

IV-35 (Rev 8-81)





DIVISION OF OIL & GAS State of Mest Hirginian DEPARTMENT OF ENERGY Bil und Vas Bivision

Date December 18, 1986						
Operator's Well No. KEM #719						
Farm Wildman						
ADT No. 4	7 - 107 - 1407					

WELL OPERATOR'S REPORT

OF

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

LOCATION: Elevation: 788' Watershed N	orth Fork o	of Lee Cree	k	
District: Harris County Wood				
		-		
COMPANY KAISER EXPLORATION AND MINING COMPANY				
ADDRESS P.O. Box 8, Ravenswood, WV 26164	[1	I	Cement
DESIGNATED AGENT R. A. Pryce	Casing	Used in	3	fill up
ADDRESS same	Tubing	Drilling	in Well	Cu. ft.
SURFACE CWNER Roy & Robert Wildman	Size 20-16			
ADDRESS Rt. 1, New England Ridge, WV	Cond.	-		
MINERAL RIGHTS OWNER same	13-10"	-		
ADDRESS same	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Glenn	8 5/8	ļ		100 cks
Robinson ADDRESS Rt. 1, Mineral Wells, WV	7	256	256%	100 sk s Class A
PERMIT ISSUED 11/19/86	5 1/2			1 75
DRILLING COMMENCED 12/03/86	4 1/2	2024	2024	17558k Soz
DRILLING COMPLETED 12/07/86	3	-		
IF APPLICABLE: PLUGGING OF DRY HOLE ON	. 2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
GEOLOGICAL TARGET FORMATION Berea Sandstone		Done	2002	/2005 5
Depth of completed well 2045 feet	Rotary v		2003	, roop teet
Water strata depth: Fresh 400 (est) feet;	Salt N/A	/ Cable	. 10012	
Coal seam depths: N/A	Is mal	being mine	ed in the	arana NO
OPEN FLOW DATA	_ 10 001	cand umic	za mi ule	area?_no
				•
Producing formation Berea Sandstone	Pay	zone dept	<u>h</u> 2003,	/2005 feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow 400 (est.) Mcf/d	Fin	al open fl	low	Bb1/d
Time of open flow between init	tial and fi	nal tests_	4ho	urs
Static rock pressure 800 psig(surface	æ measuren	ent) after	72 hou	rs shut in
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	h	feet
ods: Intital open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
	Oil. Ein	al open fl	œ	Ph1 /4
Final open flow Mcf/d Time of open flow between init	OII: FIII	as obas sa		

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

12/10/86 - Young's Wireline perf Berea with 16 holes from 2003 - 2005.

12/11/86 - NOW/SCO foam frac Berea Sandstone with 45,000 lbs 20/40 sand; 15,000 lbs 10/20 sand; 328 bbls fluid; 741,250 SCF of N $_2$; and ISIP: 1420 psig.

WELL LOG

Shale and Siltstone Sand Shale and Siltstone Sand Shale and Siltstone Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Shale and Siltstone Sand Shale Shale and Siltstone Sand Shale and Siltstone Shale Shale Shale Shale Sand Shale Sand Shale Sand Shale Salt Sands Shale Salt Sands Shale Salt Sands Shale Coffee Shale (Sunbury) Serea;Sand Shale Total Depth Shale Total Shale		,		
172	FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	}
	Sand Shale and Siltstone Sand Shale Sand Shale and Siltstone Sand Shale and Siltstone Dunkard Sands Shale Salt Sands Shale Coffee Shale (Sunbury) Serea; Sand Shale Total Depth	172 225 500 547 570 601 948 968 1190 1390 1488 1637 1970 1998 2002	225 500 547 570 601 948 968 1190 1390 1488 1637 1970 1998 2002	DEC 24 1986 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

. KAI SER	EXPLORATION	AND MI	INING	COMPANY	
We:	ll Operator				
Ву:	R.A.	P-		-	
Date:_	December 19,	1986	1		

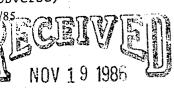
Note: Regulation 2.02(i) provides as follows:

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

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JAN 12 1987

FORM WW-2(B) (Obverse)





1)	Date: Nove	ember	14	, _{1,} 86
2)	Operator's Well No	KEN	1 #719	·
3)	API Well No.		107-1407	
-,		State	County	Permit

and Gas

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT **DIVISION OF OIL & GAS** DERAREMENT OF ACIDAL S _/ Gas <u>_X</u> B (If "Gas", Production Underground storage North Fork of Lee Creek <u> 788'</u> Watershed: Elevation: _ Wood _Quadrangle: _ District: Harris County: 600E: 25550 WELL OPERATOR Kaiser EX DESIGNATED AGENT __R_ Same P. O. Box 8 Ravenswood, WV 26164 9) DRILLING CONTRACTOR: OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson Address #1 Mt. Pleasant Estates Address Mineral Wells. WV Drill X Stimulate_ / Drill Redrill_ PROPOSED WELL WORK: _/ Perforate new formation_ Plug off old formation___ Other physical change in well (specify). 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone 395 2000' feet 12) Estimated depth of completed well, ___ 13) Approximate trata depths: Fresh, __ Is coal being mined in the area? Yes_ 14) Approximate coal seam depths: _ 15) CASING AND TUBING PROGRAM FOOTAGE INTERVALS CEMENT FILL-UP PACKERS SPECIFICATIONS OR SACKS TUBING TYPE Left in well Used For drilling Size Conductor 250' ırface 250' Fresh water Coal Intermediate 20001 100 sks 50/ 20001 (Pept) Orzani 4 1/2" Production Tubing Perforations: Line.s Top OFFICE USE ONLY DRILLING PERMIT November 20 47-107-1407 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. 8) 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.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. November 20, 1988 Zunless well work is commenced prior to that date and prosecuted with due diligence. Permit expires Fee Other Agent: Bond:

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.