	5 BLM 1 File		27.2 to 1.04.1 X 7.7	.,,			
F01111 5 100-5	J DLIVI TTHE		(Other instructions	on	OMB NO 1004-0	0136	
(July 1992)	IINITI	ED STATES	reverse side)		Expires February 3	1995	
	DEPARTME	ENT OF THE INTERIOR	₹		5. LEASE DESIGNATION AND SERI-	AL NO	
		F LAND MANAGEMEN			"SF-078110		
	APPLICATION FOR F	ERMIT TO DRILL OR	DEEPEN		6. IF INC:AN ALLOTTED OR TRIBE	NAME	
t a TYPE OF WORK	DRILL	DEEPEN L			7 UNIT AGREEMENT NAME		
b TYPE OF WELL							
Oil	Gas	SINGLE	X ZONE		8 FARM OR LEASE NAME WELL!	3683	
Well	Weil X Other	ZONÉ	201421		Federal I #10	JU 0	
2 Name of Operator	- Cam				9. API Wei No	2.3	
Dugan Production	1 Corp.		The second		30-045- 3/0	<u>25</u>	
3 Address and Telephone No	armington, NM 87499	(505) 325 - 1821			10 FIELD AND POOL OR WILDCA		
		Harper Hill FR Sand PC					
1970'	ation clearly and in accordance with any State FSL & 1960' FEL	(No. of the second		11. SEC. T. R. M. OR BLK		
At surface 1070	1 OE & 1000 1 EE		10/2		AND SURVEY OR AREA Unit J		
At proposed prodizone	same				Sec. 10, T29N, R1	14\//	
				- , , ,	12. COUNTY OR PARISH	t3 STATE	
14 DISTANCE IN MILES AND DIR	ECTION FROM NEAREST TOWN OR POST	OFFICE"		S 9	San Juan	NM	
1 mile west of Fa	rmington, New Mexico	15 NO OF ACRES IN LEASE	17. NO. OF, ACRES	ASSIGNED	Gail Guail	1 (10)	
15 DISTANCE FROM PROPOSE	ο.	15 NO. OF AURES IN LEASE	TO THIS WELL		_ ~		
LOCATION TO NEAREST PROPERTY OR LEASE LINE.	FT				160 JE	14	
(Also to nearest drig, unit line, i	187				100 00		
18 DISTANCE FROM PROPOSE	D LOCATION"	19 PROPOSED DEPTH 1075'	20 ROTARY OR CA	REE LOOES			
TO NEAREST WELL, DRILLIN		10,0			Rotary		
OR APPLIED FOR, ON THIS LEASE, FT.					22. APPROX. DATE WORK WILL START		
21 ELEVATIONS (Show whether	G.L	. 5401'			ASAP		
		PROPOSED CASING AND CE	MENTING PROGRAM				
SIZE OF HOLE	GRADES, SIZES OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
8-3/4"	7"	20#	20# 120 70		cu.ft. circ. to surf.		
U-3/4	1'		1	1400 -	. A sire to curf		

A water based gel-mud will be used to drill surface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Pictured Cliffs Sandstone will be completed from approximately 925' - 935'. The interval will be fractured.

10.5#

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

41/2"

6-1/4"

This action is action to technical and procedural review purpuent to 43 CFR 8166.5 and appeal pursuant to 43 CFR \$165.4

1075

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM if proposal is to deepen, give data on present productive zone and proposed new productive zone of proposal is to driv or subsurface ignations and measured and true vertical depths. Give blowout preventer program, if any Date 3/18/2002 Title Geologist

			_			
(This	space	for Federal	٥r	State	omice	use

PERMIT NO

Application approval does not warrant or certify that the applicant noise 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

/s/ David J. Mankiewicz 110

165 cu.ft, circ, to surf.

*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 pepartment or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



NWOXT

District I PC Box 1980, Hobbs, NM 88241-1980 State of New Mexico (Energy, Minerals & Natural Rescurces Depar Form C-132 Revised February 21, 1934 Instructions of 5324

District II PO Chawen CD. Antesia. NM 88211-0719

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

Submit to Aconconiate District Office State Lease - 4 Codies Fee Lease - 3 Codies

Cistrict III 1000 Rib Brazos Rd., Aztec, NM 87410

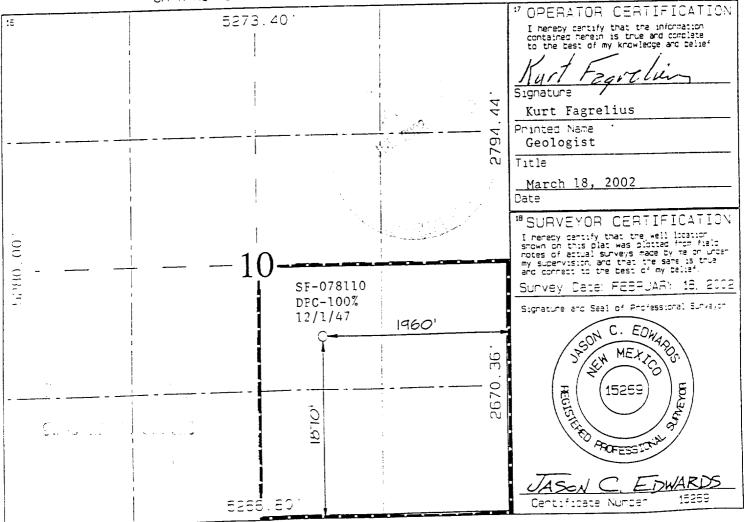
___ AMENDED REPORT

District IV PC Box 2088, Santa Fe, NM 87504-2089

WELL LOCATION AND ACREAGE DEDICATION PLAT

1,01 1, 222		Pagl Coc	e		'Pool Nati		
20-045-316	1 2 2	75150	HA.	RPER HILL FA	RUITLAND S4	NO PICTURE	O CLIFFS
70 -043 - 070 			Property FEDER		41.		eli Number 10
705FID No. 0005515	<u> </u>	DUGAN	*Coenator PRODUCTIO	Name N CORPORAT	ION	ł	Elevation 54011
			Sunface	Location			
JU 31 151 16 JEST 18		Pange Lot Ion 11W	Feet from the 1870	SOUTH	Feet from the 1950	East, West, Ture EAST	SAN JUAN
			OCATION I	f Different	From Surf	BOB East/Mest line	County
of an lating. Section	Township 5	Range Lot 107					
2 Cedicated Acres 150.0	Acres -	- (SE/4)	Publish on Infill	¹⁴ Comsolidation Code	¹⁵ Crder No.		<u> </u>

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



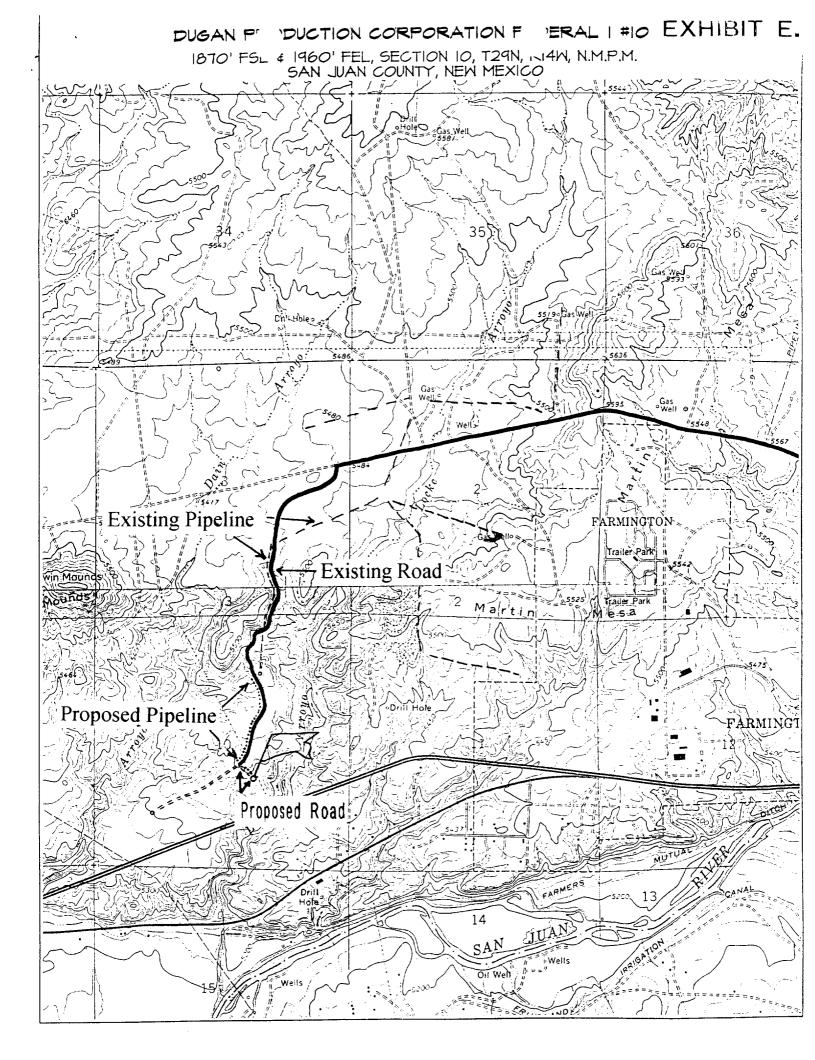


EXHIBIT B OPERATIONS PLAN

Federal I #10

APPROXIMATE FORMATION TOPS:

Kirtland - surface Fruitland - 620' Pictured Cliffs - 925'

Total Depth 1,075'

LOGGING PROGRAM: Run cased hole CNL-CDL Catch samples every 10 feet from 600 feet to total depth.

CASING PROGRAM:

Hole	Casing	Setting	Grade and
Size	Size	Wt./ft. Depth	Condition
8-3/4"	7"	20# ± 120'	J-55
6-1/4"	4-1/2"	$10.5\# \pm 1075$	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 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.

Surface: Cement with 70 cu.ft. Class "B" neat. Circulate to surface

Production Stage - Cement with 100 cu.ft. 2% Lodense with 1/4# celloflake/sx followed by 65 cu.ft. Class "B" with 1/4# celloflake/sx.

Total cement slurry for production stage is 165-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: (Exhibit D).

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

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