5 BLM 1 File 1 San Juan Basin Properties

SUBMIT IN TRIPLICATE*

FORM APPROVED

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR DEEPEN La. TIPK OF WORK DRILL X DEEPEN DEEPEN DRILL X DEEPEN DEEPEN DRILL X DEEPEN DEEPEN DRILL X DEEPEN DRILL X DEEPEN DEEPEN DRILL X DRILL X DEEPEN DRILL X DRILL X DRILL X DEEPEN DRILL X DRILL	FORTH 3100-3	3 B2.11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·	(Other in	structions on	OMB NO. 100	4-0136
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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, a	ive pertinent data on subsurface locations	and measured and true vertical depti	s. Give blowout preven	ter program, if any.		

24. Date 11/7/2001 Title Geologist Kurt Fagrelius (This space for Federal or State office use) APPROVAL DATE APPROVAL IF ANY: J. Mankiewicz CONDITIONS OF APPR Date Approved by

*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.

District I PO Box 1980, Hoods, NM 88241-1981

Oistrict II PO Inawer DD, Antesia, N4 88211-0719

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

District IV PO Box 2088, Santa Fe. NM 87504-2088 State of New Mexico Englg, Minerals & Natural Resources Capantment

GIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office

State Lease - 4 Copies

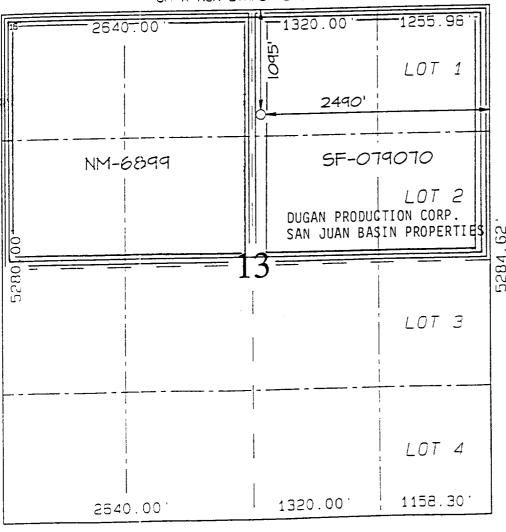
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Of Number			'Pool Co	de l		¹Pool Nam	e		
AT I TIGINGS				71529	CACTAL CRUTTL AND			TLAND	COAL	
30 Property 297/	045 .) (Coce	-1/2/			Procenty HUMBLE K			4.		ell Number 90
(CGRID No. 008515				*Goerator Name DUGAN PRODUCTION CORPORATION				. *Elevation		
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ul or lat no.	Section 13	Township 30N	Range 14W	Lot Ion	Feet from the	NORTH	Feet from the 2490	East/wes		SAN JUAN
		11 E	Sottam	Hole	Location I	f Different	From Surf	ace East/Hee	. J	County
UL on lot no.	Section	Township	Range	Lat Ion	Feet from the	K9-57-30001 11/4				
Dedicated Acres	314.	BB Acr	es (N/	'2)	¹³ Jaint on Infill	¹⁴ Consolidation Code	th Orther No.			

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



٠,	01.1010.1
	17 OPERATOR CERTIFICATION I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief Signature Kurt Fagrelius
	Printed Name Geologist Title November 7, 2001
	Date
JC 0.1. U.C.	I nemetry centify that the well location snown on this plat was plotted from field notes of actual surveys made by me on uncermy supervision, and that the same is three and correct to the best of my belief. Survey Date: OCTOBER 15, 2001 Signature and Seal of Professional Surveyor C. EDWARD MEXICO MEXICO 15269
	FG 15269 6 G
	JASON C. EDWARDS Certificate Number 15269

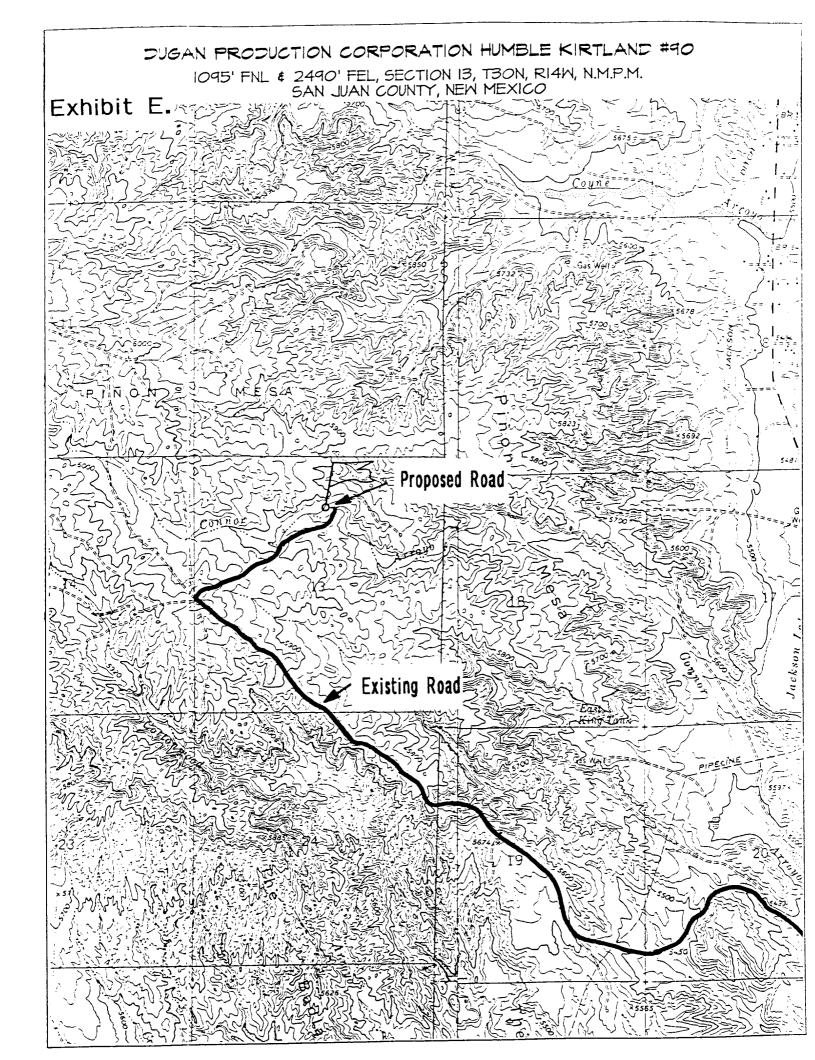


EXHIBIT B OPERATIONS PLAN

Humble Kirtland Com #90

APPROXIMATE FORMATION TOPS:

Ojo Alamo/McDermott - surface Kirtland - 125' Fruitland - 1290' Pictured Cliffs - 1621'

Total Depth

1755'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 1450 feet to total depth.

CASING PROGRAM:

Hole	Casing	771 /CL	Setting	Grade and <u>Condition</u>
<u>Size</u> 9-7/8"	<u>Size</u> 7"	<u>Wt./ft.</u> 20#	<u>Depth</u> ±120'	J-55
6-1/4"	4-1/2"	10.5#	±1755'	J - 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 Coal Formation. $4\frac{1}{2}$ ", 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.

Production Stage - Cement with 170 cu.ft. 2% Lodense with 1/4# celloflake/sx followed by 100 cu.ft. Class "B" with 1/4# celloflake/sx.

Total cement slurry for production stage is 270 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
> Kurt Fagrelius 325-4327 Mark Brown 327-3632 John Roe 326-1034 John Alexander 325-6927