FORM APPROVED OMB No. 1004-0136

UNITED ST		Expires Novem	oer 30, 2000
DEPARTMENT OF A BUREAU OF LAND	MANAGEMENT	5. Lease Serial No. NM-43442	
APPLICATION FOR PERMIT	TO DRILL OR REENTER 33	6. If Indian, Allottee or Trib	e Name
la. Type of Work: 🛭 DRILL 🔲 REENTER	RECEIVED	7. If Unit or CA Agreement	, Name and No.
. 1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Otl	OZO FARMINGTON III	8. Lease Name and Well No Biff #90).
2. Name of Operator Contact: DUGAN PRODUCTION CORP.	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045-3	3455
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 Explo Basin Fru	ratorv itland Coal
4. Location of Well (Report location clearly and in accordance	nce with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 1650' FSL and 1550' FWL At proposed prod. zone Same as above	, Lat. 36.1746, Long. 107.5520	Sec. 20, NMPM	T24N, R10W
14. Distance in miles and direction from nearest town or post. Approx. 8-miles SW of Blance	office* O Trading Post, NM	12. County or Parish San Juan	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated t	o this well
1550 Feet	1271.56 Acres	W/2-320.0	Acres
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on	file
Approx. 2800 Feet	1325 Feet	On File	
21. Elevations (Show whether DF, KB, RT, GL. etc. GL - 6603	22. Approximate date work will start ASAP	23. Estimated duration 5-Days	
	24. Attachments		
The following, completed in accordance with the requirements of	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	tem Lands, the icc). 4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific info authorized officer.	•	•
25. Signature Kurt Fagrelin	Name (Printed/Typed) KURT FAGRELIUS		Date 11/22/05
Title GEOLOGIST			
Approved by (Signature)	Name (Printed/Typed)		Date 3/3/3/
Title AFM	Office PTO	· · · · · · · · · · · · · · · · · · ·	,
Application approved 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 app	licant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r 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 age	ncy of the United

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 1125' - 1150'. The interval will be fracture will be completed from approximately 1125' -The interval will be fractured.

NMOCD

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

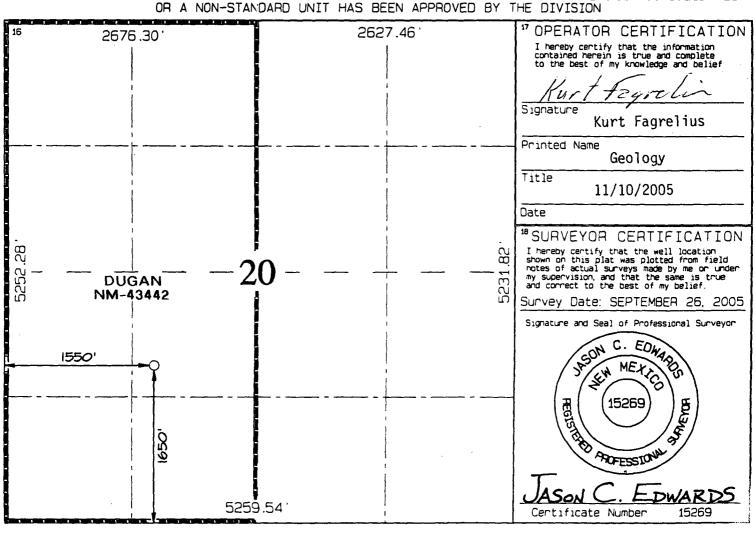
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

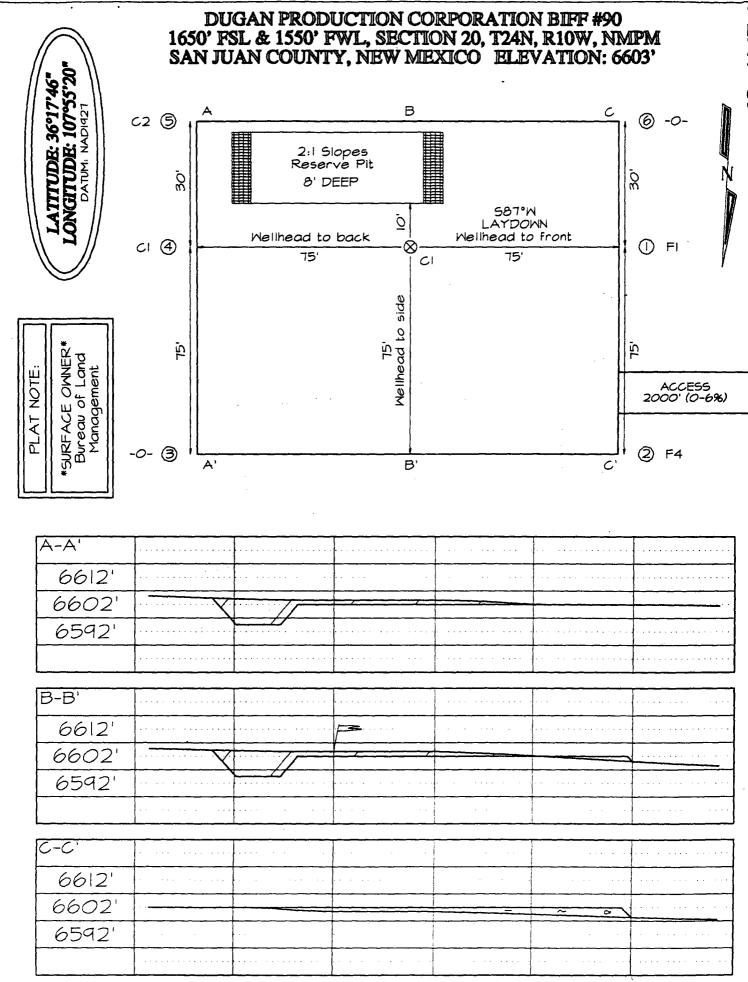
WELL LOCATION AND ACREAGE DEDICATION PLAT

	PI Numbe			*Pool Cod	ie	'Pool Name					
30.00	15-3	3453		71629		BASIN FRUITLAND COAL					
*Property	Code	Property Name					We	11 Numbe	۲		
3540	77	:	BIFF				-		90	-	
'OGRID N	NO.		*Operator Name					•E	levation		
00651	5 /		DUGAN PRODUCTION CORPORATION							6603)
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West	line	Cour	ity
K	20	24N	10W		1650	SOUTH	1550	WES	ST.	SAN	JUAN
¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	Coun	ity
				[
320.0 Acres - (W/2)				3 Joint or Infill	¹⁸ Consolidation Code	¹⁵ Onder No.	<u> </u>		•		
NO ALLOWARIE WILL BE ASSIGNED TO THIS COMPLETION LINITAL ALL INTERESTS HAVE BEEN CONSOLIDATED											

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Office	of New Mexico	Form C-103				
District I Energy, Minera 1625 N. French Dr., Hobbs, NM 88240	ls and Natural Resources	WELL API NO. 30-045- 320-2				
District II	RVATION DIVISION	5. Indicate Type of Lease Federal XX				
District III 1220 Sou	ith St. Francis Dr.	STATE FEE				
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Fe, NM 87505	6. State Oil & Gas Lease No. Federal NM-43442				
SUNDRY NOTICES AND REPORTS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO D	EEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name Biff				
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FOR PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other	JRM C-101) FOR SUCH	8. Well Number 90				
1. Type of Well: Oil Well Gas Well Other 2. Name of Operator Dugan Production Corp.		9. OGRID Number 006515				
3. Address of Operator 709 East Murray Driv		10. Pool name or Wildcat Basin Fruitland Coal				
4 Well Location		l ·				
Unit Letter : 1650 feet from the		feet from the line				
Section 20 Township	24N Range 10W whether DR, RKB, RT, GR, etc.)	NMPM County San Juan				
GL-6603 Pit or Below-grade Tank Application © or Closure □						
Pit type Drilling Depth to Groundwater + 100 Distance from	nearest fresh water well +1000 Dist	ance from nearest surface water 200'				
Pit Liner Thickness: 12 mil Below-Grade Tank:	Volume bbls; Co	nstruction Material Synthetic				
12. Check Appropriate Box to	Indicate Nature of Notice,	Report or Other Data				
NOTICE OF INTENTION TO:		SEQUENT REPORT OF:				
PERFORM REMEDIAL WORK PLUG AND ABANDO TEMPORARILY ABANDON CHANGE PLANS	ON REMEDIAL WOR					
PULL OR ALTER CASING MULTIPLE COMPL	CASING/CEMENT	LIOB				
OTHER: Reserve pit for drilling (lined) 🖂 OTHER:						
 Describe proposed or completed operations. (Clea of starting any proposed work). SEE RULE 1103. or recompletion. 						
A water based gel-mud will be						
Standard 2,000 psi BOP will be Coal will be completed from ap						
fractured.	proximatery 1125	1130 . The meet val will be				
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan.						
SIGNATURE Kurt Fzgrelin	TITLE Geology	DATE 11/10/05				
Kurt Fagrelius Type or print name	kfagrelius@duga E-mail address:					
For State Use Only	DEPUTY OIL & GAS INSI					
APPROVED BY: Conditions of Approval (if any):	_TITLE	DATE AR 1 3 2006				



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 Biff #90

APPROXIMATE FORMATION TOPS:

Total Depth	1325′
Pictured Cliffs	1150′
Fruitland	810′
Kirtland	395′
Ojo Alamo	300′

Catch samples every 10 feet from 1050 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#	1325 <i>'</i>	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 130 cf 2%lodense with

%# celloflake/sx followed by 70 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 200 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.

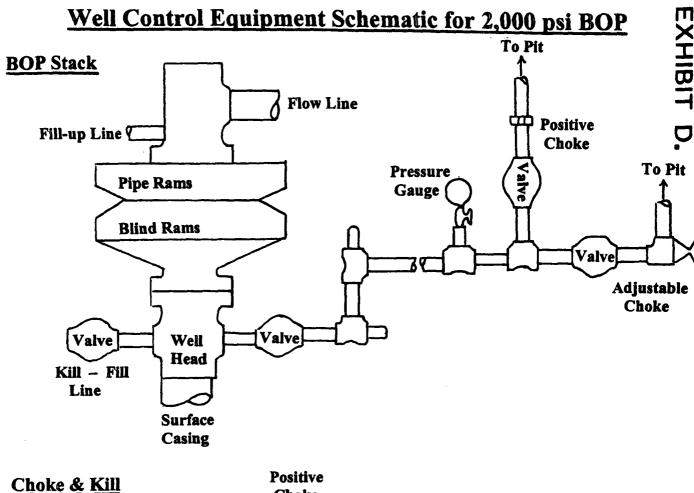
2" minimum choke line.

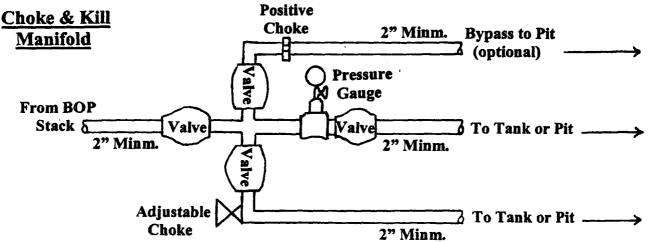
Fill-up line.

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	1 1





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

DUGAN PRODUCTION CORP.
Biff #90

Form 3160-5 (June 1990)

Conditions of approval, j

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31,1993

5. Lease Designation and Serial No.

NM 43442

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 PERMIT -" for such proposals SUBMIT IN TRIPLICATE 7. If Unit or CA, Agreement Designation 1. Type of Well 8. Well Name and No. 2. Name of Operator Biff #90 Dugan Production Corp. 3. Address and Telephone No. 9. API Well No. (505) 325 - 1821 30 045 P.O. Box 420, Farmington, NM 87499 Location of Well (Footage, Sec., T., R., M., or Survey Description) 10. Field and Pool, or Exploratory Area 1650' FSL & 1550' FWL (NE/4 SW/4) Basin Fruitland Coal Unit K, Sec. 20, T24N, R10W, NMPM 11. County or Parish, State San Juan, NM 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION **K** 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 Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) Casing program will be changed as follows: Setting Depth Hole Size Casing Size Wt./ft. FARMINGTON Surface casing 8-5/8" 24# 11" 120' Production casing 5-1/2" 14# 1325' All cement volumes will remain the same and be circulated to surface. 14. I hereby certify that the foregoing is true Geologist 12/13/2005 Signed Date Kurt Fagrelius (This space for Federal or State of Approved by

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