SUBMIT IN TRIPLICATE* (Other instructions or

FORM APPROVED

OMB NO 1004-0136

UNITED STATES
DEPARTMENT OF THE INTERIOR

erae arde/	p
	5 LEASE DESIGNATION AND SERIAL

	SF-078110						
	APPLICATION FOR PE	RMIT TO DRILL OR	DEEPE	N		8 IF INDIAN ALLOTTED OR TRIBE	E NAME
1 a TYPE OF WORK b TYPE OF WELL	DRILL	DEEPEN				7 UNIT AGREEMENT NAME	 ると
Oil Well	Gas X Other	SINGLE ZONE		MULTIPLE ZONE		8 FARM OR LEASE NAME, WELL	
2 Name of Operator						Federal I #90	
Dugan Production 3 Address and Telephone No.	n Corp.			 		9 API Well No. 30-045- 3/0	32-
P.O. Box 420, F	armington, NM 87499	(505) 325 - 1821		a*		10. FIELD AND POOL , OR WILDO	
	stion clearly and in accordance with any State rec ${\sf FNL~\&~660'~FWL~(SW/4~I)}$					Basin Fruitland Co	<u> </u>
At proposed prodizone	same				<u> </u>	Unit E Sec. 11, T29N, R	
1/2 mile west of F	ection from nearest town or post off Farmington, New Mexico	5.		TO NO OF ACRES	ASSIGNED	12. COUNTY OR PARISH San Juan	13 STATE NM
15 DISTANCE FROM PROPOSEL LOCATION TO NEAREST PROPERTY OR LEASE LINE, F (Aso to nearest drig, unit line, if	et. 660'	2,492.51		TO THIS WELL		316.11 (W/2)	
18 DISTANCE FROM PROPOSED TO NEAREST WELL, DRILLIN	G, COMPLETED. 1,950'	19. PROPOSED DEPTH 1150'		20 ROTARY OR CA	BLE TOOLS	Rotary	
OR APPLIED FOR, ON THIS L 21 ELEVATIONS (Show whether D		G.L. 5446'				22, APPROX, DATE WORK WILL S ASAP	START"
23		PROPOSED CASING AND CE	MENTING PI	ROGRAM			
SIZE OF HOLE	GRADES, SIZES OF CASING	WEIGHT PER FOOT	+	ING DEPTH		QUANTITY OF CEMENT	
9-7/8"	7"	20#	120'			.ft. circ. to surf.	
6-1/4"	41/2"	10.5#	1150'		180 cu	.ft. circ. to surf.	
will be used to dri 995' to 1015'. T	I-mud will be used to dril production hole. The F The interval will be fractu ONS AUTHORIZED ARE REAMES WITH ATTACHED	ruitland Coal will be o	complete Select to	ed from ap technical i	proxima end ef R 316	ately , , , ,	
IN ±80VE SPACE DESCRIE deepen directionally give per 24 SIGNED WY	SE PROPOSED PROGRAM If proposal intrinent data on subsurface locations and Title Kurt Fagrelius	s to deepen ig ve data on present pr measured and true vertical depths Geologist	oductive zone Give blowout	e and proposed ne preventer program	n, if any	re zone If proposal is to dinit o 3/18/2002	r
This space for Federal or St		APPROVAL DA	TE				
CONDITIONS OF APPROVA	ant or certify that the applicant holds legal or equi	-		ntitle the applicant to	conduct opera	itions thereon	
E-WALL	nio Rechain				_	nu 1 1	July

*See Instructions on Reverse Side

The 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 includes statements or recresentations as to any matter within its jurisdiction



KMN excreages incompar IN ON GARD BIMPlat Shows G46 For Section D:strict I PO Box 1980, Hopps, NM 88241-1980

State of New Mexico Energy, Minemais & Natural Resources Department

Revised February 21, 1991
Instructions on talk
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District II PO Chawer CC. Antesia. NM 88211-0719

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

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

AMENDED REPORT

District IV PO Ecx 2088, Santa Fe, NM 87504-2085

			ue≕e t			CREAGE DED	ICAT	ION PL	ΔT		
	API Number			'Pool Cod				Pool Name			
30-04		1032	<u>, </u>	71629	1629 BASIN F					ell Number	
Property 2/	Code				FEDER			90			
COGAIC COGAIC					*Cperator	Name ON CORPORAT	LION			*Elevation 5446	
0055	15				PHODUCTION Surface	Location					
Tul or lot no	Section	Township	=arg2	Lot for	Feet from the	North/South line		t from tre	East/mest line WEST	SAN JUAN	
Ε	11	29N	14%		2605	NORTH	<u> </u>	660 m Surf		JAN GCA	
	Section	11 E	ottom Regi	Hole L	ccation I	f Different North/South line		t from the	East/west Ine	County	
ut on lating	Section	10					is Cross				
12 Sedicated Acres	315.	.11 Acre	:s - (W	/2)	Doint or Infill	²⁴ Consolidation Code					
NO. A					IS COMPLET	ION UNTIL ALL EEN APPROVED	INTER	RESTS HAV	VE BEEN CONS	CLIDATED	
15 NO AL			A NOV-S	TANDARD	-		<u> </u>			IFICATION	
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	52.	DPC-	-100%					<i>Nurl</i> Signatur	tagrels	in_	
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		<u>-</u> 	- .		 - 		41.	Printed	Name logist		
27							26,	Title			
		1						Marc Date	ch 18, 2002		
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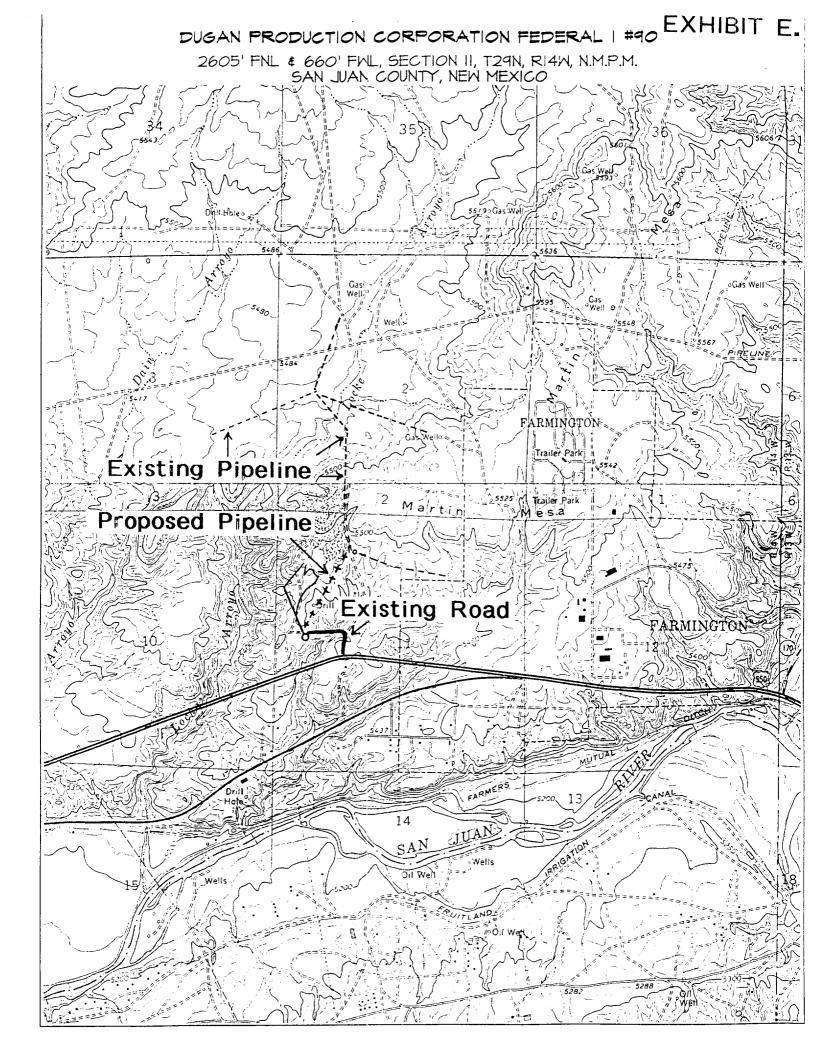


EXHIBIT B OPERATIONS PLAN Federal I #90

APPROXIMATE FORMATION TOPS:

Kirtland surface Fruitland 690' Pictured Cliffs 1015'

Total Depth 1150'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 800 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-new
6-1/4"	4-1/2"	10.5# ±1150'	J-55-new

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. 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 110 cu.ft. 2% Lodense with 1/4# celloflake/sx

followed by 70 cu.ft. Class "B" with 1/4# celloflake/sx.

Total cement slurry for production stage is 180 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 Alexander 325-6927 John Roe 326-1034