FORM APPROVED

(August 1999)	UNITED ST			OMB No. 1004 Expires November	-0136 30, 2000
	DEPARTMENT OF ' BUREAU OF LAND			5. Lease Serial No. NM-43442	
	APPLICATION FOR PERMIT	TO DRILL OR RE	EENTER	6. If Indian, Allottee or Tribe N	lame
la. Type of Work:		M 10 31		7. If Unit or CA Agreement, N	ame and No.
lb. Type of Well:	RECEIV	ED her Sing	gle Zone 🔲 Multiple Zone	8. Lease Name and Well No. ZOE #90-S	
2. Name of Opera DUGAN PR	tor Contact: ODUCTION CORP.	KURT FAGRELIUS E-Mail: kfagrelius@duga		9. API Well No. 30-045-334	
3a. Address 709 EAST MU FARMINGTO	JRRAY DRIVE N, NM 87401	3b. Phone No. (inclu- Ph: 505.325.182 Fx: 505.327.4613	1	10. Field and Pool, or Explorate Basin Fruitla	nd Coal
4. Location of Wo	ll (Report location clearly and in accorda	ince with any State requi	irements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area
At surface 6	60' FNL and 1600' FWL, orod zone Same as above	Lat. 36.1815	5, Long. 107.5623	∠ Sec. 19, T24N NMPM	, R10W
14. Distance in m Appro	iles and direction from neares from or post X. 8-miles SW of Blanco	office* Trading Pos	t, NM	12. County or Parish San Juan	13. State NM
	proposed location to nearest property or	16. No. of Acres in L	case	17. Spacing Unit dedicated to this well	
	lease line, ft. (Also to nearest drig. unit line, if any) 660 Feet		Acres :	W/2 311.56 Acres	
18. Distance from	proposed location to nearest well, drilling, plied for, on this lease, ft.	19. Proposed Depth		20. BLM/BIA Bond No. on tile	
	x. 2700 Feet	1270 Fee	et :	On File	
21. Elevations (St GL-65	11. Elevations (Show whether DF, KB, RT, GL. etc. 22. Approximate date work will start AS AP			23. Estimated duration 5-Days	
		24. Att	achments		
The following, comp	pleted in accordance with the requirements of	f Onshore Oil and Gas C	Order No. 1, shall be attached to the	nis form:	· · · · · · · · · · · · · · · · · · ·
 A Drilling Plan. A Surface Use Pl 	I by a registered surveyor. an (if the location is on National Forest Syst filed with the appropriate Forest Service Of	em Lands, the fice).	Item 20 above). 5. Operator certification	ns unless covered by an existing be	
25. Signature	rt Fagrelin	Name (Printed/Typed) KURT FAGREL) IUS	E	Date 11/22/05
Title GEOLOGIS	г /			· 	
Approved by (Sign	Manker of	Name (Printed/Typed))	Ę	Date /3/06
Title /	ATM	Office FF	5		
operations thereon.	dees not warrant or certify the applicant he	olds legal or equitable titl	le 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, 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 1075' - 1100'. The interval will be fractured.

This action is subject to technical and procedural review pursuant to 43 CF/R 3165. and appeal pursuant to 43 CFR 3165.4

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

NMOCD

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

District II PO Drawer DD. Antesia, NM 88211-0719

District III 1000 Rio Brazos Ad., 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

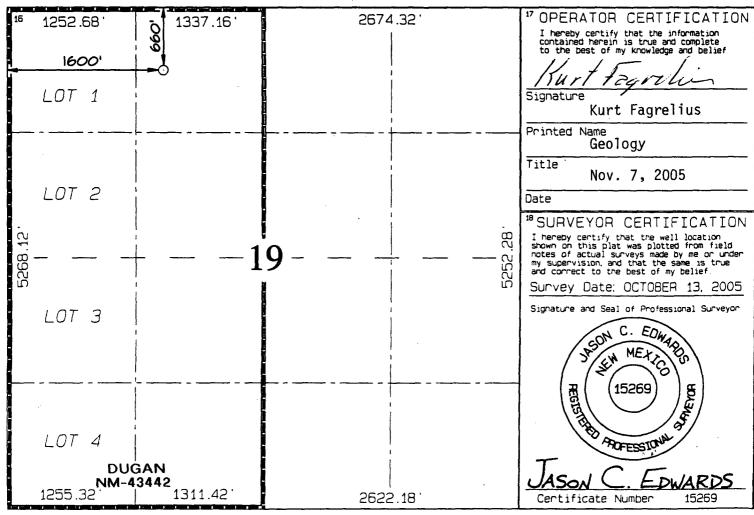
State Lease - 4 Copies Fee Lease - 3 Copies

___ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-6	45-	15-33451 7162			i	ВА	SIN FRUITL			
Property 3540		³ Property Name ZOE							Well Number 905	V .
00651			*Operator Name DUGAN PRODUCTION CORPORATION					*Elevation 6536'		
¹⁰ Surface Location										
UL or lot no.	Section	Township	Pange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	7
С	19	24N	10W		660	NORTH	1600	WEST	SAN JUA	IN P
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County	
		L								
12 Dedicated Acres		1.56 ACF	RES - 1	W/2	¹⁹ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		e.	

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	State of New Me	exico	Form C-103
Office District I	Energy, Minerals and Natu	ral Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	OH CONGERNATION	, DITTIGUES I	WELL API NO. 30-045-3345-1
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease Federa 1 XX
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87	7303	5. State Oil & Gas Lease No.
87505			Federal NM-43442
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLIC	CES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT" (FORM C-101) FO	UG BACK TO A	7. Lease Name or Unit Agreement Name Zoe
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🔥 Other		3. Well Number 90-S
2 Name of Operator	Production Corp.	Ş	O. OGRID Number 006515
3. Address of Operator 709 Ea	st Murray Drive, Farmi	ngton, NM	O. Pool name or Wildcat Basin Fruitland Coal
4. Well Location	660	160	0
Unit Letter C:	660 feet from the north	line and 160	feet from the West line
Section 19	Township 24N Ra	ange 10W 1	NMPM County San Juan
	11. Elevation (Show whether DR, GL-6536	RKB, RT, GR, etc.)	
Pit or Below-grade Tank Application 🕱 o			
Pit type_DrillingDepth to Groundw		vater well +1000 Distant	ce from nearest surface water 200 '
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		ruction Material Synthetic
12 Check A	Appropriate Box to Indicate N	ature of Notice Re	enort or Other Data
	• •		•
NOTICE OF IN PERFORM REMEDIAL WORK	TENTION TO: PLUG AND ABANDON □		EQUENT REPORT OF:
TEMPORARILY ABANDON	CHANGE PLANS	REMEDIAL WORK COMMENCE DRILL	☐ ALTERING CASING ☐ ING OPNS.☐ P AND A ☐
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT J	
Reserve nit for	dŕilling (lined)X		_
O II I E I		OTHER:	ive pertinent dates, including estimated date
			the pertinent dates, including estimated date the wellbore diagram of proposed completion
or recompletion.	•	. *	3 · · · · · · · · · · · · · · · · · · ·
			and production casing hole.
Standard 2,000 p	ist BOP will be used to	drill product	ion hole. The Fruitland
fractured.	preted from approximat	ely 10/5 -110	O'. The interval will be
rractured.			
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the be closed according to NMOCD guidelines (est of my knowledge a	nd belief. I further certify that any pit or below-
SIGNATURE /SUNT FOR	grelin TITLE	Geology	DATE Nov. 7, 2005
Kurt Fagreli		grelius@duganp	roduction.com
Type or print name For State Use Only	E-mail ad		Telephone No.325-1821
APPROVED BY:	TITLE	UTY OIL & GAS INSP	ECTOR, DIST. (B) DATE MAR 1 3 2006
Conditions of Approval (if any):		<u> </u>	

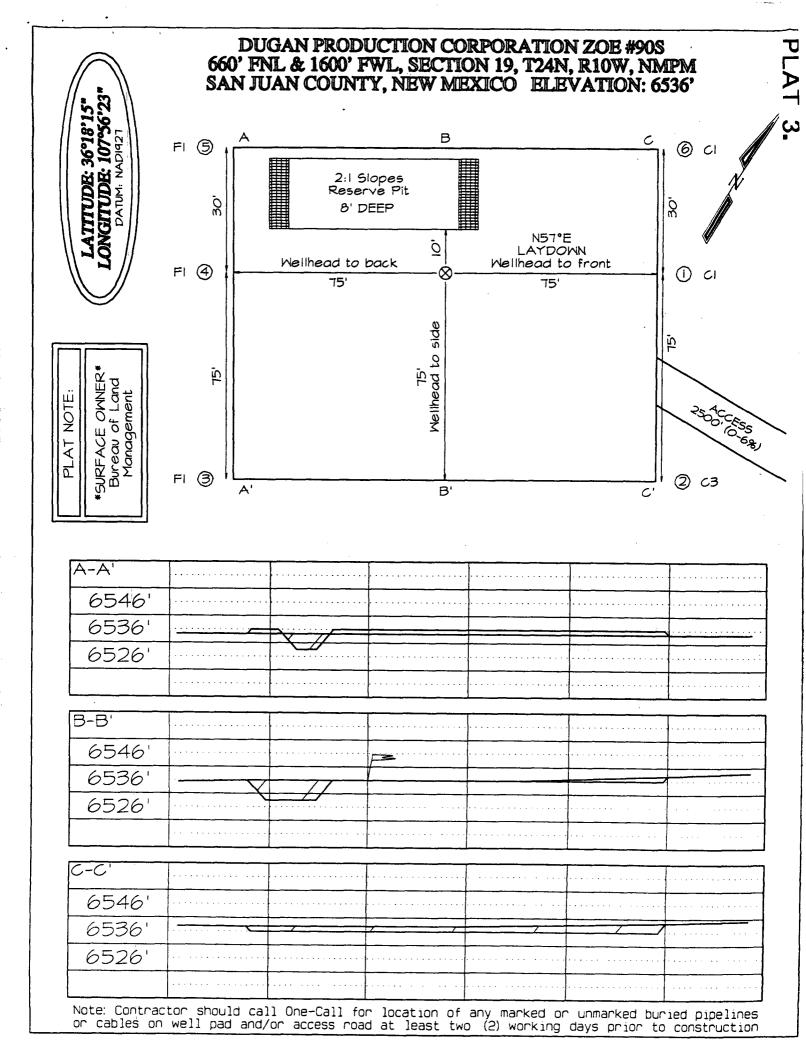


EXHIBIT B OPERATIONS PLAN

Zoe #90-S

APPROXIMATE FORMATION TOPS:

Total Depth	1270′
Pictured Cliffs	1100′
Fruitland	760′
Kirtland	340′
Ojo Alamo	250′

Catch samples every 10 feet from 1000 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#	1270′	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 125 cf 2%lodense with

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

%# celloflake/sx.

Total cement slurry for production stage is 195 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.

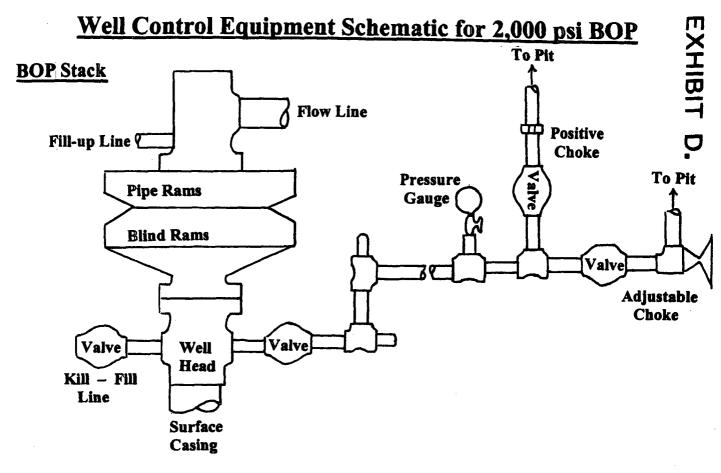
2" minimum choke line.

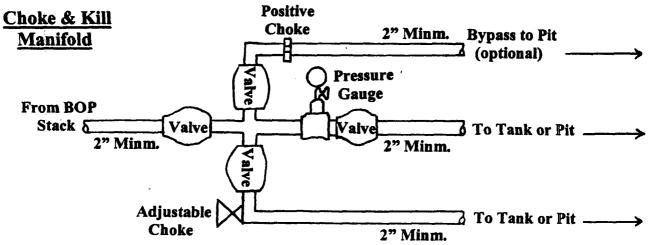
Fill-up line.

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	





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

DUGAN PRODUCTION CORP. Zoe #90-S Form 3160-5 (June 1990)

Signed

Approved by

(This space for Federal or State of

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31,1993

5. Lease Designation and Serial No.

M 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 1. Type of Well 7. If Unit or CA, Agreement Designation Wall Wall 2. Name of Operator 8. Well Name and No. Zoe #90S 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 660' FNL & 1600' FWL (NE/4 NW/4) **Basin Fruitland Coal** Unit C, Sec. 19, 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 ∇ Notice of Intent Abandonment \mathbf{x} Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Water Shut-Off Casing Repair 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 ARM 120' 1270' N Hole Size Casing Size Wt./ft. Surface casing 8-5/8" 24# Production casing 5-1/2" 14# All cement volumes will remain the same and be circulated to surface.

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.

Kurt Fagrelius



12/13/2005

Geologist

Date