



-10,325

H.T.HALL - DEEP WELL G-6 New England (296)



IV-35 (Rev 8-81)

REVISED

Date	Janua	ry 2	2, 19	985	
Opera	ator's		-		
Well	No	KEM	253		NATION OF THE PROPERTY OF THE
Farm	Davi	d Me	ndenl	nal	1
API 1	10. 47	- 1	.07	-	1221-FKR

State of West Nirginia

Pepartment of Mines Gil und Gas Pivision

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING_AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production x / Undergrou	ina Storage	Disposal / Deep	$\frac{1}{X}$ / Sha	llow/)
OCATION: Elevation: 848' Watershed Gi	lpin Run			
District: Harris County Wood		Quadrangle	Lubeck	
				•
COMPANY Kaiser Exploration and Mining Co.				
ADDRESS P. O. Box 8 Ravenswood, WV 26164	Caşing	Used in	Left	Cement fill up
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Same	Size			
SURFACE OWNER David L. Mendenhall, et al	20-16 Cond.			
ADDRESS 912 Meadow Hts., Raden City, WV	xx3-10 ^{3/4}		256'	175 sx
MINERAL RIGHTS OWNER Same	9 5/8			
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Samuel	7		2011'	165 sx
Hersman ADDRESS Box 66 Smithville, WV	5 1/2			
PERMIT ISSUED 8/12/82	A 1/2		4485'	225 sx
DRILLING COMMENCED 9/7/82 W/O comm. 11/29/8	4 3			
DRILLING COMPLETED 9/13/82 W/D COMP 12/5/80				
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON				
GEOLOGICAL TARGET FORMATION Oriskany Sandstone	9	Dep	th 4351-	4412 fee
Depth of completed well 4504 feet				
Water strata depth: Fresh feet;				
Coal seam depths:				e area? No
Drille	ed on fluid	l not know	n.	-
OPEN FLOW DATA *plugged Oriskany	lo Dar	· rono dor	⊹h 3756 - 3	573 f oo
Producing formation Devonian Brown Sha				
		THE COMP	I LTOM	
Gas: Initial open flow Mcf/d				
Final open flow 336 Mcf/d	Fir	nal open f	low	- Bbl,
Final open flow 336 Mcf/d Time of open flow between init	Fir tial and fi	nal open f inal tests	flow -	- Bbl,
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surface)	Fir tial and fi to measure	nal open f inal tests	flow -	- Bbl,
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surface) (If applicable due to multiple completion)	Fir tial and fi ce measure n)	nal open f inal tests ment) afte	: 4 h	- Bbl, ours urs shut
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surfact (If applicable due to multiple completion Second producing formation Grey Shale	Fir tial and fi the measurer n)	nal open final tests ment) afte y zone dep	10w - 3 4 h 2 ho 2625-	- Bbl, ours urs shut :
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surfact (If applicable due to multiple completion Second producing formation Grey Shale Gas: Initial open flow Mcf/d	Firstial and first measures 1) Pay Oil: In:	nal open final tests ment) afte y zone dep itial oper	10w - 3 4 h 2r h 2625- 3 flow -	- Bbl, ours urs shut : -2774 fee
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surfact (If applicable due to multiple completion Second producing formation Grey Shale Gas: Initial open flow Mcf/d Final open flow 336 comming Maf/d	Firmial and firm measurement. Pay Oil: Into Oil: Firm	nal open final tests ment) after y zone depitial open	flow - 4 her ho th 2625- flow	Bbl, curs shut i
Final open flow 336 Mcf/d Time of open flow between init Static rock pressure 950 psig(surfact (If applicable due to multiple completion Second producing formation Grey Shale Gas: Initial open flow Mcf/d	Firstial and first measurer n) Pay Oil: In: Oil: Firstial and first	nal open final tests ment) after y zone depitial open hal open final tests	flow ho	Bbl, ours shut: -2774 fee - Bbl, - Bbl, ours

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIPLILATING, PHYSICAL CHANGE, ETC. 11/29/84 Young's perf Brown Shale from 3573 to 3756; perf Grey Shale from 2625 to 2774.

BJ Hughes 2-stage foam frac 12/5/84

Brown Shale: $\#60,000\ 20/40\ \text{sand};\ 654\ \text{mscf N}_2;\ 326\ \text{bbl water, ISIP 1030 psig}$ Grey Shale: $\#60,000\ 20/40\ \text{sand};\ 625\ \text{mscf N}_2;\ 327\ \text{bbl water, ISIP 800 psig}$

				REMARKS
FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Same as previous	sly submitted.	A CONTRACTOR OF THE CONTRACTOR		
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			Numero de constante de constant	
		egeneration production of the control of the contro		
e with the second				
			-	
				The second secon

(Attach separate sheets as necessary)

	COMPANY	
KAISER E	EXPLORATION AND MINING COMPANY	
Well	Operator	
	and the distriction of the second	
By:	Suria Suco	
Date: Ja	anuary 22, 1985	

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 that, encountered in the drilling of a well."





Stule of West Wirginiu

Department of Alines
Oil und Vas Division

	lanuary 31, 1923	
Olverage		
Well No). EFM #253	
Farm	Mavid Mendonhall	
API NO.	47 - 107 - 1221	

Dp1/q

hours

Oil: Final open flow

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE _/ Gas_X / Liquid Injection__/ Waste Disposal WELL TYPE: Oil (If "Gas," Production x / Underground Storage / Deep y / Shallow /) Watershed Gilpin Run IOCATION: Elevation: 848' Quadrangle Lubeck 7.5' County Wood District: Harris COMPANY Kaiser Exploration and Mining Company Cerent Left ADDRESS P. O. Box 8, Ravenswood, WV 26164 Used in Casing fill up Cu. ft. DESIGNATED AGENT R. A. Pryce Drilling in Well Tubing ADDRESS P. O. Box 8, Ravenswood, WV 26164 Size 20-16 SURFACE CWNER David Mendenhall et al Cond. ADDRESS 912 Meadow Heights, Paden City, WV HANN'S 175 sks Class 256(KB) 256(KB) MINERAL RIGHIS CVINER Same 9 5/8 ADDRESS 8 5/8 65 sks permix OIL AND GAS INSPECTOR FOR THIS WORK Sam 7 2021(KB) 2021(KB) 100 sks class Hershman ADDRESS Smithville, WV 5 1/2 8/12/82 PERMIT ISSUED 1495 (KB) 225 sks pormix 4 1/2 DRILLING COMENCED 10/07/82 3 10/13/82 WHICKEN DRILLING COMPLETED 2 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR Liners REFORKING. VERBAL PERMISSION OBTAINED used Depth 4393-4406 feet GEOLOGICAL TARGET FORMATION Oriskany Sandstone _feet Rotary_y / Cable Tools___ Depth of completed well 4495 Water strata depth: Fresh ___ feet; Salt ___ feet Is coal being mined in the area? 110 Coal seam depths: --OPEN FLOW DATA Pay zone depth 4398-4406 feet Producing formation Oriskany Sandstone Bbl/d Oil: Initial open flow --Mcf/d Gas: Initial open flow 25 Bbl/d Final open flow Final open flow 155 Mcf/d Time of open flow between initial and final tests ___ hours Static rock pressure 1450 psig(surface measurement) after ___ hours shut in (If applicable due to multiple completion--) feet Pay zone depth Second producing formation_ Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Time of open flow between initial and final tests

Static rock pressure ____psig(surface measurement) after____ bours shut in

Final open flow_____Mcf/d

DUTAILS OF PERFORMED INTERVALS, FRACTURES OF SELECTORS, PROJECTA CHARAC, ENG.

10/20/82: Perforated the Oriskany Sandstone from 4398'-4406' with 24 holes.

0.39" diameter.

10/22/82: Cross-Link fractured the Oriskany with 60,000# 20/40 sand, 833 bbl fluid.

350,000 SCF of nitrogen; average pressure 1200 psiq: ISIP: 1350 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 & Shale Siltstone & Shale Sand Sand & Shale Siltstone & Shale Sand Shale Sand Shale Sand Shale Shale Sand Shale Sand Shale Sand Shale Salt Sands Shale Coffee Shale (Sunbury) Berea Sand Shale Brown Shale Brown Shale Onondaga Lime Oriskany Sand Helderberg Lime Total Depth	0 220 591 642 700 1052 1092 1114 1144 1236 1408 1450 1576 1765 2080 2104 2108 3560 3752 4082 4292 4384 4418 4504	220 591 642 700 1052 1092 1114 1144 1236 1408 1450 1576 1765 2080 2104 2108 3560 3752 4082 4292 4384 4418 4504	Slt. show gas Show gas @ 2670, 2770 Show gas @ 3745 Show gas @ 4385

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company Well Operator	
By: RAP.	
Date: January 31, 1983	Para Sana

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological per ml of all formation, in helping and a most, argument of the dealth of a mil."

FORM IV.2 (05+5+6-1) (12-81)



-			***************************************	• •	- Commentered Commenter	
Operator's		EM	#253			
API Well	No	47	107		1221	W-1 C

	OPA three City at the service	STATE OF WEST V		State County	Permit
		MENT OF MINES, OIL GAS WELL PERN		ION	
WELL TYPE:	Oil / Gas				
	General and an analysis of the second		nd storage	/ Deep x / Shalle	ow /\
LOCATION:	Elevation: 848'				CONTRACTOR CONTRACTOR OF THE C
	•		•	Quadrangle: Lube	ck
WELL OPERATO	OR Kaiser Exploration				·CK
Address	P. O. Box 8	CO Courting		P. O. Box 8	
(Ravenswood, WV	26164	- And the second	Ravenswood, W	IV 26164
OIL & GAS	CANADA CONTRACTOR CONT	The second secon	- Control Colorado		
	IER <u>David L. Mendenha</u>		COAL OPERATOR	Rone None	
Address	912 Meadow Height	ts,	Address		***************************************
	Paden City, WV		· 	-	
Acreage	50	eninteraction of the purpose of the control of the purpose of the control of the	COAL OWNER(S)	WITH DECLARATION C	N RECORD:
SURFACE OWN	ER Same		Name Same	तकार्य व	2 60 40 50
Address			Address		7 62
	employments and the first of the second control of the second cont	onegote not strange and the strands increased out to the district of an activate part where the		AUG 1 1	1982
Acresse	-Elizabeta de contrata en estado de	Olivele grady and different Prices and development of the Addition of State And Addition	Name	OIL AND GAS	
•	F MADE) TO:	Commission	Address	WV DEPARTME	NT OF MINES
-Address		Although a solid or second	dauditipegalandi		
·		na dissanced o cogniscioné de dissolution filosopous contentralinos Weller PARTICIO	COAL LESSEE WI	ITH DECLARATION ON	RECORD:
OIL & GAS INS	PECTOR TO BE NOTIFIED	arkuniya wa gayayan mahadan arima taganajinakin amaki inekatibi	Name		
	el N. Hersman		Address		
4550WH4457	P. O. Box 66	one-channes statement from the server and danked a treatment of the server of the serv			
		178	*		
The undersion		***************************************			V
	d well operator is entitled to op			•	
other contract	/ datedApril 21	, 19 <u>84</u> , to	the undersigned well	operator from David L	. Mendenhal
(IF said deed, lea	ase, or other contract has bee	n recorded:)		•	•
Recorded on Ma	<u>y 25</u> , 19 <u>82</u> , in 1	the office of the Clerk of	of the County Commis	sion of Wood	County, West
Va., in <u>Lea</u>	seBook771a	at page 158. A	permit is requested a	as follows:	
PROPOSED W	ORK: Drill X / Drill dee	eper/ Redri	II/ Fracture	or stimulate/	
	Plug off old formation_	Perforate	new formation	/	•
	Other physical change	in well (specify)			
•					
•	—planned as shown on	the work order on th	e reverse side hereol	C. A. S.	
The above name	ed coal operator, coal owner(s).	and coal lessee are here	eby notified that any ol	bjection they wish to make o	or are required to
	2-4-3 must be filed with the D			•	
Department.					
Copies of this P	ermit Application and the enclo	sed plat and reclamatio	n plan have been mail	ed by registered mail or deli	vered by hand to
	coal operator, coal owner(s), an		ore the day of the mai	ling or delivery of this Perm	nit Application to
the Department	of Mines at Charleston, West	Virginia.			
X .	COPIES OF ALL	en e			
TO:	LOGS DIRECTLY	•	KAISER FX	PLORATION AND MINI	NG COMPANY
WEST VIRGINIA	OIL AND GAS		4	Well Operator	The state of the s
CONSERVAT			By <u> </u>	<u> </u>	

1615 WASHINGTON STREET EAST CHARLESTON, WY 25311 TELEPHONE: (304) 348-3092

Its General Manager

DRILLING CO	DNTRAC	TOR (IF	KNOWI				ssociates,				
				Ad	dress		388		· · · · · · · · · · · · · · · · · · ·		
					*	Elkview,	WV 25071		and the second s		٠
GEOLOGICAL	TARGE	T FOR	MOITAN		Orisk	any					
Estimate	d depth	of comp	icted we	11,_ 4	4500'	fe	et Rotary	/	Cab	le tools	/
Approxi	mate wat	er strata	depths:	Fres	h,	feet	; salt,	fee	:t		
Approxi	mate coal	seam d	epths:	:		Is coal	being mined	in the area	? Yes	/ No	/
CASING AND	TUBING	G PROG	RAM					٠		,	
			arad was one work distribution								
CASING OR TUBING TYPE		CIFICAT	IONS Weight	New	Used	FOOTAGE	INTERVALS		FILL-UP SACKS	PACKERS	
Continue de la contin											
Conductor					-			150	· •	Kinos	\
Fresh Water	10_3/					250'	250'	150 SKS	class	A (to surfa	ace)
Coal				-		20161	20161			pozmix	
Intermediate	7"				-	2016'	2016'	00 sks			
Production	4 1/2) ¹¹				4500'	4500'	225 sks	50/50	DOZHIYX set	
Tubing				-				-			
Liners				-	-					Perforations:	
		<u> </u>	-							Тор	Bottom
Characteristics and the second				ļ							
						-					
Preciprevi Code	lamation ously paid \$22-4-8d eparate F	Plan", a i on the s a from the form Iv-2	applicable same well he owner shall not	to the force of an	e reciale required	amation requir uired by Code (er well or dwe for fracturing o	ed by Code § 2 22-4-12a, and (Iling within 200 r stimulating a	22-4-12b and (v) if applicado feet of the well where f	d Regulat ble, the c propose	or stimulating is	ess by
be pa	rt of the	work for	which a p	ermit	is soug	ght and is noted	l as such on the	Form IV-2 i	filed in co	nnection therew	ith.
	,		••			•					
HS PERMIT MI	:cT 05 D/	STED A	T THE V	VELL S	SITE.						
· · · · · · · · · · · · · · · · · · ·	IN PERSON	IN AC		12 T. A.	7719 -	HAPTER 22,	. *		: :		
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***	0	00613000	******		40000						****
The	following	waiver n	nust be co	mplet	ed by t	he coal operate	r and by any co	al owner or o	coal lesse	who has record	led a
deci	aration u	nder Co	ie 22-4	-20, if	the p	ermit is to be	issued within	fifteen (15)	days of a	receipt thereof.	
		. *				WAI	VER	•			
proposed well The undersign	location. ned has n	If a mind o objecti	map exi	sts wh : work	iich coi propo	vers the area of esed to be done	the well location	on, the well l n. provided.	ocation h.	as been added to	s examined this the mine map, emplied with all
Date:			, 19		e ,		Ву				
Taxaay at property and a second a second and		, , 					1 15		•		