

IV-35 (Rev 8-81)





OIL & GAS DIVISION Strike of Mest Mirginia DEPT. OF. N. Department of Mines Gil und Gas Division

Date	5-02-84
Operato	or's . KEM-371, Wigal
	Lester Wigal
API No.	<b>47 -</b> 107 <b>-</b> 1257

WELL OPERATOR'S REPORT OF

# DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

IOCATION: Elevation: 724 Watershed	North Fork	of Lee Cre	ek	
District: Harris County	Doow	Quadrangle	Lubeck	•
•		Ç,		
COMPANY Kaiser Exploration and Mining Co.			Toff	Cement
ADDRESS P.O. Box 8, Ravenswood, WV 26164	<b>.</b>	Used in		fill up Cu. ft.
DESIGNATED AGENT Same	Tubing	Drilling	In well	Cu. It.
ADDRESS Same	- Size 20-16			
SURFACE OWNER Lester E. and Geneva Wigal	Cond.			
ADDRESS Rt. 1. Box 52. New England. WV	13-10-3/4"	291'KB	291'KB	175 sx Clas
MINERAL RIGHTS OWNER Same	9 5/8			flocala
ADDRESS Same	8 5/8			100 sx 50/ posmix, 10
OIL AND GAS INSPECTOR FOR THIS WORK Homer	7		1991'KB	posmíx, 10
Daugherty ADDRESS Looneyville, WV	- 5 1/2	<u> </u>		3% CaCl
PERMIT ISSUED	4 1/2			
DRILLING COMMENCED Dec. 8, 1983	- 3		1	
DRILLING COMPLETED Dec. 11, 1983	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
ON	_		<u> </u>	
GEOLOGICAL TARGET FORMATION Berea Sands	tone	Dep	th 2011'	_ <sub>KB</sub> feet
Depth of completed well 1991' KB fe	et Rotary>	/ Cabl	e Tools_	
Water strata depth: Fresh N/A fe	et; Salt N/	feet	•	
Coal seam depths: None	Is coal	being mir	ned in the	e area? No
OPEN FLOW DATA				
Producing formation Berea Sandstone	. Pa	y zone dep	oth1938'-1	942' (KB <b>feet</b>
Can Tribial mon flow Mcf	/a Oil: In	itial oper	a flow	Bbl/d
Final open flow 850 Mcf	/d Fi	nal open i	flow	Bbl/d
Time of open flow between	initial and f	inal test	s 4 h	ours
Static rock pressure 800 psig(su				
(If applicable due to multiple comple		•		
Second producing formation		y zone dej	p <b>th</b>	feet
The state of the s	/d Oil: Ir	itial oper	n flow_	Bbl/d
Gas: Initial open flow MCI				
Gas: Initial open flow Mcf  Final open flow Mcf	E/d Oil: Fi	nal open	flow	Bbl/d

FORM IV-35 (REVERSE)

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

4/16/84 YOUNG"S WIRELINE - Perfs. 16 holes (.41" dia.) from 1938'-1942',

NOWSCO Foam Frac, 15% HCL pad. 200 bbl foam pad. Treated pressure 1850 psig. Used 45,000# 20/40 sand, 15,000# 10/20 sand. Total nitrogen 638,100 MSCF, total fluid 306 bbls; ISIP 1600 psig. SIP = 1440 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
Soil and Shale Sand Shale and Siltstone Sand Shale Sand Shale Sand and Shale Shale Shale Shale Little Dunkard Sand Shale Big Shale Shale Coffee Shale Berea Sand Grey Shale	0 57 145 430 490 594 605 770 914 1058 1082 1125 1198 1221 1320 1426 1565 1919 1936 1940	57 145 430 490 594 605 770 914 1058 1082 1125 1198 1221 1320 1426 1565 1919 1936 1940	S/g, slight S/oil

(Attach separate sheets as necessary)

<u>Kaiser</u>	Exploration and M	Mining Company	
Well	Operator		
By: R	· APa-	•	
Date: Ma	y 2, 198 <b>4</b>		

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 coal, encountered in the drilling of a well."

### D



1)	Date:	11 33	<b>!</b>		_, 19
2)	Operator's Well No.	KEIT	#J71		
3)	API Well No.	47	- 23	7	1017

DRILLING CONT					STA	ATE OF WEST VIR		I Well No. State	County Permit
Cliat Hui	et		DE	PART		OF MINES, OIL A		ON	
				OIL A	ND GA	AS WELL PERMIT	APPLICATION	•	sales to the CA
4) WELL TYPE	E: A Oil		_/ Gas _	. A.					
		Gas'', Pro	duction _			/ Underground sto	rage North Forl	Deep Treek	/ Shallow/)
5) LOCATION:	: Elevat Distric	.10n:	erris	•		Watershed:	lood		Lubecy
6) WELL OPER	District CATOR <sup>X</sup> 3			tion	and	County:	DESIGNATE	Quadrangle:	The same of the sa
Address	P	J. 300	< ₫				Address	Sanely	
	Rav	/enswoo	od, WV	্র	5164	· ·			
7) OIL & GAS ROYALTY O		ster i	and	Pan.	ava b	i al		None	
ROYALTY C	WNER		30x 52	sylPian (C.C.)	3 T SA E	12)		ATOR	
Address	6	ew Engl		!Y		·	Address	· · · · · · · · · · · · · · · · · · ·	
Acreage		30				13)	COAL OWNE	R(S) WITH DECLARA	ATION ON RECORD:
8) SURFACE O		ester a	. and	Gen	eva W	igal	Name	lióne	
Address	5a	ıme				<del></del>	Address		
		<del> </del>							
Acreage		E) #0				· ·	Name		
9) FIELD SALI Address	E (IF MADI	E) 10:					Address		
Addiess				-			COAL LESSE	E WITH DECLARATI	ON ON RECORD:
10) OIL & GAS	INSPECTO	R TO BE	NOTIFIE	D		- ·,	Name	None	
Name Hon				4 /F			Address		<u> </u>
Address		en Rt.		in		· · ·			<u> </u>
		eyvill	./		***************************************				
15) PROPOSED	WORK:					/ Redrill/ Perforate ne		cture or stimulate	<del></del>
			ysical char				w formation		
16) GEOLOGIC	AL TARGE	T FORMA	TION,	Jevo	<u>nian</u>	Brown Shale			
17) Estimate	d depth of c	ompleted v	well,	40	54	feet			
18) Approxi	mate water s	strata depti	hs: Fresh	•			alt,	feet.	
19) Approxi	mate coal se	am depths:	:		<del>-</del>	Is coal	being mined in the	e area? Yes	/ No
20) CASING AN	ID TUBING	PROGRA	AM						
CASING OR		SPE	CIFICATION	NS	. 1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water	10 3/4			χ		<i>₹</i> 275	275	150 sks clas	s A to surface
Coal	7.11	<u></u>	ļ	v	· ·	1 O E A	V 3 E A	- 600 5 8 8 5 2 4 3 8	Sizes 7 1
Intermediate	<del>                                     </del>	1 13		X	-	1854 4064	1854 4054	225 sks <b>6</b> 0/8	i na mai na mai na
Production Tubing	1/3			/\		7007	4004	1.60 3K3 W4/0	Depths set X
Liners	<b>†</b>	<del> </del>		<b></b>	-			-	Perforations:
. 1				<u> </u>					Top Bottom
	<b>L</b>	L		l					r.
21) EXTRACTIO			in						
Check and pr			_	contin	uing co	ntract or contracts h	v which I hold th	e right to extract oil or	gas.
						(See reverse side for		TO WALLEY OIL OI	- <u>-</u>
22) ROYALTY F			•			•			
									ng for flat well royalty or an e of oil or gas so extracted
produced or						6 in hinge Hill			Ban no overageo
	America 1 Marc 1998			eeded	If the a	nswer is Yes, you m	av use Affidavit	Form IV-60	

- 23) Required Copies (See reverse side.)
- Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary:	
My Commission Evniros	

Signed: General Manager Its:

OFFICE USE ONLY **DRILLING PERMIT** 

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Pe	mit expires				unless di	illing is commenced prior to that date and prosecuted with due diligence.
	Bond:	Agent:	Plat:	Casing	Fee	
	e establishe e e e e e e e e e e e e e	on one w	e Marie		20 HJ	Administrator, Office of Oil and Gas

## Line Item Explanation

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

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

# WAIVER

The undersigned coal oper	ator/ owner		of the coal under this well lo	
mined this proposed well lo	cation. If a mine map exists	which covers the are	ea of the well location, the well located to be done at this location, provided the second se	ation has been
operator has complied with	all applicable requirements	of the West Virginia	a Code and the governing regulation	ons.
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Date:	, 19	Ву		