



CHURNED ATEM_ Robert A. Pryce Current filling in Woll Current filling in Woll Current filling CARDS P. 0. Box 8. Revensed, WV Size Control CAULA Willow Tennant Cond. CARDS Rt. 1. New England, WV Size CARDS CARER Same 9.5/8 DAUSS CARER Same 9.5/8 Dausherty NORROW Find Rt., Box 3-A. 9.5/8 Dausherty NORROW Find Rt., Box 3-A. 7 Dausherty NORROW Find Rt., Box 3-A. 8 Dausherty NORROW Find Rt., Box 3-A. 9.5/8 Dausherty NORROW Find Rt., Box 3-A. 9.5/8 Dausherty NORROW Find Rt., Box 3-A. 1/2	· · · · · · · · · · · · · · · · · · ·	2			· · ·		
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Swood pathoeing formation Pay zone depth feet: Case Initial open flow Mof/d Oil: Initial open flow Mof/d Final open flow Mof/d Oil: Final open flow Mof/d Final open flow Mof/d Oil: Final open flow Mof/d Final open flow Mof/d Oil: Final open flow Mof/d Final of open flow Mof/d Oil: Final open flow Mof/d Static rock pressure prig (authore scataucount) after bours shut; in	(If applicable due to multiple compl	ction)		nour	الل المالات ب	
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Fund even flowMef/d Oil: Final open flowMb1/d Fine of open flow between initial and final testsMoresML 30 190 Static reak pressurepuig (surface assauceent) afterbours shut in	Gase Juitaal com flow	\$ 1,7	tay:	whe deput		feet	
Static rock processespuig (conface scatarcount) afterbours shut in	Plaul over flore	chi -	ant annu tha set	rar ofan 1 	104	I0.1/d	ng Tang
Maria rock pressurepuig (auface adacaucant) after boars shat in		1/a ()	al: Fina	t open fle			tile ,
the state of the s	Philip port of Open Liew Exitison	anitia.	Larl fin:	al terster	lice)	1.13	3 0 198
	David Chamber David (con	charge as	hauconnt) after	boau	s shut in	
(Continue on neurona ciste)			•	(Cont in:	0 4 11 14 W	onan pilin	

MIS OF PLICOPATED INFLAVALS, DECEMBERS ON STEPARCETING, PHYSICAL CHARSE, DIV. 7/21/83 - Perforated Oriskany w/12 holes from 4360' - 4366' and 4374' - 4378' w/12 holes.

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8/3/83 - Cross link frac Oriskany SS w/200 bbl pad. Cross link gel treated about 1100 psig. (N₂ 2400 scf/minute, 8 1/2 BPM). Well screened out and pressure went to 4700 psig. Total sand: 44,300# 20/40, 556 bbl fluid and 230 MSCF N₂. ISIP: 3900.

•	\$? \$	EIL LCG	•	
MANCH COLOR HARD OR SOFT	10P FEET	BOTTOM FEET	REAMBLY Including indication and salt water, coul,	of all fresh oil and gas
Shale Sandstone Shale and Sandstone Sandstone Sandstone Shale and Siltstone Coffee Shale Berea Sandstone Grey Shale Brown Shale Shale Marcellus Shale Onondaga Limestone Oriskany Sandstone Helderberg Limestone	0 260 360 605 675 855 1562 1732 2062 2081 2084 3536 3723 4090 4266 4346 4396	260 360 605 675 855 1562 1732 2062 2081 2084 3536 3723 4090 4266 4346 4396 4508 TD	S/0 S/0 S/0 S/0	· · ·
				• • •
				х Х
	(Attach t	separato shear	ts as necessary)	
	19) : T	1) Operator	on and Mining Company	A
	Date:	July 19, 198	3	· · · · · · · · · · · · · · · · · · ·

Set: Regulation 2.02(i) provides an falte of "The Sena Test of Postl Left shall mean a systematic

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∯	ř.			AD DIAMON		October 13	`a	, 12_86
RM WW-2(B)	D FILE COP	•¥	10	OF WEST LA	 1) Date 2) Ope 	e: October 13		_, 12
verse)	-				Wel	1 No. <u>KEM #36</u>		<u> </u>
5			- 0		🖇 3) API	Well No. 47 1	<u>107</u> County	<u>1254 -F</u> Permit
		OCT, 1. J.	1,986,	Stan Stants with		State	county	
		001,	STA	TE OF WEST VIR	GINIA			
				F ENERGY, OIL		SION		
				TION FOR A WELL				
4) WELL TYP			nX/	/ Underground sto	orage	_/ Deep	_/ Shallow	<u> X </u>
5) LOCATION	,	010		Watershed:				11120
57 200	District	. Harris			od	Quadrangle:		977
6) WELL OPE	RATOR		pany con	Ea: <u>25530</u> 7		AGENT <u>R. A</u> Same		
Address	<u> </u>	<u>0. Box</u> venswood.		1	Address			
3) OIL & GAS) DRILLING CC	ONTRACTOR:		
	len Robin			-		MGAS		
Address	Rt. 1				Address			·
	<u>Miner</u>	al Wells.	WV 26150	0				
0) PROPOSEI	WELL WOR	RK: Drill	/ Drill	deeper		/ StimulateX		bridge plug
		Plug o	ff old formation	<u>X</u> / Perfora	te new formation	_x/ Set p iskany, Perf	& stimul:	ate Brown Sha
				Shale & Berea	<u>13010.ce un</u>	<u>& B</u>	Serea San	dstone
1) GEOLOGI	ted depth of co		3750 (<u></u>			
		pths: Fresh, _	N/A	feet; salt,				
	cimate coal sea		None	Is coa	l being mined in the	area? Yes	/ No_	X/
5) CASING A	ND TUBING	PROGRAM						VERG
CASING OR TUBING TYPE	1	SPECIFICATION Weight	IS I	FOOTAGE IN		CEMENT FILL-UP OR SACKS	PAU	KERS
	Size (Grade per ft.	New Used	For drilling	Left in well	(Cubic feet)	Kinds N	one
Conductor				347'	347'	170 sks		UIIE
Fresh water	10_3/4 、]-55 45.5	-X	J4/		1 1/0 323	Sizes -	-
Coal Intermediate	7"	J-55 20.0	X	1832'	1832'	65 sks		
Production	45			443	443/		Depths set -	
Tubing								
Linc.s							Perforations: Top	Bottom
	· · · · · · · · · · · · · · · · · · ·						100	Dottom
	<u>II</u>		<u>I</u>	<u>ų</u>				
				OFFICE USE O			*****	
			$\langle v_{i} \rangle$	DRILLING PE	RMIT			
Permit number_	4	7-107-125	4-F				ctober 23	19 86
			-				ate	
This permit cov	ering the well	operator and w	ell location show	n below is evidence	of permission gran	ted to drill in accorda	ince with the p	ertinent legal re-
quirements subj	ect to the cond	itions contained	ions and pits for	any permitted work.	In addition, the v	well operator or his co	intractor shall i	notify the proper
district oil and g	as inspector 2	4 hours before	actual permitted	work has commence	d.)	iven to the District O well operator or his co	_	
The permitted w	ork is as descr	ribed in the Not	ice and Applicati	ion, plat, and reclam	ation plan, subject	to any modifications	and conditions	specified on the
reverse hereof.		ctober 23				d prior to that date an		
Permit expires				GINC33 WUI		• · · · · · · · · · · · · · · · · · · ·	-	
	•		G		CCF	Other		
Bond:	Agent:	Plar:	Casing	Fee	1. 24	Other		
	AB	1987	K2	169788	LAD			
4				(Le Íls	R. I.		
	- · ·		7		gund.	punston		
NOTE: Keep	one copy of th		d at the drilling l		irector pi	Y argar	and Gas	fosseFile
		See the reve	rse side of the A	PPLICANT'S COP	for instructions l	o the well operator.	, Orr	
22		ou me reve	and share of the fi		7	()		

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	•			.•					
	•				WE 97.				
				5%	R. T.				
		λ		(E(3)		15			
	IV-35						Data D		c 100c
	(Rev 8-81)		RAMO		11040		Operato	cember 1	5, 1986
		DIFCE	Velli	State of 3	Øest	Viroini		. <u>Kem #</u> :	369
		MAR 13	1084	Beparlm		-	Farm •]	Tennant	
				Oil und	,	~	API NO.	47 - 10	7 - 125
		DIVISION OF	OIL & GAS		Ç			47 - 10	7554
		DEPARTMENT		WELL OPERA		REPORT			1500
	~	DRILLIN	G, FRACTUR	ING AND/OR S	OF TIMUL	ATING, O	R PHYSICA	L CHANGE	
۰.	·								
	WELL TYPE:		Gas X / 1	Liquid Injec	tion	/ Wast	e Disposa	1 /	
		(If "Gas,	" Productio	on_x_/ Under	ground	d Storag	e/ Deej	p/ Sha	llow X /)
	LOCATION:	Elevation:	846'	Watershed	l Pi	ne Run		·	
		District:	Contraction of the other states of the other s	County W	40040400000000000000000000000000000000		Quadrangle	a Lubech	
							man and th		<u>` </u>
	Garantinocommunicationen parten anten a		nan ay sa ay s				W - Martin Colomatica States and a gen		0.14 - 17.1.1.2.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
	COMPANY_Ka	iser Explora	tion and M	ining Company	Y				<u> 2010 - 10 - 10 - 10 - 10 - 10 - 10 - 10</u>
		0. Box 8, Ra			Υ		Hood i-	x - <i>E</i> :-	Cement
		AGENT R.			1	Casing	Used in	Left	fill up
•	ADDRESS Sa		nanyaiwanaanyanya kata ana araa araa a	9999 ⁹⁹⁹⁹⁹ 999999999999999999999999999		Tubing	Drilling	in Well	Cu. ft.
	SURFACE ON	NER Wilbut	Tennant	an a		Size 20-16			
,		. 1, New Eng		, <u>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199</u>	عا -	Cond,			170 sks
• •	MINERAL RI	GHIS OWNER	Samo		- 1	10 3/4"		347	Class A
	ADDRESS		Jaille		-	9 5/8			
	Contraction of the second s	S INSPECTOR	ז פדניייי קרק	DDV Clan	- 4	3 5/8			
				eral Wells, W	-	7		1832	65 sks 5 pozmix
- - -						5 1/2			
				10/23 86	· [2	1 1/2		4431	225 sks 50/50 po
				10/23/86	-	3			
		OMPLETED	1		-	. 2			
	TE APPLICA	BLE: PLUGG PROGRESSIO	ING OF DRY N FROM DRT	HOLE ON					
	REWORKING.	VERBAL PE	RMISSION OF	BTAINED		liners used		- Andre Canana, and Anna Markey and Anna	-
	ON				. L				
•	GEOLOGICAL	TARGET FOR	MATION O	riskany			Dent	h ann	fee
	Depth	of complete	ed well 4	4 <u>90</u> fee	t Rot		~pt	- <u>4746</u>	£ttt
	Water	strata dep	th: Fresh	<u>N/A</u> fee	t, Sa	alt N/A	' ~~~~ feet	· •~~23	
	Coal :	seam depths	None			(s coal)	peing mine	d in the	יי לבסזג
	OPEN FLOW I			Drilled	on flu	id, not	known	کانا ، سه	uca: <u>N</u>
	· · PLOUD(Thisis	LON Devon	ian Brown Sh	ale	Pay	zone dept	h 3540 -	<u>3721</u> fee
	७वडः	initial op	en flow	Mcf/	d Oi	l: Init	tial open	flow	Bbl/
11/1R 1 5 1989		rinal open	110w *50	0Mcf/	d	Finz	al open fl	.~~	Bbl/
		Time	of open flo	w between i	nitial	L and fir	val tests	_4ho	urs
Alle	Statio	c rock pres	sure_*1000	psig(sur	face n	neasureme	ent) after	72 hou	rs shut i
	uj a	pplicable d	us to multi	iple complet	ion))			
	Secon	d producing	formation	Berea Sand	stone		zone dept	h 2075	2777 Fac
	Gas:	Initial op	en flow -	- Mcf/	d ni	Ll: Tnii	tial open	fla.	190 ₆ .
		Final open							Bbl/
				0			al open fl		
4		o mot non-	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ow between i	nicial	L and th	nai tests	<u>4</u> ho	urs
	scall *Com	c rock pres mingled	sure_*1000	psig(surf	ace me	easurenei	nt) after_	<u>72</u> hou	rs shut i
	Com	mingied							

FORM IV-35 (REVERSE)

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

10/30/86 Young Wireline perforated the Brown Shale from 3540 to 3721' w/20 shots 10/31/86 NOWSCO 75% foam frac the Brown Shale w/60,000# of 20/40 sand, 662,000 scf nitrogen; 323 bbl of water at 2300 psig; ISIP: 1600 psig; 5 min SIP: 1170 psig Young perforated the Berea Sandstone from 2075 - 2077' w/16 shots 10/31/86 NOWSCO 75% foam frac the Berea sand w/45,000# of 20/40 sand, 15,000# of 11/18/86

10/20 sand; 590,000 scf of nitrogen; total fluid: 357 bbl of water; ISIP: 1000 psig; 5 min SIP: 940 psig

WELL LOG REMARKS FORMATION COLOR HARD OR SOFT TOP FEET Including indication of all fre BOTTOM FEET and salt water, coal, oil and g SEE ORIGINAL OG-10 1 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY : • ۵.۱ (Attach separate sheets as necessary) i. ALEATER DAY ê Kaiser Exploration and Mining Company Well Operator By: Date: December 16, 1986 Regulation 2.02(i) provider as follows: "The term 'log' or 'well log' shall mean a systematic iletailed gentagieal re: 'all formations, including inst.' encountered in the thing of a well." Note: ٩ 46

FORM IV 2				*	*	NEST	er ä	1) Date	Apri	1 21		_, 19_ 83
FORM IV-2 (Obverse) (6-82)					-			2) Oper	rator's	KEM #3	269	
(0 0-)									No		107	1254
DRILLING CONT	RACTOR:					Failant SENTER LINES OF		3) API	Well No.	State	County	Permi
Clint Hurt						OF WEST VIR						
a supplicant set in	and services	teurion	DI	EPARTMEN	NT OF N	AINES, OIL AI	ND GAS	5 DIVISIO	N			
	Charles -			OIL AND	GAS W	ELL PERMIT	APPLIC	CATION	in mail			
4) WELL TYPE	A Oil	'Gas'', Pro	_/ Gas _	X /	/ 11	nderground sto	906		/ Dec	n X	_/ Shallow	Δ
5) LOCATION:	Elevat				N	Vatershed:	tine	Run		drangle:	Lubeck	,
6) WELL OPER Address	ATOR	iser E	xplora x 8	tion an enswood	d Min	- CO -11)	DESI	GNATED	AGENT	R. A. Same	Pryce	
7) OIL & GAS ROYALTY O Address		Wilbur Rt. 1 New En				12) 		L OPERAT	TOR	None		
Acreage 8) SURFACE O		125.	The second second	IN A		13)		LOWNER		H DECLAR	ATION ON F	RECORD:
Address						-		ldress _			Aneter	
Acreage 9) FIELD SALE Address	(IF MAD	E) TO:					Name Ad	ldress				
10) OIL & GAS I			NOTIFIE	D		14)				ECLARAT	ION ON REC	CORD:
Name <u>Hom</u> Address		Rt.,	Box 3A			 	Ad	ldress _ -	<u>la speth</u>			
15) PROPOSED		Drill Plug off	old form	ation	/	- / Redrill Perforate ne				imulate	/	
16) GEOLOGICA17) Estimated18) Approxim	d depth of c	ET FORMA	ATION,	4295		feet	lt,		feet.			
19) Approxim		1				Is coal t		ned in the a		S	/ No	
20) CASING AN	D TUBING	B PROGR	AM									
CASING OR TUBING TYPE	Size	SPE	CIFICATION Weight per ft.	NS New Used	d	FOOTAGE For drilling		LS t in well	OR	NT FILL-UP SACKS (bic feet)	PACK	ERS
Conductor											Kinds	
Fresh water	10 3/	H		X	35	250	1502	50	150	SKS CI	ass A to	surface
Coal	70			X		2096	20	96	<u>55</u>	kes 5241	Sizes	
Intermediate Production	4 1/	2.11		X		4296	42		225	sks 50,	Depths set	X
Tubing											Deptilo det	
Liners											Perforations:	
											Тор	Bottom
							Sere Co					
	ovide one o ed is the lea	of the follo ase or lease	es or other			or contracts by reverse side for			right to e	xtract oil or	gas.	
similar provisi produced or n	extract, pro ion for con narketed?	oduce or m npensation Yes 🗌	to the ow No	vner of the o	oil or ga	a lease or other in place whic	h is not	inherently	related t	o the volum		
If the answer abov 23) Required Cop 24) Copies of this named coal of Mines at Char	ies (See rev s Permit Aj perator, co	verse side.) pplication al owner(s	and the en), and coa	closed plat a	and recla		ve been	mailed by	registere	d mail or de	livered by han ication to the	nd to the abo Department
Notary: My Commission							Signed: Its:	Gene	ral Ma	inager'	CARDINET.	
					OFF	CE LISE OF					2	
Permit number	47-1	07-12	4			CE USE ON				72		19
This permit coverin quirements subject	to the con	ditions con	ntained he	rein and on	the reve	rse hereof. Not	fication	must be g	given to the	e District C	ce with the pe Dil and Gas In	spector.
(Refer to No. 10) P proper district oil a	Prior to the	constructio	on of roads	s, locations a	nd pits f	or any permitte work has comm	d work. enced.)	In addition	n, the well	operator or	his contracto	r shall notify
Permit expires Bond:	Agen	t:	Plat:	Casi	ng	unless dril	ing is co	innenced	prior to th	at date and	prosecuted wi	an ane unigen

a service and the service of the ser			-							
NOTE:	Keep	one copy	of	this	permit	posted	at	the	drilling	location

Administrator, Office of Oil and Gas

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