

IV-35 (Rev 8-81) 33 NOV 1982



Oil & GAS DIVISION State of Mest Hirginia DEPT OF MINES Department of Assines

Date	October	21,	1982
Operat	or's lo. KEM -	- 212	
Well N	ю	60 de 60	
Farm	Mildred	Hall	
API No	.47 - ()35 -	1685

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL T	YPE: Oil / Gas X / Liquid Injection X / Under	rground Sto	rage/ Dee	p_/ Sha	ıllow/)
LOCATI	ON: Elevation: 867' Watershe	d Mill	Creek	· *	
•	District: Ripley County				ley
COMPAN	Y Kaiser Exploration & Mining Co	•			
	SP. O. Box 8, Ravenswood, 26164		g Used in	Teft	Cement
	WIED AGENT R. A. Pryce	- -	1		fill up Cu. ft.
	SS P. O. Box 8, Ravenswood, 26164	· L		TIE METT	
SURFAC	E COMER Mildred E. Hall, et al	20-16			
ADDRES	SS Rt.6, Box 22, Ripley, 25271	Cond.		248'	180 sx
MINERA	AL RIGHTS OWNER Same	13-10		240	TOU SX
	SS	9 5/8			
	D GAS INSPECTOR FOR THIS WORK Richar	- 8 5/8			
	ADDRESSBox 372, Grantsvil	7	_	2390'	165 sx
- CONTRACTOR OF THE PERSON NAMED OF THE PERSON	r ISSUED 4/20/82	- 15 1/2		-1.60	
	ING COMMENCED 5/20/82	- 4 1/2		5160'	225 sx
	ING COMPLETED 5/27/82	- 3			
	PLICABLE: PLUGGING OF DRY HOLE ON	2			
	VLOUS PROGRESSION FROM DRILLING OR	Liner	s		
REWORK	KING. VERBAL PERMISSION OBTAINED	used	X		
C) Control of the Con	GICAL TARGET FORMATION Oriskany	s S	Dep	th 5039	g feet
I	Depth of completed well 5202 fe	et Rotary_	X / Cable	e Tools_	
T _A	Water strata depth: Fresh fe				
	Coal seam depths:				area?
OPEN E	FLOW DATA				
E	Producing formation Oriskany Ss		Pay zone dep	th 5090-	5142 feet
	Gas: Initial open flow 35 Mcf		- A CONTROL OF THE PARTY OF THE	•	
	Final open flow 200 Mcf	7d	Final open f	low	Bbl/d
	Time of open flow between	and the same of th			
S	Static rock pressure 630 psig(su	rface measu	rement) after	r 36 hou	ırs shut in
	(If applicable due to multiple comple	tion)	P.B TD	4457	2
	Second producing formation Devonian Br	own Shale	Pay zone dep	th 4076-4	316 feet
	Gas: Initial open flow Mcf				
	Final open flow 200 Mcf				* :
	Time of open flow between				
`.	Static rock pressure 900 psig(sur				
	— manufaction to the contraction of the contraction	NOV	_	***************************************	verse side
		2.4.7. A	Conti	rue on re	verse side

(PEVERSE)

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

6/01/82 Oriskany Ss Perforation:

5100-5112, 5148-5153 54 holes, 0.5" in diameter

6/07/82

Oriskany Ss

Frac:

31,700 # of 20/40 sand Total of 585 bbl of water and

140,000 SCF of N_2 used

10/06/82

Devonian Brown Shale

Set permanent bridge plug at 4450' (KB); perforated

4076-4315', shot selectively w/18 holes, 0.40" diameter

10/12/82

Devonian Brown Shale

60,000# of 204/0 sand; treatment rate was 10-13 BPM Treatment pressure: 2250-2600 psig; ISIP: 950 psig

Total of 840,000 SCF of nitrogen

	lotal	of 840,000 SC	r of nitrogen
FORMATION COLOR HAPD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and ga
Shale Sandstone Shale Sandstone and shale Limestone Shale Coffee Shale Berea Ss Shale Brown shale Shale Marcellus Onondaga Ls Oriskany Ss Helderberg	0 70 190 260 1730 2047 2505 2528 2538 3763 4320 4565 4984 5033 5130	3763 4320 4505 4984 5033 5130	s/g at 2533 s/g at 3648 s/g at 4186
		•	4076 2538 (538

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY Well Operator

October 21, 1982 Date:

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 encountered in the drilling of a well." FORM 1V-2 (Obverse) (12-81)



Date:	April	7	. 19	82	-
Operator Well No.		M #212) -		
	1 No. 47	035	. 3	1685	

State

County

Permit

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

				AND GAS DIVISION		
	OIL	AND GAS W	ELL PERM	IIT APPLICAT	PION	
WELL TYPE:	Oil/	Gas X /				
	(If "Gas", Produ-	ction X/	Undergroun	d storage	_/ Deep/ :	Shallow/)
LOCATION:	Elevation:	67	Watershed	Mill_Cree	k	
	District: Rip	ley	County:	Jackson	Quadrangle: R	ipley
WELL OPERAT	OR <u>Kaiser Explo</u>	ration and N	lining Co.	DESIGNATED A	GENT R. A. Pryc	<u>e</u>
	P. O. Box 8				Same	
	Ravenswood,	WV 26164				····
OIL & GAS ROYALTY OWN	NER <u>Mildred F.</u>	Hall, et al		COAL OPERATO	OR <u>None</u>	
Address	Rt. 6, Box	22		Address	and the second s	
	Ripley, WV	25271			<u></u>	
Acreage	<u>150</u> .	1		COAL OWNER(s) WITH DECLARATI	ON ON RECORD:
-	IER Same			Name Same		
Address					3	SERVED
Acreage		- राजके औँ संस्कृतक राजिल्लाक्षेत्र		Name	AP	R 1 2 1982
FIELD SALE (Address	OIL A	ND GAS DIVISION
-						
				COAL LESSEE	WITH DECLARATION	ON RECORD:
OIL & GAS IN	SPECTOR TO BE N	OTIFIED		Name		
Name Richa	rd Morris					
	P. 0. Box 37					
•	Grantsville					
The undersion		1	roil or eas pur	ooses at the above lo	cation under a deed	/ lease X
					ell operator from Jame	
				the undersigned we	en operator from Odific	3 W. & Hilarea
(IF said deed, lo	ease, or other contract					
					mission of <u>Jackson</u>	
Va., in <u>Le</u>	aseBook	158_at page_	30/ A	permit is requeste	d as follows:	
PROPOSED V					ure or stimulate	
	Plug off old	formation	_/ Perforate	new formation		
	Other physica	l change in well	(specify)			
	-planned as	shown on the wo	ork order on t	he reverse side he	reof.	
The above nan	ned coal operator, coal	owner(s), and coa	il lessee are he	reby notified that an	y objection they wish to	make or are required to
make by Code §	22-4-3 must be filed	with the Departme	ent of Mines w	rithin fifteen (15) da	ays after the receipt of	this Application by the
Department.						
· ·		,		-	nailed by registered mail	
	· -			fore the day of the i	mailing or delivery of thi	s Permit Application to
the Department	of Mines at Charles	ton, West Virgini	a.			
8	IT COPIES OF ALL LOGS DIRECTLY	•			· ·	
TO:	LOGS DIMECILI		*	<u>Kaiser</u>	Exploration and	
1	9				Well Operato	r tea

GEOPHYSICAL LOGS DIRECTLY
TO:

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

_ <u>Ka</u>	<u> iser Exp</u>	loration and	Mining	Compa	any
		Well Operate	or		4. ₀ .
Ву					146c .
Its	General	Manager	•		

(12-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CO	ONTRAC	TOR (IF	KNOW	N) _	С	lint Hurt	& Associat	es, Inc.	
				Ad	dress	P. 0.ox 3	88		
						Elkview,	WV 2507]		
GEOLOGICAL	_ TARGI	ET FOR	MATION	,	0r	iskany			
Estimate	d depth	of comp	leted we	11,	5	172fee	et Rotary	y/ Cab	le tools/
Approxi	mate wat	er strata	depths:	Fres	h,	feet	; salt,	feet.	
Approxi	mate coa	l seam d	epths:		-	Is coal	being mined	in the area? Yes	/ No/
CASING AND	TUBING	G PROG	RAM						
CASING OR TUBING TYPE	SPE Size	CIFICAT Grade	IONS Weight per ft	New	Used	FOOTAGE	NTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh Water	10 3/	/I				250	250	150 sks olass	A (to surface)
Coal	10.5/	7					230	TISU SKS CIASS	A (CO SUFFACE)
Intermediate	711	11 170				2427	0.607	65 sks 50/50 p	ozmix
Production	4 1/	0.11		1	1	2437	2437	100 sks class	
Tubing	4 1/					5172	5172	225 sks 50/50	p85mfx***
Liners									Perforations:
*****									Top Bottom
				- Control of Control					
"Reciprevion Code	lamation ously paid \$22-4-8a eparate F	Plan", a l on the s a from th orm Iv-2	pplicable ame well ne owner shall not	to the force of an of the force	e recla ee requ y wate uired f	mation required by Code § r well or dwell or fracturing or	ed by Code \$22-4-12a, and ling within 200 stimulating a	wed by Code § 22-4-2 22-4-12b and Regulati (v) if applicable, the co 0 feet of the proposed well where fracturing Form IV-2 filed in cor	on 23, (iv) unless onsent required by well.
oc pa	it of the v	VOIR IOI V	winen a p	CITIIL	is soug	nt and is noted	as such on the	Form IV-2 med in cor	inection therewith.
THIS PERMI	T MUST	RE POST	ED AT T	HE W	ell Si	a de la constant de l			
						H CHAPTER 2	2,		
ARTICLE 4	OF THE Y	W. VA. (CODE, T	HE LC	CATIO	ON IS HEREBY			
	- Terminal Control of the Control of	And the second s				MIT SHALL EX	PIRE		
IF OPERATION	ONS HA	WE NOT	СОММ	ENCE	DBY _	12-20-82	November 25.		
8Y				1	2	ne general en en de de la companya d			
* 0 # 4 2 6 4 6 6 6 6 6 6 6 6				****					
								al owner or coal lessee fifteen (15) days of r	
						WAIN			
The undersign	ed has n	o objection	on to the	work	propos	TESTOP STPS OF	the well location	on, the well location ha	vell location has examined this s been added to the mine map, operator has complied with all
Date:			. 19				Ву		
Ale to the e-		and the second s	, · · ′ .				Its		

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL OF NO. 1

AFFIDAVIT SHOULD BE MA WELL OPERATOR AND THE THIRD COPY ADDRESSES.	DE IN TRIPLICATE, ONE	COPY WAILED TO THE	DEPARTMENT. C	one copy to be retained by the
None		, succes as maired	O MACH COAL	- OPERATOR AT THEIR RESPECTIVE

Carrier and a second a second and a second and a second and a second and a second a	OAL OPERATOR OR OWNER	<u>Kans</u>	ser Exploration a	und Mining	g Company
city state	sonespine altra capa especimente. Pasta po pole distributivamento for stato de la descripció de la descripció de la capacidado esta como como como como como como como com	P. (). Box 8, Ravensu	OPERATOR 100d, WV	26164
None	ADDRESS		ber 26		02
40 an	DAL OPERATOR OR OWNER		WELL AND LO	CATION	<u>19 82</u>
AND THE REAL PROPERTY AND	ADGREES	Ripl	ey	NAME OF THE PARTY	District
Mildred_F	Hall, et al	Jack	son		_
	ASE OR PROPERTY OWNER	CEMPANDA CEMPANA		**************************************	County
action cases and action control of the control of t	22, Ripley, WV 25271	Well. J	No. KEM #212		
		Mi	ldred E. Hall		Farm
STATE INSPECT	or supervising plugging		руш өн өөр айр түү түү түү түү түү түү түү түү түү тү		
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plugging and fill	sworn according to law depose	and say th	hat they are experie	nced in the	work of
well operator, an	ing oil and gas wells and were end participated in the work of pl	nployed by	KEMGAS		9
was commenced	on the 6 day of October	nggmg smo	tung the above v	vell, that s	aid work
Contracts assessment of the second of the se	on the 6 day of October following manner:	et an Carlot en en et en	., 19_82_, and that the	ne well was	plugged
SAND OR ZONE RECO	RD FILLING MATERIAL		PLUGS USED	C	\SING
PORMATION	The state of the s		etze g kind	CSG	CSG LEFT IN
Oriskany Perf. 5100'-5153' (KB)	Permanent bridge plug		4 1/2" Gearhari	-	CEPT IN
	set @ 4450' (KB)		(3.71" O.D.)	None pul	led
ACT OF THE PROPERTY OF A SECURITY OF THE PROPERTY OF THE PROPE					
	Plug back to Brown Shal	e Interv	I		
ASSESSED TO THE PROPERTY OF TH					
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COAL SEAMS					
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(NAME)		-		Market Control and American	
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(NAME)					THE RESERVE OF THE PERSON OF T
A THE PARTY AND ADDRESS OF THE PARTY OF THE	Control Contro	Section of the sectio		Control of the Contro	
and that the work October	of plugging and filling said w	vell was co	mpleted on the 6t	h	day of
	ponents saith not.		^ 0		
annon non succession of the	ponents saith not.		Digital -	un v . Name (5) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	5 *
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oworn to and	subscribed before me this 27		October	7/	9 82
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My commission exp		and another large affile	· · · · · · · · · · · · · · · · · · ·	Notary Pu	iblic.
<u>December 1, 19</u>			Pormit	No. JAC-1	
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