Form 3160-3 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RCVD DCT30'05 OIL CONS. DIV. DIST. 3

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

BUREAU OF LAND	NACANTA CENTE AND		
	MANAGEMENT &	5. Lease Serial No. NM-94	1067
APPLICATION FOR PERMI	TTO DRILL OR REENTER	6. If Indian, Allottee or Tribe N	lame
ia. Type of Work: 🛛 DRILL 🔲 REENTER		7. If Unit or CA Agreement, No	ame and No.
Ib. Type of Well: ☐ Oil Well  ☑ Gas Well ☐ □	Other ZONS Shighe Zone? (I) Multiple Zone	8. Lease Name and Well No. Ellington Com	#90-S
2. Name of Operator Conta DUGAN PRODUCTION CORP.	ct: KURT FAGRELIUS E-Mail: kfagrellus@duganpԹգագիցութջոր- ը	9. API Well No. 30-045-3387	70
3a. Address 709 EAST MURRAY DRIVE FARMINGTON, NM 87401	3b. Phone No. (inchude area code) GTON 1111 Ph: 505.325.1821 Fx: 505.327.4613	10. Field and Pool, or Explorate Basin Fruitlar	orv
4. Location of Well (Report location clearly and in account	dance with any State requirements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area
At surface 1320' FSL & 790' FEL, At proposed prod. zone Same as above		P Sec. 26, T22N	, R8W
14. Distance in miles and direction from nearest town or po Approx. 70-miles SE of Farm	stoffice* ington, New Mexico 87401	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 to the	
790 Feet	960.0 Acres	E/2-320.0 Acre	
<ol> <li>Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft.</li> <li>Approx. 3000 Feet</li> </ol>	g, 19. Proposed Depth 940 Feet	20. BLM/BIA Bond No. on tile On File	
21. Elevations (Show whether DF, KB, RT, GL, etc. GL - 6709	22. Approximate date work will start ASAP	23. Estimated duration 5-Days	
	24. Attachments		
ne following, completed in accordance with the requirement	s of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service	4. Bond to cover the operation Item 20 above).  5. Operator certification	ons unless covered by an existing b	•
25. Signature Kurt Fagrelis	Name (Printed/Typed) KURT FAGRELIUS		<sup>Date</sup> 7/26/2006
Title GEOLOGIST		·	
Approved by (Signarure)	Name (Printed/Typed)	i	Date 27/06
Title AFM	Office		
pplication approval does not warrant or certify the applicant	holds legal or equitable title to those rights in the subject le	ase which would entitle the applica	ant to conduct

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 775' - 790'. The interval will be fracture stimulated.



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

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

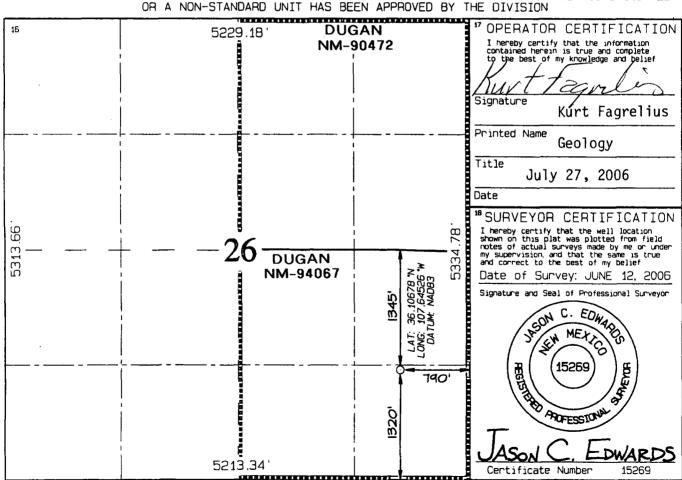
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

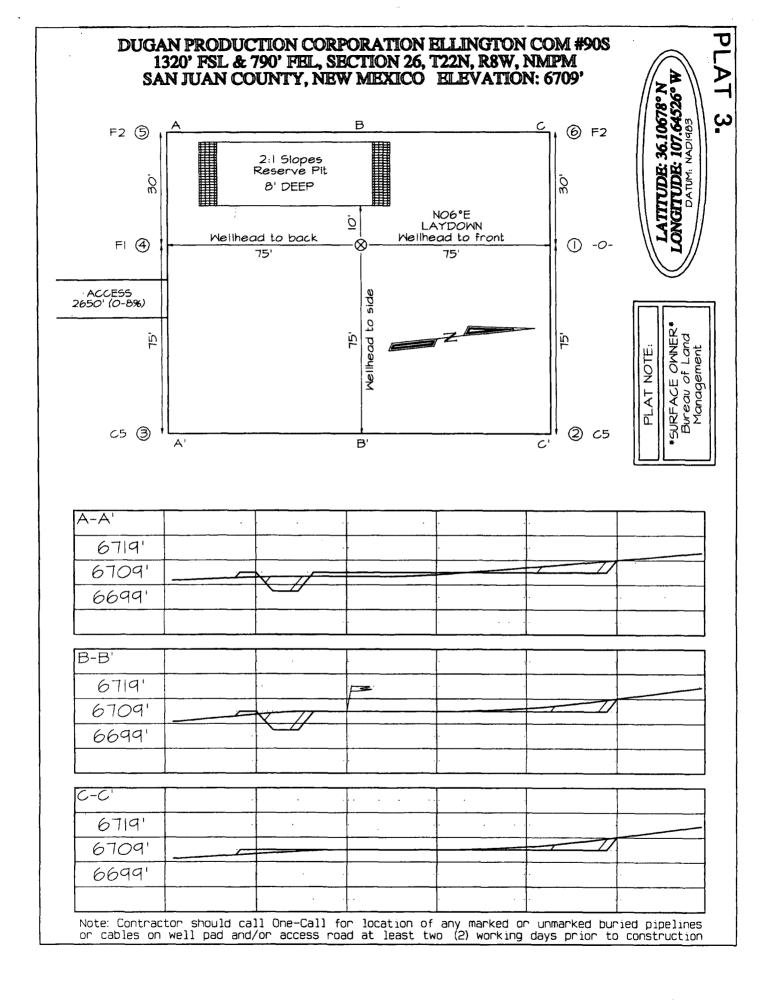
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045	PI Number			*Pool Coo 71629	-	Pool Name BASIN FRUITLAND COA			Δ1	
Property		Property Name						ell Number		
36111			ELLINGTON COM				90S			
OGRID N	1	J. J	*Operator Name *Elevation DUGAN PRODUCTION CORPORATION . 6709							
	<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
Р	26	55N	8W		1320	SOUTH	790	EA	ST	SAN JUAN
<sup>11</sup> 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/We	st line	County
12 Dedicated Acres		.0 Acres	- (E/	/2)	<sup>19</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>25</sup> Onder No.			<u></u>

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



Submit 3 Copies To Appropriate District Office District I		New Mexico and Natural Reso	urces	Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API	NO. 30-045-33810
1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 Sout	VATION DIVISI h St. Francis Dr.	5. Indicate STAT	Type of Lease Federal XX
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa F	e, NM 87505	1	& Gas Lease No. a 1 NM-94067
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPE		EPEN OR PLUG BACK T	ma I	me or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPL PROPOSALS.)  1. Type of Well: Oil Well	Gas Well X Other	CM C-101) FOR SUCH	8. Well Nur	
0 )	an Production Cor	·p.	9. OGRID N	
3 Address of Operator	ast Murray Drive,			ne or Wildcat n Fruitland Coal
4. Well Location	1000 5 5		. 700	
Unit Letter P Section 26	: 1320 feet from the Township		e and <u>790</u> fe W NMPM	et from the <u>east</u> line County San Juan
Section 20	11. Elevation (Show w			County San Guar
Pit or Below-grade Tank Application M Pit typeDrilling Depth to Ground			-10004.	+200'
Pit Liner Thickness: 12 mi			_bbls; Construction Mater	SUNTRATIA
12. Check	Appropriate Box to In			
NOTICE OF II PERFORM REMEDIAL WORK  TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS	COMME	SUBSEQUENT IAL WORK INCE DRILLING OPNS. S/CEMENT JOB	☐ ALTERING CASING ☐
OTHER:Reserve pit for	drilling (lined)	XX OTHER	:	
13. Describe proposed or com	pleted operations. (Clearl	y state all pertinent of For Multiple Comple	letails, and give pertinent tions: Attach wellbore	t dates, including estimated date diagram of proposed completion
A water based gel-m Standard 2,000 psi will be completed f stimulated.	BOP will be used	to drill prod	duction hole. T	he Fruitland Coal
I hereby certify that the information grade tank has been/will be constructed of	n above is true and comple or closed according to NMOCD	ete to the best of my loguidelines 12, a general	knowledge and belief. I	further certify that any pit or below- alternative OCD-approved plan
SIGNATURE KUT FAG	graln relius k	TITLE Geology fagrelius@duga	anproduction.com	DATE 7/26/2006 505-325-1821
Type or print name For State Use Only	$\bigcirc$ 1	E-mail address:		Telephone No.
APPROVED BY:  Conditions of Approval (if any):	the	TITLE TITLE	& GAS INSPECTOR, DI	OCT 3 0 2006



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### EXHIBIT B OPERATIONS PLAN

Ellington Com #90-S

#### APPROXIMATE FORMATION TOPS:

Ojo Alamo	55 <i>'</i>	Pictured Cliffs	790′
Kirtland	140′		
Fruitland	490′	Total Depth	940′

Catch samples every 10 feet from 650 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
12-1/4"	<del>8-5/</del> 8"	24#	120'	J-55
7"	5-1/2"	14#	940′	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 100 cf 2%Lodense with

%# celloflake/sx followed by 55 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 155 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.

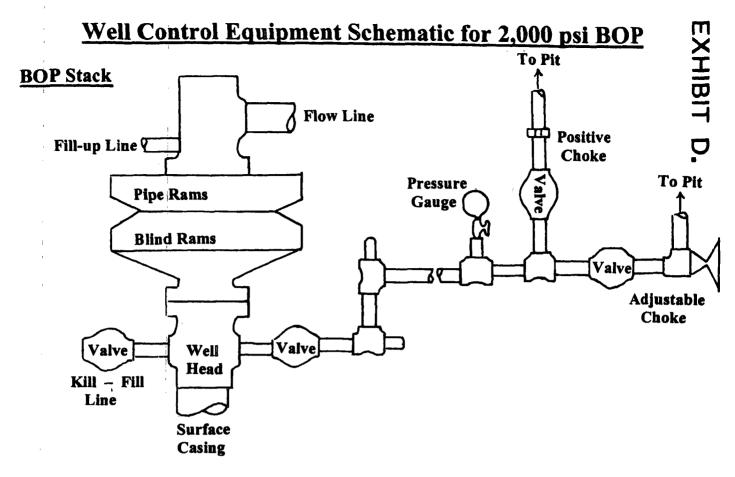
2" minimum choke line.

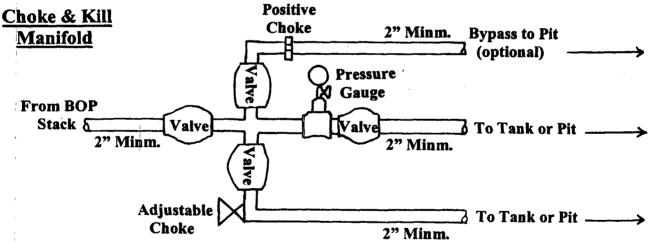
Fill-up line.

#### Contacts:

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

Mark	Brown	327-3632 320-8247	
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. ELLINGTON COM #90-S