DIST. 3

Form 3160-3 (April 2004) FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007 2008 JUN UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NM-12027 RECEIVED BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER FARMING TO IN Indian, Allotee or Tribe Name 7 If Unit or CA Agreement, Name and No. DRILL REENTER Type of work: 8. Lease Name and Well No. Chaco Plant #90-S Type of Well: Oil Well Gas Well Single Zone Multiple Zone lb. 9. API Well No. Name of Operator Dugan Production Corp. 30-045-33782 3a. Address 709 East Murray Drive, Farmington, NM 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Basin Fruitland Coal 87401 505-325-1821 Location of Well (Report Irration clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface 1285 FSL & 660 FEL, Lat. 36.48451 N. Long. 108.12810 W. Sec. 17, T26N, R12W NMPM At proposed prod. zone Same as above 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office\*
Approx. 25-miles south of Farmington, New Mexico San Juan NM 15. Distance from proposed\* 16. No. of acres in lease 17. Spacing Unit dedicated to this well location to nearest 660 Feet 320 property or lease line, ft. (Also to nearest drig. unit line, if any) E/2-320.0 Acres 18. Distance from proposed location\*
to nearest well, drilling, completed, Approx. 550'
applied for, on this lease, ft. 20. BLM/BIA Bond No. on file 19. Proposed Depth 1300 Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6000 22. Approximate date work will start\* 23. Estimated duration ASAP 6-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. Bond to cover the operations unless covered by an existing bond on file (see 2 A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer. Name (Printed/Typed) 25. Signature June 5, 2006 Kurt Fagrelius Geology Approved by (Signature) Name (Printed/Typed) Title Office Application approval does not warrant or certify that 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. \*(Instructions on page 2)

A water based gel-mud will be used to drill subface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal will be completed from approximately 1108' - 1126'. 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".

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

District I | PO Box 1980, Hobbs, NM 88241-1980

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

District III 1000 Rio Brazos Rd , Aztec, NM 87410

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

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

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

RCUD AUG 30'07

AMENDED REPORT
OIL CONS. DIV.

DIST. 3

## WELL LOCATION AND ACREAGE DEDICATION PLAT

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Property Code				Property					• We	11 Number	
36/7				CHACO PLANT					90S		
'OGRID N	No.		*Operator Name					*Elevation			
00651	เ5		DUGAN PRODUCTION CORPORATION			6000.					
<u> </u>					<sup>10</sup> Surface	Location					
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	t from the	East/We	est line	County
Р	17	26N	12W		1285	SOUTH		660	EΑ	ST	SAN JUAN
		11 =	ottom	Hole l	ocation I	f Dıfferent	Fro	m Surf	ace		<b>1</b> ,
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line		t from the		est line	County
12 Dedicated Acres		<u> </u>			13 Joint or Infill	<sup>14</sup> Consolidation Code	15 Order	· No	L		1
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Submit 3 Copies To Appropriate District Office District I  State of New Mexico Energy, Minerals and Natural Resources	Form C-103 May 27, 2004
1625 N French Dr , Hobbs, NM 88240	WELL API NO. 30-045- 33-38
District II 1301 W Giand Ave , Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease Federal XX
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd, Aztec, NM 87410	STATE FEE
District IV 1220 S St Francis Dr, Santa Fe, NM	6. State Oil & Gas Lease No.
87505 SUNDRY NOTICES AND REPORTS ON WELLS	Federal NM-12027  7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USÉ "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	Chaco Plant
PROPOSALS )   1. Type of Well: Oil Well   Gas Well   XX Other	8. Well Number 90-S
2. Name of Operator Dugan Production Corp.	9. OGRID Number 006515
3. Address of Operator	10. Pool name or Wildcat
709 East Murray Drive, Farmington, New Mexico 87401	Basin Fruitland Coal
4. Well Location Unit Letter P: 1285 feet from the south line and	660 feet from the east line
Section 17 Township 26N Range 12W	NMPM County San Juan
11. Elevation (Show whether DR, RKB, RT, GR, etc. GL - 6000'	
Pit or Below-grade Tank Application X or Closure	
Pit type Drilling Depth to Groundwater +100 Distance from nearest fresh water well +1000 Dis	tance from nearest surface water
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Co	Onstruction Material Synthetic
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMEDIAL WOR COMMENCE DR PULL OR ALTER CASING   MULTIPLE COMPL   CASING/CEMEN	ILLING OPNS. P AND A
OTHER: Reserve pit for drilling (lined) [X] OTHER:	
13. Describe proposed or completed operations. (Clearly state all pertinent details, an of starting any proposed work). SEE RULE 1103. For Multiple Completions: At or recompletion.	d give pertinent dates, including estimated date tach wellbore diagram of proposed completion
A water based gel-mud will be used to drill surface a Standard 2,000 psi BOP will be used to drill productivill be completed from approximately 1108' - 1126'. fracture stimulated.	on hole. The Fruitland Coal
	RCVD AUG 30 '07 OIL CONS. DIV. DIST. 3
I hereby certify that the information above is true and complete to the best of my knowledg grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE KUrt Francisco TITLE Geology	DATE June 5, 2006
Type or print name Kurt Fagrelius kfagrelius@duganproduction E-mail address:	505-325-1821 Telephone No.
For State Use Only  Deputy Oil & Gas	Inspector, SEP 0 4 2007
APPROVED BY: TITLE District # Conditions of Approval (if any):	23 DATE

# EXHIBIT B OPERATIONS PLAN

Chaco Plant #90-S

## APPROXIMATE FORMATION TOPS:

Ojo Alamo	Suriace		
Kirtland	124′	Pictured Cliffs	1140′
Fruitland	758 <i>′</i>	Total Depth	1300'

Catch samples every 10 feet from 1050 feet to 1300 feet.

## LOGGING PROGRAM:

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

#### CASING PROGRAM:

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Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
12-1/4"	<del>8-5/</del> 8"	24#	120'	J-55
7 <b>"</b>	5-1/2"	14#	1300′	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 120 cf 2%Lodense with %# celloflake/sx followed by 100 cf Class "B" with %# celloflake/sx.

Total cement slurry for production stage is 220 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.

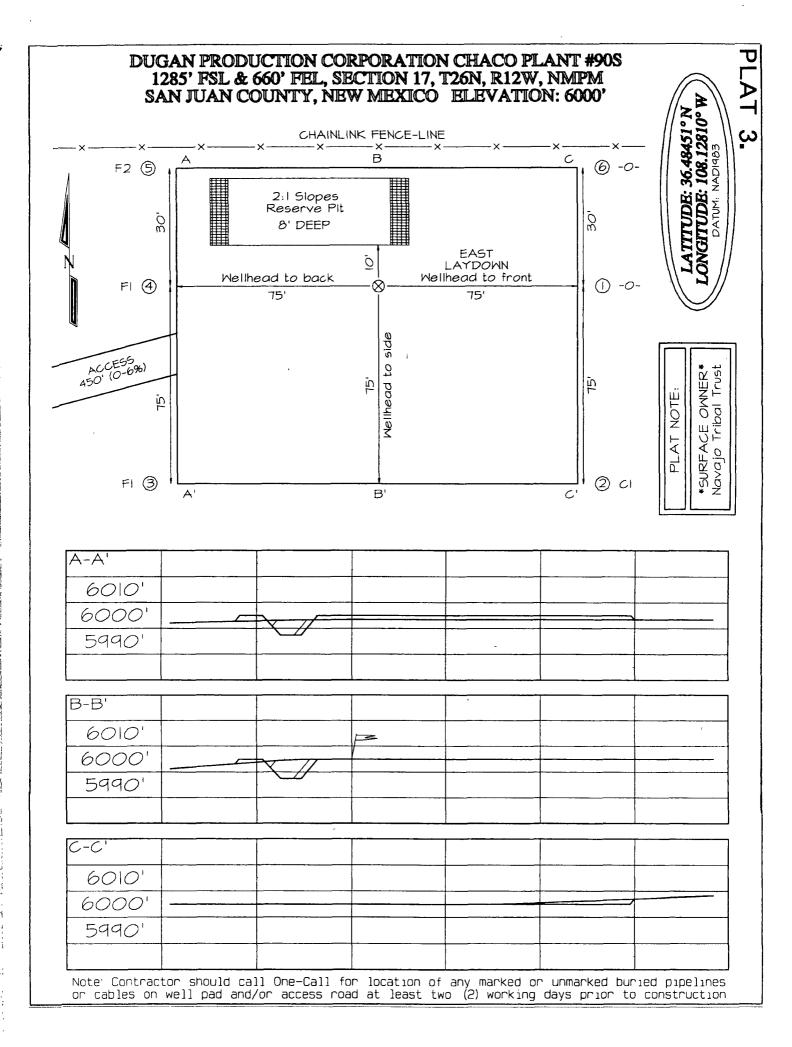
Fill-up line.

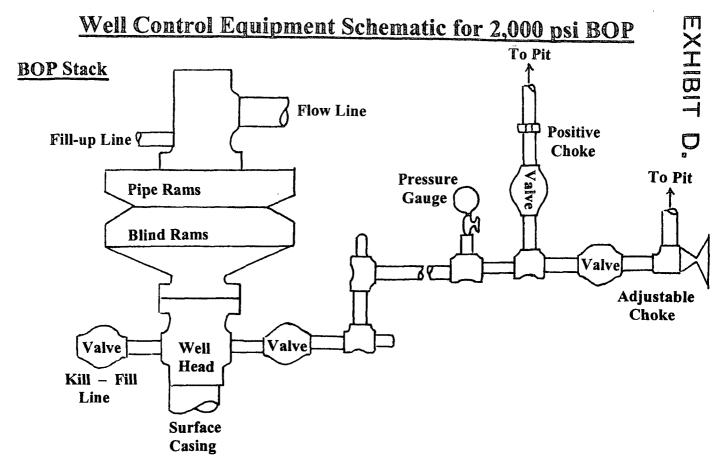
## Contacts:

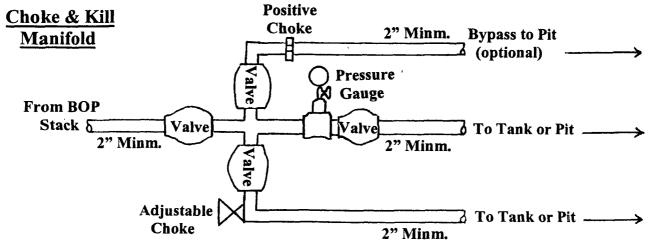
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Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

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. CHACO PLANT #90-S