FORM APPROVED OMB No. 1664-0136 Expires November 30, 2600

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMENT OF				The state of the s				
	BUREAU OF LAND	5. Lease Serial No. NM-36952							
	APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name							
	ia. Type of Work: 🛛 DRILL 🔲 REENTER	1,400 CC 17.00	10.29	7. If Unit or CA Agreement, Name and No.					
	. 1b. Type of Well: ☐ Oil Well ☐ O	RECEIVE Q70 FARMING ther Single Zone		8. Lease Name and Well No. Flo Jo #91-S	3684				
	Name of Operator Contact DUGAN PRODUCTION CORP. 6515	: KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com		9. API Well No. 30-045-333	a7				
	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 Explora Basin Fruitle	and Coal 116				
	4. Location of Well (Report location clearly and in accord	unce with any State requirements.*)		11. Sec., T., R., M., or Blk. an	d Survey or Area				
	At surface 1650' FNL & 1300' FWL, At proposed prod. zone Same as above	Lat. 36.1345, Long. 10	7.5735	€ Sec. 13, T231	N, R11W				
	14. Distance in miles and direction from nearest town or post			12. County or Parish	13. State				
	Approximately 13 miles SW of		NM	San Juan	NM 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 this well					
	1300 Feet 18. Distance from proposed location to nearest well, drilling,	1760.0 Acres		W/2-320 acres 20. BLM/BIA Bond No. on tile					
_	completed, applied for, on this lease, ft. Approx. 2100 Feet	725 Feet	,	On file					
•	21. Elevations (Show whether DF, KB, RT, GL, etc. GL-6331 Feet	22. Approximate date work will start ASAP		23. Estimated duration					
		3-days							
		24. Attachments							
	The following, completed in accordance with the requirements of		•						
	Well plat certified by a registered surveyor. A Drilling Plan.	is unless covered by an existing t	ond on file (see						
	A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of the Company of	ormation and/or plans as may be i	equired by the						
•	25. Signature / wt Fzarelin	Name (Printed/Typed) KURT FAGRELIUS			Date 9-21-05				
•	Title GEOLOGIST								
٠	Approved by (Signature)		Date						
,			1/17/08						
	Title wook	Office Acting A	AM		, , ,				
	Application approval does not warrant or certify the applicant hoperations dereon.	olds legal or equitable title to those rights in	n the subject lea	se which would entitle the applic	ant to conduct				
,	Conditions of approval, if any, are attached.	7	·		. 				
	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representa	make it a crime for any person knowingly a tions as to any matter within its jurisdiction	and willfully to	make to any department or agenc	y of the United				
•	A water based gel-mud will be Standard 2,000 psi BOP will be will be completed from approx	e used to drill produc	tion hol	e. The Fruitland	Coal				

This action is subject to technical and price cural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4



MMOCD

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-15E Revised February 21, 1954 Instructions on back

District II PO Drawer DD. Artesia, NM 88211-0719 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

PO Box 2088 Santa Fe. NM 87504-2088 2005 SEP 22 AM 10 39

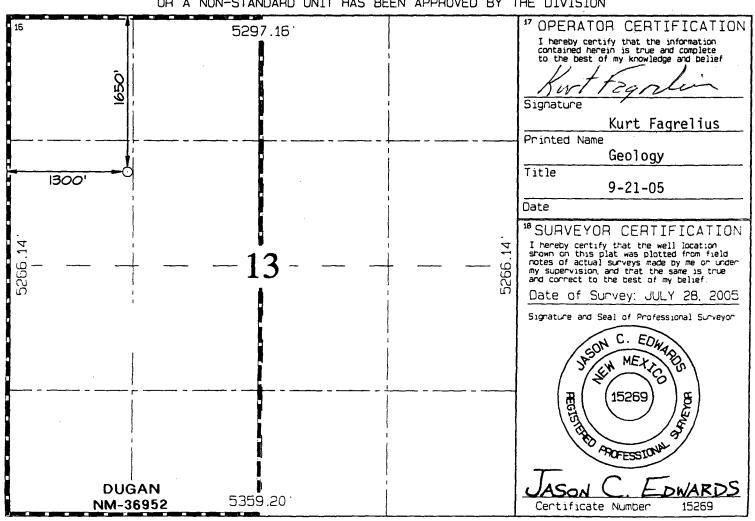
District IV PO Box 2088. Santa Fe. NM 87504-2088

AMENDED REPORT

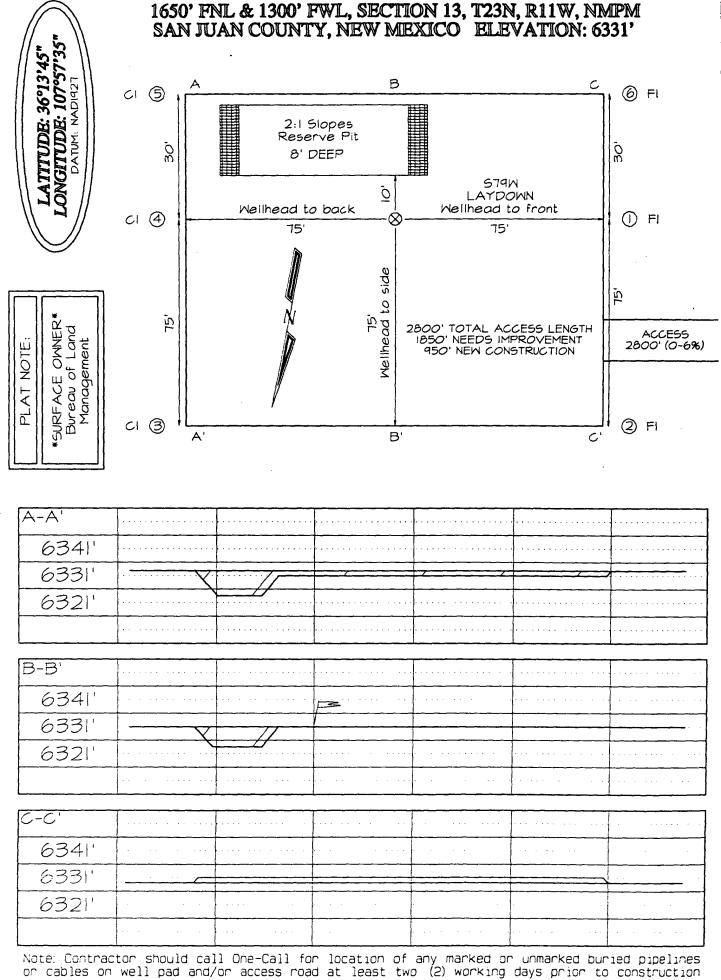
RECEIVED WELL LOCATION AND APPEAGEM DEDICATION PLAT

'API Number Pool Code			³Pool Name						
<i>30-045-33327</i> 71629					BASIN FRUITLAND COAL				
*Property					Property	Property Name			Well Number
368	4				FLO JO				915
'OGRID N	VO.				*Operator	Name			*Elevation
00651	5			DUGAN	PRODUCTIO	ON CORPORATI	ON		6331' 🗸
¹⁰ Surface Location									
ut or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ε	13	23N	11W		1650	NORTH	1300	· WEST	SAN JUAN
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
								į.	
¹² Dedicated Acres 320.0 Acres - (W/2)				13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
NO ALLOW					IC CONDICTION	ON HINTY ALL	INTERCATE I		

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



Office Office	· · · · ·	New Me		Form C-103
District 1	Energy, Minerals	and Nati	ıral Resources	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 District II				WELL API NO. 30-045-3332
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERY			5. Indicate Type of LeaseFederal XX
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 Sout			STATE FEE
District IV	Santa F	e, NM 8	7505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505				Federal NM-36952
	ES AND REPORTS O	N WELLS	}	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA				Flo Jo
PROPOSALS.) 1. Type of Well:				8. Well Number
Oil Well Gas Well V	Other			91 - S
2 Name of Operator	duction Corp.			9. OGRID Number 006515
3. Address of Operator 709 East	Murray Drive,	Farming	ton, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location				
	CEO	n 0 14 t h	12	00 wast
Unit Letter E : 1	650 feet from the	north	line and 13	of feet from the west line
Section 13	Township 2	3N R:	ange 10W	NMPM County San Juan
	11. Elevation (Show w. G.L. 6331	hether DR	, RKB, RT, GR, etc.,	
Pit or Below-grade Tank Application (For p	it or below-grade tank clos	ures, a form	C-144 must be attache	d) >100° >1000'
				Distance from nearest fresh water well 1-mi
Distance from nearest surface water 200				
feet from theline and				-
NOTICE OF INT	ENTION TO:		1	· —
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRI	LLING OPNS. PLUG AND ABANDONMENT
	MULTIPLE COMPLETION		CASING TEST AN	
OTHER: Reserve pit for dri		X)	OTHER:	
 Describe proposed or complet of starting any proposed work or recompletion. 	ted operations. (Clearly). SEE RULE 1103. I	y state all j For Multip	pertinent details, and le Completions: At	d give pertinent dates, including estimated dat tach wellbore diagram of proposed completion
2,000 psi BOP will be completed from approx	e used to drill kimately 505' -	product 570'.	ion hole. Th The interval	
Federal lease, pits w	vill be construc	ted and	l abandoned as	per BLM and NMOCD guidelines.
I hereby certify that the information ab	ove is true and comple	te to the be	est of my knowledge	and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE KUrt Fzgu	<i>f</i> •		Geology	
Type or print name Kurt Fagreli	ius	E-mail ad	dress:	Telephone No. 325-1821
(This space for State use)	Ω_{i}		-	
APPPROVED BY	Illustra 7	TITI France	TY COL & GAS BEST	ECTRE DEST. 43 DATE 2 3 2006
Conditions of approval, if any:	- V - '			DATE DATE



DUGAN PRODUCTION CORPORATION FLO JO #91S

EXHIBIT B OPERATIONS PLAN

Flo Jo #91-S

APPROXIMATE FORMATION TOPS:

Kirtland	Surface	Pictured Cliffs	570 <i>′</i>
Fruitland	200′	Total Depth	725′

Catch samples every 10 feet from 450 feet to TD.

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"	8-5/ 8"	24#	120′	J-55
7"	5-1/2"	14#	725 ′	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% CaCl₂. Circulate to surface.

Production Stage-Cement with 60 cf 2%Lodense with %# celloflake/sx followed by 40 cf Class "B" with %# celloflake/sx.

Total cement slurry for production stage is 100 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.

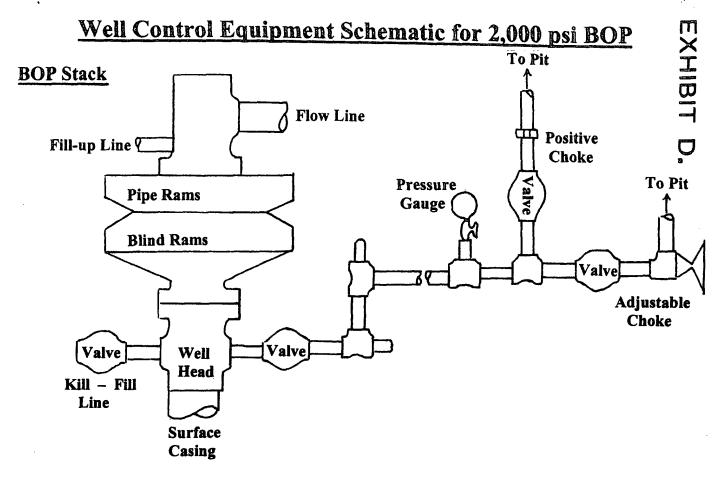
2" minimum choke line.

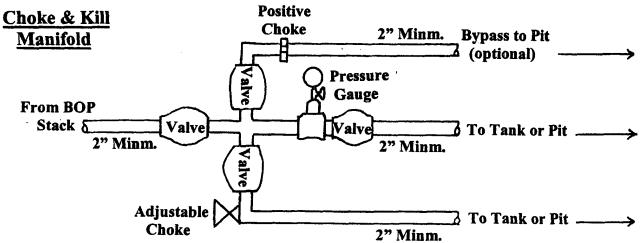
Fill-up line.

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	1 1





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

DUGAN PRODUCTION CORP. FLO JO #91-S