	nterior —   AM   :   Agement	5	5. Lease Serial No. SF-0781	arch 31, 2007
APPLICATION FOR PERMIT TO I			25-0/61	10
a. Type of work: XDRILL REENTE	APPLICATION FOR PERMIT TO DRILL OR REENTER			or Tribe Name
- · · · · · · · · · · · · · · · · · · ·	210 FAR TOTAL	. 5	1 If Unit or CA Agree	ment, Name and No.
b. Type of Well: Oil Well X Gas Well Other	X Single Zone Multip	le Zone	8. Lease Name and W Federal	/ell No. I #101-S
Name of Operator Dugan Production Corp.			9. API Well No. 30-045-	34294
A. Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. (include area code) 505-325-1821		10. Field and Pool, or E Basin I	xploratory Fruitland Coal
At surface 1510' FSL and 670' FEL, Lat.  At proposed prod. zone Same as above. Long.	•		II. Sec., T. R. M. or Bill Z Sec. 1, T. NMPM	•
Approx. 1/2-miles East of Farmingt.	on, New Mexico		12. County or Parish San JUan	13. State NM
Distance from proposed* location to nearest 670 Feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of acres in lease 2497.51 Acres		g Unit dedicated to this w	
<ol> <li>Distance from proposed location<sup>6</sup> to nearest well, drilling, completed, Approx. 1150 Ft. applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 1260 Feet		BIA Bond No. a File	
Elevations (Show whether DF, KDB, RT, GL, etc.) GL-5441	22. Approximate date work will star ASAP	t*	23. Estimated duration 5-Days	
	24. Attachments			
ne following, completed in accordance with the requirements of Onshort  Well plat certified by a registered surveyor.  A Drilling Plan.  A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).  S. Signature	4. Bond to cover the least 20 above).  Lands, the 5. Operator certific 6. Such other site authorized offic Name (Printed/Typed)	de operation ation specific info er.	ns unless covered by an e	
Multagreling  Geologist	Kurt Fagrel	ius		April 30, 2007
pproved by (Signature) Man Resign	Name (Printed/Typed)		1	Date 7/2/
tle AEM	Office 7	=	)	
pplication approval does not warrant or certify that the applicant holds induct operations thereon. ouditions of approval, if any, are attached.	s legal or equitable title to those right	s in the sub	ject lease which would en	itle the applicant to

\*(Instructions on page 2)

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 Fruitland Coal will be completed from approximately/970' - 1110'. The interval will be fracture stimulated.

NOTIFY AZTEC OCD 24 HRS.

OIL CONS. DI
PRIOR TO CASING & CEMENT SEE ATTACHED FOR

**CONDITIONS OF APPROVAL** 



District I PO Box 1980, Hobbs, NM 88241-1980

lobbs, NM 88241-1980

District III 1000 Rio Brazos Rd. Aztec, NM 87410

District II PO Drawer DD, Artesia, NM 88211-0719

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL 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
707 MAY - 1 AM 11: 15

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code	'Pool Name BASIN FRUITLAND COAL	
71629		
	rty Name	Well Number
FEDERAL I		1015
*Opera	tor Name	*Elevation
DUGAN PRODUCTION CORPORATION		5441
	71629 Prope FEDE	71629 BASIN FRUITLAN Property Name FEDERAL I Operator Name

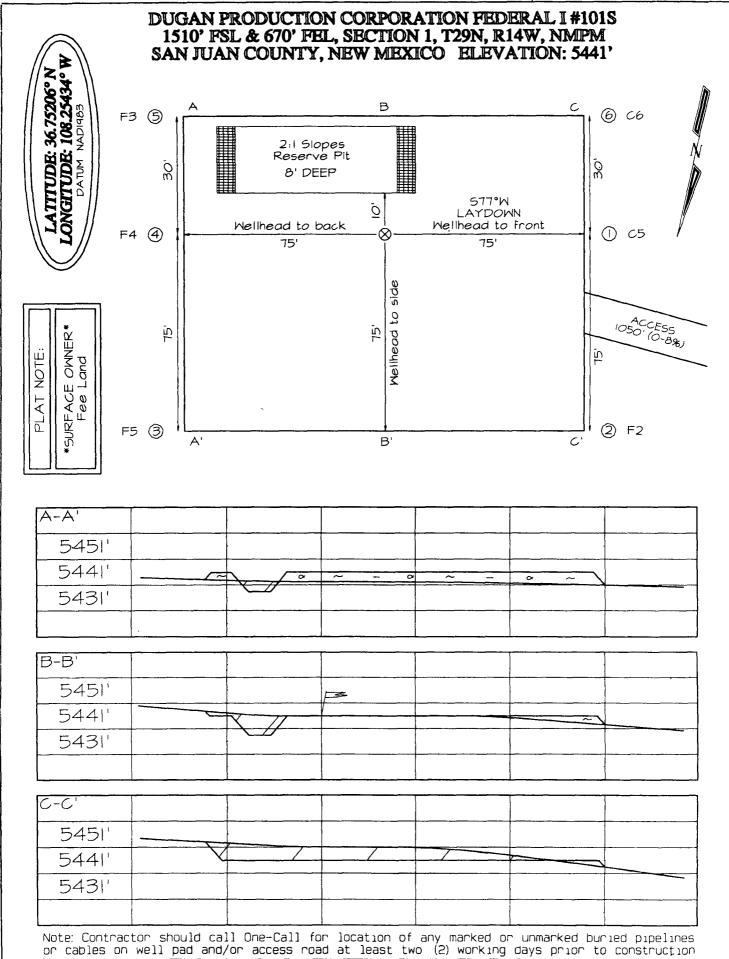
<sup>10</sup> Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the County UL or lot no. East/West line 29N 14W 1510 SOUTH 670 EAST SAN JUAN Ι 1 <sup>11</sup> Bottom Hole Location If Different From Surface Range North/South line Feet from the UL or lot no. Sect ion Feet from the East/West line County 13 Joint or Infill 14 Consolidation Code <sup>15</sup> Order No 12 Dedicated Acres 320.0 Acres - (S/2)

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

		OH A NON-STAND				TIL DIVISION
15 00.	LOT	5280 L <i>OT</i>	.00 · LOT	LO1	. 00:	OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1254.00	4	3	2	1 0281		Signature  Kurt Fagrelius
						Printed Name Geologist
. 00					320.00	May 1, 2007
1320	İ	'			1320	Date  18 SURVEYOR CERTIFICATION
-		1		 		I hereby centify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true
		DUG		.75206 'N 8.25434 'W NAD1983		and correct to the best of my belief  Date of Survey. APRIL 14, 2006
		SF-07	8110	. 60.		Signature and Seal of Professional Surveyor
00			,	LAT: 3 LONG: 13 DATUM:	670'	SECON C. EDWARD SECOND
2640.00 I					2640.00°	THE STOWN OF THE STOWN
				1510	56	TO PESSION OF
		5253	.60 '			JASON C. EDWARDS Certificate Number 15269

•				
Submit 3 Copies To Appropriate District Office	State of New Me	exico		Form C-103
District I	Energy, Minerals and Nati	ural Resources	WELL API NO.	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	OH CONGERNATION	I DITTICION		14294
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION		5. Indicate Type of	Lease Federal XX
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505		STATE [	FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa re, nivi 8	7303	6. State Oil & Gas	
87505				SF-078110
1	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PL		7. Lease Name or	Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLI	CATION FOR PERMIT" (FORM C-101) F		Federal	I
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well X Other		8. Well Number	#101-S
2. Name of Operator Dugan Pr	das wen E- Onles		9. OGRID Number	r
Dugan Pr	oduction Corp.			006515
3. Address of Operator 709 East Murra	y Drive, Farmington, New	Mexico 87401	10. Pool name or V Basin Frui	
4. Well Location				
	1510 feet from the South	line and 67	0 feet from	the East line
Section 1		ange 14W		County San Juan
	11. Elevation (Show whether DR	, RKB, RT, GR, etc.)		
	5441' G.L.			
Pit or Below-grade Tank Application Drilling posts of Control				
Pit type Drilling Depth to Groundw Pit Liner Thickness: 12 mil				
(Alt Daile A Browning)	Below-Grade Tank: Volume		nstruction Material S	
12. Check A	Appropriate Box to Indicate N	lature of Notice,	Report or Other D	)ata
NOTICE OF IN	ITENTION TO:	SUBS	SEQUENT REP	ORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		LITERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRIL		AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB 🗆	
OTHER: Reserve pit for dr	rilling (lined)	OTHER:		Г
	leted operations. (Clearly state all		give pertinent dates,	including estimated date
of starting any proposed we or recompletion.	ork). SEE RULE 1103. For Multip	le Completions: Att	ach wellbore diagran	of proposed completion
A water based gel-m	ud will be used to drill	surface and pr	oduction casing	, hole. Standard
2,000 psi BOP will	be used to drill producti	on hole. The	Fruitland Coal	will be completed
from approximately	970' - 1110'. The interv	val will be fra	cture stimulate	ed.
				•
I hereby certify that the information	above is true and complete to the b	est of my knowledge	and belief. I further	certify that any pit or below-
grade tank has been/will be constructed or	closed according to NMOCD guidelines	🗵, a general permit 🔲 o		
	omply with Federal stipul	.ations. Geologist		NATE April 30 2007
SIGNATURE / July Fag.		duganproduction		DATE April 30, 2007 505-325-1821
Type or print name	E-mail ac			phone No.
For State Use Only			& Gas Inspec	
I DODGE TO THE TOTAL OF THE TOT			strict #3	שני ד ב ואוו
APPROVED BY:	TITLE_		I	DATE JUB
Conditions of Approval (if any).	V			

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# EXHIBIT B OPERATIONS PLAN

Federal I #101-S

## APPROXIMATE FORMATION TOPS:

Total Depth	1260'
Pictured Cliffs	1110′
Fruitland	770 <b>′</b>
Kirtland	Surface

Catch samples every 10 feet from 900 feet to total depth.

## LOGGING PROGRAM:

Run cased hole GR-CCL-CNL from total depth to surface.

## CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
12-1/4"	8-5/8"	24#	120'	J-55
7 <b>"</b>	5-1/2 <b>"</b>	14#	1260′	J-55

Plan to drill a 12-1/4" hole and set 120' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7" hole to total depth with gel-water mud program to test the Fruitland Coal. 5-1/2", 14#, J-55 production casing will be run and cemented. Cased hole GR-CCL-CNL 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:

Surface: Cement to surface with 70 cf Class B + 2% CaCl<sub>2</sub>. Circulate to surface.

Production Stage-Cement with 115 cf 2%lodense with

4# celloflake/sx followed by 80 cf Class "B" with

₩# celloflake/sx.

Total cement slurry for production stage is 195 cf Circulate cement 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 8-5/8"x5-1/2" casing head, 1000# WP, tested to 2000#. Huber 5-1/2"x2-7/8" tubing head, 1000# WP, tested to 2000#.

BOP and Related Equipment will include for a 2000 psi system: (Exhibit D)

Annular 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.

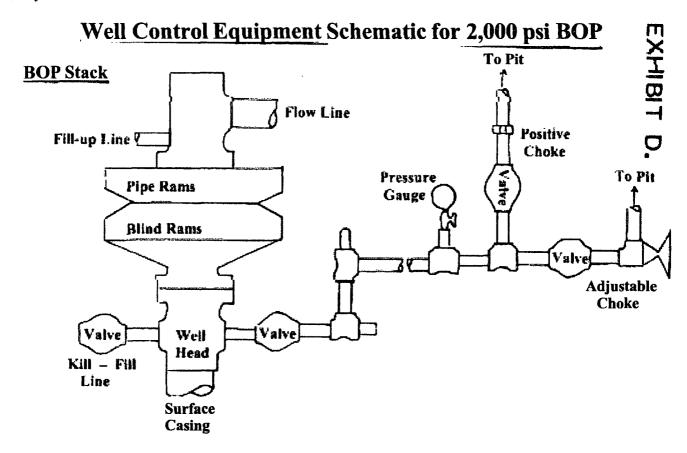
2" minimum choke line.

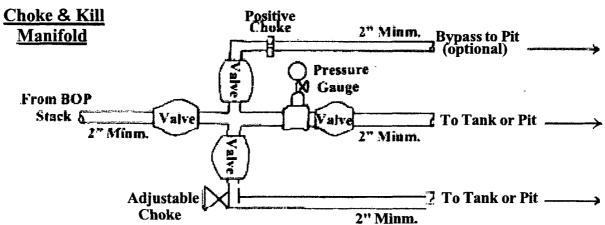
Fill-up line.

## Contacts:

Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

Mark	Brown	327-3632 320-8247	• ,
Kurt	Fagrelius	325-4327 320-8248	
John	Alexander	325-6927 320-1935	





Working Pressure for all equipment is 2,000 psi or greater

DUGAN PRODUCTION CORP.
Federal I #101-S