Form 3160-3 (April 2004)  UNITED STATES  DEPARTMENT OF THE I  BUREAU OF LAND MAN.	FORM APPROVED OMB No. 1004-01375 11 Figures Match 31/2009 1  5. Lease Serial No. 1004-01375 11  DECEMPONIM-32124						
APPLICATION FOR PERMIT TO		REENTER	,	6. If Indian, Allotec			
la. Type of work: XDRILL REENTE	R			7 If Unit or CA Agn	eement, Na	me and No.	•
lb. Type of Well: Oil Well X Gas Well Other  2 Name of Operator	XSin	gle Zone Multip	ole Zone	O ADT WAT MA	ry #9		
2 Name of Operator Dugan Production Corp.		•		3. All welling 3	0-045	-342	32
3a. Address 709 East Murray Drive Farmington, NM 87401		(include area code) 325-1821		10. Field and Pool, or	Explorator		•
4. Location of Well (Report Irration clearly and in accordance with any	State requireme	ends.*)		11. Sec., T. R. M. or I	31k. and Su	rvey or Area	•
At surface 1250' FNL & 1150' FEL, Lat.  At proposed prod. zone Same as above Long.	36.2592 107.93			A Sec. 6, T.	23N, F	R10W	
14. Distance in miles and direction from nearest town or post office*	107153			12. County or Parish		13. State	1
Approx. 35-miles SE of Bloomfield.	New Me	xico		San Juan		NM	
15. Distance from proposed* location to pearest property or lease line, ft.  1150 Feet	16. No. of ac 636.	res in lease . 72 Acres	,	g Unit dedicated to this 2 - 319.52 A			
(Also to nearest drig. unit line, if any)			20 D(14)	BIA Bond No.			,
<ol> <li>Distance from proposed location<sup>4</sup>     to nearest well, drilling, completed, Approx. 600     applied for, on this lease, ft.</li> </ol>	19. Proposed 108	O Feet		i File ,			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)  GL-6551 inis action is subject to technical and	ASA		ri <sup>‡</sup>	23 Estimated duration 5-Days	10		
procedural review pursuant to 43 CFR 3 and appeal pursuant to 43 CFR 3165.4	16543 Attac	hments		DRILLIN	G OPERA	ATIONS AUTH	ORIZED ARE
The following, completed in accordance with the requirements of Onshor	e Oil and Gas (	Order No.1, shall be a	ttached to th			<del>MPLIANCE W</del> JIREMENTS".	ITH ATTACHED
Well plat certified by a registered surveyor.     A Drilling Plan.		4. Bond to cover the ltern 20 above).	he operation	ns unless covered by an			
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	Operator certific     Such other site     authorized office	specific info	ormation and/or plans as	may be re	equired by the	
25. Signature Kurt Fearen		<i>(Printed/Typed)</i> Kurt Fagrel	ius		Date March	12, 200	7
Title Geologist							
Approved by (Signature)	Name	(Printed/Typed)	<del>,</del>		Date 5	/4/0	7
Title ATM	Office	TTO					•
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	s legal or equit	able title to those righ	ts in the sub	ject lease which would e	ntitle the a	pplicantto	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	ime for any pe o any matter w	rson knowingly and within its jurisdiction.	villfully to m	ake to any department o	r agency o	of the United	
*(Instructions on page 2)	1/						
A water based gel-mud will be used	to dril	l surface a	nd pro	duction casi	ng hol	e.	
Standard 2,000 psi BOP will be used	d to dri	ll producti	on hole	e. The Fruit	land	Coal	
will be completed from approximate	Ly 905'	- 929'. Th	e inte	rval will be	fract	ure	
stimulated.	N	OTIFY A	ZTE	COCD	24 F	IRS.	

NMCCD

PRIOR TO CASING & CEMENT

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5/9/07

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District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Department

District II 1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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Santa Fe. NM 87505

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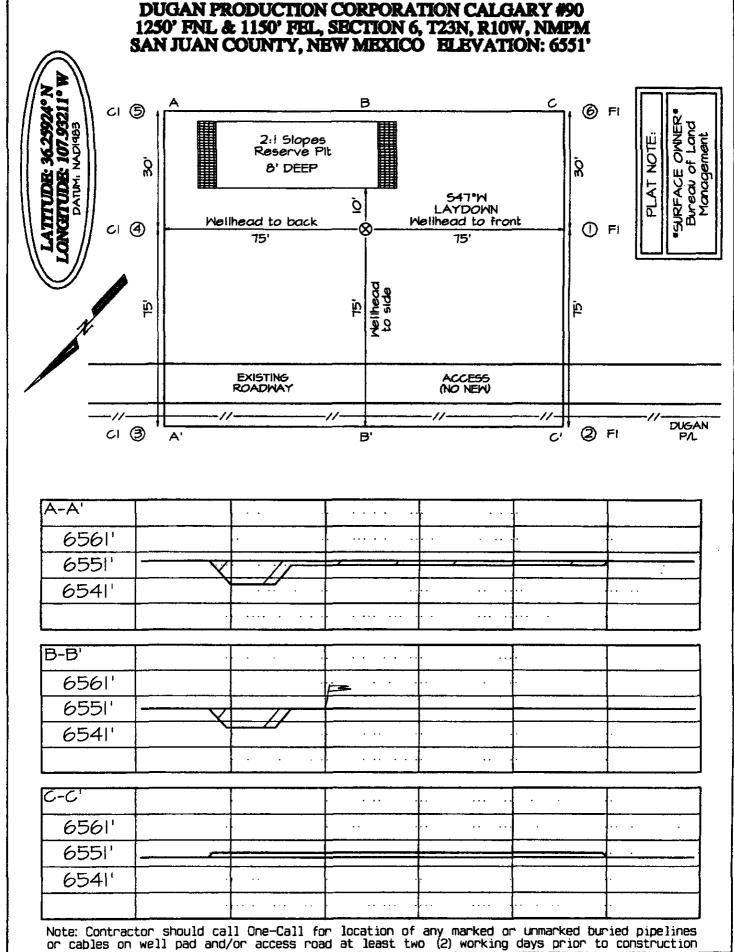
District IV

District 1220 S	ct IV 5. St. Fr	rancis Dr	. Santa Fe	. NM 8750	5	Santa re,	1441 0	7505	2	27 FAR 1	2 國	MEND	ED REF	PORT
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20	'API Number 'Pool Code 'Pool Name 30-045-34232 71629 BASIN FRUITLAND COAL													
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2	Jall	Code				CALG						, me	90 90	
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,	00651				DUGAN	PRODUCTIO		RPORATI	ON.				6551	
<u> </u>						<sup>10</sup> Surface	Locat	ion	·		i			
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		,	11 E	ottom	Hole I	ocation I	f Dif	ferent	Fro	m Surf	ace	<del></del>	1	
ULar	lot no.	Section	Томпалар	Range	Lot Idn	Feet from the	North	/South line	Fee	t from the	East/Wa		NS. DIU	ty
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Certificate Number

Submit 3 Copies To Appropriate District Office	State of New N			Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Na	tural Resources	WELL API NO.	May 27, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATIO		5. Indicate Type of Lease	Federal XX
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fr		STATE  F	EE
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM	8/303	6. State Oil & Gas Lease N Federal NM-321	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR, USE "APPLI	ICES AND REPORTS ON WELL OSALS TO DRILL OR TO DEEPEN OR F ICATION FOR PERMIT" (FORM C-101)	LUG BACK TO A	7. Lease Name or Unit Ag Calgary	reement Name
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well X Other	•	8. Weil Number 90	
2. Name of Operator	Production Corp.		9. OGRID Number	15
3 Address of Operator	ast Murray Drive, Farming	gton, NM 87401	10. Pool name or Wildcat  Basin Fruitla	nd Coal
4. Well Location				
	1250 feet from the north			
Section 6		Range 10W		San Juan
Pit or Below-grade Tank Application	11. Elevation (Show whether D GL-6551 '	K, KKB, K1, GK, etc.)		
Pit type Drilling Depth to Grounds		water well +1000 'Dist	ance from nearest surface water_	<u> 200'</u>
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Co	nstruction Material Synthet	ic
12. Check	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data	
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON DULL OR ALTER CASING	CHANGE PLANS	SUB: REMEDIAL WORK COMMENCE DRIC CASING/CEMENT	LLING OPNS.□ PAND A	NG CASING □
OTHER: Reserve pit for dr	rilling (lined) 🗓	OTHER:		
13. Describe proposed or com	pleted operations. (Clearly state al york). SEE RULE 1103. For Mult			
A water based gel m	mud will be used to drill	. surface and pr	oduction casing hole	
Standard 2,000 psi	BOP will be used to dril	l production ho	le. The Fruitland C	oal
will be completed f	from approximately 905' -	929'. The int	erval will be fractu	re
stimulated.				
				•
		···		
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the relosed according to NMOCD guidelines	best of my knowledge  [X], a general permit []	and belief. I further certify the pran (attached) alternative OCD-	at any pit or below- approved plan □.
SIGNATURE Kurt Fagrelius		Geologist us@duganproducti		3/12/2007
Type or print name	<del>-</del>	address:	Telephone N	
For State Use Only	$\mathcal{A}_{i}$	DEPAITY OR A CA	S INSPECTOR, DIST. #2	Ane a -
APPROVED BY: Conditions of Approval (if any):	TITLE_		DATE	1AY 0 9 2007



# EXHIBIT B OPERATIONS PLAN

Calgary #90

### APPROXIMATE FORMATION TOPS:

Total Depth	1080′
Pictured Cliffs	930′
Fruitland	565′
Kirtland	10′
Ojo Alamo	Surface

Catch samples every 10 feet from 850 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"	5-1/2"	14#	1080′	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 105 cf 2%lodense with

%# celloflake/sx followed by 65 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 170 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.

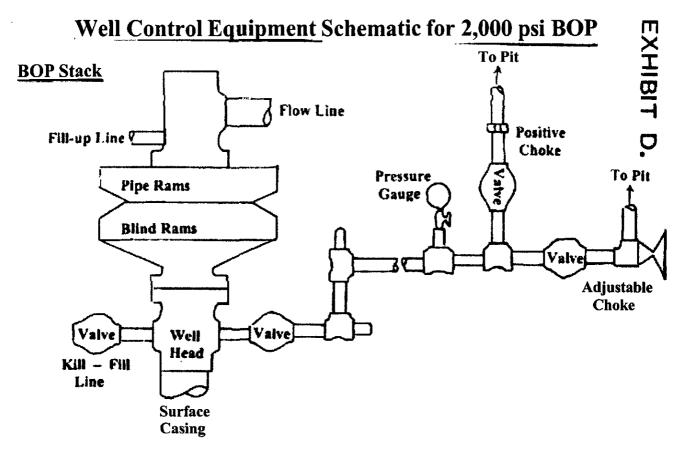
2" minimum choke line.

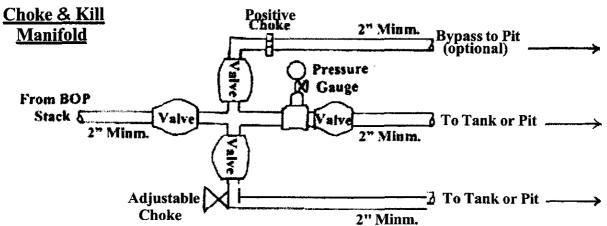
Fill-up line.

# Contacts:

Dugan	Prod.Corp.	Office &	Radio	Dispatch:	325-1821
Dayan	T + Ou. COLD.	OTT	LUGUIU	Dibbootin.	J2J-1021

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.
CALGARY #90