DIST. 3

Form	3	160-3
(Apri	1	2004)

Form 3160-3 (April 2004)  UNITED STATES  DEPARTMENT OF THE I  BUREAU OF LAND MAN.  APPLICATION FOR PERMIT TO I	INTERIOR IAGEMENT	5. Lease Serial No.	1004-0137 rch 31, 2007 NM-100808
ia. Type of work: DRILL REENTE		7 If Unit or CA Agree	ment, Name and No.
ib. Type of Well: Oil Well Gas Well Other	Single Zone Multiple	8. Lease Name and W Phoebe C	
2. Name of Operator  Dugan Production Corp.		9. API Well No. 30-045-	34053
3a. Address 709 East Murray Drive, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-1821	10. Field and Pool, or E	<del>oploratory</del> uitland Coal
4. Location of Well (Report breation clearly and in accordance with any At surface 800' FNL & 800' FWL, Lat. At proposed prod. zone Same as above Long.	•	∫ Sec. 7.R M or Bu ∫ Sec. 22, NMPM	and Survey or Area T24N, R10W
14. Distance in miles and direction from nearest town or post office* Approx. 35-miles SE of Bloomf	field, NM	12. County or Parish San Juan	13. State NM
15. Distance from proposed* location to nearest 800 Feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 160.0 Acres	17. Spacing Unit dedicated to this we N/2-320.0 Acr	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 2500	19. Proposed Depth 1560 '	20. BLM/BIA Bond No. on file On File	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6812'	22. Approximate date work will start ASAP	23. Estimated duration 7-Days	,
	24. Attachments		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover the Item 20 above).  Lands, the 5. Operator certifica	operations unless covered by an e tion pecific information and/or plans as n	
25. Signature Kurt Fagrelin	Name (Printed/Typed) Ku	rt Fagrelius	Date 11/2/2006
Title Geology			
Approved by (Signature)	Name (Printed/Typed)		Date 2/21/07
Title AEM	Office FFO		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	Is legal or equitable title to those rights	in the subject lease which would ent	itle the applicant to

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(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 1390' - 1405'. The interval will be fracture stimulated.

MOTIFY AZTEC OCD 24 LVS
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

99. Cerus Triis action is subject to technical and procedural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4

NMOCD

3/9

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

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

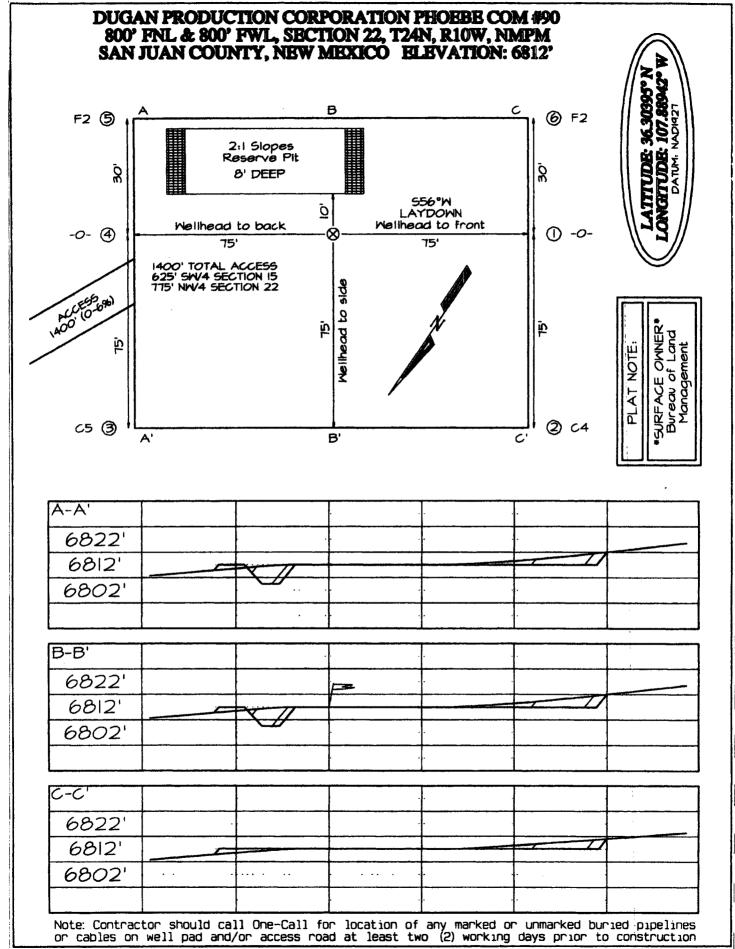
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM, 87504-2088 1 1 10

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Number		*Pool Cod		CHLAGE DED.	Pool Nam		
34053	3	71629	-	BA!	SIN FRUITLA	AND COAL	
•		<del>, , , , , , , , , , , , , , , , , , , </del>					Well Number
2							90 *Elevation
		DUGAN		-	ON		6812
<del></del>		1	<sup>10</sup> Surface	Location	· · · · · · · · · · · · · · · · · · ·		
		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1		11-7-1			<u> </u>		SAN JUA
		HOTE F	OCATION 1	T Ulfrerent	Feet from the	East/West line	County
320 0 Acr	res - (N	/2)	<sup>19</sup> Joint or Infill	<sup>34</sup> Consolidation Code	<sup>25</sup> Order No.		
	•						
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DUGAN	42 "W 983 	22	NM-	15654	Printed  Title  Date  Date  I hereby shown on notes of my supervand correct Survey  Signature	Kurt Fa Name Geology 11/2/20 EYOR CERT certify that the this plat was plu actual surveys ma isson, and that to the to the best of Date: SEPTEM	JETICATION Well location obted from field the same is true my belief MBER 15, 200 ressional Surveyor
	22 24N 12 24N 1320.0 ACT  E WILL BE OR  AT: 36.3039 0NG: 107.889 0ATUM: NAD1:	tion Township Renge 22 24N 10W 11 Bottom Township Renge 320.0 Acres - (N. LE WILL BE ASSIGNE OR A NON-S 50 107.88942 W DATUM: NAD1983	DUGAN  Township Range Lot Idn  2 24N 10W  11 Bottom Hole L  Stion Township Range Lot Idn  320.0 Acres - (N/2)  LE WILL BE ASSIGNED TO THOOR A NON-STANDARD  5196.84  DATUM: NAD1983  DUGAN M-100808	Property PHOEBE Operator DUGAN PRODUCTIO  Surface  Stan Township Range Lot Idn Feet from the BOO  11 Bottom Hole Location I Township Range Lot Idn Feet from the Location I Township Range Lot Idn Feet from the Stan Township Range Lot Idn Feet from the Stan Stan DARD UNIT HAS BE Supply 107.88942 W DATUM: NAD1983  DUGAN M-100808  DUGAN DUGAN DUGAN DUGAN NM-	Property Name PHOEBE COM  *Operator Name DUGAN PRODUCTION CORPORATI  10 Surface Location Etan Township Alarge Lot In Feet from the North/South line PLAN Township Range Lot In Feet from the North/South line  11 Bottom Hole Location If Different Etan Township Range Lot In Feet from the North/South line  320.0 Acres - (N/2)  LE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL OR A NON-STANDARD UNIT HAS BEEN APPROVED  5196.84  DUGAN M-100808  DUGAN M-100808  DUGAN NM-15654	Property Name PHOEBE COM  **Operator Name DUGAN PRODUCTION CORPORATION  **Operator Name DUGAN Prest from the Name Name Name Name **Operator Name DUGAN Name Companies of Prest from the Name Name DUGAN Name Companies of Prest Name DUGAN Name Companies of Prest Name DUGAN Name Companies of Name Name DUGAN Name Companies of Name Name Name Name Name Name Name Name	Property Name PHOEBE COM  PHOEBE COM  DUGAN PRODUCTION CORPORATION  10 Surface Location 10 Surface Location 10 Surface Location 11 Bottom Hole Location If Different From Surface 11 Bottom Hole Location If Different From Surface 12 24N 10W Feet from the North/South line Feet from the East/Next line 13 Bottom Hole Location If Different From Surface 14 Bottom Hole Location If Different From Surface 15 In Property Order Info The Surface 16 Bottom Hole Location If Different From Surface 17 Bottom Hole Location If Different From Surface 18 Bottom Hole Location If Different From Surface 18 Bottom Hole Location If Different From Surface 19 Bottom Hole Location If Different From Hole Location If Di

5241.72

State of the Mexico	Vorm Capa
blogge I tinengs : Minerals and Matural Resources 1925 n. Frenca (c., Flobba, MM 88240	WELL, API NO. 30-045- 34053
DOLAY Gross Ave. Artesia, 0M 88 fto  District III  1000 Rto Brazo Pd. Aztec NM 87410  1000 Rto Brazo Pd. Aztec NM 87410	5 Indicate Type of Lease Federal XX
District IV Santa Fe. (NM 87505) 1226 S. St. Francis Dr., Santa Fe. NM	6. State Oil & Gas LeaseNc. Federal NM-100808
87505 SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	Phoebe Com
1. Type of Well: Oil Well Gas Well XX Other	8. Well Number #90
2. Name of Operator Dugan Production Corp.	9. OGRID Number 006515
3. Address of Operator 709 East Murray Drive, Farmington, NM	10. Pool name or Wildcat  Basin Fruitland Coal
4. Well Location	<u> </u>
Unit Letter D: 800 feet from the north line and Section 22 Township 24N Range 10W	
Section 22 Township 24N Range 10W  11. Elevation (Show whether DR; RKB, RT, GR, etc.  GL-6812'	NMPM County, San Juan
Pit or Below-grade Tank Application V or Closure	
Pit type Drillingepth to Groundwater 100 Distance from nearest fresh water well +1000 D	stance from nearest surface water +200 '
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; (	Construction Material Synthetic
12. Check Appropriate Box to Indicate Nature of Notice	, Report or Other Data
PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMEDIAL WO	RILLING OPNS. P AND A
OTHER: Reserve pit for drilling (lined) \( \text{\text{I}}\) OTHER:  13. Describe proposed or completed operations. (Clearly state all pertinent details, a of starting any proposed work). SEE RULE 1103. For Multiple Completions: A or recompletion.	nd give pertinent dates, including estimated date attach wellbore diagram of proposed completion
A water based gel-mud will be used to drill surfa Standard 2,000 psi BOP will be used to drill prod Coal will be completed from approximately 1390' - be fracture stimulated.	uction hole. The fruitiand
I hereby certify that the information above is true and complete to the best of my knowled grade tank has been/will be constructed or closed according to NMOCD guidelines [2], a general permit [2]  SIGNATURE TITLE Geology  Kurt Fagrelius kfagrelius@duganproduc	or an (attached) alternative OCD-approved plan $\Box$ .  DATE $11/2/2006$ .
Type or print name  E-mail address:  For State Use Only	Talephone No.
APPROVED BY:  Conditions of Approval (if any):  TITLE  TITLE	DATE EB 2 3 2007



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## EXHIBIT B OPERATIONS PLAN

Phoebe Com #90

#### APPROXIMATE FORMATION TOPS:

Total Depth	1560'
Pictured Cliffs	1410′
Fruitland	1090′
Kirtland	695 <b>'</b>
Ojo Alamo	605 <b>′</b>

Catch samples every 10 feet from 1300 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"	<del>8-5/</del> 8"	24#	120'	J-55
7"	5-1/2"	14#	1560	J <del>-</del> 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 150 cf 2%lodense with

## celloflake/sx followed by 90 cf Class "B" with

## celloflake/sx.

Total cement slurry for production stage is 240 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:

grani

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.

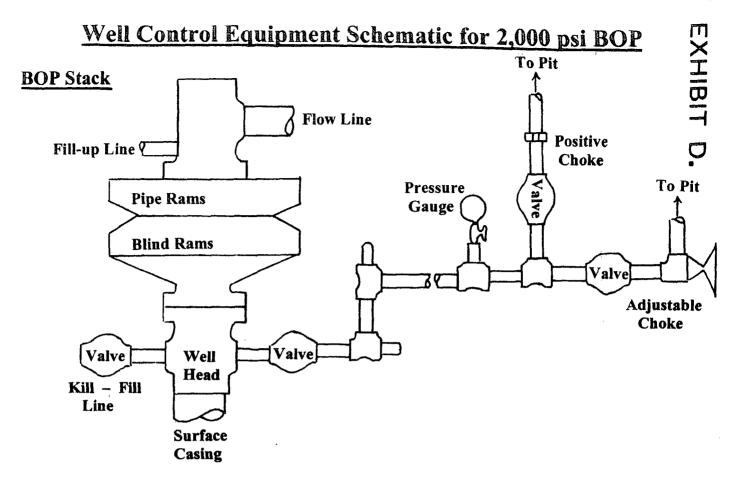
2" minimum choke line.

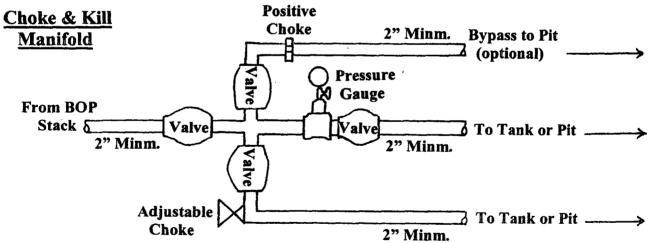
Fill-up line.

#### Contacts:

Dugan	Prod.Corp	o. Office	& Radio	Dispatch:	325-1821
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Mark	Brown	327-3632 320-8247	
Kurt	Fagrelius	325 <b>-</b> 4327 320-8248	
John	Alexander	325-6927 320-1935	





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

DUGAN PRODUCTION CORP.
PHOEBE COM #90