## JAN 13 1993

CERTIFIED--RETURN RECEIPT REQUESTED P 319 323 856

Read & Stevens, Inc. Attention: George R. Smith P.O. Box 1518 Roswell, NM 88202

North Lea Federal Well No. 8 RE: NM-56264 1650' FNL & 2310' FWL, Sec. 10, T20S, R34E Lea County, New Mexico

Dear Mr. Smith:

On September 15, 1992, Read & Stevens, Inc. filed an Application for Permit to Drill (APD) at the above referenced location. I am pleased to approve your APD at the present location. Your copy of the APD, with attached stipulations, is enclosed.

Through our analysis of the APD, we have determined that the well site is located a sufficient distance from the ore zones that potash resources should not be impacted.

If you need any additional information, please contact Tony Herrell in the Carlsbad Resource Area at (505) 887-6544.

Sincerely,

Or Larry L. Woodard State Director

15/ Kathy Euton

#### 2 Enclosures

NM (910, L. Woodard)

NM (920, R. Smith)

NM (060, L. Cone)

NM (060, A. Lopez) NM (067, T. Herrell)

Form 3160-3 (July 1989) (formerly 9-331C)

OFFICE P BER OF COPLES InvitINED (Other instructions on reverse side)

30-025-3/886 BLM Roswell District

Modified Form No. NM060-3160-2

# UNITED STATES DEPARTMENT OF THE INTERIOR

	DEF	5. LEASE DESIG	5. LEASE DESIGNATION AND SERIAL NO.						
		NM-562	NM-56264						
APPLICA		PERMIT TO DI	RILL, DEEPEN,	OR PLUG	ACK	G. IF INDIAN, A	LLOTTER OR TR	IBB HAMP	
	DRILL X	DE	EPEN 🗆	PLUG BA	CK 🗆	7. UNIT AGER	MENT NAME		
D. TIPE OF WELL OIL WELL X	OAR C	OTHER	SINGLE		[	S. FARM OR LE.	ARR NAME		
2. NAME OF OPERATOR 3a. Area Code 6 Phone No.							North Lea Federal		
	Stevens,	Inc.		505/622-3	770	9. WELL NO.			
3. ADDRESS OF OF						8			
P. O. Box 1518 Roswell, NM 88202  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							10. FIBLD AND POOL, OR WILDCAT		
At surface		FNL & 2310'		requirements."		Quail R		laware	
At proposed p		- WL & 2510	r w L			AND BURYE	OR AREA		
•	Sa	ame F				Sec. 10-T20S-R34E			
		ION FROM NEAREST TOW				12. COUNTY OR			
		est of Hobbs				Lea	New	Mexic	
10. DISTANCE PRO LOCATION TO PROPERTY OR	M PROPOSED* NEAREST LEASS LINS, PT.	0001	1	ACRES IN LEASE		F ACRES ASSIGNE	D		
(Also to near	rest drig, unit line,			480		40			
TO NEAREST	WELL, DRILLING, CO I, ON THIS LEASE, PT	MPLETED.	19. гногові	ю окетн 600 <sup>1</sup>	į.	tary			
	how whether DF, R					22. APPROX. D.	ATE WORK WIT	J. STARTS	
		364	1' GL	•	•		7 15, 19		
23.		PROPOS	ED CASING AND CEN	ENTING PROGRAM	<del></del>	Ber May			
HOLE SIZE	CASING SIZE	WE IGHT/FOOT	GRADE	THREAD	TYPE	BETTING DEPTH	QUANTITY 0	P CEMENT	
17 1/2"	13 3/8"	54.5#	J-55	STC		1600'	circ 1	200 sx	
11"	8 5/8"	32.0#	S-80	LTC		5000'	Circ 1		
7 7/8"	5 1/2"	155#	J-55	STCT	to 85 C	06600'	tie w/:	300 sx	
Mud Progr	ram:		Mud Wt.	<del></del>	· ·	W/L Con	trol		
0' - 10		water native mud				No W/L co			
1600' - 5			2.0	10 ppg 28-32		No W/L control			
		ine mud w/starch lost circulation			_	W/L contr	ol 15cc		
BOP Progr A 10" 300	ram: 00 psi wp Sha	ffer Series 900 :	BOP will instal	ed on the 13	3/8" ca				
* 8 5/8" 1st s	: Cement wit tage: Lead 2	1000 sx lite, tai h DV tool in two 100 sx lite, tail 1500 sx lite cemen	stages startin in w/200 sx "C'	g at 3800': '.		rface.			
	is to drill or deep	PROGRAM: If proposal is pen directionally, give p	ertinent data on subs	urface locations and					
4.			Agent		Tno		4	1000	
RIGHED	6844-62	12.1.74	. TITLE	& Stevens	, inc.	DATE	pt. 11,	1992	
	r Federal or State	<del></del>				<del></del>	* .** *** ****************************		
PERMIT NO			APPRO	VAL DATE		<del> </del>			
APPROVED BY			TITLE			PATS			
	HEREPHALITY ANY :			<del></del>					

\*See Instructions On Reverse Side

SPECIAL STIPULATIONS

GENERAL REQUIREMENTS AND

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

cale Lease - 4 copies ce Lease - 3 copies

)|STRICT | 1.O. Box 1980, Hoobs, NM 88240

# GIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

VISTRICT III

UUU Rio Brazos Rd., Azzec, NM 87410

USTRICT II
O. Drawer DD, Artesia, NM 88210

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

урсгают		Leise	Well No.
Read & Stever	ns, Inc.	North Lea Federal	8
jnit Letter   Section   F   10	Township 20 South	Range 34 East	County
Actual Footage Location of Well 1650 feet from t	37 - 4 7	2310 Sect from	West
Fround level Elev. 3641	Producing Formation Delaware	Pool Quail Ridge Delaware	Dedicated Acreage:
1. Outline the acreage	e dedicated to the subject well by colored per		40 Acres
2. If more than one le	case is dedicated to the well, outline each and	I identify the ownership thereof (both as to work	ing interest and royalty).
unidential, torce-pe	case of different ownership is dedicated to the cooling, etc.?	e well, have the interest of all owners been consc	olidated by communitization,
mix form if peccessary	ÿ	sactually been consolidated. (Use reverse side o	j
No allowable will be a or until a non-standard	assigned to the well until all interests have be d unit, eliminating such interest, has been ap	cen consolidated (by communitization, unitizated proved by the Division.	n, forced-pooling, or otherwise)
NM-56264 Read & Stevens,	3639.6 3.42.8 3640.5 3.40.7		OPERATOR CERTIFICATION  I hereby certify that the information contained herein in true and complete to the best of my browledge and belief.  Signature  Printed Name  George R. Smith  Position  Agent for: Company  Read & Stevens, Inc.  Dute  September 12, 1992  SURVEYOR CERTIFICATION
			I herehy certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief.  Date Surveyed  August 26 1997  Signature & Scal Professional Surveyor  P. R. Pattons  Offssional
330 660 990 1320	1650 1980 2310 2640 200	00 1500 1000 500 0	

#### APPLICATION FOR DRILLING

# READ & STEVENS. INC. North Lea Federal, Well No. 8 1650' FNL & 2310' FWL, Sec. 10-T20S-R34E Lea County, New Mexico Lease No.: NM-56264 (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	1570'	Seven Rivers	3870'
Top of Salt	1720'	Delaware	5620'
Base of Salt	3170'	T.D.	6600'
Yates	3415'		
Queen	36901		

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 5620'

Gas: None expected.

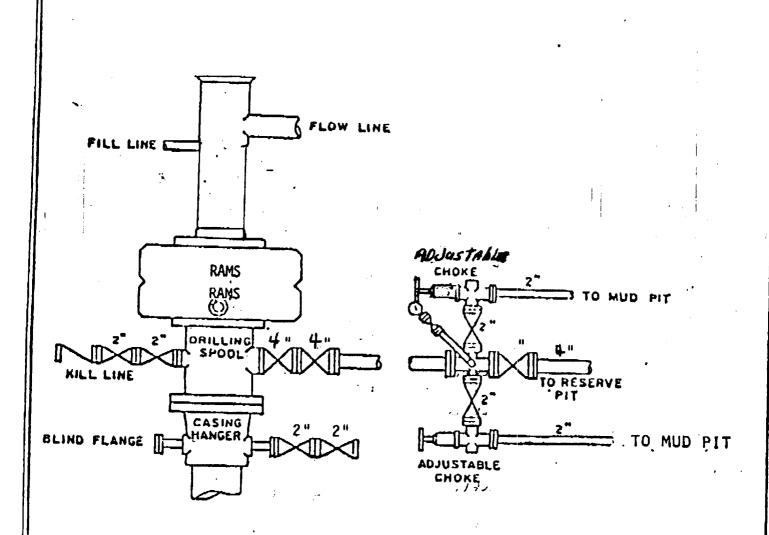
- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring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

Drill Stem Tests: None unless warranted.

Logging: T.D. to 5000': G/R, CNL-FDC, DLL, MSFL T.D. to surface: G/R. CNL

Coring: None planned.

- 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. Previously drilled wells in the area have shown there is no H<sub>2</sub>S problem.
- Anticipated starting date: January 15, 1993.
   Anticipated completion of drilling operations: Approx. 3 weeks.



## BOP STACK

3000 PSI WORKING PRESSURE Will be used as a 2,000 psi wp system

EXHIBIT "E"

READ & STEVENS, INC.

North Lea Federal, Well No. 8

BOP Specifications

RIG # 4
JSM Drilling Co.
BOP ARRANGEMENT

8052-H 78.D

113 113 (**) (19**02年) (1903年) (1904年)