

OIL & GAS DIVISION

OIL &

15	Sian.		Date_October 26, 1982
			Operator's
orf	Mest	Birmini	Well No. KEM #62
elle elle		(C CD)	Farm Potty K Molayahlin

API No.47 - 035

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	WEIL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep X / Shallow /)							llow/)		
	LOCATION:	Elevation:	734	Waters	hed	Kessel	Run			•
		District:_	Ripley •	County	Jacks	on	Quá	adrangl	e Cottag	geville
	COMPANY Ka	CMPANY Kaiser Exploration and Mining Company								
	ADDRESS_P.	0. Box 8, R	avenswood,	WV 26164		Caşin	g Us	ed in	Left	Cenent
	DESIGNATED	AGENTR. A.	Pryce		Managori (pantini di	Tubin	i i	illing	in Well	fill up Cu. ft.
	ADDRESS P.	0. Box 8, R	avenswood,	WV 2616	54	Size				
	SURFACE OW	NER Betty K	McLaughlir			20-16			or country of the state of the	
						Cond.			2501	100 646
	MINERAL RI	GHIS OWNER	Same						250	100 282
. •	ADDRESS									
	OIL AND GA	S INSPECTOR	FOR THIS V	WORK Rich	nard	8 5/8			2/60	165 cvc
	Morris	ADDRESS	P. 0. Box	372, Gran	ntsville	W .			2409	103 383
	PERMIT ISS	UED 3/03/	82						1005	
									4895	225 sks
	DRILLING C	DRESS 152 Mayfair Drive, Mr. Lebanon NERAL RIGHTS OWNER Same DRESS L AND GAS INSPECTOR FOR THIS WORK Richard orris ADDRESS P. O. Box 372, Grantsville RMIT ISSUED 3/03/82 HLING COMMENCED 4/29/82 HLING COMPLETED 5/05/82 APPLICABLE: PLUGGING OF DRY HOLE ON								
	IF APPLICA	BLE: PLUGG	ING OF DRY	HOLE ON						
		PROGRESSION VERBAL PE				Liner used				
	GEOLOGICAL	TARGET FOR	MATION Or	iskany Sa	ındstone	*	•	Dep	th 4840'-4	902' feet
		of complete					<u> </u>	/ Cable	e Tools_	
		· strata đep								
	Coal	seam depths				Is ∞	al bei	ing mine	ed in the	area?
	OPEN FLOW	DATA								
	Produ	cing format	ion_Oriska	ny Sandst	one		Pay zo	me dep	th 4880'-4	890' feet
		Initial op	Control of the Contro	Alternation to the first of the second secon	stateth				524 (20) (000 (000 (000 (000 (000 (000 (000	CONTRACTOR CONTRACTOR
TRISKA Pi UGG	ny ED BACK	Final open	flow 4	00 M	cf/d	3	Final	open f	low	Bbl/d
	100	Time								
PB71	0=4010 Stati	c rock pres	sure 1650	psig(surface	measu	rement	:) after	rhou	rs shut in
	(If a	pplicable d	ue to multi	iple comp	letion-	-)		•		
HAL	Secon	c rock pres pplicable d d producing Initial op	formation	Devonia	n Brown	Shale	Pay zo	one dept	th 3938'-4	146' feet
play	Gas:	Initial op	en flow	M	kef/d	Oil:	Initia	ul open	flow -	- Bbl/d
400	7_2	Final open	flow 175	_5M	lcf/d	Oil:	Final	open f	low	- Bbi/d
Var C		Time	of open flo	sewted w	n initi	al and	final	tests	bo	urs
(52)	Stati	c rock pres	sure 1075	psig(s	urface	measur	ement)	after	hou	rs shut jn

1982

(PEVERSE)

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

5/12/82 Oriskany Sandstone Perforations: 4880'-4890', w/4 shots/ft, 40 holes

5/13/82 Oriskany Sandstone Fracture: 50,000# of 20/40 sand; treatment pressure: 4200 psig; ISIP: 3400 psig; total of 720 bbl of water & 135,000 SCF of nitrogen.

8/25/82 Devonian Brown Shale Perforatons: 3938'-4146' shot selectively w/25 holes, .39" in diameter.

8/27/82 Devonian Brown Shale Fracture: 90,000# of 20/40 sand; treatment pressure: 2850 psig; ISIP: 1200 psig; total of 460 bbl of water and 990,000 SCF of nitrogen.

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale Sandstone Shale Sandstone & Shale Limestone Sandstone & Shale Shale Coffee Shale Berea Sandstone Shale	0 1050 1130 1256 1573 1911 2067 2393 2415 2427	1050 1130 1206 1573 1911 2067 2393 2415 2427 3620	S/g @ 3462',3480',3492',3529',3563' 3580',3601'
Shale Marcellus Onondaga Limestone Oriskany Sandstone Helderberg	4288 4384 4765 4840 4902	4288 4384 4765 4840 4902 4965 TD	3938 \$146 2427 511 1719

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY		
.Well Operator		
T-> ^ 0	*.	
By: 2. A. 1		٠.
Date: October 26, 1982		

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 will, encountered in the drilling of a well."



DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

to the department of mines,	
Charleston, W. Va.	DATE February 25, 1982
Surface Owner Betty R. McLaughlin	Company Kaiser Exploration and Mining Compan
Address 152 Mayfair Drive, Mt. Lebanon	Address P. O. Box 8, Ravenswood! IIV 26164
Mineral Owner Betty K. McLaughlin	
Address 152 Mayfair Drive, Mt. Lebanon	
Coal Owner Same as above	KEM 62
Same as above	Well No Elevation 733
Bt	County
	Quadrangle
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
All Dravices and	Inspector
ARTICLE A OF TOR WITH CHAPTER Z	TO BE NOTIFIED Richard Morris
APPROVED to drilling renewed	
THE STATE OF A STATE O	ADDRESS P. O. Box 372, Grantsville, HV
IF OPERATIONS HAVE NOT COMMENCED . 11-3-82	PHONE 354-7259
and the traffic	THORE 334-7235
ENTLEMEN:	
The undersigned well operator is entitled to drill upon th	e above named farm or tract of land for oil and gaz, having fee
tle thereto, (or as the case may be) under grant or lease	dated December 2
McLaughlin made to Kaiser Exploration & N	dining Co. and recorded on the 6th day of Februar
9 78 in Jackson County, Book 146	Page 586
•	,
DRILL DELFER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLE	D BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer	or licensed land surveyor and all coal owners and/or operators
ave been notified as of the above date.	or necessity and surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby	notified that any objection they wish to make, or are required
make by Section 3 of the Code, must be received by, or i	iled with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed by	registered mail and discuss as as
me day with the mailing or delivery of this copy to the De	
, and the same copy to the De	partment of Mines at Charleston, West Virginia.
LEASE SUBMIT COPIES OF ALL	Very truly yours,
EOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) R.a. Pura lac
	R. A. Pryce Operator
EST VIRGINIA GEOLOGICAL AND	P. O. Box 8
	Street Street
CONOMIC SURVEY Addres	
CONOMIC SURVEY . O. BOX 879 Of	Ravenswood
CONOMIC SURVEY O. BOX 879 ORGANTOWN, WEST VIRGINIA 26505 Well Oper	Ravenswood Cray or Town
CONOMIC SURVEY . O. BOX 879 Of	Crty or Town
CONOMIC SURVEY O. BOX 879 ORGANTOWN, WEST VIRGINIA 26505 Well Oper	Crty or Town

°SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of piece and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved to the well operator authorized to proceed.

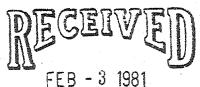
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	7 X	70 F3 T3					
DRILLING CONTRACTOR: (I	(Known)						
ADDRESS P. O. Box 388, E	Ikview WV 25071						
TELEPHONE 273-5371							
The state of the s	TETED WELL AGEO!	TELEPHONE	371				
PROPOSED GEOLOGICAL ROP	MATION. Oriskany	ROTARY A	CABLE TOOLS				
	GAS 00)MB STORAGI	E DISPOSAL				
	RECYCLIN	G WATER FLO	DODOTHER				
TENTATIVE CASING PROGRAM							
CASING AND TUBING SIZE	USED FOR DRILLING	LET IN	CEMENT FIEL UP				
20 - 16		W.T.L.	OR SACKS - CUBIC 1-T.				
13 - 10							
	250.	250!					
	2475	2475					
		£+13					
2	4950	4950					
2			Perf. Top				
Liners			Perf. Bottom				
			Peri. Bottom				
DRILLING CONTRACTOR: (If Known) NAME Clint Hurt & Associates, Inc. ADDRESS P. 0. Box 368, Elkvicw, WV 25071 ADDRESS P. 0. Box 368, Elkvicw, WV 25071 ADDRESS P. 0. Box 8, Ravenswood TELEPHONE 273-5371 ESTIMATED DEPTH OF COMPLETED WELL: 4950' RECYCLING TELEPHONE 273-5371 ESTIMATED DEPTH OF COMPLETED WELL: 4950' RECYCLING WATER FLOOD OTH RECYCLING WATER FLOOD OTH RECYCLING WATER FLOOD OTH TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR LIFT IN CHMENT FILL CASING AND TUBING USED FOR WELL OR SACKS - CL 31-10 31-10 31-5/8 32-5/8 33-5/8 34-4950 2250 2475 2475 250' 150 Sks Class 7 2475 250' 150 Sks Class 7 2475 250 Sks Decemix 250 Sks Decemix 251-2 252 Sks Decemix 253 Sks Decemix 254 Sks Decemix 255 Sks Decemix 256 Sks Decemix 257 Sks Decemix 258 Sks Decemix 259 Sks Decemix 250 Decemix 250 Sks Decemix 251 Sks Decemix 251 Sks Decemix 252 Sks Decemix 253 Sks Decemix 254 Sks Decemix 255 Sks Decemix 256 Sks Decemix 257 Sks Decemix 257 Sks Decemix 258 Sks Decemix 258 Sks Decemix 259 Sks Decemix 267 Sks Decemix 268 Sks Decemix 277 Sks Decemix 278 Sks Decemix 288 Sks Decemix 2							
PPROXIMATE COAL DEPTHS	FEET	SALT WATER_	FEET				
S COAL BEING MINED IN THE	: AREA? <u>None</u>	BY WHOM?	•				
O DRILL:							
SUBMIT FIVE (5) COPIES (OF OG . 1 \$100.00 ppm.sem		•				
OF PLAT.	2, \$100.00 PERMIT	FEE, PERFORMANCE BO	ND AND PERMANENT COPY				
O DRILL DEEPER OR REDRILL	a:		•				
SUBMIT FIVE (5) COPIES O	FOG - 1 SUOWING STATE		•				
-WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED) 1929, A PERMANENT COPY	OF THE PLAT AND THE	PERFORMANCE BOND. ON IE ORIGINAL WELL RECORD				
O FRACTURE - STIMULATE:		en jakon kan dia kan d Managarah dia kan dia k	•				
	ICINALLY DD						
BOND, PERMANENT PLAT	AND ORIGINAL WELL BEFORE	JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE				
OIL AND/OR GAS WELL OR	IGINALLY DRILLED ON AND						
ING ORIGINAL PERMIT NUM	BER, AND PERFORMANCE BO	OR AFTER JUNE 5, 1929,	FIVE COPIES OG - 1, SHOW-				
four (24) hours in advance.	mulety (90) days of com	pletion for bond release. I	nspector to be notified twenty-				
		en e					
NAME_Clint Furt & Associates. Inc. ADDRESS P. 0. Box 388 Elkview, WY 25071 ADDRESS P. 0. Box 388 Elkview, WY 25071 TELEPHONE 273-5371 ESTIMATED DEPTH OF COMPLETED WELL: 49501' ROTARY X CABLE TOOLS FROGOGED GEOLOGICAL FORMATION: Drisking TYPE OF WELL: OIL GAS X COME. STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER TENTATIVE CASING PROGRAM: CASING AND TUBING SIZE DRILLING WELL OR 54KS - CUBIC TY. 20-16 20-16 20-18 20-19	August San						
The following waiver must be	completed by the coal operato	r if the permit is to be is:	stand writhin some desired				
AIVEIL: I the undersigned, Agent	for	_ Coal Company, Owner o	r Operator of the coal under				
	and our mine maps	thus proposed well location					
We the	Coal Commany have	no objections to					
providing operator has con	nplied with all rules and regulation	ons in Articles 4, 5, and 7.	Chapter 22 of the West Virginia				
woe.	•	•	· All All All All All All All All				
		•					
•	•	, b -					
		ror (Coal Company				

Official Title



DEPARTMENT OF MINES



Oil and Gas Division

OIL & GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE February 3 1981
risce Owner Betty R. McLaughlin	Company Kaiser Exploration and Mining Company
152 Mayfair Drive, Mt. Lebanon	
C 1 2 72 0A 1 5 3 2	Farm Hugh P. NcLaughlin Acres 288
drem 152 Mayfair Drive, Mt. Lebanon	
al Owner Same as above	LATTICE TO TO
Same as above	Biolou
pal Operator None	
dance	A 90 500 gags & entire the state of the stat
PERMIT MUST BE POSTED AT THE WELL SITE	Accordance and the accordance to
provisions being in accordance with Chapter 22, he W. Va. Code, the location is hereby approved	
he W. Va. Code, the location of the partit shall expire if	INSPECTOR TO BE WOTTERN Richard Morris
drilling This permit shall expire if	TO BE NOTIFIED RICHARD FORTIS
trations have not commenced by 10-4-81	ADDRESS P. O. Box 372, Grantsville, IV
To towall	And the state of t
Deputy Director - Oil & Gas Division	PHONE 354-7259
NTLEMEN:	
/8 in Jackson County, Book	
OIL AND GAS WELL ORIGINALLY	EPERREDRILLFRACTURE OR STIMULATE
	valuati before fune 3, 1969.
The enclosed plat was prepared by a registered	engineer or licensed land surveyor and all coal owners and/or operators
e been notified as of the above date.	
The above named coal owners and/or operator i	are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.
cost owners at their above shown terbective so	mailed by registered mail, or delivered to the above named coal operators day before, or on the
e day with the mailing or delivery of this copy	to the Department of Mines at Charleston, West Virginia.
	Very truly yours,
EASE SUBMIT COPIES OF ALL	(Sign Name) R.a. Pryce /dc
OPHYSICAL LOGS DIRECTLY TO:	R. A. Prycum Opinion
ST VIRGINIA GEOLOGICAL AND	P. O. Box 8
DNOMIC SURVEY	Address
O. BOX 879	Well Operator Ravenswood
RCANTOWN, WEST VIRGINIA 26505	
مينا لا 7 فقت البيا فيم البيا ملك الله علي الله الله الله الله الله الله الله ال	Cay or Town
	West Virginia 26164
	West Virginia 26164

SECTION 3 If no objections are fued or found by the Department of mines, within said period of ten days from the receipt of and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting films of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved d the well operator authorized to proceed.

47-035-1549

PERMIT NUMBER

LUCIOSED MOTOR OTTOBRE TO) DRILL	DEEPEN	DEEPEN FRACTURE-STIMULATE				
The state of the s		RESPONSIBLE AGENT:					
	*						
		ROTARY^	CABLE TOOLS				
TYPE OF WELL: OIL	•						
	RECYCLI	NG WATER I	FLOOD OTHER				
TENTATIVE CASING PROGRA	M:						
CASING AND TUBING SIZE	USED FOR DRILLING	LET IN WELL	CHMENT FIFE UP OR SACKS - CUBIC FT.				
20 - 16							
	. 250	257	150 SX Class A ±				
9 - 5/8	TO STATE AND ADDRESS OF THE STATE A						
7			65SX FOZMIX 100 SX C				
COLUMN DESIGNATION OF THE PROPERTY OF THE PROP	1950	44511	225SX POZMIX				
3	THE REAL PARTIES AND THE REAL PROPERTY OF THE PARTIES AND THE		Perf. Top				
2			Perf. Bottons				
Liners		and the state of t	Perf. Top				
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			Perf. Bottom				
APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN TH TO DRILL:	TE AREA? None	BY WHOM?					
APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN TH TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT. TO DRILL DEEPER OR REDRIC	TE AREA? None OF OG - 1, \$100.00 PERM LL: OF OG - 1, SHOWING ORIG	BY WHOM? T PEE, PERFORMANCE INAL PERMIT NUMBER	BOND AND PERMANENT COP				
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APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT. TO DRILL DEEPER OR REDRIF SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU Required forms must be file	TE AREA? None OF OG - 1, \$100.00 PERM LL: OF OG - 1, SHOWING ORIGITO 1929, A PERMANENT C ED. PRIGINALLY DRILLED BEFO F AND ORIGINAL WELL REC PRIGINALLY DRILLED ON A JMBER, AND PERFORMANCE Ed within minety (90) days of	BY WHOM? THE PERFORMANCE INAL PERMIT NUMBER OPY OF THE PLAT AND RE JUNE 5, 1929, FIVE (CORD. ND/OR AFTER JUNE 5, 1800) Completion for bond release	BOND AND PERMANENT COP AND PERFORMANCE BOND. O D THE ORIGINAL WELL RECOR 5) COPIES OG - 1, PERFORMANCE 1929, FIVE COPIES OG - 1, SHOV 22. Inspector to be notified twent				
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FORM OG. 6

None

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

NOV 1 1982

OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION

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STATE OF WES	ST VIRGINIA,				
County ofla	ckson ss:				
R. L.	Coty	and R	A. Pryce		
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