
API No. 47 -	035 -1732	

(Continue on reverse side)

WELL OPERATOR'S REPORT OF

Frac.

	WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Underground	/ Wa	ste Disposa	l/ p/ Sha	illowX/)
	LOCATION: Elevation: 773 Watershed Tug	Fork			
	District: Ripley County Jacks	on	Quadrangle	e Ripley	
	COMPANY Kaiser Exploration & Mining Co.				
	ADDRESS P.O. Box 8 Ravenswood WV 26164	Cacino	Used in	7054	Cement
	DESIGNATED AGENT R. A. Pryce	Caging	\$		fill up Qu. ft.
	ADDRESS same	Size	1 DETTINA	Ti well	Cu. IC.
	SURFACE OWNER Enoch Staats	20-16		MEGETTALEONE	
	ADDRESS 202 Edgewood, Ripley, WV 25271	Cond.		304 1	175 64
	MINERAL RIGHTS OWNER Clara L. Staats	13-10'		304	175 sx
•	ADDRESS South Ritchie, Ravenswood, WV 26164	9 5/8			
	OIL AND GAS INSPECTOR FOR THIS WORK Jerry	8 5/8	· · · · · · · · · · · · · · · · · · ·		
	Tephabock ADDRESS Rt. 1 Box 101A Ripley, WV	7		2366'	175 sx
	PERMIT ISSUED 7/14/82 \ 5-4-84 25271	5 1/2			
	DRILLING COMMENCED July 18. 1982 3-28-86	4 1/2		5167	235 sx
	DRILLING COMPLETED July 25, 1982 \ 4-5/86	3			
	IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	. 2 Liner: used	B and the large of		
	GEOLOGICAL TARGET FORMATION Oriskany S.S.			L	100
	Depth of completed well 5186 feet R	~~~·	Dep	The second secon	A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN T
	Water strata depth: Freshfeet;				
	Coal seam depths:	**************************************			No
		C	a very nu	on Tii Cik	arear
	OPEN FLOW DATA				
	Producing formation Berea Sandstone		Pay zone dep	th 2476/	2480 feet
	Gas: Initial open flow Mcf/d	Oil:	Initial open	flow	Bbl/d
Ward	Final open flow 800 (est) Mcf/d				
EPNL	Time of open flow between initi Static rock pressure 850 psig(surface			The second second	
(2)	•		rement) afte	r_72 ha	ırs shut ir
	(If applicable due to multiple completion-				
	Second producing formation		Pay zone dep	th	feet
	Gas: Initial open flow Mcf/d				
	* 1 T = 1	~~ T . T	7: T	•	
	Final open flow Mcf/d Time of open flow between initi				

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

See previous IV-35

2476 - 39

3/28/86 Young's Wireline perf Berea with 4 holes from 2426'-2480'.

4/05/86 Halliburton foam frac Berea. Break down pressure: 2000 psig; sand: 45,000# 20/40; total fluid: 298 bbls; ISIP: 1050 psig; 5 MIN SIP: 1500 psig

WELL LOG

FORMATION	∞Lor .	HARD OR S	OFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
						· .
See pre	vious I	V-35				
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					San Alaman Company	
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						en de la companya de La companya de la co

(Attach separate sheets as necessary)

RAP-		
Well Operator		
By: KAISER EXPLORATION AND	MINING COMPANY	
Date: June 20 1986		1.2

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."

IV-35 (Rev 8-81)

		,				
		• .				
	Date_	Decem	ber	1,	1982	
	Opera	tor's				Second Toxon
@ -#7 \$48	Well	No.	KEM	1 -	236	

RECEIVED State of Mest Birginia

Oil und Cas Division

Fam		Staa					-
API	No	. 47	035	61	17	~ =	-

DEC 1 4 1982

OIL AND GAS DIVISION WELL OPERATOR'S REPORT

WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Was ind Stora	te Disposa ge/ Dee	l/ p/ Sha	llow/)
OCATION: Elevation: 773' Watershed To	ig Fork		•	
District: Ripley County Ja		Quadrangl	e Ripley	
OMPANY KAISER EXPLORATION AND MINING COMPANY				
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Caşing	Used in	Left	Cement
ESIGNATED AGENT R. A. Pryce	Tubing	Drilling	, Table	fill up Cu. ft.
DDRESS P. O. Box 8, Ravenswood, WV 26164	Size			
URFACE OWNER Enoch Staats	20-16			
DDRESS 202 Edgewood, Ripley, WV 25271	Cond.			
UNERAL RIGHIS OWNER Clara L Steats	13-10"		304'	175 sx
DDRESS South Ritchie, Ravenswood, WV 26164	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Richard	8 5/8			
orris ADDRESS P.O. Box 372, Grantsville	7		2366'	175 sx
PERMIT ISSUED 7/14/82	5 1/2	_		
PRILLING COMMENCED 7/18/82	4 1/2		5167'	235 sx
	3			
RILLING COMPLETED 7/25/82	2			
OF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
EWORKING. VERBAL PERMISSION OBTAINED	used			
EDIOGICAL TARGET FORMATION Oriskany S.S.		Dep	th 5064-5	29 fee t
Depth of completed well 5186 - feet F	otary X	/ Cable	e Tools_	
Water strata depth: Fresh feet;		feet	Callina	
Coal seam depths:	Is coal	being min	ed in the	area?
PEN FLOW DATA				
Producing formation Oriskany S.S.	Par	y zone dep	th 5098-5:	l60 feet
Gas: Initial open flow N/A Mcf/d	Oil: In	itial open	flow	Bbl/d
Final open flow To small to Mcf/d	Fi	nal open f	low	Bbl/c
Time of open flow between initi			Carrier Marie Carrier	
Static rock pressure psig(surface		a a		
(If applicable due to multiple completion-		•	CONTRACTOR	
Second producing formation Devonian Brown		v zone den	th //20 //	og fee t
Gas: Initial open flow Mcf/d			#################################	Bb1/c
Final open flow 164 Mcf/d		-	0,4104,4104,410	
Time of open flow between initi		-	Collection and the second	
		•	***************************************	
Static rock pressure 950 psig(surface	HEASUTEN	•	The state of the s	
•		(Conti	rue on re	verse side

(PEVEICE)

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

Oriskany S.S. Perforation:

5098-5160 Shot selectively

50 holes

7/30/82 11/11/82

7/28/82

Oriskany S.S.

Devonian Brown SHale

Fracture: Perforation:

· Set permanent bridge plug at 4350'

4129-4296 shot selectively, 21 holes, 0.39" dia. Fracture:

11/18/82 Devonian Brown Shale

20# gel system with 60,000# 20/40 sand, 890 MSCF N_2

Breakdown at 800 psig

Treat: 3250 psig ISIP: 1050 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
Sandstone and shale Sandstone and shale Limestone Sandstone and shale Limestone and shale Shale Coffee Shale Berea S.S. Shale Brown shale Shale Marcellus Onondaga L.S. Oriskany S.S. Helderberg	0 1119 1230 1800 1966 2093 2443 2466 2476 3716 4285 4670 4980 5064 5129	1119 1230 1800 1966 2093 2443 2466 2476 3716 4285 4670 4980 5064 5129 5186T.D.	s/g @ 3008, 3028, 3076, 3250, 3316 s/g @ 3780, 3805, 3855, 3885, 3946, 4143 s/g @ 4696 s/g @ 5085, 5115 s/g @ 5143
•			

(Attach separate sheets as necessary)

EXPLORATION AND MINING COMPANY

Well Operator

Date: December 1

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 wall, snowntered in the drilling of a well." 7084 IV.2 (05-6-2) (12-81)



Date: Jun	e 18		19	82	io de la constante de la const
Operator's Well No	KEM	#236			
API Well h	lo. 47	035		1732	

State

County

Permit

STATE OF WEST VIRGINIA

		NT OF MINES, OIL AND O				
	OIL AND GA	S WELL PERMIT	\PPLICATIO)N		
WELL TYPE:	Oil/ GasX					
	(If "Gas", Production X					_/)
LOCATION:	Elevation: 773	Watershed:	ug Fool			
	District: Riples	County:	cksor	_Quadrangle: _	gblet	
WELL OPERATO	OR <u>Kaiser Exploration</u> a	and Mining Co. DES	GNATED AGE	NT R. A. Pry	<u>ce </u>	
	P. O. Box 8	MONTH OF THE PROPERTY OF THE P		. Box 8		,,
	Ravenswood, WV 26	164	Rave	nswood, WV	26164	
OIL & GAS	NER <u>Clara L. Staats</u>	COA	L OPERATOR_	None		
Address	South Ritchie		Address			
	Ravenswood, WV					
	272		I OWNER(S) V	VITH DECLARA	TION ON REC	ORD:
Acreage			e Same as m		11011 011 100	.
	NER Enoch Staats					
Address	202 Edgewood		Wariezz			
	Ripley, WV 2527	7.0				
* \$550	272	Nan		**************************************		
FIELD SALE (Address			
Address_		· · · · · · · · · · · · · · · · · · ·	T TOOCE WE	TU DECLADATE	ON ON PECOE	. D.
				TH DECLARATE	IBCBI	VE
OIL & GAS IN	SPECTOR TO BE NOTIFIED		ne			000
	ard Morris	·	Addiess		-NN 55 1	382
Address	P. O. Box 372				WV DEPARTMEN	DIVISION IT OF MINES
	Grantsville, WV					v
	ned well operator is entitled to opera					
other contract_	/ dated <u>January 11</u>	19 <u>82</u> to the us	idersigned well o	perator from C	ara Staats	
	ease, or other contract has been					
Recorded on	19, in the	e office of the Clerk of the	County Commiss	sion of <u>Jacksor</u>	Cour	nty, West
	ase Book 168 at				. 3	
	WORK: Drill X / Drill deep					
	Plug off old formation					
	Other physical change in				水系统 第155年4章 元	3 F. J. W.
	emer physical change m	wen (specify)				
	-planned as shown on t	the work order on the re-	erse side hereof	•		
The shove no	med coal operator, coal owner(s), as				to make or are re	equired to
	\$22-4-3 must be filed with the Dep					
Department.	•		•	•		
Copies of this	Permit Application and the enclose	ed plat and reclamation pla	n have been maile	ed by registered m	ail or delivered b	y hand to
the above name	d coal operator, coal owner(s), and	coal lessee on or before t	ne day of the mail	ling or delivery of	this Permit App	lication to
the Department	t of Mines at Charleston, West \	/irginia.				
	IIT COPIES OF ALL	·			•	
GEOPHYSICAL TO:	L LOGS DIRECTLY	•	KAISER EX	PLORATION AN	D MINING CO	MPANY

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

Well Operator

is - General Manager

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

W100 W W C 1 1 W W W		- 2 6 7 8 6 8 8	KNOW			P. O. Bo		inc	
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GEOLOGICAL	TARC	ET EOD	· A O I T A M						
GEOLOGICAL						-			
								y/ Cal	ble tools/
	to Article Control						; salt,		
					1990 (Annual Control	ls coa	l being mined	in the area? Yes	/ No X /
CASING AND	TUBIN	G PROG	RAM					and the second second	
**************************************		Selfelie bereitoone (general mage)							
CASING OR	ii coe	CIFICAT	.00.0	4		· Footes			
TUBING TYPE	Size	Grade	Weight per ft	New	Used	For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor			<u> </u>						Kinds
Fresh Water	10 3/4						₹50'	150 sks class	A (to surface)
Coal									Sizes
Intermediate	7"					2359	2359	65 sks 50/50 100 sks class	
Production	4 1/2	2 ::				5179	5179	225 sks 50/50	
Tubing									
Liners				·					
•									Perforations:
									Top Bottom
				<u> </u>					
previo Code	usly paid \$22-4-8a	on the safeth	opiicable ame well, e owner shall not b	to the fe of any	e recla: e requ water	mation require ired by Code § well or dwell or fracturing or	d by Code \$2 22-4-12a, and (ing within 200 stimulating a v	yed by Code § 22-4-2 2-4-12b and Regulati v) if applicable, the co- feet of the proposed well where fracturing of Form IV-2 filed in con-	on 23, (iv) unless consent required by i well.
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THIS PERM									
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The fo	llowing w	vaiver mu	ist be con	nplete	d by the	coal operator	and by any coal	owner or coal lessee	who has recorded a
declar	ation un	der Code	22-4-2	20. if 1	the per	mit is to be i	ssued within fi	ficen (15) days of re	ceipt thereof.
						VIAW	ER		
The undersigner proposed well to The undersigner applicable requirements.	d has no	objection	to the	work r	ranaer	lessee.	/ of the well location	. the well location has	ell location has examined this s been added to the mine map. operator has complied with all
Date:			10		• •		Ву		
Jaic:	DATE OF THE PROPERTY OF THE PR		_, 17_				lts		
							813	Antirologica antirologica de la descripto de la	

<u>December 1, 1985</u>

RECRIVED

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

UEC 14-1873

OIL AND GAS DIVISION WY DEPAR MENT OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL

	THIRD COPY (AND EXTRA COPIES IF REQUIRE)		A STATE OF THE STA		
11114 KA-1-2-E-L-BA 1803	ation and Mining Company	San	1e Name of Well o		naka eta desa qua escando aso
P. O. Box 8.	Ravenswood, WV 26164		where or start of	PERATOR	
None	ADORGEZ	6	COMPLETE ADD	RESS	ALTERNATION AND AND AND AND AND AND AND AND AND AN
COAL (OPERATOR OR OWNER	Lecen	ber 10 WELL AND LOG	CATION	<u> 19_82</u>
		Riple			Distric
<u> Clara Staats</u>	Abdres	Jacks	on :	·	
lease :	or property owner	UACKS			_Count
South Ritchie	, Ravenswood, WV 26164	Well. 1	No. KEM #236		
	Address	Clax	a Staats		
· ·	•	eft-eccoupaneguates industriations	,我们就是我们的人,我们就是我们的人,我们就会会看到这一个人,我们就是我们的人,我们就是我们的人,我们就是这个人的人,我们会会会会会会会会会会会会会会会会会会	en e	Farn
STATE INSPECTOR	SUPERVISING PLUGGING HO	omer Dou	gherty.	෩෬෧෩෪෮෮෨ඁ෦෦෩෮෦෦෩෧෩෨෮෮෧෮෮ඁ	~ <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>
	AFFID	AVIT			
STATE OF WEST					* f
County of Jackson	on Ss:				•
R. A. Pri	VCP	9	R. L. Coty		
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was commenced on	the II day of November		. 19 82 and that th		21000 224
and filled in the fol	lowing manner:		y was seen and seen a	c mett mad	brn88ed
SAND OR ZONE RECORD	FILLING MATERIAL	The state of the s			
	The second of the second secon		PLUGS USED	ra.	E S S S S S S S S S S S S S S S S S S S
PORMATION		to the and negative processing a processing and the second	PLUGS USED	CA:	SING Caa
	Permanent Baker Bridge p	lug	SIZE & KIND	C3 G PULLED	CSG
		lug	szzekimb 4 1/2" báker	None	CSG
PORMATION Oriskany Ss.	Permanent Baker Bridge p	lug	SIZE & KIND	None	CSG
	Permanent Baker Bridge p	lug	9722 & KIND 4 1/2" baker permanent bridg	None	CSG
	Permanent Baker Bridge p	lug	9722 & KIND 4 1/2" baker permanent bridg	None	csa
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	Permanent Baker Bridge p	lug	9722 & KIND 4 1/2" baker permanent bridg	None	CSG
Oriskany Ss.	Permanent Baker Bridge p	lug	9722 & KIND 4 1/2" baker permanent bridg	None	
COAL BEAMS	Permanent Baker Bridge p	lug	9722 & KIND 4 1/2" baker permanent bridg	None	CSG LEFT II
COAL BEAMS	Permanent Baker Bridge p	lug	PESCRIPTION	None S OF MONUMEN	CSG LEFT II
COAL BEAMS AME)	Permanent Baker Bridge p	lug	STEE NIND 4 1/2" baker permanent bridg plug	None S OF MONUMEN	CSG LEFT II
COAL BEAMS AMED AMED	Permanent Baker Bridge p	lug	PESCRIPTION	None S OF MONUMEN	CSG LEFT I
COAL BEAMS AMED AMED	Permanent Baker Bridge p	lug	PESCRIPTION	None S OF MONUMEN	CSG LEFT I
COAL SEAMS AME; AME; AME; AME; AME;	Permanent Baker Bridge p set at 4350! f plugging and filling said we		Partial plug, no	None None Monument	ese LEFT!
COAL SEAMS AME: AME: AME: AME: AME: AME: AME: AME:	Permanent Baker Bridge p set at 4350! f plugging and filling said we		Partial plug, no	None None Monument	CSG LEFT I
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JACK - 173

Notary Public. Permit No. 1732 FORM-(V-2(B) (Obverse) 7-83



)	Date: April 5	19_84_
1	Operator's	

2) Operator's Well No. KEM-236

3)	API Well No.	47 _		035	- 1732-FR		
•		State		County		Permit	

DEPT OF MINES, OIL AND GAS DIVISION

			. *		A	<u>PPLICA</u>	TION FOR A V	VELI	L WORK PERMI	<u>r</u>			
4)	WELL TY	PE: A O)il	/ Ga	ıs	Χ/							
		-		Production		X	/ Undergrou	ind s	torage	/ Deep	_/ Shallow	<u>X</u> /)	
5)	LOCATIO		evation: _		<u>773 '</u>		Watershed		——————————————————————————————————————				-
6)	WELL OP		strict:			Fyn	County: _	~~	<u>Jackson</u>	Quadrangle: _ DAGENT <u>R. A.</u>	Ripley		-
0)	Address			OV S	LISCI	עאם	<u>a mining</u>		/) DESIGNATE. Address	DAGENT <u>R. A.</u> SAME	Pryce		-
				ood, W	V 2	6164			Address	SAME		. ,	
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:													
Name J. Tephabock Name Kaiser Drilling Rig #1											-		
Address Ripley, WV 25271 Address Ravenswood, WV 26164													
10)	10) PROPOSED WELL WORK: Drill/ Drill deeper/ Redrill/ StimulateX/												
/	Plug off old formation/ Perforate new formation X /												
										a; treat Bere	a: isolat	e Shale.	Ber∈
11)	GEOLOGI	CAL TAR	GET FOR	MATION	. <u> </u>	erea	<u>Sandstone</u>		with	tubing and p	acker		
	12) Estima	•	•	, -			PBTD) f	eet					
	13) Appro		-			00'	•	,-	800'	feet.			
1.5	14) Appro		-		No	ne	I	coa	l being mined in the	e area? Yes	/ No	/	
,	SING OR	וו זמטו מאז									1.		
	BING TYPE	Size	Grade	UFICATIONS Weight per ft.	New	Used	FOUTA	GE IN	TERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKI	ERS	
Conc	iuctor										Kinds Non	6	
Fresh	ı water	10 3/4	<u> </u>	32.75	X		304'	(K	3) 3041 (B) 175 sx Ne	11	<u> </u>	*
Coal		 			****	ļ				75 0	Sizes -		
	mediate	/ /	<u>K</u>	20	X_		2366'	(K		B) 100°sx Né	#t^		
Tubii	uction	4 1/1	<u> </u>	11.60	X				5167 ¹ (I	(B) 235 sx Po	prpepyhs set -		
Liner								-			Perforations:		
		-									Top	Bottom	
											4129		(KB)
							Trinitae					+230 ('KD)
***************************************					***************************************		OFFICE US	-	AIT SZ		·	***	
- MARIOTT AND							OFFICE USI DRILLING						
		4.7	00E 17	200 774	_			LEVEN	VIANE T				
Pern	nit number_	4/-	035-1/	32-FRA	<u>C</u>					May 4,		1984	
Thic	permit cove	ring the we	il operate	r and mall	loontic	ın ahauu	. balan is suides			Dat	-		
quire	ments subje	ct to the co	nditions o	contained h	erein a	nd on th	e reverse hereof.	ce or Not	f permission grante ification must be g	ed to drill in accordan	ce with the pert land Gas Insoed	inent legal re-	
No.	Prior to t	he construc	ction of ro	ads. locati	ons and	l pits for	any permitted w	ork.	In addition, the w	ell operator or his con-	tractor shall not	ify the proper	
									•				
rever	se hereof.	ork is as uc	scribed in	the Notice	and A	ррисанс	n, piat, and reci	amat	ion plan, subject t	o any modifications ar	nd conditions sp	ecified on the	
Perm	nit expires _	May	4, 19	86			unless v	vell w	vork is commenced	prior to that date and	prosecuted with	due diligence.	
_													
Вс	ond:	Agent	: 4 I	Plat:	Casin		Fee						
Br	ANKET	Ÿ.	0	TS -	7.	5 /2	357				1		

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

Administrator, Office of Oil and Gas