Form 316()-3 (August 1999)

RECEIVED **UNITED STATES**

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

DEPARTMENT OF T	HE INTERIOR		
BUREAU OF LAND N	MANAGEMENT 201 470 - 5 PM 12: 24	5. Lease Serial No. NM-2337	
APPLICATION FOR PERMIT	TO DRILL OR REENTER 070 Franciscoton NM	6. If Indian, Allottee or Tribe N	ame
1a. Type of Work: 🗖 DRILL 🔲 REENTER	V. C S	7. If Unit or CA Agreement, Na	me and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well 🔀 Oth	er: CBM 🔀 Single Zone 🔲 Multiple Zone	8. Lease Name and Well No. CHACO 90	·
	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30045 3.	2273
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 Explorate BASIN FRUITLAND CO	DAL
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area
•	36.20430 N Lat, 107.43290 W Lon	Sec 6 T24N R8W Mer N	MP
At proposed prod. zone	GEP 2004	<u> </u>	
14. Distance in miles and direction from nearest town or post of APPROX. 30 MILES SOUTHEAST OF BLOOMI	FIELD, NM	12. County or Parish SAN JUAN	13. State NM
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1850' 	16. No. of Acres in Lease 962.11	/17. Spacing Unit dedicated to the 322.58	is well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROX. 3600'	19. Proposed Depth 2050 MD	20. BLM/BIA Bond No. on file	···-
21. Elevations (Show whether DF, KB, RT, GL, etc. 6707 GL	22. Approximate date work will start 05/14/2004	23. Estimated duration 7-DAYS	7- 14
	24. Attachments		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to the	nis 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). S. Operator certification	ns unless covered by an existing be	`
25. Signature Kurt Fzgrelin	Name (Printed/Typed) KURT FAGRELIUS		Pate 04/05/2004
Title GEOLOGIST			
Approved by Gignstales (Approved by Gignstales)	Name (Printed/Typed)	D	7-16-04
Title AFM	Office FFO		7
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 applica	int to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n States any false, fictitious or fraudulent statements or representat	nake it a crime for any person knowingly and willfully to	make to any department or agency	of the United

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 1885' - 1900'. The interval will be fractured.

NMOCD

District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

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

OIL CONSERVATION DIVISION PO Box 2088

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

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

Santa Fe, NM 87504-2088

AMENDED REPORT

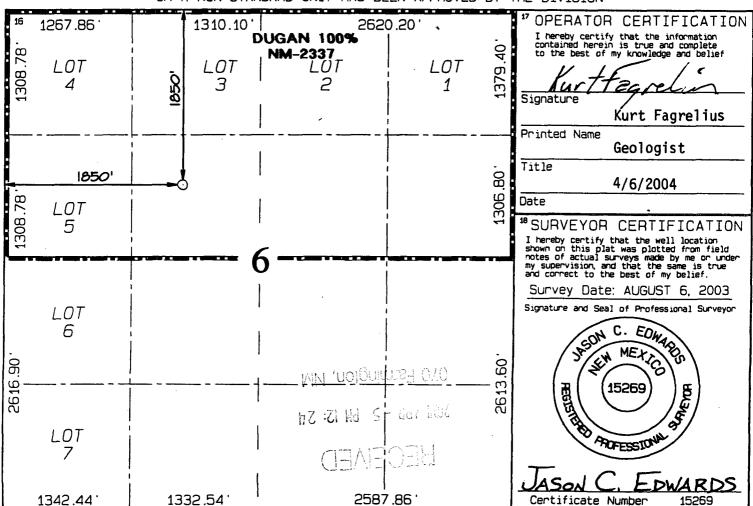
District IV PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEP 2004

	NUMBE 3	322 <i>73</i> *Pool Cod 71629			l l	PRODUCTION DE LA PRODUC				
Property					*Property CHA	y Maine	A Line of the last		We	11 Number 90
00651		*Operator Name DUGAN PRODUCTION CORPORATION						levation 6707		
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
F	6	24N	8W		1850	NORTH	1850	WES	ST	SAN JUAN
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Pange	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
¹² Dedicated Acres	322	.58 Acres	5 - (1)	1/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			

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



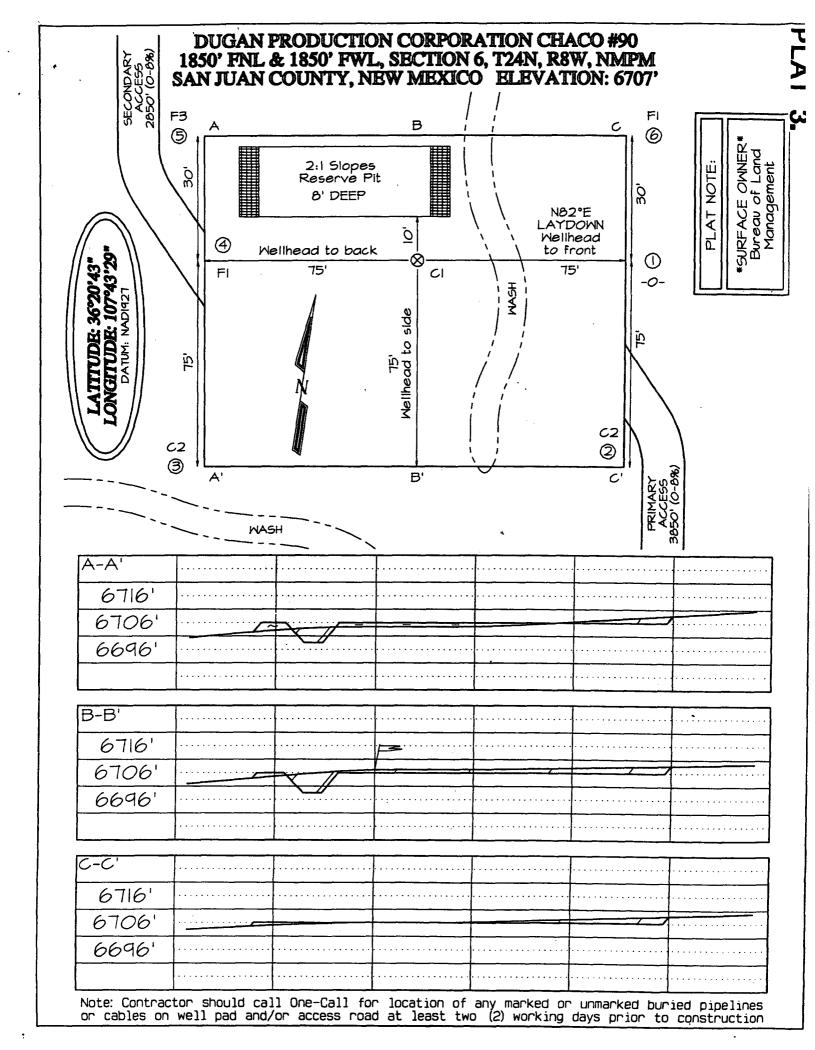


EXHIBIT B OPERATIONS PLAN

Chaco #90

APPROXIMATE FORMATION TOPS:

Total Depth	2050′
Pictured Cliffs	1902′
Fruitland	1550′
Kirtland	1290′
Ojo Alamo	1215′

Catch samples every 10 feet from 1800 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
9-7/8"	7"	20#	120'	J-55
6-1/4"	4-1/2"	10.5#	2050′	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% CaCl₂. Circulate to surface.

Production Stage-Cement with 210 cf 2%lodense with

celloflake/sx followed by 105 cf Class "B" with

¼# celloflake/sx.

Total cement slurry for production stage is 315 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.

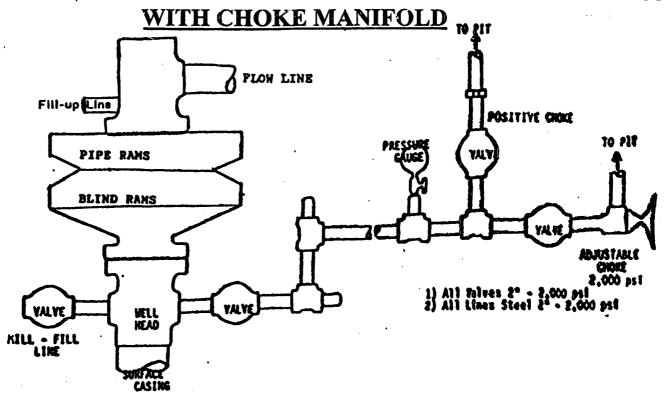
Fill-up line.

Contacts:

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

Mark	Brown	327-3632 320-8247	
Kurt	Fagrelius	325-4327 320-8248	
John	Alexander	325-6927 320-1935	

EXHIBIT D.



BOP DIAGRAM

BOP and Related Equipment will include for a 2000 pel system:

2000 PSI DOUBLE RAN BLOWOUT PREVENTER

Kill line (2" mimimum) 1 kill line valve (2" minimum)

1 choke line valve

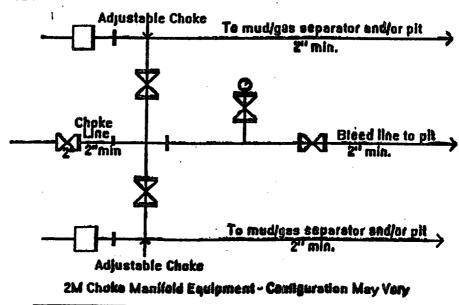
Upper kelly cock valve with handle available

Safety valve and subs to fit all drill string connections in use

Pressure gauge on choke namifold 2" minimum choke line

Fill-up list above the upperment preventer

BOP equipment will be tested as required in Section III A.1 of Onshore Order 2, plus a 30% safety factor.



Dugan Production Corp.

Chaco #90