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 11/7/01

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

4/22/3

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.

CONDITIONS OF APPROVAL, IF ANY:

Approved by Pavid J. Mankiewicznite

AFM

Date APR 2 2 2002

\*See Instructions on 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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oisthict I PO Box 1980, Hoods, NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

District II FO Drawer OD, Antisia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 State Lease - 4 Copies Fae Lease - 3 Copies

District III 1000 Rio Brazos Fd., Aztec. NM 87410

Salita Te, MA 6755

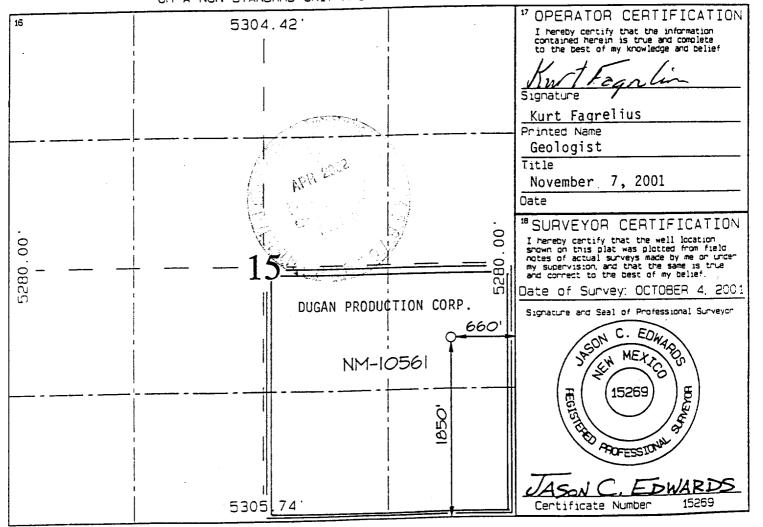
AMENDED REPORT

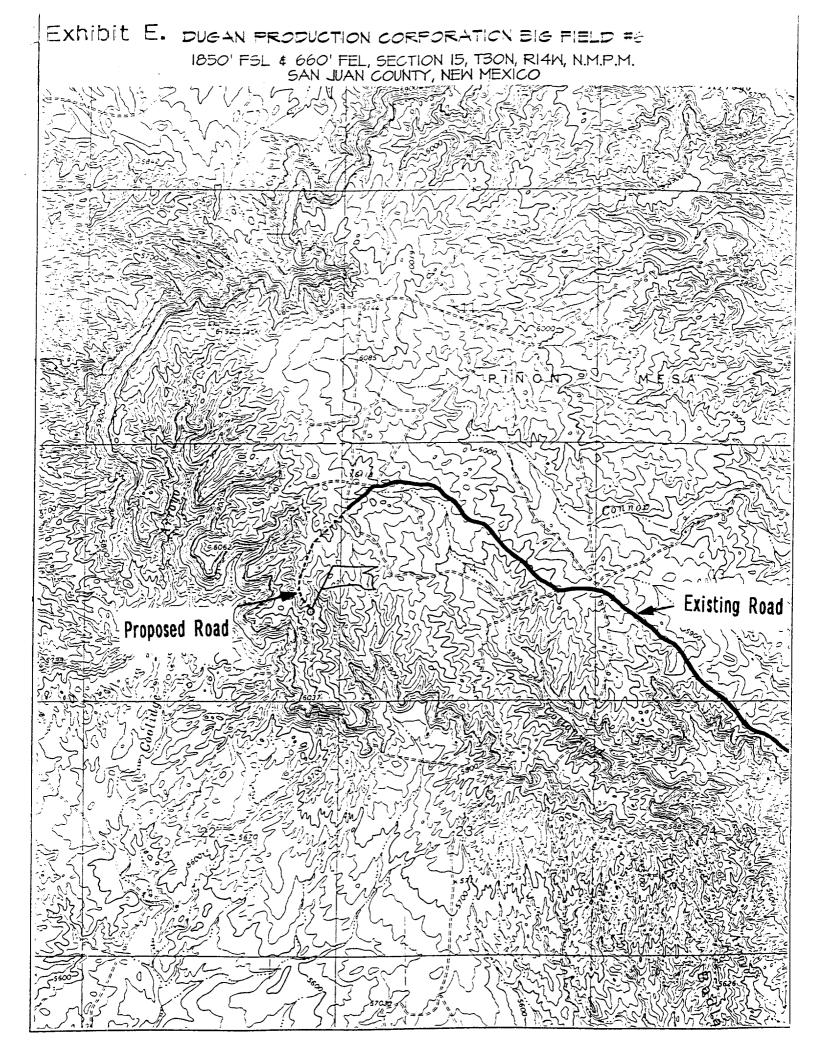
District IV PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name 'Pool Code 'API Number HARPER HILL FRUITLAND SAND PICTURED CLIFFS 78150 30 045 Well Number Property Name Procenty Code BIG FIELD E levat ton \*Operator Name 'OGRID No. 등 6034 : DUGAN PRODUCTION CORPORATION 006515 10 Sunface Location East/West line Feet from the North/South line Feet from the Lot Ion

ul or lat no. Section EAST SAN JUAN 650 1850 SOUTH 14W 30N 15 Ι From Surface Different <sup>11</sup> Bottom If Hole Location Feet from the County North/South line East/West line Feet from the Section Townsn 10 Lot Ion ut or los no. 14 Consolidation Code Jount or Infill 12 Cedicated Acres 160 Acres (SE/4)

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





## EXHIBIT B OPERATIONS PLAN

Big Field #6

## APPROXIMATE FORMATION TOPS:

Ojo Alamo/McDermott - surface Kirtland - 200' Fruitland - 1365'

Pictured Cliffs - 1674'

Total Depth - 1800'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 1500 feet to total depth.

## CASING PROGRAM:

Hole	Casing	Setting		Grade and
Size	Size	Wt./ft.	<u>Depth</u>	<u>Condition</u>
8-3/4"	7"	20#	±120'	J-55
6-1/4"	4-1/2"	10.5#	±1800'	J <b>-</b> 55

Plan to drill a 8-3/4" 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 Sand/PC 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

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, <math>1000 # WP, tested to 2000 # WP

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 Kurt Fagrelius 325-4327 Mark Brown 327-3632 John Alexander 325-6927 John Roe 326-1034