Form 3160-3 (August 1999)

UNITED STATES

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

DEPARTMENT OF	THE INTERIOR		
BUREAU OF LAND I	MANAGEMENT	5. Lease Serial No. NM-36	952
APPLICATION FOR PERMIT	TO DRILL OR REENTER AM 10 29	6. If Indian, Allottee or Trib	e Name
1a. Type of Work: 🛛 DRILL 🔲 REENTER	RECEIVED	7. If Unit or CA Agreement,	Name and No.
	070 FARMINGTON NIA ser Single Zone ☐ Multiple Zone	8. Lease Name and Well No. Flo Jo #91	
2. Name of Operator Contact: DUGAN PRODUCTION CORP.	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045-333	.44
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 Explor Basin Fruitl	
4. Location of Well (Report location clearly and in accorda	•	11. Sec., T., R., M., or Blk. a	and Survey or Area
At proposed prod. zone Same as above	Lat. 36.1326, Long. 107.5736	Sec. 13, T23	N, R11W
Approx. 13 miles SW of Blanc	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 to	this well
1300 Feet	1760.0 Acres	W/2-320 acre	S
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on i	ile
Approx. 2100 Feet	760 Feet	On file	
21. Elevations (Show whether DF, KB, RT, GL, etc. GL-6396 Feet	22. Approximate date work will start ASAP	23. Estimated duration 3-days	
	24. Attachments		
The following, completed in accordance with the requirements o	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 	em Lands, the fice). 24. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific info authorized officer.	ormation and/or plans as may be	-
25. Signature KWT tzgvylin	Name (Printed/Typed) KURT FAGRELIUS		Date 9-21-05
Title GEOLOGIST			
Approved by (Signature) Marke (19)	Name (Printed/Typed)		Date //12/0
Title AFM	Office FFO	·	
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 appl	icant 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 545' - 606'. The interval will be fractured.

This action is subject to technical and procedural review pursuant to 43 CFR 3165 and appeal pursuant to 43 CFR 3165.4



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

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

Oistrict IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department Form C-198 Revised February 21, 1994 Instructions on beak

Submit to Appropriate District Office N DIVISION State Lease - 4 Copyan Fee Lease - 3 Copyan

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe, NM 87504-2088 NM 10 29

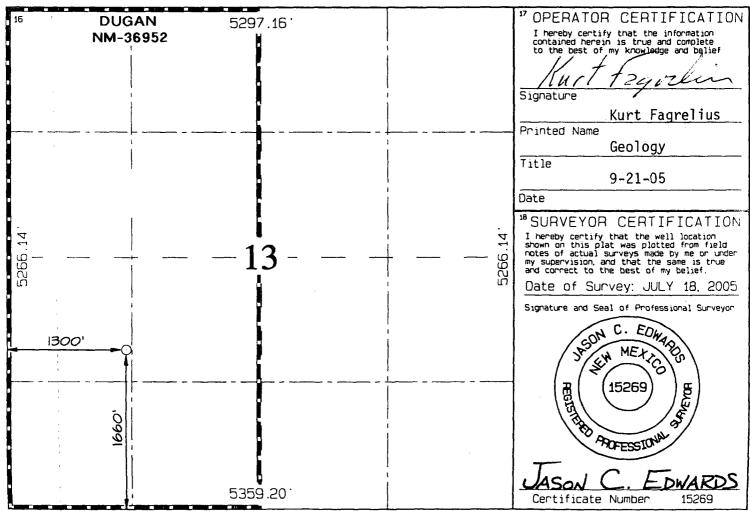
AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE ADEDICATION PLAT

ŀ	API Numbe		1	*Pool Cod	te (-Pool Name				
30-04	5-33	344 71629 BASIN FRUITLAND CO.				DAL				
*Property	Code	Property Name				⁴ ₩€	ell Number			
3684		FLO JO					91			
OGRID N	No.		*Operator Name				*Elevation			
00651	5	DUGAN PRODUCTION CORPORATION					6396			
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
L	13	23N	11W		1660	SOUTH	1300	WE	ST	SAN JUAN
	L.,	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/We	st line	County
Dedicated Acres					13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			*
:	320).O Acre	s – (h	1/2)]					
NO ALLOW	NARLE W	TIL BE A	ASSIGNE	D TO TH	IS COMPLETE	ON UNTIL ALL	INTERESTS (HAVE BE	EN CO	SOL TOATED

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	State of New Mexico	Form C-103
District I Ener	gy, Minerals and Natural Resources	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-33344
1301 W. Grand Ave., Artesia, NM 88210 OII	CONSERVATION DIVISION	5. Indicate Type of Lease Federal
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		Federal NM-36952
SUNDRY NOTICES AND		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DR DIFFERENT RESERVOIR. USE "APPLICATION FOR		Flo Jo
PROPOSALS.)	,	8. Well Number
1. Type of Well: Oil Well Gas Well ,, Other		91
2 Name of Origination	·	9. OGRID Number
- Dugan Productio	n Corp.	006515
3. Address of Operator 709 East Murra	y Drive, Farmington, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location		
Unit Letter 1 1660	feet from the south line and	1300 feet from the west line
· ·		
Section 13	Township 23N Range 10W	NMPM County San Juan
G.	ation (Show whether DR, RKB, RT, GR, etc. L. 6396	
Pit or Below-grade Tank Application (For pit or below	y-grade tank closures, a form C-144 must be attach	>100°
Pit Location: UL L Sect 13 Twp 23N Rng 10		
Distance from nearest surface water 1000 Below		p;
-1		•
feet from theline andfeet f	rom theline	
feet from theline andfeet fr	rom theline	
12. Check Appropria	te Box to Indicate Nature of Notice,	Report or Other Data
12. Check Appropria NOTICE OF INTENTIO	ate Box to Indicate Nature of Notice,	SEQUENT REPORT OF:
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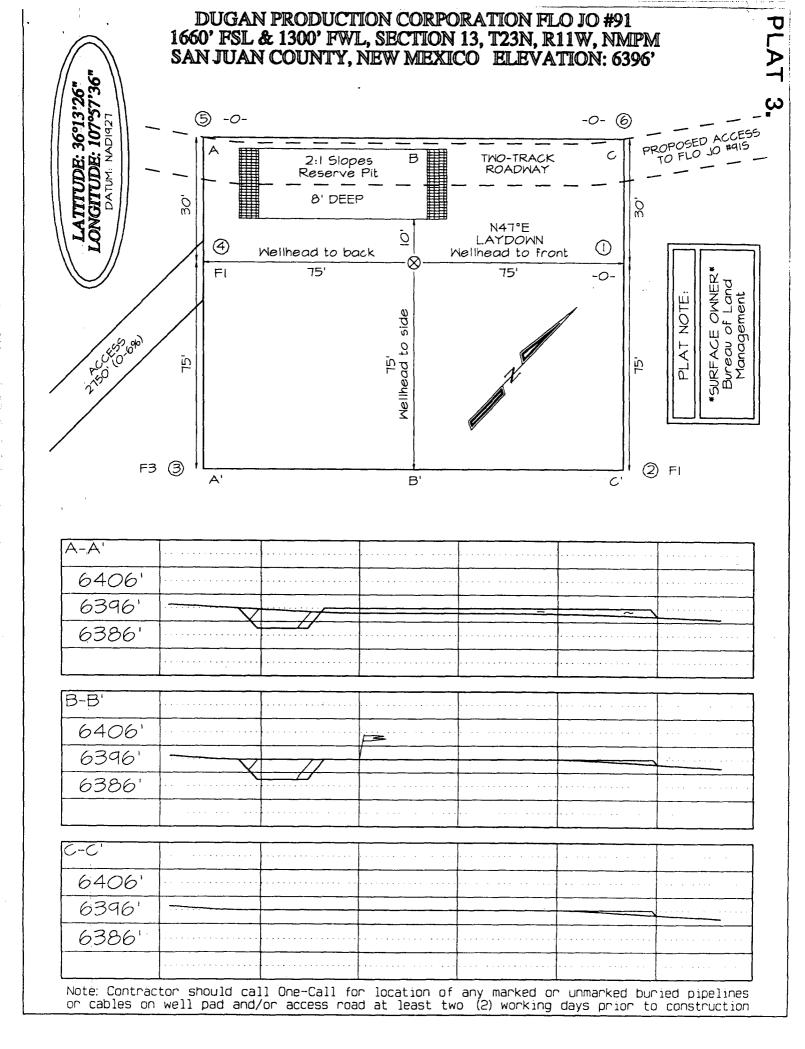


EXHIBIT B OPERATIONS PLAN

Flo Jo #91

APPROXIMATE FORMATION TOPS:

Kirtland	Surface	Pictured Cliffs	545′
Fruitland	175′	Total Depth	760'

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#	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 %# 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.

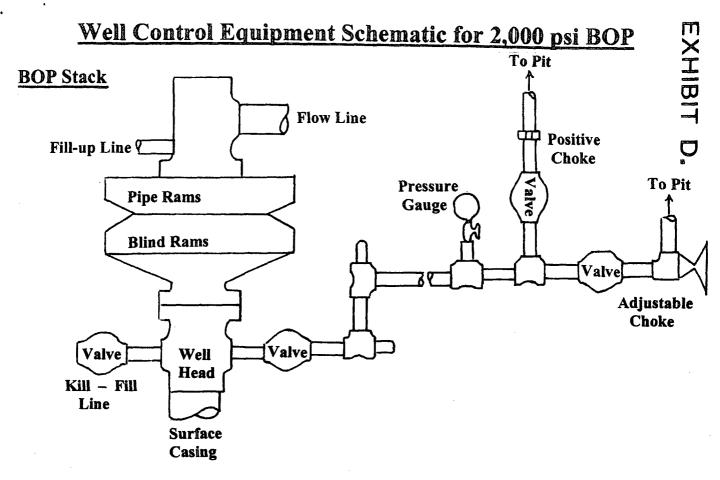
2" minimum choke line.

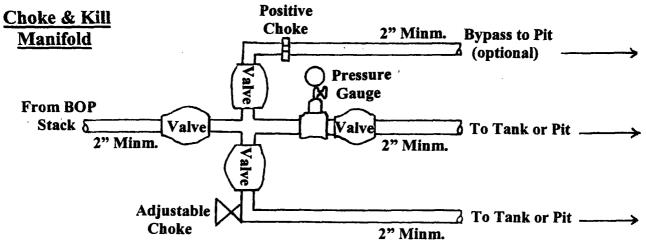
Fill-up line.

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	. ,





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

DUGAN PRODUCTION CORP. FLO JO #91