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SIGNED WITH TIME Geologist Nurt Fagrelius (This space for Federal or State office use) PERMIT NO. APPROVAL DATE V V 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.	SIZE OF HOLE 8-3/4" 6-1/4" A water based gewill be used to dr 1815-1825'. The processing and a second	el-mud will be used to drill production hole. The interval will be fractured with appeal pursuant to appeal pursuant to 43 CF PROPOSED PROGRAM: If proposal is to trinent data on subsurface locations and Kurt Fagrelius ate office use)	weight per root 20# 10.5# 10.5# rill surface and production Fruitland Coal will be or d. 43 OFR 3185.3 R 3185.4 So deepen, give data on present production deepen, give data on present production deepen and true vertical depths. Generally seed and true vertical depths. Generally se	120' 1960' on casing complete somplete somplete some and since blowout	ng hole. Sted from ap	andard proxima	2,000 psi BC ately The if proposal is to describe the description of	off. — 200 July 12 12 12 2: 21	

DISTRICT 1 7 2.9. 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

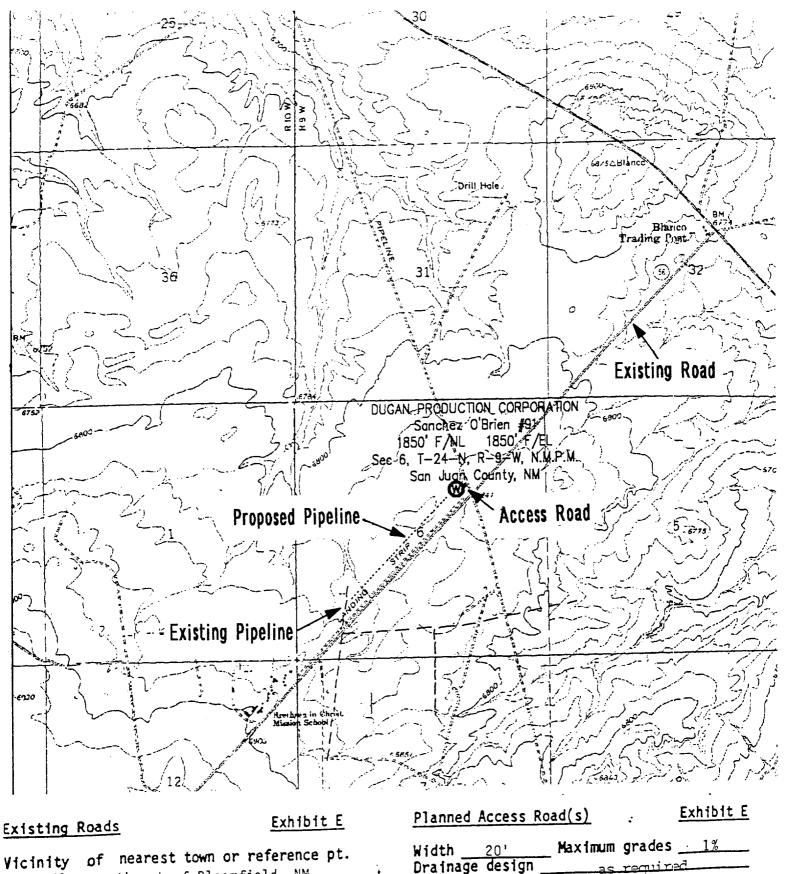
OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

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

		W]	ELL LC	CATIO	N AND A	CREAGE DED	ICATION P	LAT		
¹ API	¹ API Number ² Pool Code ¹ Pool Name									
30	045	30129		71629		Basin	Fruitland (Coal		
*Property C		70 70 7			⁵ Propert				s W.	ell Number
22/8)				SANCHEZ C	"BRIEN				91
OGRID No).				*Operato	r Name			9	Elevation
006515	5			DUGAN	PRODUCTION	V CORPORATION				6838
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
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	l	1	11 Bottor	n Hole	Location	If Different From	om Surface			
UL or lot no.	Section		Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
										,
Dedicated Acre	s ¹³ Joint	or Infill 14 Cor	nsolidation	Code 15 Or	der No.					
32017 3 20 E/2										
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	İ				— —		Printed Nam			
		N=36°20'	43.078"			1850*	Geologi:	st	.	
		W=108°49	40.541"				July 11	, 2001		
		9	SECTION	6		İ				
					2000	13212333333333333333333333333333333333	18 SUR	VEYOR	CERTI	FICATION
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		.10						MINININ	IIIIIIII.	



Existing Roads	
Vicinity of nearest tow 40 miles southeast of B	m or reference pt.
Type of surfacedir	·t
Conditionsgo	<u>od</u> .
Other	
Reference map: USGS map	Blanco Trading Post :
DUGAN PRODUCTION CORP.	- SANCHEZ O'BRIEN #91.

Planned Access Ro	oad(s)	Exhibit E
Width 20'	_Maximum gra	
Drainage design _	as req	iired
Cuts & Fills	as req	<u>iired</u>
Surfacing materia	none	
a Turnouts	₹ Waterba	rs
□ Culverts	7	
ÆS□Gates		<u> </u>
=Cattleguards	Access	Road &
//Fence cuts	Pipelin	
Access road(s) do	/do not cros	s Fed/Ind land

EXHIBIT B OPERATIONS PLAN

Sanchez O'Brien #91

APPROXIMATE FORMATION TOPS:

Ojo Alamo 1015'
Kirtland 1090'
Fruitland 1520'
Pictured Cliffs 1830'

Total Depth 1960'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 1750 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-new
6-1/4"	4-1/2"	10.5#	±1960'	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.

<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.

Exhibit B - Sanchez O'Brien #91 Page 2 of 2

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 Di	spatch:	325-1821
		Kurt	Fagrelius	325-4327
John Alexander	325-6927	Mark	Brown	327-3632
Sherman Dugan	327-3121	John	Roe	326-1034