IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

24.

SIGNED Kurt Fagrelius

Title Geologist

Date 3/12/2001

This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVAL DATE

APPR

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.

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

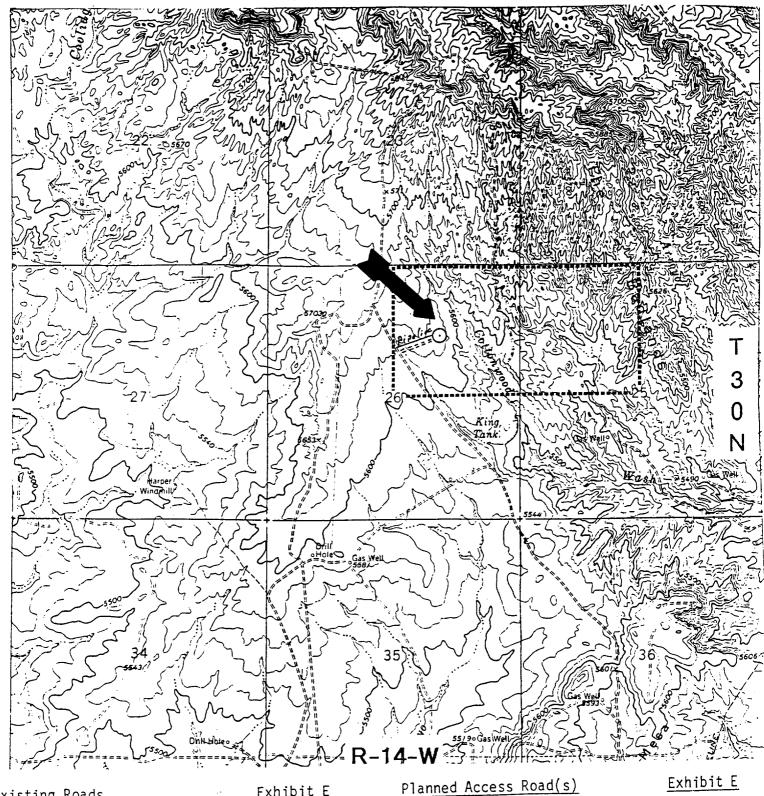
DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088 OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

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Existing Roads		EXHIBIC
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Type of surface	dirt	
Conditions	good	
Other		
Reference map: USGS	map - Young	js Lake Quad
DUGAN PRODUCTION COR		

Planned Access Rue	au(s)		EXIIID.U E
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Access road(s) do)do no	ot cross(f	ed Ind land.

EXHIBIT B OPERATIONS PLAN

Jacobs Com #90

APPROXIMATE FORMATION TOPS:

Ojo Alamo surface Kirtland surface Fruitland 935' Pictured Cliffs 1285'

Total Depth 1410'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 1000 feet to total depth.

CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	<u>Depth</u>	<u>Condition</u>
9-7/8"	7"	20#	±120'	J-55
6-1/4"	4-1/2"	10.5#	1410'	J-55

Plan to drill a 9-7/8" hole and set 120' of 7" OD, 20#, J-55 surface casing; then plan to drill a 6-1/4" hole to total depth with gel-water-mud program to test Fruitland Coal Formation. 4½", 10.5# J-55 casing will be run and cemented. Cased hole CNL-CDL log will be run. Productive zone will be perforated and fractured. After frac the well will be cleaned out and production equipment will be installed.

CEMENTING PROGRAM: All volumes are contingent upon Caliper logs.

<u>Surface</u>: Cement with 70 cu.ft. Class "B" neat. Circulate to surface

Production Stage - Cement with 142 cu.ft. 2% Lodense with 1/4# celloflake/sx followed by 78 cu.ft. Class "B" with 1/4# celloflake/sx.

Total cement slurry for production stage is 220 cu.ft.

Circulate to surface.

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers will be determined based on API standards. Centralizers to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

WELLHEAD EQUIPMENT:

Huber 7" x 4-1/2" casing head, 1000#WP, tested to 2000# Huber 4-1/2" x 2-7/8" tubing head, 1000# WP, tested to 2000#

BOP and Related Equipment will include for a 2000 psi system:

Annual preventer, double ram, or 2 rams with one being blind and one being a pipe ram Kill line (2" minimum) 1 kill line valve (2" minimum) 1 choke line valve

2 chokes

Upper kelly cock valve with handle available Safety valve and subs to fit all drill string connections in use Pressure gauge on choke manifold 2" minimum choke line Fill-up line

> Dugan Prod.Corp. Office & Radio Dispatch: 325-1821 325-4327 Kurt Fagrelius 325-6927 Mark Brown 327-3632 John Alexander John Roe 326-1034 327-3121 Sherman Dugan