# **UNITED STATES**

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

DEPARTMENT OF 1	CHE INTERIOR		
BUREAU OF LAND	5. Lease Serial No. NM-36952		
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Nam	A CONTRACTOR OF THE PROPERTY O	
la. Type of Work: 🔯 DRILL 📋 REENTER	705 SEP 22 117 10 38	7. If Unit or CA Agreement, Name	and No.
Ib. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Otl	RECEIVED ner <b>⊠Giñgle Zohk</b> R M ∰Mu∏ippe Zohe (	8. Lease Name and Well No. F10 J0 #90-S	
	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045-3334.	5
3a. Address 709 EAST MURRAY DRIVE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.325.1821 Fx: 505.327.4613	10. Field and Pool, or Exploratory Basin Fruitland Coal	
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Sur	rvey or Area
At surface 1500' FSL & 1500' FEL, L At proposed prod. zone Same as above	at. 36.1324, Long. 107.5705	√ Sec. 13, T23N,	R11W
14. Distance in miles and direction from nearest town or post		12. County or Parish	13. State
Approx. 13 miles SW of Blanco		San Juan	NM
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)</li> </ol>	16. No. of Acres in Lease	17. Spacing Unit dedicated to this v	well
1500 Feet	1760.0 Acres	E/2-320 acres	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on tile	
Approx. 2500 Feet	800 Feet	On file	
21. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration	
GL-6434 Feet	ASAP	3-days	
	24. Attachments		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to the	is form:	•
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off	Item 20 above).  5. Operator certification	ns unless covered by an existing bond ormation and/or plans as may be requi	•
25. Signature / With Zanelun	Name (Printed/Typed) KURT FAGRELIUS	Date	9-21-00
Title GEOLOGIST			J
Approved by Signakhon	Name (Printed/Typed)	Date	122/6
Title AFM	Office FFO	·	
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject lea	se which would entitle the applicant to	o cenduct

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.

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 615'-645'. The interval will be fractured.

than is subject to technical and to a gural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4



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

Form C-102 Revised February 21, 1994 District I ' State of New Mexico PO Box 1980, Hobbs, NM 88241-1980 Energy, Minerals & Natural Resources Department Instructions on back Submit to Appropriate District Office PO Drawer DD. Artesia, NM 88211-0719 State Lease - 4 Cocies
Fee Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 2088 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe. NM 87504-2088 2005 SEP 22 RM 10 38 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 RECEIVED WELL LOCATION AND ACREAGE, DEDUCATION PLAT Pool Name 'API Number Pool Code BASIN FRUITLAND COAL *30-045-333*4 71629 Well Number Property Code Property Name 3090 FLO JO 905 OGRID No. \*Elevation \*Operator Name 006515 DUGAN PRODUCTION CORPORATION 6434 <sup>10</sup> Surface Location LL or lot no Range North/South line County Sect 1or Township Lot Idn Feet from the Feet from the East/West line SAN JUAN 13 **23N** 11W 1500 SOUTH 1500 EAST <sup>11</sup>Bottom Hole Location If Different From Surface Feet from the UL or lot no Section Township Feet from the North/South line East/West line County 13 Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No. 12 Dedicated Acres 320.0 Acres - (E/2) 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 16 OPERATOR CERTIFICATION **DUGAN** 5297.16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief NM-36952 Nur Signature Kurt Fagrelius Printed Name Geology Title Sept. 21, 2005 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. Date of Survey: JULY 18, 2005 Signature and Seal of Professional Surveyor SECH MEXICO MEXICO 1500 PESSIONAL PROFESSIONAL

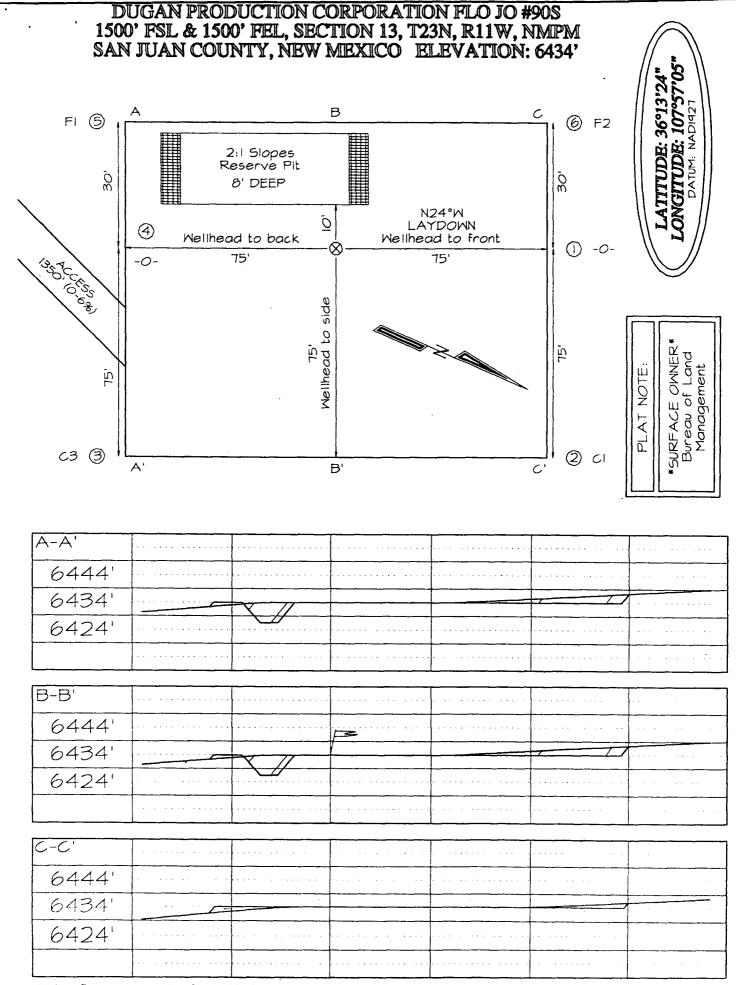
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Certificate Number

15269

5359.20

Office	Form C-103
District I Energy, Minerals and Natural Resour	ces March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	WELL API NO. 30-045-33345
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISIC	5. Indicate Type of Lease STATE FEEderal
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEEderal
District IV Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM	Federal NM-36952
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 DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	
PROPOSALS.) 1. Type of Well:	8. Well Number
Oil Well Gas Well XX Other	90-S
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 Fruitaland Coal
4. Well Location	
Unit Letter J: 1500 feet from the south line a	1500 east and feet from the line
Section 13 Township 23N Range 10W	NMPM County San Juan
11. Elevation (Show whether DR, RKB, RT, GL 6434	GR, etc.)
Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must b	e attached) > 100
Pit Location: UL J Sect 13 Twp 23N Rng 10W Pit type Drilling Depth to Groun	dwater Distance from nearest fresh water well 2200 !
Distance from nearest surface water \( \sum_{00} \) Below-grade Tank Location ULSect_	Two Rng :
feet from theline andfeet from theline	,
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Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

## EXHIBIT B OPERATIONS PLAN

Flo Jo #90-S

#### APPROXIMATE FORMATION TOPS:

Kirtland Surface Pictured Cliffs 645' Fruitland 275' **Total Depth** 800'

Catch samples every 10 feet from 550 feet to TD.

#### 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 <i>"</i>	5-1/2"	14#	800′	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 60 cf 2%Lodense with

%# celloflake/sx followed by 40 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 100 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.

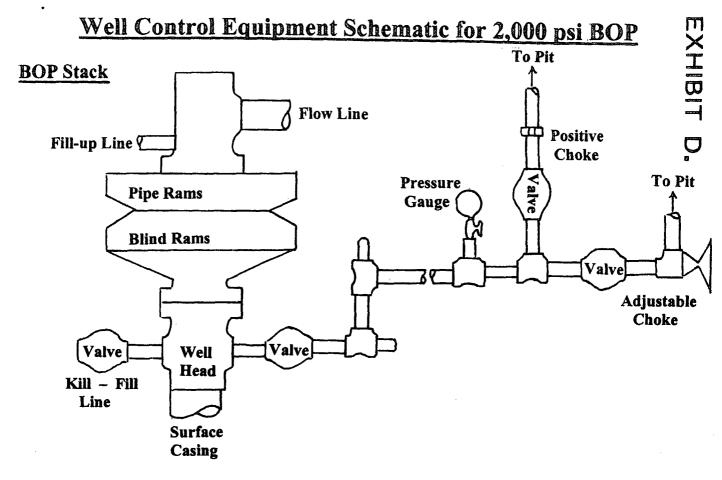
2" minimum choke line.

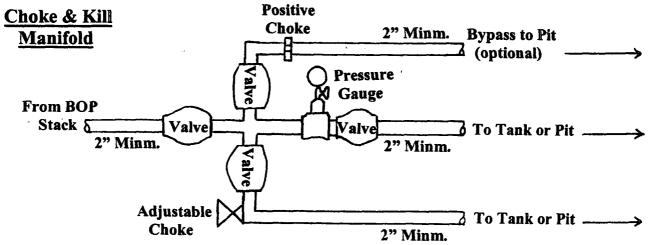
Fill-up line.

#### Contacts:

Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

Mark	Brown	327-3632 320-8247	٠, ,
Kurt	Fagrelius	325-4327 320-8248	
John	Alexander	325-6927	





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

DUGAN PRODUCTION CORP. FLO JO #90-S