				30-025-32165.	
Form 3166-3		SUBMIT IN TR		 Form approved. 	
(December 1991 M. OH. CONS. COMMEDIC	ED STATES	(Other instruc reverse si		Budget Bureau No. 1004-0136 Expires: December 31, 1991	
P. O. BOX DEPARTMEN	T OF THE INTER			5. LEASE DESIGNATION AND SERIAL NO.	
HOBBS, NEW BERIEAU OF	NM-54432				
APPLICATION FOR P	6. IF INDIAN, ALLOTTES OR TRIBE NAME				
Is. TYPE OF WORK					
	DEEPEN 🗌			7. UNIT AGREEMENT NAME	
				8. FARM OR LEASE NAME, WELL NO.	
WELL () WELL OTHER	20)	NE L.J ZONE	<u>L_J</u>	Mark Federal	
Read & Stevens, Inc.		505/622-3	770	9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO.	D 11			6	
P. O. BOX 1518 4. LOCATION OF WHLL (Report location clearly and	Roswell, in accordance with any St	NM 88202		10. FIELD AND POOL, OR WILDCAT	
At surface 1650' FSL & 93		• • • • • • • • • • • • • • • •		Quail Ridge Delaware	
At proposed prod. sone				AND SURVEY OR ARBA	
Same				Sec. 3-T20S-R34E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAR		•		12. COUNTY OR PARISE 18. STATE	
33 miles southwest of H 10. DISTANCE FROM PROPURED*		OF ACRES IN LEASE	17. NO. 0	Lea New Mexico	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 9 (Also to nearest drig. unit line, if any)	30'	320	TO TH		
18. DISTANCE FROM PROPOSED LOCATION®	· 1	POSED DEPTH	20. ROTAL	BY OB CABLE TOOLS	
	026.16'	6600'	Ro	tary	
21. ELEVATIONS (Show whether DF. RT. GR. etc.)	3639' GL			22. APPROX. DATE WORK WILL START*	
23.				June 10, 1993	
	PROPOSED CASING AND	CEMENTING PROGRAM	I	Secretary's Potash	
SIZE OF HOLE GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
$\frac{17 \ 1/2"}{11"} \qquad \frac{13 \ 3/8" \ J-55}{8 \ 5/8" \ S-80}$	<u>54.5#</u> 32.0#	<u>1600'</u> 5000'		1000 sx lite + 200 "C"*	
$\frac{1}{77/8"} \frac{51/2"J-55}{51/2"J-55}$	15.5#	6600'		<u>1100 sx*</u> ack w/350 sx "H"	
			1100		
<u>Mud Program:</u> 0' - 1600': Fresh water nat			<u>s.</u>	W/L Control	
		1 ppg 32		No W/L control	
1600' - 5000': Brine mud: 5000' - 6900': Cut brine mud w	v/starch: 8,1		-40	W/L control 15cc	
1600' - 6900': Gel & lost circ	ulation material w	ill be added as r	needed.		
				•	
<u>BOP Program:</u> A 10" 3000 psi wp Shaffer Type	F ROP will instal	led on the 12 2/	0" opoi	Conting and IDAS Auto	
tested before drilling out with	n 11". BOP will us	ed as a 2000 psi	WD SVS	tem and won be tested daily.	
				RET.FILL BE	
* 13 3/8": Circulate 1000 sx 1			aCl	In the second	
* 8 5/8": Cement with DV too 1st stage: Lead 200 sx lit				"AR25 =	
1st stage: Lead 200 sx lit 2nd stage: Lead 500 sx li	te cement. tail w/2	а с. 200 sx neat. Ceme	ent to s	1993	
	`			6 187 6 A	
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If	proposal is to deepen, give data o	on present productive zone a	nd proposed	new productive zone. If proposal is to drill or	
leepen directionally, give pertinent data on subsurface location	······································		er program, i	fany.	
Ly at 1 1 1		ent for:	_	in the forest	
SIGNED		ad & Stevens		· · · · · · · · · · · · · · · · · · ·	
(This space for Federal or State office use)		i		PPROVAL SUBJECT 10	
PERMIT NO.	^	PPROVAL DATE		ENERAL REQUIREMENTS AND	
Application approval does not warrant or certify that the app	licant holds legal or equitable title	to those rights in the subject le	ase which wo	SECIAL STIPULATIONS and entitle the applicant to conduct operations thereon.	
CONDITIONS OF APPROVAL, IF ANY:			ć	ALLY CHED	
	(\neq)	l_{i} $\cap l_{i}$	~ ·		
APPROVED BY 51 Katho I	alon me Art	11 States	Duec.	Fune 7-27-93	
h	*See Instructions @	n Reverse Side			

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, detailous or faudulent statements or representations as to any matter within its jurisdiction.

CIL CONSERVATION DIVISIC.4 P.O. BOJ 2088 Sana FG, New Mexico 87504-2088 CIRCUID Constrained of the second service of the second ser	Anne Christ		and the second s			
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APPLICATION FOR DRILLING

READ & STEVENS, INC. Mark Federal, Well No. 6 1650' FSL & 930' FWL, Sec. 3-T20S-R34E Lea County, New Mexico Lease No.: NM-54432 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Rustler	1550'	Seven Rivers	3850'
Top of Salt	1770'	Delaware	5620'
Base of Salt	3150'	T.D.	6600'
Yates	3395'		
Queen	3670'		

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water in the Triassic between 80' - 230'.

Oil: Possible in the Delaware below 5600'

Gas: None expected.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

T.D. to surface:

Drill Stem Tests: None unless warranted.

G/R, CNL-FDC, DLL, MSFL G/R, neutron

Coring: None planned,

Logging: T.D. to 5000':

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 3000 psi with temperature of 110°.
- 10. H₂S: None expected. None in previously drilled wells.
- Anticipated starting date: June 10, 1993. .
 Anticipated completion of drilling operations: Approx. 3 weeks.

RIG # 1

BLOWOUT PREVENTOR ARRANGEMENT

10" SHAFFER TYPE "E", 3000 psi WP 80 GALLON, 4 STATION KOOMEY ACCUMULATOR 3000 psi WP CHOKE MANIFOLD





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