



IV-35 (Rev 8-81)

State of Mest Nirginia

Pepartment of Mines Gil und Gas Pivision

Date_	Janu	arv	30	1986				
Date January 30, 1986 Operator's								
Well	No	KEM	#653					
Farm	Keto	hum						
API N	o. 47	_	107	- 1380)			

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

TOCATION	: Elevation: 637					
	District: Harris	CountyW	ood	Quadrangle	<u>Lubeck</u>	
COMPANY A	Caiser Exploration and	Mining Company				
_	2. O. Box 8. Ravenswood	•	Caşing	Used in	Left	Cement
	ED AGENT Robert A. Pry	•.	Tubing	Drilling		fill up Cu. ft.
ADDRESS			Size	D	2. 11022	
	OWNER David D. Steele		20-16			
	Rt. #2. Belleville, W		Cond. 10 3/4" 13710"	30'	30'	
	RIGHTS OWNER Harold			30	30	
ADDRESS			9 5/8 8 5/8			
OIL AND	GAS INSPECTOR FOR THIS	S WORK Glen		2571	257'	100 sks cl
Robinso	GAS INSPECTOR FOR THIS Rt. 1, ADDRESS Minera SSUED 10/1/85	#6 Pleasant Est <u>1 Wells, WV</u>	5 1/2	257'	25/	
PERMIT I	SSUED 10/1/85		4 1/2	1984'	1984'	100 sks 50/50 pozm
DRILLING	COMMENCED 10/29/85		3	1304	1304	307 30 0020
DRILLING	COMPLETED 11/07/85	·	. 2			
	CABLE: PLUGGING OF D					
	US PROGRESSION FROM D G. VERBAL PERMISSION		Liners used			
ON					<u> </u>	
GEOLOGIC	AL TARGET FORMATION_	Berea Sandstone	2	Dep	th 1979	et feet
	oth of completed well_					
Wat	er strata depth: Fre	shfeet	; Salt	feet		~
Coa	al seam depths: N	one	Is coal	being min	ed in the	e area? No
OPEN FLO	W DATA		Drilled	on fluid,	not know	m.
	oducing formation Ber	ea Sandstone	Pa	y zone dep	th 1915-1	918 feet
	: Initial open flow_					
	Final open flow					
	Time of open	flow between in	uitial and f	inal tests	72 h	ours
Sta	atic rock pressure 50	nopsig(surf	ace measure	ment) afte	er 48 ho	urs shut ir
(I)	f applicable due to mu	altiple completi	ion)			
Se	cond producing formati	ion	Pa	ly zone dep	oth	feet
	s: Initial open flow					
	•					
	Final open flow	Mcf/d	i Oil: Fi	inal open i	low	Bbl/c

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

11/11/85 Young Wireline perforated the Berea from $\underline{1915}$ - $\underline{1918}$ ' with 12 shots. 11/12/85 Dowell 75% foam fractured the Berea with 500 gal of 15% HCL, 45,000# of 20/40 sand, 15,000# 10/20 sand, 562 MSCF nitrogen, 297 bbls fluid. Treating pressure: 1900 psig. ISIP: 1200 psig. 5 min. SIP: 1100 psig.

WELL LOG

	Υ	1	REMARKS		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including and salt w	indic	ation of all fresh coal, oil and gas
Shale	0	70			
Sand	70	106			
Shale	106	218			
Sand	218	237			
Shale	237	402			••
Sand	402	· 485			
Shale & Siltstone	485	1220			
Sand	1220	1253			
Shale & Siltstone	1253	1372			
Sand	1372	1410			
Shale	1410	1430			
Salt Sands	1430	1576			
Shale	1576	1905			
Coffee Shale (Sunbury)	1905	1915			
	1915	1919	s/oil		•
Berea Sandstone Shale	1919	1994] 3,011		
Share	1 1 1 1 1	1774			
Total Depth (Logger)	1994				• • • • • • • • • • • • • • • • • • •
Total Depth (Bogger)	1				
•					
	1				
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(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator
By: >1
Date: January 30, 1986

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."



1)	Date: Aug	ust 7	7	19_85
2)	Operator's		"650	

Permit

Well No._

3) API Well No. 47 -107-1380 County

STATE OF WEST VIRGINIA

BURE ON DE VIL & ORBAR	RTMENT OF ENERGY, OIL AND GAS DIVISION
DIVISIONENT OF ENERGY	APPLICATION FOR A WELL WORK PERMIT
DEPARTMENT	

Di	EPARIN	ALIV: O					***************************************		
4) WELL TY	PE: A C	oil <u>X</u>	/ G	as	X/				
	B (1	If "Gas",		n	Х	/ Underground	storage	_/ Deep	
5) LOCATIO	N: Ek	evation: _	<u>637'</u>		11.0	Watershed: _		<u>'k of Lee Cre</u>	
		strict:	<u>Harri</u>		465	County:	Wood	Quadrangle:	Lubeck
6) WELL OP	ERATOR	<u>Kaiser</u>	Explo	rato	<u>ņ</u> coi	DE: 23330	7) DESIGNATED	AGENT R. A	<u>. Pryce</u>
Address	p	nd Min	0X & -				Address	Same	
		avensw	,		6164				
8) OIL & GAS				FIED			9) DRILLING CO		
Name		Robins	on				NameC1	int Hurt	
Address	Rt.						Address	P. O. Box 38	8
	Mine	ral We	IIS, W					Elkview. WV	
10) PROPOSE	D WELL	WORK:	Drill	<u> </u>	_/ Dril	deeper	/ Redrill	/ Stimulate	
			•		formatio		rate new formation_		
				hysical	change i	n well (specify)	20-		
11) GEOLOGI				,	<u>Berea</u>	Sandstone 2	215		
12) Estima	ted depth	of complet	ed well,		19/	g feet			•
13) Appro	ximate trat	ta depths:	Fresh, _			feet; sal	t,	feet.	
14) Appro	ximate coa	l seam dep	ths:			ls co	oal being mined in the	area? Yes	/ NoX
15) CASING A	ND TUB	ING PRO	GRAM					•	
CASING OR TUBING TYPE		SPEC	IFICATION Weight	S		FOOTAGE	INTERVALS	CEMENT FILLAUP	PACKERS
TOBANG TIPE	Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor			<u> </u>	<u> </u>					Kinds
Fresh water	7"			<u> </u>	<u> </u>	250	250	100 sks cla	s A to surface
Coal		<u> </u>	<u> </u>						Sizes
Intermediate	 	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
Production	4 1/	2"			ļ	1979	1979	180 sks cla	SepAs sto surface
Tubing		ļ		<u> </u>					
Liners			<u> </u>		<u> </u>				Perforations:
NOTE	KONS	ITIO	NIN	G_	OF	ROAD		STRUCT	Bottom Bottom
	 	 				AND	RECLA	MATION	PLAN
		<u> </u>	<u> </u>	J	<u> </u>			<u> </u>	
						OFFICE USE			
•						DRILLING PE	ERMIT		
Permit number_	47-	107-1	380					0c	tober 1 19 85
			··· · · · · · · · · · · · · · · · · ·					Dat	
This permit cove	ring the w	ell operate	or and wel	l locati	on show	below is evidence	of permission grante	d to drill in accordan	ce with the pertinent legal re-
quirements subje	ct to the c	onditions	contained	herein	and on th	ne reverse hereof _{No}	tification must be giv	en to the District Oil	ce with the pertinent legal re- and Gas Inspector, (Refer to tractor shall notify the proper
(0. 8) Prior to the	e construct as inspecto	tion of ros	ds, location as	ons and	pits for	any permitted work work has commence	in addition, the we	ell operator or his con	tractor shall notify the proper
				_					
i ne permittea we reverse hereof.	ork is as d	escribed in	the Notic	e and A	Application	on, plat, and reclam	iation plan, subject to	any modifications a	nd conditions specified on the
Permit expires _	Oct	ober	1. 19	87		unless wel	l work is commenced	prior to that date and	prosecuted with due diligence.
							. WOLK IS COMMENCED	prior to that date and	prosecuted with due dingence.
	_	T			T				
Bond 2	Agent	: F	lat:	Casi	ing	Fee WPCP	S&E	Other	*
	Ar.	BIr	nut	m	W/C	(800) V		/ <u> </u>	
		 -			- 76	· 77 4	1/	1	
							K	Jauk	Y
NOTE: Keep or	ne copy of	f this perm	it posted	at the c	rilling lo	cation.	irector Di-	ision of Oil	and Can
		-			-	ע	TIECTOI, DIV	1910H OI OII	and Gas File