UNITED STATES DEPARTMENT OF THE INTERIOR BURFALLOF LAND MANAGEMENT

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

BUREAU OF LAND	5. Lease Serial No. NM-36952		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Na	me
la. Type of Work: ☑ DRILL ☐ REENTER	RECEIVED	7. If Unit or CA Agreement, Nan Flo Jo	ne and No.
. 1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Oth	070 FARM HAGTON HM oner Single Zone ☐ Multiple Zone	8. Lease Name and Well No #90	
Name of Operator Contact: DUGAN PRODUCTION CORP.	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045-33	
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 Explorator Basin Fruitla	
4. Location of Well (Report location clearly and in accorda At surface 1500' FNL & 1975' FEL, I At proposed prod. zone Same as above		11. Sec., T., R., M., or Blk. and S	
14. Distance in miles and direction from nearest town or post of Approx. 13 miles SW of Blanco		12. County or Parish	13. State
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
1500 Feet	1760.0 Acres	E/2 320.0 Acre	!S
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on tile	
Approx. 2100 Feet	760 Feet	On File	
21. Elevations (Show whether DF, KB, RT, GL, etc. GL-6362	22. Approximate date work will start ASAP	23. Estimated duration 3-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	his form:	· ·
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office.) 	Item 20 above). 5. Operator certification	ns unless covered by an existing bon	•
25. Signature Kurt Fegrelin	Name (Printed/Typed) KURT FAGRELIUS	Dai	10-17-05
Title GEOLOGIST			
Approved by (Signature) (an lea a	Name (Printed/Typed)	Da _e	22/06
Title AFM	Office PFO		
Application approval 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 applicant	to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n States any false, fictitious or fraudulent statements or representati	nake it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction.	make to any department or agency of	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 565' - 605'. The interval will be fractured.





District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

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

OIL CONSERVATION DIVISION

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 9 57

RECEIVED

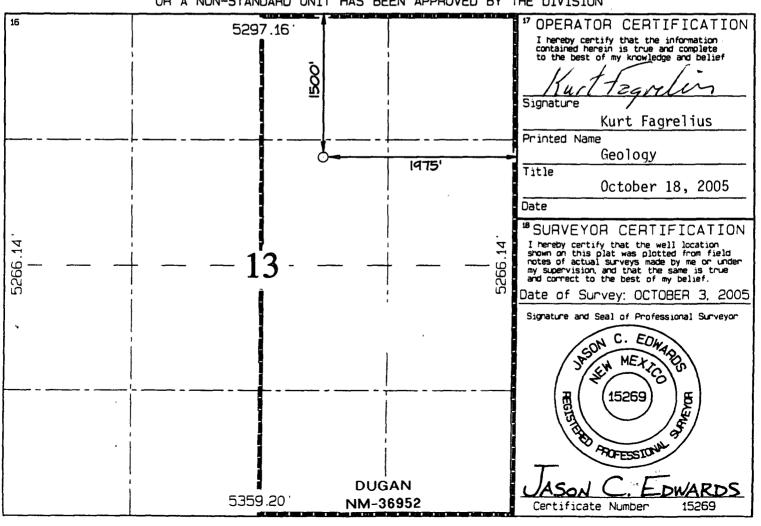
AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504~2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

	'API Number			*Pool Code			Pool Name		
30-04	5-3'	3381				SIN FRUITL	AND COAL ~		
'Property			Property Name Well Number				ell Number		
3684	1		FLO JO 90					90 📈	
'OGRID N	ю.				*Operator	Name		•	Elevation
00651	5 /			DUGAN PRODUCTION CORPORATION _ 6362 4				6365, 🔍	
	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
G	13	23N	11W		1500	NORTH	1975	EAST	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	County
]	ı				İ				
320.0 ACRES - (E/2) 13 Joint or Infill M Consolidation Code S Order No.									
NO ALLOWARIE WILL BE ACCIONED TO THIS COMPLETION UNITE ALL INTERCETS HAVE BEEN CONSOLIDATED									

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	e of New Mexico		Form C-103
District I Energy, Mine	rals and Natural F	lesources WELL API NO	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			30-045-33381
1301 W. Grand Ave., Artesia, NM 88210 OIL CONS	ERVATION DIT outh St. Francis	5. Indicate Typ	e of Lease Federal XX
1000 Die Denge Dd. Agtec. NM 97410	ta Fe, NM 87505	SIAIE	FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	ia 1°C, 19101 67505	0. 5.2.0	•
87505			NM-36952
SUNDRY NOTICES AND REPORT (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"	DEEPEN OR PLUG BA	CK TO A Flo .lo	or Unit:Agreement Name
PROPOSALS.) 1. Type of Well:		8. Well Number	er
Oil Well Gas Well X Other		#90	
2. Name of Operator Dugan Production Corp	•	9. OGRID Nur 006515	nber
3. Address of Operator 709 East Murray Driv	ve, Farmingtor	10. Pool name Basin F	or Wildcat ruitland Coal
4. Well Location			
Unit Letter G : 1500 feet from	the north	line and 1975 feet f	rom the east line
		 	
	p 23N Range		County San Juan
GL-6362	w whether DR, RKI		
Pit or Below-grade Tank Application (For pit or below-grade tank) Pit Location: UL G Sect 13 Twp 23N Rng 1W Pit type	<u>cclosures, a form C-144</u> Drilling	must be attached)	>/000°
100'			l l
feet from theline andfeet from the		SectTwpRng	;
leet nom theme andteet nom the	nne		
10 01 1 4	T 11 . ST .		_
12. Check Appropriate Box t	o Indicate Natur		
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABAN	DON 🗆 RE	SUBSEQUENT R MEDIAL WORK	EPORT OF: ALTERING CASING
_	_		AETERING OAGING [
TEMPORARILY ABANDON CHANGE PLANS	□ co	MMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		SING TEST AND MENT JOB	ASAMSONNEM
OTHER: Reserve pit for drilling (lined) 🖄 от	HER:	
13. Describe proposed or completed operations. (C	learly state all pertin	ent details, and give pertinent da	ites, including estimated date
of starting any proposed work). SEE RULE 110 or recompletion.	3. For Multiple Co	mpletions: Attach wellbore diag	gram of proposed completion
A water based gel-mud will be used			
2,000 psi BOP will be used to drill			
completed from approximately 565' -	bus. The H	iterval will be inactu	reu.
I hereby certify that the information above is true and cor	nplete to the best of	my knowledge and belief. I furt	her certify that any pit or below-
grade tank has been/will be constructed or closed according to NM	OCD guidelines 🔼 a go	neral permit 🗌 or an (attached) alter	native OCD-approved plan .
SIGNATURE Kurt + 2grolin	TITLE Geol		DATE Oct. 15, 2005
Type or print name Kurt Fagrelius	kfagrelii E-mail address	us@duganproduction.com	elephone No. 505-325-1821
(This space for State use)			
APPPROVED BY Conditions of approval, if any:	_ TITLE DEPUTY	M. B. GAS INSPECTOR, DIST. AL	DATE - 28 2 4 2006

DUGAN PRODUCTION CORPORATION FLO JO #90 1500' FNL & 1975' FEL, SECTION 13, T23N, R11W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6362'

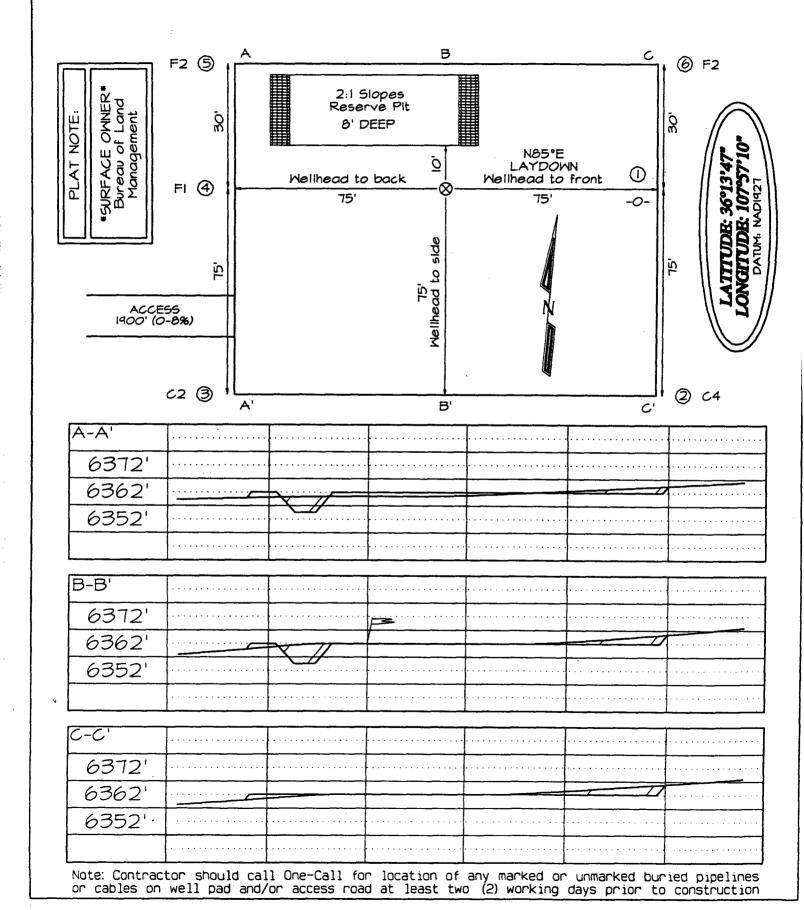


EXHIBIT B OPERATIONS PLAN Flo Jo #90

APPROXIMATE FORMATION TOPS:

Kirtland	Surface	Pictured Cliffs	610′
Fruitland	240′	Total Depth	760′

Catch samples every 10 feet from 550 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#	760 <i>'</i>	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

1/4# celloflake/sx followed by 40 cf Class "B" with

1/4# 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.

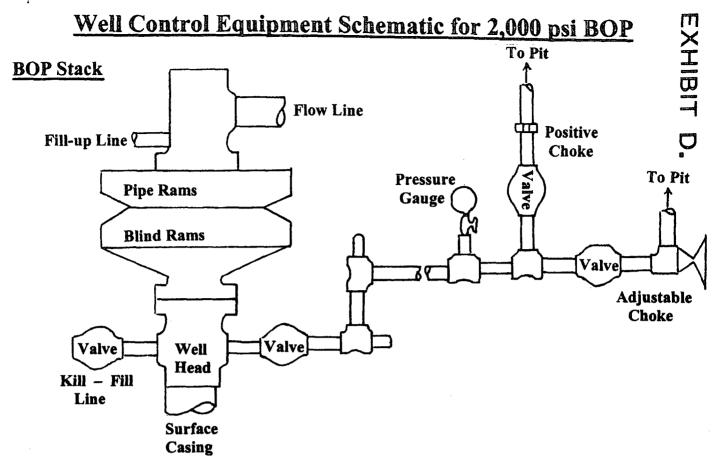
2" minimum choke line.

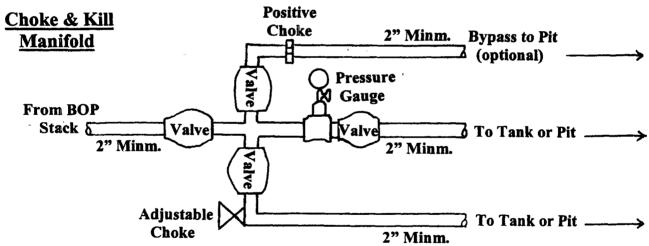
Fill-up line.

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	





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

DUGAN PRODUCTION CORP. FLO JO #90