Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMENT BUREAU OF I	AND MANAG	NTERIC EMENT		i ide <i>)</i>	3D-D:25-31416 Budget Bureau No. 1004-0136 Expires August 31, 1985 5. LEASE DEBIGNATION AND BERIAL NO. LC-064975 6. IF INDIAN, ALLOTTER OR TRIBE NAME
APPLICATION	FOR PERMIT TO	<u>d Drill, D</u>	DEEPEN	I, OR PLUG	BACK	
18. TYPE OF WORK DRI		DEEPEN [	]	PLUG BA	СК 🗌	7. UNIT AGREEMENT NAME
	S OTHER		SING		PLE	8. FARM OR LEASE NAME Greener 13 Federal
2. NAME OF OPERATOR	Ware, Inc.					9. WELL NO.
3 ADDRESS OF OPERATOR	ware, me.					1
	linois, Ste. 701	Midland	, TX '	79701		10. FIELD AND POOL, OR WILDCAT Under
4 LOCATION OF WELL (Re	port location clearly and	n accordance wit	h any Star	te requirements.*)		Quail Hidge Bone Springs
At surface 330' FNL & 330' FWL of Section 13 11. SEC., T., B., M., OB BLK. AND SUBVEY OR ABEA						
At proposed prod. zone	e Unit D					Sec. 13, T-20-S, R-33-E
	ND DIRECTION FROM NEAR		T OFFICE*			12. COUNTY OF PARISH 13. STATE
<u>30 Miles</u> 15. distance from propu	West of Hobbs,	<u>NM</u>	16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED
LOCATION TO NEABEST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. Q	30'	D' 160			40
(Allow Brochosed Location*   19. PROPOSED DEPTH   TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.   100'   9800'   Rotary						
21. ELEVATIONS (Show whe	U DE DE CB ata)	ecretary's	Pokuli	R-111-FF	Potash	22. APPROX. DATE WORK WILL START. Upon Approval
23.		PROPOSED CAS	ING AND (	EMENTING PROGR	м Сар	itan Controlled Water Basin
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00т	SETTING DEPTH		QUANTITY OF CEMENT
26''	20''	94#	450'			cient to Circulate
17.5"	13 3/8''	54-68#	3200'			cient to Circulate
12 1/4''	8 5/8''	24-32#		5250'		cient to Circulate
7 7/8"	5 1/2"					sacks – see stips

After setting production casing, pay zone will be perforated and stimulated as necessary.

.

<u>\_\_\_</u>

See attached for:	Supplemental drilling data BOP sketches	A C A A M A	Sep	
	Surface use and operations plan	14 E	8	21
				111
	Plats		$\infty$	() (1)
			<u></u>	~
			3:44	(ri
			<b>1</b>	0

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

preventer program, it any.		
BIGNED G. Thank Akins	LineAgent	9-26-91
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	DATE 10-15 91
CONAPPROVALE SUBJECT TO		
GENERAL REQUIREMENTS AND		
SPECIAL STIPULATIONS	*See Instructions On Reverse Side	be the sector of the

BINGED Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Submit to Appropria District Office State Losse - 4 copies Fee Losse - 3 copies

DISTRICT I P.O. Box 1980,	Hobbs, NM	<b>\$2240</b>

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

į.	. ÷	$(1,\infty) \in \mathbb{R}^{n}$	tan she			
			ATION	DI	VIS	ION
-			Box 2088			

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artenia, NM \$\$210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM \$7410

# WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

alor					Louse					Well No.	
COLLI	NS & WA	RE INC	с.	N.		GREENER	13 FEDH	ERAL			1
Letter	Section		Township		Range				County	7 774	
D		.3	20	SOUTH		33 EASI	·	NMPM		LEA	
al Footage Loc	ation of Well	:	<u></u>							-	
330	feet from t		NORTH	line a	and 3	30		feet from	the WES		
nd level Elev.		Producing	g Formation		Pool	Tean	. Ban	2 Spr	in	Dedicated Ac	caşe.
2505 2		Rone	Springs		L L	ndesiuna	ted Our	<del>it Rida</del>	еЭ	40	Acres
1. Outlin	is the acreege	s dedicated	i to the subject v	mell by colore	d pencil or he	chuse marks o	a the plat bei	0117.			
			icated to the we						ng interest a	nd royalty).	
2.11 100				· · · · · · · · · · · · · · · · · · ·				. <b>.</b>	م بدا المغالية	mounitization	
3. If mo	re than one le	are of diff	ferent ownership	) is dedicated	io the well, h	ave the micreal		I DOCH COLLEN		·	
	ation, force-p Yes		] M. 16	answer is "ye	s" type of co	noistation					
	ria "no" list	the owner	and tract descr	riptions which	have actually	been consolid	ated. (Use n	everse side of			
this form	a if neccessar	<b>7</b>		all interests h	ave been con	indicated (by co	mmunitizati	on, unitization	, forced-po	oling, or otherwise	)
No allo	a son-standar	nd unit. elir	minating such in	storest, has be	en approved t	y the Division	•				
									OPER	ATOR CERTI	FICATION
						I				iby certify that	
N 	44 14					l			contained h	erein in true and	l complete to
50-0	$\frown$					1		1	nest of my k	nowledge and beli	<b>4</b> .
		4				Í					
	12220.01	7				i				Chen.	IHA.
jo	i li	ĩ				i			$\underline{\boldsymbol{\mathcal{C}}}$	man	<u> </u>
596.7 L	-3598.7	,				i i			Printed Nan		
يب										Thane Aki	15
	1								Position		
	1					1			Age	ent	
		j							Company		ma Tra
		l		3		ļ				lins & Wa	re, inc
	1		-			Į.			Dete Ser	otember 26	, 1991
	1	l					· ···				
		l							SUR	VEYOR CERT	IFICATIO
										ه و المورج المورج . و معرج مع مع مد مع مد روز از موجع مع مد مع مد	
		ĺ							I hereby	ertify that the w	ell location
-	1	1				1			on thus p	iat was plotted f weys made by	me or und
		1		l l		Í			supervisor	, and that the	same is in
	1	i L				i			correct la	the best of n	ry knowledg
		r 1				i			belief.		
		1				i			Dete Surv	eved	. •
		ļ		1		1				AUG. 27	- (1001
		<u>}</u>		-+		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			Signature	A Seal of Lat	
		1				I			Professio	al Surveyor	
		1				1					
		l				1				,	
		1							//	/	
		1								n	1,9
		i						$\downarrow$	Carificat	e Na John	WEST,
		i	d and						V	RONALD	EIDSON,
									1		
									1		

#### SUPPLEMENTAL DRILLING DATA

COLLINS & WARE, INC. GREENER 13 FEDERAL WELL NO. 1

#### 1. SURFACE FORMATION: Quaternary

2.	ESTIMATED TOPS	OF GEOLOGIC MARKERS:	
		Rustler Anhydrite	1400'
		Top Salt	1540'
		Base Salt	3100'
		Yates	3300'
		Delaware	5400'
		Bone Springs	8350'

### 3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Bone Springs 011

#### 4. PROPOSED CASING AND CEMENTING PROGRAM:

20" 94# H-40 casing to be set at 450' in 26" hole. Casing to be cemented with 400 sacks of light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

13 3/8" 54-68# K-55 ST&C casing is to be set at approximately 3200' in 17 1/2" hole. Casing to be cemented with 1500 sacks of light cement with 1% CaCl and 5# salt per sack tailed in with 200 sacks of Class "C" with 1% CaCl and 5# salt per sack. Cement to circulate.

8 5/8" 24-32# K-55 and S-80 ST&C casing is to be set at approximately 5250' in 12 1/4" hole. Casing is to be cemented with 800 sacks of light cement tailed in with 200 sacks of Class "C" with 1% CaCl. Cement to circulate.

5 1/2" 17# and 20# K-55 and N-80 LT&C casing is to be set at 8700' in 7 7/8" hole. Casing is to be cemented with 750 sacks of 50-50 Poz "H" cement. Cement to the back.

#### 5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below the surface pipe, will be either a 1500 psi working pressure double ram type preventer or a 1500 psi working pressure annular type preventer. See attached BOP sketch.

Blowout prevention equipment, while drilling below the 8 5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

6. <u>CIRCULATING MEDIUM</u>:

Surface to 450':	Fresh water spud mud - Viscosity 30 to 36 as required for hole cleaning
450' to 3200':	Brine conditioned as necessary for control of viscosity, Weight 9.8-10, pH 9-10, Viscosity 32-36
3200' to 5250':	Cut brine. Weight 9.5-10#. pH 9-10, Viscosity 32-36, weight as necessary for well control.
5250' to T.D.:	Water-based drilling fluid conditioned as necessary for control of weight, viscosity, pH and water loss. Weight 9-10, Viscosity 38-45, pH 9-10, Filtrate while drilling pay zone 6-15

7. <u>AUXILIARY EQUIPMENT</u>: Geolograph from surface to total depth.

A mud logging trailer will be in use while drilling below the intermediate casing.

8. <u>TESTING, LOGGING, AND CORING PROGRAMS</u>: No drill stem tests are planned.

Compensated Neutron - Litho-density Log and Dual Laterolog with MSFL Log/GR from total depth back to intermediate casing. Gamma Ray log will be continued back to surface.

No coring is planned.

- 9. <u>ABNORMAL PRESSURES AND TEMPERATURES</u>: None anticipated.
- 10. <u>ANTICIPATED STARTING DATE</u>: It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 55 days.





BOP ARRANGEMENT