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110V 17 1984

Department of Mines

Date 1/2/85
Operator's
Well No. KEM 619 Farm Wildman API No. 47 - 107

Gil und Gas Bivision

OIL & GAS DIVISION DEPT. OF MINES

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas \underline{x} / Liquid Injection / Waste Disposal / (If "Gas," Production \underline{x} / Underground Storage / Deep / Shallow \underline{x} /)							
LOCATION: Elevation: 742' Watershed Wh	ite's Hollow of Ohio River						
District: Harris County Wood							
)							
COMPANY Kaiser Exploration and Mining Co.							
ADDRESS P. O. Box 8 Ravenswood, WV 26164	Casing Used in Left Cement fill up						
DESIGNATED AGENT R. A. Pryce ADDRESS Same	Tubing Drilling in Well Cu. ft.						
SURFACE OWNER Roy Wildman, et al	Size 20-16 Cord.						
ADDRESS Rt. 1 New England, WV 26154	13-10 ^{13/4} 259' KB 259' KB to surface						
MINERAL RIGHTS OWNER Same	9 5/8						
ADDRESS	8 5/8						
OIL AND GAS INSPECTOR FOR THIS WORK Glen	7 2026' KH 100 sx class A						
Robinson ADDRESS Mineral Wells, WV	5 1/2						
PERMIT ISSUED 10/17/84	4 1/2						
DRILLING COMMENCED 10/26/84	3						
DRILLING COMPLETED 10/30/84 1	. 2						
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REMORKING. VERBAL PERMISSION OBTAINED	Liners used						
ON	2 11 1050						
GEOLOGICAL TARGET FORMATION Berea Sandstone Depth of completed well 2040 feet 1	Depth 1950 feet Rotary X / Cable Tools -						
•	Salt N/A feet						
Coal seam depths: N/A	Is coal being mined in the area? NO						
OPEN FLOW DATA	Drilled on fluid not known.						
Producing formation Berea Sandstone	Pay zone depth 1950-1953 feet						
_	Oil: Initial open flow 0 Bbl/d						
Final open flow 200 Mcf/d	Final open flow 0 Bbl/d						
	ial and final tests - hours						
Static rock pressure 900 psig(surfac	e measurement) after 48 hours shut in						
(If applicable due to multiple completion	<u></u>)						
Second producing formation None	Pay zone depth feet						
Gas: Initial open flow Mcf/d	Oil: Initial open flowBbl/d						
Final open flow Mcf/d	Oil: Final open flow Bbl/d						
Time of open flow between init	ial and final tests hours						
Static rock pressurepsig(surface	measurement) after hours shut in						
JAN	2 8 1985 (Continue on reverse side)						

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

11/07/84 Young's Wireline perf Berea from 1950' to 1953' (KB), 12 holes.
11/08/84 BJ Hughes foam frac Berea Sandstone. 1670 psig breakdown, 1544 psig treatment, #45,000 of 20/40 sand, 15 BPM rate, 650,000 scf nitrogen, 357 bbl fluid, 1130 psig ISIP.

WELL LOG

			REMARKS		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication and salt water, ∞	on of all fresh	
Soil and Shale	0	113	, ,		
Sand	113	170		•	
Shale	170	295			
Sand	295	320			
Shale and Siltstone	320	444			
Sand	444	528			
Shale and Siltstone	528	800			
Sand	800	822	1		
Shale	822	900			
Sand	900	933			
Shale :	933	1150	4.4		
Dunkard Sands	1150	1342		•	
Shale	1342	1440			
Salt Sands	1440	1582			
Shale	1582	1932			
Coffee Shale (Sunbury)	1932	1950			
Berea Sandstone	1950	1953			
Shale	1953	2045			
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TD:	2045				
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(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company	
Well Operator	
By: Konald W. Dust	
By: Kensle W. Sust	
Date: 1/2/85	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, includes as follows:

we are for a registration of agreement





1) Date: 0c	tober	1	. 19 84
2) Operator's Well No.	KEM	#619	
3) API Well No	o47	107	1324
	State	County	Permit

OIL & GAS DIVISION DEPT. OF MINES

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

APPLICATION FOR A WELL WORK PERMIT

4)	WELL TY									
		В (If "Gas",	Production	n	X	_/ Underground	storage	/ Deep	Δ Shallow Δ
5)	LOCATIO	N: El	evation: _	<u> 742'</u>			_ Watershed: _	<u>Whites</u>	Hollow of OH	lo RIVER - (O)
		Di	strict:	<u>Harris</u>			County:W	ood	Quadrangle:	Lubeck
6)		ERATOR	Kaiser	FXDIO	rati	on and	<u>l Mining</u> Co.	7) DESIGNATE	DAGENT R. A.	Pryce
	Address		P. O.			06364		Address	Same	
				wood,						
8) OIL & GAS INSPECTOR TO BE NOTIFIED. Name Jerry Tephabock Such Robinson Name Clint Hurt								,		
Name Verry Tephadock Clint Hurt										
Address Rt. 1, Box 101A - Minerawells, U.V. Address P. O. Box 388 Ripley, WV 25271 489-9162 Elkview, WV									388	
		77	prey,	WV Z	527 1					
10)	10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /								/	
	Plug off old formation/ Perforate new formation/									
							well (specify)			
						_	<u>an Brown Sh</u>	ale		
							feet			
							feet; salt			
	14) Appro	ximate coa	ıl seam der	oths:			Is co	al being mined in th	e area? Yes	/ NoX/
15)	CASING A	ND TUB	ING PRO	GRAM					•	
	SING OR BING TYPE		SPEC	CIFICATIONS Weight		1	FOOTAGE I	NTERVALS	CEMENT FILL-UP	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conc	ductor	<u> </u>								Kinds
Fresh	h water	10 3/	4"		X		250	250	325 sks Clas	s A to surface
Coal									li .	
Inter	mediate	7"			Х		1697	1697	160 kskgf c 10	30 A po zm 1 x
Prod	luction	4 1/	2"		X_		4057	4057	225 sks 50/	O-pozmix
Tubi	ng									
Liner	rs						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Perforations:
			ļ							Top Bottom
			ļ	ļ						
			<u> </u>	<u> </u>						
				· · · · · · · · · · · · · · · · · · ·			PARAMETER STATE OF THE STATE OF			
							OFFICE USE C			
	•	,			/]	DRILLING PE	, , , ,	<i>i</i> •	,
Pern	nit number	47-	107-	1324	<i>{</i>				tober 1	7 1984
		7.7		- /					Date	
This	permit cove	ring the w	ell operato	or and well	locati	on shown	below is evidence of	of permission grant	ad to deill in accordan	
quire	ements subje	ci to the c	onullions (contained i	ierein	and on the	reverse hereof. No	tification must be a	riven to the District Oil	and Carlmanata (D. c
	O, 1 1101 to th	ic constitu	LUON OI IO	aus. Iocau	URIS MID	u dies for s	iny permitted work ork has commenced	- III 2000000 ine w	ell operator or his cont	ractor shall notify the proper
i ne rever	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.									
Permit expires October 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.										
							diress wen	work is commenced	i prior to that date and j	prosecuted with due diligence.
n				T			_			
Bond: Agent: Plat: Casing Fee										
86 MIJ MJ MJ 32 W										
-						, v N	10-1	// lar.	darit-1	1/ans
									mistrator, Office of Oi	lade
TOM	E: Keep or	ne copy of	this perm	it posted a	t the d	rilling loca	ation.	7"	imstrator, Office of Of	and Gas
		T. 115				-				File