

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FOKMA APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

2003 JAN 21 PM 5:20

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-078155
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: CBM <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator DUGAN PRODUCTION CORP.		7. If Unit or CA Agreement, Name and No.
Contact: KURT FAGRELIUS E-Mail: kfagrelus@duganproduction.com		8. Lease Name and Well No. JETER 5-S
3a. Address 709 EAST MURRAY DRIVE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.325.1821 Fx: 505.327.4613	9. API Well No. 30045 31361
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW 900FNL 900FWL 36.26580 N Lat, 108.11380 W Lon At proposed prod. zone		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
11. Sec., T., R., M., or Blk. and Survey or Area D Sec 35 T26N R13W Mer NMP		12. County or Parish SAN JUAN
13. State NM		14. Distance in miles and direction from nearest town or post office* APPROX. 10 MILES NW OF CARSON TRADING POST
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 900'	16. No. of Acres in Lease 1599.70	17. Spacing Unit dedicated to this well 320.00 N/2
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1,000'	19. Proposed Depth 1390 MD	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6231 GL	22. Approximate date work will start 06/01/2003	23. Estimated duration 7-DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Kurt Fagrelus</i>	Name (Printed/Typed) KURT FAGRELIUS	Date 01/13/2003
Title GEOLOGIST		
Approved by (Signature) <i>David J. Mankiewicz</i>	Name (Printed/Typed)	Date DEC 11 2003
Title Office		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

Additional Operator Remarks:

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 1216'-1264'. The interval will be fractured.

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

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.9  
and appeal pursuant to 43 CFR 3165.4

NMOCD

Form C-102  
Revised February 21, 1991  
Instructions on back  
Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

*Kurt Fagrelius*

Signature  
Kurt Fagrelius

Printed Name  
Geologist

Title  
01/15/2003


Date

18 SURVEYOR CERTIFICATION

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: DECEMBER 17, 2002

Signature and Seal of Professional Surveyor



*JASON C. EDWARDS*

Certificate Number 15269

**EXHIBIT B**  
**OPERATIONS PLAN**  
*Jeter #5-S*

**APPROXIMATE FORMATION TOPS:**

Ojo Alamo	85'	Pictured Cliffs	1264'
Kirtland	175'		
Fruitland	895'	<b>Total Depth</b>	<b>1390'</b>

Catch samples every 10 feet from 1200 feet to total depth.

**LOGGING PROGRAM:**

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

**CASING PROGRAM:**

<u>Hole</u> <u>Size</u>	<u>Casing</u> <u>Size</u>	<u>Wt./ft.</u>	<u>Setting</u> <u>Depth</u>	<u>Grade and</u> <u>Condition</u>
9-7/8"	7"	20#	120	J-55
6-1/4"	4-1/2"	10.5#	1,390	J-55

Plan to drill a 9-7/8" hole and set 120' of 7" OD, 20#, J-55 surface casing. Then plan to drill a 6-1/4" hole to total depth with gel-water mud program to test the Fruitland Coal. 4-1/2", 10.5#, 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  
1/4# celloflake/sx followed by 90 cf Class "B" with  
1/4# 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:**

Huber 7"x4-1/2" casing head, 1000# WP, tested to 2000#.

Huber 4-1/2"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 (H)

320-8247 (M)

Kurt Fagrelus 325-4327 (H)

320-8248 (M)

John Alexander 325-6927 (H)

320-1935 (M)