

6,500 LATITUDE 38 57 30 3900000 ALUMINUN BUTCHER spices HEIRS 81° 42'30" KA ISEF CHEMICAL // 81042 5 950 1/3/2 PELINE 11 50 1. ONGITUDE , ATER ROAD < P<sup>12</sup> 11 J-667 (02) PROPOSED -☆-0 LOCATION N74 4 ZZ'E 5291 I. PIN 3.00% NORTH KOSTE, correct 15' loc. 4.00 S 3.46W~ EASTWOOD ADDITION JEWELL MAPLE NUZUM J-839 (01) ALLWAN J-631 (02) ☆ NI E 5 6 - 1 I THE UNDERSIGNED, HEREBY CERTIFY THAT FILE NO ... THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-MINIMUM DEGREE OF 1:200 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-ACCURACY. MENT OF MINES. **PROVEN SOURCE OF** ELEVATION ROAD JUNCTION wood r. V <u>incent</u> ELEY. (SIGNED)\_ = 621, 1750 WEST OF LOCATION 664 R.P.E. L.L.S. \_\_\_\_ PLACE SEAL HERE DATE APRIL 19 83 5 STATE OF WEST VIRGINIA OPERATOR'S WELL NO. KEM 3 77 DEPARTMENT OF MINES OIL AND GAS DIVISION API WELL NO. 1832 47 035 STATE COUNTY PERMIT (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WELL TYPE: OIL \_\_\_\_GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL . (IF "GAS,") PRODUCTION K STORAGE \_DEEP\_X\_SHALLOW \_WATER SHED\_ BIG RUN JY CK DISTRICT RAVENS WOOD JACKSON COUNTY\_ QUADRANGLE SANOYVILLE Aler 15'NW (8-78) MAPLE 115.25 JEWELL SURFACE OWNER ACREAGE. OIL & GAS ROYALTY OWNER C.A. JEWELL HEIRS ET.AL. 115.25 LEASE ACREAGE. LEASE NO. 86-10-1360 FORM IV-6 1832 FROPOSED WORK: DRILL X\_CONVERT\_\_\_DRILL DEEPER\_ \_\_REDRILL\_ \_FRACTURE OR STIMULATE \_\_\_\_PLUG OFF OLD FORMATION \_\_\_\_PERFORATE NEW FORMATION \_\_\_\_OTHER PHYSICAL CHANGE IN WELL (SPECIFY). DEEP WEL WELL SPD- Huron 320'6-4 Silverton (281) PLUG AND ABANDON\_ \_\_\_CLEAN OUT AND REPLUG\_ TARGET FORMATION NEWBURG \_\_\_ESTIMATED DEPTH\_ WELL OPERATOR KAISER EXPLOR. +MIN. CO DESIGNATED AGENT KAISER EXPLORATION AND MINING 0 ک P.D. BOX 8 P. O. BOX 8 ADDRESS -\_ADDRESS\_ RAVENSWOOD, W.V. 26164 W. V. 26164 RAVENSWOOD, ï

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IV-35 (Rev 8-81)	• مستعلم	Operator Wall No	's <u>KEM 37</u>	7	
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We all 9 1500 AS . M Department	of Alines	Farm J		DE - 1022	- 
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W. VATION CO	REFORT				
ONSERVI . OF					
DRILLING, FRACTURING AND/OR STI	MULATING, OI	R PHYSICAL	( CIANGE		
•	•		A		
WEIL TYPE: Oil / Gas X / Liquid Injecti	ion_/ Waste	e Disposal	/ Sha	llow /)	
WELL TYPE: Oil / Gas X / Liquid Inject (If "Gas," Production X / Undergr	COULD SUCLAY				٠
LOCATION: Elevation: 823' GL Watershed	Big Run		enerite interest and the state of		
District: Ravenswood County Jac	kson	Quadrangle	e Sandyvi	<u>lle</u>	٠
ą <sup>1</sup>	•				
COMPANY Kaiser Exploration and Mining Co.	an a			Cement	
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Casing	Used in	left	fill up	
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling	in Well	Cu. ft.	
ADDRESS Same	Size				
SURFACE OWNER Maple Jewell	20-16 Cond				Å
ADDRESS Rt. 1, Box 311 Ripley, WV 25271	11 3/4		272'	250 sks c	lass A
	"' <u>9 5/8</u>				
ADDRESS Rt. 1, Box 311, Ripley, WV 25271	8 5/8			201 0 03	#/cack
OIL AND GAS INSFECTOR FOR THIS WORK Homer			2020	- <del>3% CaCl, 1</del> Flocele, 2	260 sks
Box 3-A	5 1/2			50/50 pox	<b>,</b> 10% s
Daugherty ADDRESS Linden Kt., Box 5 A PERMIT ISSUED 4/18/83	4 1/2		5307'		
DRILLING COMMENCED 5/13/83	3			100 sks c	· · ·
- DRILLING COMPLETED 5/23/83 5/14/85.F	PAC				1
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2				- ·
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners				
REMORKING. VERBAL PERMISSION OBTAINED	used				
CN.				• •	
GEOLOGICAL TARGET FORMATION Newburg				feet	*
Depth of completed well_5365' KB fee	t Rotary X	/ Cabl	le Tools_		
Water strata depth: Fresh fee	t; Salt	<u> </u>	-		
Obal seam depths: N/A	ະ ເພື່ອ ເພື່ອ	being min led on flu	ned in th	e area? NO own.	
	DIT		• • • • • •		
OPEN FLOW DATA Producing formation Berea Sandstone	Pa	iy zone dej	oth 2303-	2307 feet	L.
Gas: Initial open flow Mcf/ main open flow 192 Mcf/ Time of open flow between i		nal men	Flow -	Bbl/	1.
w complete final open flow 192		Final toct	5 4 h	NUTS	. ·
	4				
Static rock pressure , 400 psig (su					
(If applicable due to multiple complete	tion)			- 3056 K	5 Gen
Second producing formation Brown Sh	ale Pa	ay zone de	ptn 3/50-	-3700 ICC'	ب ع
Cas: Initial open flow Mcf	d Oil I	nitial ope	n ilow	- 601/0	u
Final open flow 231 Mcf	d Oil: F	inal open	flow	BD1/	<b>d</b> î
Time of open flow between	initial and	final_test	.s <u>  4       </u> !	hours	<b>.</b>
Static rock pressure 650 psig(sur	face measure	ment) afte	r 72 h	ours shut i	<b>n</b>
e		1 Praint	1 MIA AM 1	reverse oid	'e)
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## (INVECC) 8

## DETAILS OF PERFORMED INTERVALS, FRACTURING OR STEMULATING, PHYSICAL CHANGE, ETC.

5/07/85 Young's perf Berea @ 2303' to 2307' with 16 shots (.40") and set Alpha frac plug in 5½" casing at 2400'.
5/14/85 Halliburton to 75% foam frac the Berea. Broke formation @ 1990 psig; frac zone with 60,000# 20/40 sand @ 4 - 10 ppg concentrations; total nitrogen: 720,000 scf; total sand laden fluid: 264 bbl; total fluid: 362 bbl; ISIP: 1240 psig; 5 min SIP: 1170 psig. Flow back through ½" choke.

ORMATION	COLOR	HARD OR	SOFT	TOP FEET	BOITCM	FEET	Includin and salt	REM. g indi water	$\frac{1000}{1000}$	of a , oil	ll fresh and gas
Same as p	revious	ly submit	ted.								
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·			· · ·								<b>`</b> \$
	\$n ∖,,≺			Kaiser	Explora	tion	and Minin	<u>a Co.</u>			ana ana ang ang ang ang ang ang ang ang
				.		P			• * *	9	\$
- <sup>-</sup> •			*	By: Date:	100 5	1025	- Agencia - Agen		and the second secon		
	• •			Date:	VUIIE J,						
ж. К					•						n di serie d Serie di serie
NAPA		ation 9 A	2(i) n	roviles as jo	llows:	, Minimum (Minimum					
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	detai	led geole	ogical : red in	the drilling	Jerren L	, 11. "	0 0				
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WELL LOG

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IV-35	RECEIVEN	101 0100 10 10 10 10 10 10 10 10 10 10 1	- Starter	Date Ju Operator	ine 24, 19	83	-
(Rev 8-81)	JAN 2 6 1984	21.1. 6 207+	211:		KEM 3	77	
	OIL & GAS DIVISION	state of West		Farm Je	well		
	DEPT. of MINES	Department ol				5 1832	
	DEFI. OF MILLO	Oil und Cas Z	Bindiou		¢		_
	Ş	VELL OPERATOR'S	S REPORT				
	DRILLING, FRACIURIN	OF	TATTNG C	R PHYSTCAL	CHANGE		
	DRILLING, FRACTURIN	AND/OR STINO	, , , , , ,				
			(.Waet	Dismsal			
WELL TYPE:	Oil / Gas X / Lic (If "Gas," Production 833 K&	y / Undergrou	nd Storag	je/ Deep	/ Shai	110w_/)	
	(11 CL), 833 KB		0				
LOCATION:	Elevation: 823 6	Watershed Big	. Kun	<u> </u>	S		
	District: Ravenswood	<u>County</u> Jac	KSON	_Quadrangie	<u>Sand</u>	VILLE	
							r 0
				an gi balan kana da kan yang kana yang k		2000-2010-2010-2010-2010-2010-2010-2010	~
	aiser Exploration and Min	•			P - EL	Cement	
	0. Box 8. Ravenswood. W		Casing	Used in	left	fill up	
	D AGENT Robert A. Pryce		Tubing	Drilling	in Well	Cu. ft.	
ADDRESS P	2. O. Box 8, Ravenswood, M	IV 26164	Size 20-16				*
	WNER Maple Jewell		Cond.	-			4
ADDRESS_R	Rt. 1, Box 311, Ripley, W	/ 25271	13+10		272	<u>250 sks Cl</u>	ass.
MINERAL R	UGHIS OWNER C. A. Jewel	l Heirs	9 5/8				4
ADDRESS_R	Rt. 1, Box 311, Ripley, W	/ 25271	8 5/8			3% Cacl. 1	4#/
oil and g	AS INSPECTOR FOR THIS IN	DRK Homer	7		2020	flocele, 2 50/50 pozm	άUs Ux,
Daughe	erty ADDRESS Linden Rt.	<u>, Box 3-A,</u>	5 1/2			50/50 pozm salt, 100 A. 2% Cacl	\$KS
PERMIT IS	SUED April 18, 1983		4 1/2		5307	330 sks 50 mix, 100 s	)/50 515 (
DRILLING	COMMENCED 5/13/83		3				
DRILLING	COMPLETED 5/23/83	·	2				
	CABLE: PLUGGING OF DRY						
	S PROGRESSION FROM DRU		Liners				-
REWORKLING	G. VERBAL PERMISSION OF	LALLVEN	used				
COLUMN DESCRIPTION OF THE OWNER				Dor	<b>+h</b> 5320	feet	Ł
GEDLOGICZ	AL TARGET FORMATION	Newburg	Setema 1				-
Dept	th of completed well 53	65 KB teet	Kotary				
Wate	er strata depth: Fresh	feet;	Salt				
Coa	l seam depths: N/A	ne ta sente de la maina da cana	. Is coa	L being mu			uno -
open flo	W DATA		DRILL	ED ON FLUID	) – NOI KN	OWN	
Pro	ducing formation Ne	ewburg	P	ay zone dej	pth	feet	t
Gas	: Initial open flow	0 Mcf/d	Oil: I	nitial oper	n flow	Bbl/d	đ
	Final open flow	n Mcf/d	F	inal open :	Elow	Bbl/c	đ
lugged Newb	burg & Time of open fl: Dolomite Time of open fl:	w between init	ial and	final test	s h	ours	
loomsburg D	lolomite The of open in.	nsialarfa	ne measur	ement) aft	er ho	urs shut u	n
	applicable due to mult			•	***********		
L1J C	cond producing formation			av zone de	<b>pth</b> 3750	- 3956 <b>fee</b>	t
		<u>Mcf/d</u>	<u>e</u>	nitial ope	n flow	Bb1/	d ·
Gas	s: Initial open flow			final open		Bb1/	
8		31 Mcf/d				nours	- *
	Time of open fl						n
Sta	atic rock pressure 650	psig(surfac		ment) atte	r <u>48</u> K		<u></u>
		and the second s	4 1304	(Cont	irue on r	reverse sid	le)

## (19.) L. () (19.V(19.47)

## DETAILS OF PERFORMITED INTERVALS, FRACTORING OR STIMULATING, PHYSICAL CHARGE, EIC.

Young's set permanent plug at 4040', plugging Newburg and Bloomsburg Dolomite. Young's perforated Brown Shale from <u>3750' to 3956' with 20 .39" holes.</u> Nowsco and BJ Hughes foam fracture: broke down at 1730 psig with 75% quality foam. Treated with 75% quality foam at 1690 psig and 2000 psig; used 20/40 sand in concentrations from 2-10 ppg.

Rates	Totals
H_O = 10 bb1/min N <sup>2</sup> = 30 MSCF/min F6am = 40 bb1/min	$N_2 = 930 MSCF$ Sand = 60,000#
Foam = 40 bb1/min	•

ISIP: 1460 psig; 5 min SIP: 1270 psig

. WELL LOG

FORMATION COLOR HARD	OR SOFT TOP FEET	BOTIOM FEET	and salt water, coal, oil and gas
Shale Sandstone Shale Sandstone Shale Sandstone and Shale Shale and Sandstone Shale Sandstone and Shale Greenbrier Limestone Shale Pocono Injun Shale Coffee Shale & Berea Sandstone Shale Brown Shale Shale MarceTlus Shale Onondaga Limestone Oriskany Sandstone Helderberg & Salina Williamport Sandsto Lockport - McKerg Salina Williamport Sandsto Lockport - McKerg Salina Sava Sava Angola Helder Sava Sava Sava Sava Sava Sava Sava Sav	838 1084 1217 1350 1705 1855 1953 1974 2276 2300 2304 3720 3957 4343 4544 4622 4656 4834 154 5332 5338 Multiclesson 154 5338	80 277 317 392 561 838 1084 1217 1350 1705 1855 1953 1974 2276 2300 2304 3720 3957 4343 4544 4622 4656 4834 5332 5338 5360 TD	prov. K.b. 3750 2304 1446 1446
onangari - that that is		AISER EXPLORAT	ION AND MINING COMPANY
		June 19, 1983	

FOR	M IV-2					TUEST	1)	) Date:	April 18	, 19
	verse)					A A A A A A A A A A A A A A A A A A A		) Opera	ator's KEM	
	,								No Well No47	035 1832
DR	ILLING CONT	RACTOR	:			Printi SENTER UNTER		) AII	State	County Permit
C	lint Hurt			DE		TATE OF WEST V		IVISIO	N	
					OIL AND G	AS WELL PERM	IT APPLICAT	<b>FION</b>	share shinten its	
					x	and the second				
4)	WELL TYPE	A Oil B (If '	'Gas'' Pro	_/ Gas _	<u>x</u>	_/ Underground	storage		_/ Deep	/ Shallow()
5)	LOCATION:	Eleva	tion:	tavensy		Watershed:		un		Sandyville
~	WELL OPER	Distri	ict:						Quadrangle: AGENT	
6)	WELL OPER Address	ATOR	. Q. B	ox 8			(1) DESIGNA Addres		AGENTSan	10
		R	avensw	ood, WV	7 26164			-	Salara III	
7)	OIL & GAS ROYALTY O	WNER C	. A. J	ewell h	eirs, e	t al	2) COAL OF	PERAT	ORNone	
	Address	R	it. L.	Box 31	1		Addres		a the state of the	Contraction of the second
	Acreage			5.25			(3) COAL 01	WNFR	S) WITH DECLAR	ATION ON RECORD:
8)	SURFACE O	WNER	aple J	ewell			Name			ATTON ON RECORD.
	Address		ame				Addres	ss _		· incontract in the
	Acreage		11	5.25			Name			Constraint interest
9)	FIELD SALE	(IF MAD	E) TO:				Addres	ss _		to table to
	Address							-	WITH DECLAPAT	ION ON RECORD:
10)	OIL & GAS I	NSPECTO	OR TO BE	NOTIFIEI	D		Name		WITH DECLARAT	ION ON RECORD.
	Name	Er Dou	den Rt	. Box 3	A		Addres	ss _	and the second second	and the second
	Address	1001	aeyvil	le, WV				-		
15)	PROPOSED	WORK:				/ Redri				/
					ation ge in well (sp	/ Perforate	new formation	n	/	
16)	GEOLOGICA	L TARGE	-		Newbur	8 8		19. T.S.		
	17) Estimated				5320	feet				
	<ul><li>18) Approxim</li><li>19) Approxim</li></ul>					feet; Is co	salt, al being mined i		feet. rea? Yes	/ No/
20)	CASING ANI	D TUBINO	G PROGR	AM		and the state of the			and and a state of	Sheering for
	CASING OR		SP	ECIFICATION	IS	FOOTA	GE INTERVALS	175	CEMENT FILL-UP	PACKERS
	TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in w	vell	OR SACKS (Cubic feet)	
	Conductor	11 3/4	1		X	775-280	225230		150 sks cla	Kinds
1	Fresh water Coal								65.sks 50/5	Sizes
1350-	Intermediate	5 1/2			X	2200 5320	5320		225 sks 50/	G pozni z
Ser.	Production Tubing	/-								Depths set
	Liners									Perforations:
								14111	A CE MANYANIA	Top Bottom
							-		THE REAL PROPERTY OF	
21)	EXTRACTIO									
	Check and pro			the state of the state of the state of	continuing co	ontract or contracts	by which I ho	old the r	ight to extract oil or	289
	The req	uirement o	of Code 22			(See reverse side f				
22)	ROYALTY PI Is the right to e			arket the oi	l or gas based	l upon a lease or oth	er continuing o	contract	or contracts providi	ng for flat well royalty or any
	similar provisi	on for con	npensatior	to the own						e of oil or gas so extracted,
If t	produced or m he answer above				eded. If the	answer is Yes, you	may use Affid	lavit Fo	rm IV-60.	
23)	<b>Required</b> Copi	es (See rev	verse side.)							elivered by hand to the above
24	named coal o	perator, co	oal owner(	s), and coal	l lessee on or	before the day of	he mailing or	delivery	of this Permit Appl	ication to the Department of
	Mines at Cha	rleston, W					and the state	1	A.P_	A LOS ANT
	Notary:	Evniros					Signed:	G	eneral Manag	er
	My Commission	Expires					Its:			6
						OFFICE USE O				
Per	mit number					DAIDENGT				19
Th	s permit covorin	o the well	operator	and well los	cation shown	helow is evidence	of permission	granted	Date to drill in accordance	e ce with the pertinent legal re-
qui	rements subject	to the con	ditions con	ntained here	ein and on th	e reverse hereof.	Notification mu	ust be g	iven to the District C	)il and Gas Inspector.
(R pro	per district oil a	nd gas ins	pector 24	hours befor	e actual pern	nitted work has con	nmenced.)	aution	, the wen operator or	his contractor shall notify the
	mit expires						rilling is comm	nenced p	rior to that date and p	prosecuted with due diligence.
	Bond:	Agent	t: V	Plat:	Casing	Fee		· ······	that had	V
			2. 2. 1. 1. 1.		and the second s	1 10 - 1-6		Adm	inistrator, Office of	Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

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FORM IV-2(B)	278 F.	COPY				NUST VI	1)	Date: A	pril 2	4	. 19_85
(Cbverse) . *	A TAJAJ	011	,			E to at E	2)	Operator's	KEM #	377	
7-83							31	Well No API Well No.	4 **	035	1832Frac
							5)	Ari weli NU.	State	County	Permit
~						- Altered Market					
					S	TATE OF WEST VII	RGINIA				
				DEPA	RTMEN	T OF MINES, OIL A	ND GAS DI	VISION			
				AI	PLICA	TION FOR A WELL	WORK PER	MIT			\$
4) WELL TYP		bi ]	/ 62		X /						
					/	/ Underground sto	Tage	/ Dee	n.	/ Shallow	X of
5) LOCATION	N: Ele	vation:	823'			Watershed:	Big R	Run	ρ	_) Shanow	)
	Dis	strict: <u>R</u>	avensw			County:Jac	kson	Qua	drangle:	Sandyvi	11e •
6) WELL OPE	RATOR			orat	ion a	<u>nd Mi</u> ning Co;	) DESIGNA	TED AGENT	<u>R. A.</u>	Pryce	
Address			Box 8			4 <u>h</u> 5650	Address	s	Same		
			swood,	WV	2616	1 250					
8) OIL & GAS				IED		9	,	G CONTRACT	OR:		
Name <u>Je</u> l	Rt		<u>K</u>				Name				·
Address		pley,	WV 25	271			Address	\$			
10) PROPOSEI		• • • •	Drill		/ D::!!	deeper	( D. J.:!!)		V	,	
IV) FROFUSEI	JWELL	WUKK:			-	deeper / Perforat			mulateX	/	
				÷		n well (specify) Tre					
11) GEOLOGIO	CAL TAR	GET FOR				Sandstone					
						feet					
						feet; salt,_					
				No	ne	ls coal	being mined i	n the area? Ye	s	/ No	Χ/
15) CASING A	ND TUBI	ING PROG	GRAM								
CASING OR TUBING TYPE		SPEC	IFICATIONS			FOOTAGE INT	TERVALS		FILL-UP	PACK	ERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well		ic feet)		
Conductor	11 2/	n				0701	0701	050	, 7	Kinds	
Fresh water Coal	11 3/	<u>4</u>		_Ă		272'	272 '	250_s	<u>ks cla</u>	1	
Intermediate	711			Х		20201	2020'	268 s	ks 50/	s <sup>izes</sup> O pozmix	
Production	4 1/	b"		X		5307'	5307			ss A 50⇔¤boxmix	
Tubing		1					JUU/	1		ss A	
Liners										Perforations:	
										Тор	Bottom
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		1									
						OFFICE USE O					
						DRILLING PER					1
	6.7	-025-1	020 17.			DRILLING I ER	1711 H H				
Permit number	4/	-035-1	1832 Fr	ac			******	1	lay 6		1985
This normit aqua	ring the m	all amonato	and wall	lossti					Dat	-	
quirements subje	ct to the c	onditions (	contained h	nerein a	ind on th	below is evidence of reverse hereof Noti	fication must	be given to the	District Oil	and Gas Inspe	ctor. (Refer to
No. 8) Prior to the	ie constru	ction of ro	ads, locati	ons and	l pits for	any permitted work.	In addition, t	he well operator	or his con	tractor shall not	tify the proper
						work has commenced.					
The permitted we reverse hereof.	ork is as d	escribed in	the Notice	e and A	pplicatio	on, plat, and reclamation	ion plan, subj	ect to any modi	fications as	nd conditions sp	pecified on the
Permit expires	Ma	iy 6, 1	987			unless well w	ork is comme	nced prior to the	at date and	prosecuted with	due diligence
									and und	prosecuted with	uut unigentee.
Bond:	Agen		Plat:	Casin	σ	Fee	$\sim$			,	
01		1 2	2011	- 0		68 /	$\sqrt{1}$		$\bigcirc$		
80	P P J	Pr	MAN	YH		186 1	10	in a ch	$\sim$	11.	
							Iur	que	V.F	-rass	$\leq$
NOTE: Keep of	ne conv of	f this norm	uit nocted a	it the d	rilling lo	cation		Administrator, (	Office of O	il and Gas	
Keep 0			in posicu a	ii iii cui cui	. mink 10	cation,		/	<u></u>		File
		See	the reverse	e side o	f the AP	PLICANT'S COPY 1	or instruction	is to the well op	erator.		