CVD APR 22 '09 IL CONS. DIV.

Form 3160-3 (April 2004)	DEC 06200	7	OMBN	APPROVED 0. 1004-0137 March 31, 2007	
UNITED STATES DEPARTMENT OF THE I	NTERIOR au of Land Mar AGEMENTamington Field	agemei Office	5. Lease Serial No.	36952	
APPLICATION FOR PERMIT TO			6. If Indian, Allotee	or Tribe Name	
la. Type of work: X DRILL REENTE	R		7 If Unit or CA Agr	eement, Name and I	Vo.
ib. Type of Well: Oil Well X Gas Well Other	X Single Zone Multi	ple Zone	8. Lease Name and Flo	<b>Well No.</b> Jo #95	
2. Name of Operator Dugan Production Corp.			9. API Well No. 30	-045-34	529
3a Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. (Include area code) 505-325-1821		10. Field and Pool, or Basin Fr	<b>Exploratory</b> ruitland Co	oal
4. Location of Well (Report Isration clearly and in accordance with any At surface 1550' FSL and 1800' FEL, Lat.	· · ·		11. Sec., T. R. M. or E Sec. 1, NMPM	Bik and Survey or A T23N, R111	
14. Distance in miles and direction from nearest town or post office* Approx. 35-miles SE of Farmington	on, New Mexico		12. County or Parish San Juan	13. State	
15. Distance from proposed* location to nearest 1550 Feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of acres in lease 1760 28 Acres	•••	g Unit dedicated to this 2 - 320.0 Ac		
18. Distance from proposed location* to nearest well, drilling, completed, Approx. 1000' applied for, on this lease, ft.	19. Proposed Depth 1015 Feet		MA Bond No. File		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6538	22. Approximate date work will star ASAP	ît <sup>û</sup>	23. Estimated duration 5-Days	•	
	24. Attachments				
The following, completed in accordance with the requirements of Oushord  1. Well plst certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).	4. Bond to cover if liem 20 above).  Lands, the 5. Operator certific	de operation ation specific info	s unless covered by an		
25. Signature Kurt Fagralius	Name (Printed/T);ped) Kurt Fagrel	ius		Date Dec. 4, 2	2007
Title Geologist					/
Approved by (Signature) Dillan Lee Co	Name (Printed Typed)			Date C/2C	5/09
Title AFM	Office \$ FA	-0			· · · /
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those right	s in the subj	ect lease which would e	ntitle the applicant to	3
Title 18 U.S.C. Section 1001 and Trite 43 U.S.C. Section 1212, make it a cri- States any false, fictitious or fraudulent statements or representations as to	me for any person knowingly and wo any matter within its jurisdiction.	illfully to me	ike to any department o	ragency of the Uni	ited

\*(Instructions on page 2)

# NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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 836' - 861'. The interval will be fracture stimulated.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

APR 2 4 2009



NMOCE

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

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

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

State of New Mexico

Pool Code

(S/2)

Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

APT Number

12 Dedicated Acres

OIL CONSERVATION DIVISION State Lease - 4 Copies Fee Lease - 3 Copies 1220 South St. Francis Dr.

District IV 1220 S. St. Francis Dr. Santa Fe. NM 87505

320.0 Acres -

Santa Fe, NM 87505 DEC 0 6 2007

4 Consolidation Code

AMENDED REPORT

Bureau of Land Management Farmington Field Office

Order No.

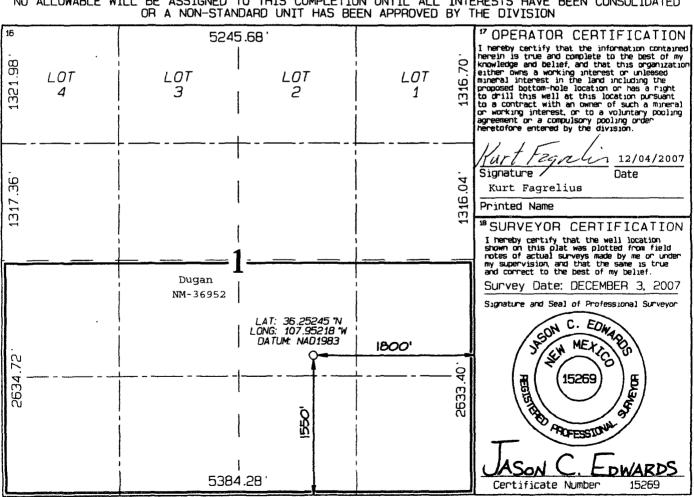
Pool Name

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30 DUE	5.34	125	<u> </u>	71629 BASIN FRUITLAND COAL						
*Property (	Code	Property Name Well Number								
368							ł			
I	OGRID No.       *Operator Name       *Elevation         006515       DUGAN PRODUCTION CORPORATION       6538*									
	<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feat from the	North/South line	Feet from the	East/Nest	lane County	$\neg$
J	1	23N	11W		1550	SOUTH	1800	EAST	Γ SAN JUA	AN
	<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no	Section	Townshap	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	$\neg$

## 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

13 Joint or Infill



# EXHIBIT B OPERATIONS PLAN

Flo Jo #95

#### APPROXIMATE FORMATION TOPS:

Total Depth		1015′
Pictured Cliffs		865 <b>′</b>
Fruitland		515 <b>′</b>
Kirtland	Less	than 80'
Ojo Alamo		Surface

Catch samples every 10 feet from 750 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
$\overline{12-1}/4"$	8-5/8"	24#	<u>12</u> 0'	J-55
7 <b>"</b>	5-1/2"	14#	1015 <b>′</b>	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:

<u>Surface</u>: 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

id# celloflake/sx followed by 65 cf Class "B" with
id# 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 <b>-</b> 4327 320-8248	٠,
John	Alexander	325 <b>-</b> 6927 320 <b>-</b> 1935	



Form 3160-5 (June 1990)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Farmington Field Office

MAY 0 9 2008

FORM APPROVED Budget Bureau No. 1004-0135

Expires March 31,1993

SUNDRY N	OTICES .	AND REP	ORTS ON	I WELLS
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Lease Designation and Serial No			
NM-36952			
6. If Indian, Allotted or Tribe Name			

SUNDRY NOTICES A	ND REPORTS ON WELLS	INIVI-30932
Do not use this form for proposals to	drill or to deepen or reentry to a different reservoir.	6. If Indian, Allotted or Tribe Name
Use "APPLICATION FOR	R PERMIT -" for such proposals	
SUBMIT IN	TRIPLICATE	
1 Type of Well		7 If Unit or CA, Agreement Designation
Oil Gas		,
Well X Well	Other	
2 Name of Operator		8. Well Name and No.
Dugan Production Corp.		Flo Jo #95
3 Address and Telephone No.		9 API Well No.
P.O. Box 420, Farmington, NM 87499 (	505) 325 - 1821	30 045
Location of Well (Footage, Sec., T , R., M., or Survey Description)		10. Field and Pool, or Exploratory Area
1550' FSL & 1800' FEL (NW/4 SE/4)		Basin Fruitland Coal
Unit J, Sec. 1, T23N, R11W, NMPM		11. County or Parish, State
		San Juan, NM
12. CHECK APPROPRIATE BOX(s) TO INDI	CATE NATURE OF NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	☐ Casing Repair ☐	Water Shut-Off
Final Abandonment Notice	☐ Altering Casing ☐	Conversion to Injection
	★ Other Additional APD info     ★ ■ Addit APD info     ★ ■ Additional APD info     ★ ■ Additional APD inf	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
Will test the BOPE and surface ca	OPE) tests will be performed <u>without</u> using a test sing together. The test will include a low pressu	re test to 250 psig
<u> </u>	essure test to 800 psig held for thirty minutes (w	
	duration of the tests). If a 10 percent or greater p	
a packer will be run to isolate the s	surface casing and BOPE to locate the source of	the leak.
		RCVD MAY 28 '08
		OIL CONS. DIV.
		DIST. 3
14. I hereby certify that the foregoing is true and correct		
Signed Kurt Fagn Kurt Fagrelius	Title Vice-President, Exploration Date	5/6/2008
(This space for Federal or State office use)		
Approved by Markt Prokage Conditions of approval, if any:	Title Engraceing Tech Date	5-27-08
•		

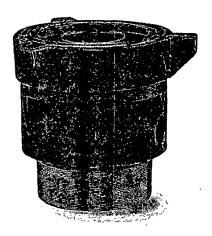
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

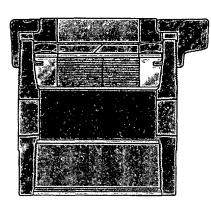
Dugan Production Corp. is asking for consent to pressure test the Blow-out Preventor Equipment (BOPE) without using a test plug because of the following reason:

Dugan uses a Gardner Denver 2000 drilling rig to drill shallow coal wells. The largest BOP that will fit under this rig is a Schafer 6" 2000 series that has an internal diameter of 7.0625". This BOP is screwed on to a Hercules LM85 casing head (1500 psi working pressure, 3000 psi test pressure, bottom thread 8-5/8" 8rd, cap thread 9-5/8" 8rd) that has an internal minimum bore of 7.920". The casing head is screwed onto 8-5/8" surface casing (24#, J-55 and 8rd thread) that has an internal diameter of 8.097".

Currently Dugan is unable to get a test plug for the casing head (7.920" ID) or surface casing (8.097" ID) that will pass through the BOP (7.0625").

Dugan will test the BOPE and surface casing together. The test will include a low pressure test to 250 psig held for five minutes and a high pressure test to 800 psig held for thirty minutes (with no more than a 10 percent pressure drop during the duration of the tests). If a 10 percent or greater pressure drop occurs, a packer will be run to isolate the surface casing and BOPE to locate the source of the leak.





#### Patented Positive Mechanical Stop Slip Design

- · Limits slip travel.
- Reduces hoop stress in wellhead body.
- Slip load capacity equals thread joint capacity.
- Will not crush pipe ID below API drift.
- Non-restrictive to side outlet flow.

#### **Contoured Packing Design**

· For improved seal.

#### Improved Top Metal Ring Design

· Prevents packing extrusion.

#### Interchangeable Parts

 All internal parts on 1500, 2000 & 3000 PSI WP LM85 models are interchangeable.

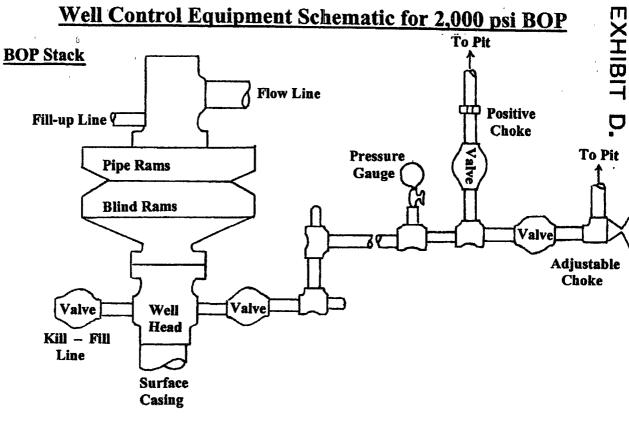
SPECIFICATIONS			
Bottom Thread	8-5/8" 8rd API*	8-5/8" 8rd API*	8-5/8" 8rd API*
Bottom Connection	Male Short or Fem. Short	Male Short, Fem. Short or Fem. Slip Joint	Fem. Short or Fem. Slip Joint
Working Pressure	1500 PSI	2000 PSI	3000 PSI
Test Pressure	3000 PSI	4000 PSI	6000 PSI
Max. Body Load (2:1 SF)	90,000 lbs.	180,000 lbs.	180,000 lbs.
Cap Thread	9-5/8" 8rd API mod.**	10-3/4" 8rd API mod.**	10-3/4" 8rd API mod.*
Cap Material	Ductile Iron	Ductile Iron	Carbon Steel
Inner String	2", 2-1/2", 3", 4-1/2", 5-1/2", 7"	2", 2-1/2", 3", 4-1/2", 5-1/2", 7"	2", 2-1/2", 3", 4-1/2", 5-1/2", 7"
Suspension	Slip or Mandrel	Slip or Mandrel	Slip or Mandrel
Side Outlet	2" LP	2" LP & 3" LP***	2" LP & 3" LP***
Minimum Bore	7.920"	7.920"	7.920"
Body Material	Ductile Iron	Carbon Steel	Carbon Steel
Height	12-1/2"	11-3/4"	11-3/4"
Weight	142 lbs.	200 lbs.	220 lbs.

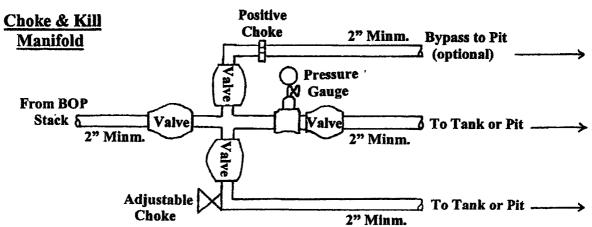
- \* Other thread styles available
- \*\* Caution: R&M Energy Systems recommends using only API modified threaded Hercules flanges. See pg. 22.
- \*\*\* 3" LP special order only. Contact Customer Service.



R&M Energy Systems P.O. Box 2871 Borger, Texas, U.S.A. 79008-2871 (800) 858-4158 (806) 274-5293 • Fax (806) 274-3418

R&M Energy Systems Canada 9830 - 45th Avenue Edmonton, Alberta, Canada T6E 5C5 (800) 661-5659 (780) 437-6316 • Fax (780) 435-3074





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

DUGAN PRODUCTION CORP. Flo Jo #95