Form 3160-3 (April 2004) RECEIVE

FORM APPROVED OMB No. 1004-0137

UNITED STATES	_	2007	Evhires in	MICE 31, 201	11
DEPARTMENT OF THE	INTERIOR NOV 28		5. Lease Serial No. NM-36952	: 	
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	DRILL OR REENTER and Earnington	Field O	6 'If Indian, Allotee fice	or Tribe N	ame
la. Type of work: X DRILL REENT			1 If Unit or CA Agree	ement, Nar	ne and No.
ib. Type of Well: Oil Well X Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and V		
2 Name of Operator Dugan Production Corp.			9. API Well No. 30-045-	<u></u> 345	17
Ja. Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. (include area code) 505-325-1821		10. Field and Pool, or Exploratory Basin Fruitland Coal		
<ol> <li>Location of Well (Report Irration clearly and in accordance with at At surface 990' FNL &amp; 990' FWL, Lat.</li> </ol>	36.25998 N		11. Sec., T. R. M. or Bi		•
At proposed prod. zone Same as above, Long.  14. Distance in miles and direction from nearest town or post office.	107.96040 W		NMPM 12. County or Parish		13. State
Approx. 35-miles SE of Farmingto	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		San JUan		NM
(5. Distance from proposed* location to nearest 990 Feet property or lease line, ft. (Also to nearest drig, unit line, if any)	1760 28 Acres	•	Unit dedicated to this w 2-320.28 Acre		
<ol> <li>Distance from proposed location<sup>6</sup> to nearest well, drilling, completed, applied for, on this lesse, ft.</li> </ol>	19. Proposed Depth 1110 Feet		<b>IA Bond No.</b> File		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6591	22. Approximate date work will star ASAP	t*	23 Estimated duration 5-Days	ı	
	24. Attachments				
he following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be at	tached to this	s form:		
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5. Operator certific	ation specific info	s unless covered by an a	•	•
25. Signature Kurt Fagnelin	Name (Printed/Typed) Kurt Fagrel	ius		Date Nov. 2	28, 2007
ide Geologist					
Approved by (Signature) Manlie Cor	Name (Printed/Typed)			Date 5	17/0
Title AFM	Office	$\bigcirc$			· c
spilication approval does not warrant or certify that the applicant hold onduct operations thereon. Conditions of approval, if any, are attached.	s legal or equitable title to those right	s in the subj	ect lease which would en	title the ap	plicantto
title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a citates any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and w to any matter within its jurisdiction.	illfully to ma	ake to any department or	agency of	fthe United
*(Instructions on page 2)					

A water based gel-mud will be used to drill surface a nd production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal

will be completed from approximately 934' - 956'. The interval will be fracture stimulated. NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER **AUTHORIZATION REQUIRED FOR OPERATIONS** ON FEDERAL AND INDIAN LANDS

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

Oistrict I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Submit to Appropriate District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505 Energy, Minerals & Natural Resources Department District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 NOV 28 2007 AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICAPION TOLLA API Number 71629 30.045.3 BASIN FRUITLAND COAL Property Code Property Name Well Number FLO JO 93 OGRID No. Elevation \*Operator Name 006515 DUGAN PRODUCTION CORPORATION 6591 <sup>10</sup> Surface Location UL or lot no. County Section Township Lot Ide Feet from the North/South line Feet from the East/West line D 1 23N 11W 990 NORTH 990 WEST SAN JUAN 11 Bottom Different Hole Location If From Surface UL or lot no. Section North/South line est from the East/West line Churty 12 Dedicated Acres 33 Joint or Infill <sup>14</sup> Consolidation Code <sup>25</sup> Order No. (N/5)320.28 Acres -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 "OPERATOR CERTIFICATION 5245.68 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling arder heretofore entered by the division. 98 940 LOT LOT 1321 LOT LOT 3 4 Φ LAT: 36.25998 N LONG: 107.96040 W 990' DATUM: NAD1983 tigral 11/26/2007 Signature Date 9 Kurt Fagrelius 1316. 317 DUCIAN Printed Name 18 SURVEYOR CERTIFICATION NM-36952 I hereby certify 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 and correct to the best of my belief Survey Date: OCTOBER 24, 2007 Signature and Seal of Professional Surveyor SECH MEXICO WH MEXIC 8 2634.72 AND ESSION 2633. AN ENTH ARD 5384.281 Certificate Number 15269

Submit 3 Copies To Appropriate District Office District 1	State of New Mo Energy, Minerals and Natu		Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-045-
District II  1301 W. Grand Ave., Artesia, NM 88210  District III  1000 Rio Brazos Rd., Aztec, NM 87410	OIL CONSERVATION 1220 South St. Fran	ncis Dr.	5. Indicate Type of Lease Federal XX STATE FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	District IV 1220 S. St. Francis Dr., Santa Fe, NM		
		UG BACK TO A	7. Lease Name or Unit Agreement Name Flo Jo
PROPOSALS.)	Gas Well 🔽 Other		8. Well Number #93
	roduction Corp.		9. OGRID Number 006515
3. Address of Operator 709 East	: Murray Drive, Farmingto	n, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location			_
Om Detter	990 feet from the north	line and 99	Com Trian
Section 1	Township <sup>23N</sup> Ri 11. Elevation (Show whether DR	PVP PT CP atc.	NMPM County San Juan
Pit or Below-grade Tank Application 🗵 o	GL-6591'	, KKB, K1, GK, etc.)	
Pit type Drilling Depth to Groundwa	ter 100 Distance from nearest fresh w	ater well +1000 'Dista	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Con	struction Material Synthetic
12. Check A	ppropriate Box to Indicate N	ature of Notice, I	Report or Other Data
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	TENTION TO: PLUG AND ABANDON  CHANGE PLANS  MULTIPLE COMPL	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT	LING OPNS. P AND A
OTHER: Reserve pit for dr	illing (lined)	OTHER:	
13. Describe proposed or compl	eted operations. (Clearly state all	pertinent details, and	give pertinent dates, including estimated date ach wellbore diagram of proposed completion
See APD cover page	!.		
	•		
			-
I hereby certify that the information a	above is true and complete to the be	est of my knowledge	and belief. I further certify that any pit or below-
Modified only as per BLM	1 Conditions of Approval.	ce President,	
SIGNATURE <u>Aur//24/</u> Kurt Fagrelius		uganproduction.	
Type or print name	E-mail ad		Telephone No.
For State Use Only		eputy Oil &	Gas Inspector, ict #3 DATE MAY 1 2 2008
APPROVED BY: Conditions of Approval (if any):	TITLE_	DIST	DATE MAI I & ZOUG

---

# EXHIBIT B OPERATIONS PLAN

Flo Jo #93

## APPROXIMATE FORMATION TOPS:

Total Depth		1	1110'
Pictured Cliffs			960 <b>′</b>
Fruitland			610′
Kirtland	Less	than	100'
Ojo Alamo		Surf	ace

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#	1110'	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

1/4# celloflake/sx followed by 65 cf Class "B" with

1/4# 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.

Maximum Anticipated Bottom Hole Pressure - 300 psi.

**Drilling Fluid** - will be fresh water with bentonite (8.9#/gal).

## 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.

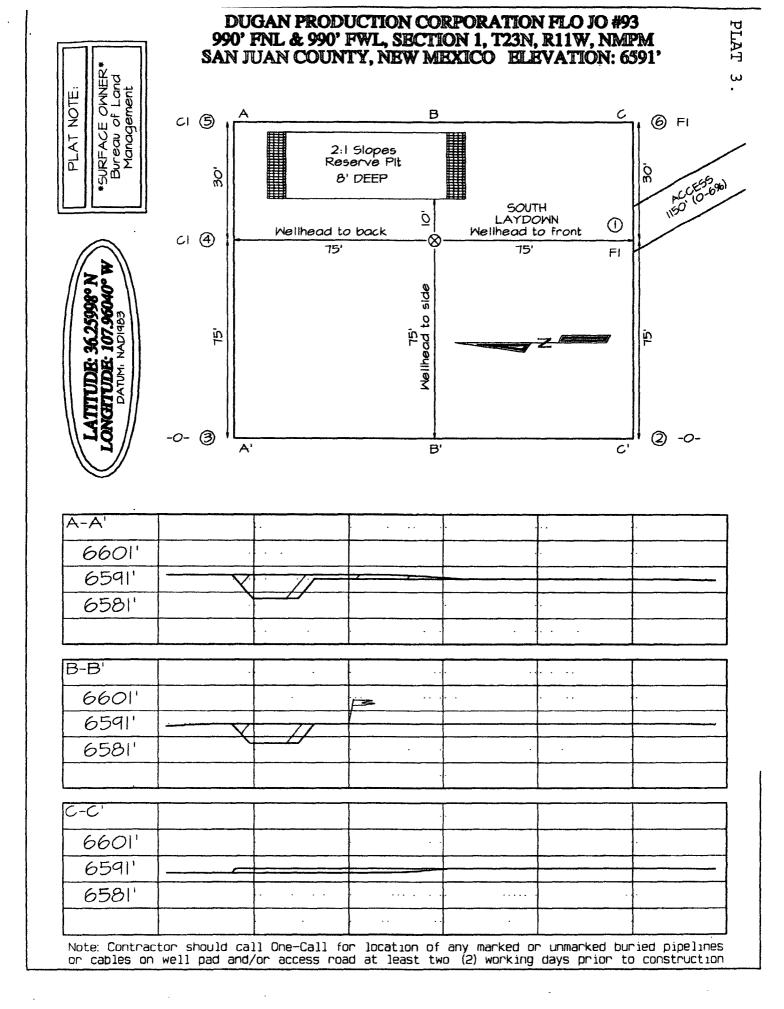
2" minimum choke line.

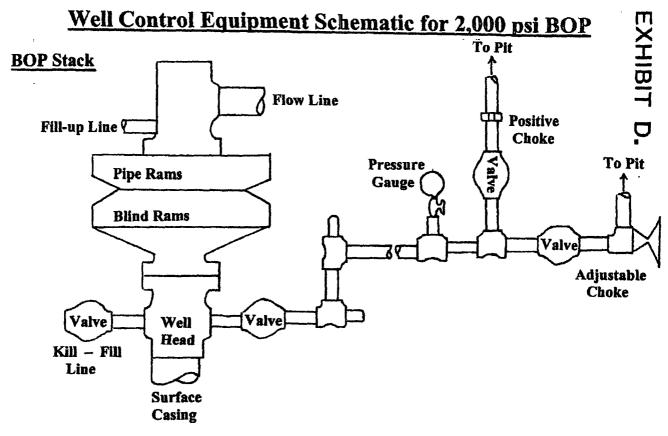
Fill-up line.

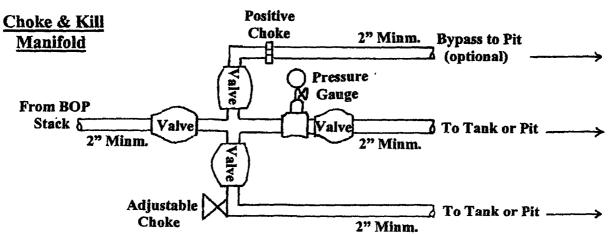
## Contacts:

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. Flo Jo #93