Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

2003	JUN	19	
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BUREAU OF LAND	MANAGEMENT ZOO3 JUN 19 PM	3:NM#1465	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name
la. Type of Work: DRILL REENTER	U O L AU UN AU	7. If Unit or CA Agreement,	Name and No.
			3758
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Ot	her: 🛛 Single Zone 📋 Multiple Zone	8. Lease Name and Well No. MAYRE 90 -S	
Name of Operator Contact: DUGAN PRODUCTION CORP. Contact:	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30045 3	1731
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 Explore BASIN FRUITLAND C	
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area
At surface NESE 1850FSL 790FEL 3	6.46060 N Lat, 108.20370 W Lon	√ Sec 31 T30N R14W M	ler NMP
At proposed prod. zone		1	
14. Distance in miles and direction from nearest town or post 2-MILES NORTH OF KIRTLAND NM	office*	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 2003	7. Spacing Unit dedicated to	this well
790	483.88 S A S DAY	323.88 5/2	
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 fi	le
1100	1000 MD	,	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5367 GL	22. Approximate date work will start 1	23. Estimated duration 5-DAYS	
	24. Attachments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to the	is form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of 			`
25. Signature Kurt Fagrelin	Name (Printed/Typed) KURT FAGRELIUS		Date 06/19/2003
Title GEOLOGIST			
Approvided. Mankiewicz	Name (Printed/Typed)		JUL 2 4 2003
Title	Office	<u> </u>	
Application approval does not warrant or certify the applicant he operations thereon. Conditions of approval, if any, are attached.	I olds legal or equitable title to those rights in the subject lea	se which would entitle the appli	cant to conduct
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 and willfully to tions as to any matter within its jurisdiction.	make to any department or ager	ncy of the United
			

ding action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

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

Additional Operator Remarks:

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 685'-780'. The interval will be fractured.

District I PO Rox 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 Maxico
Energy, Minerals & Watural 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

1,	API Numbe	r		*Pool Co	de	Pool Name				
30-04	531	731		71629	9	BASIN FRUITLAND COAL				
¹ Property	Code								ell Number	
375	8				MAY	RE		90 -S		
'OGRID I	ID No. Operator Name			* E	levation					
006515				DUGAN	JGAN PRODUCTION CORPORATION 5367				5367	
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	it line	County
I	31	30N	14W		1850	SOUTH	790	EAS	ST	SAN JUAN
<u> </u>	•	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/Wes	t line	County
						·				
12 Dedicated Acres	323	.88 Acre	es - (9	5/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
NO ALLOW		T. I. D	COTONIC	- TO TU	TO 00.10. 577	ON UNITE ALL	THIEDECIC			1001 75

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

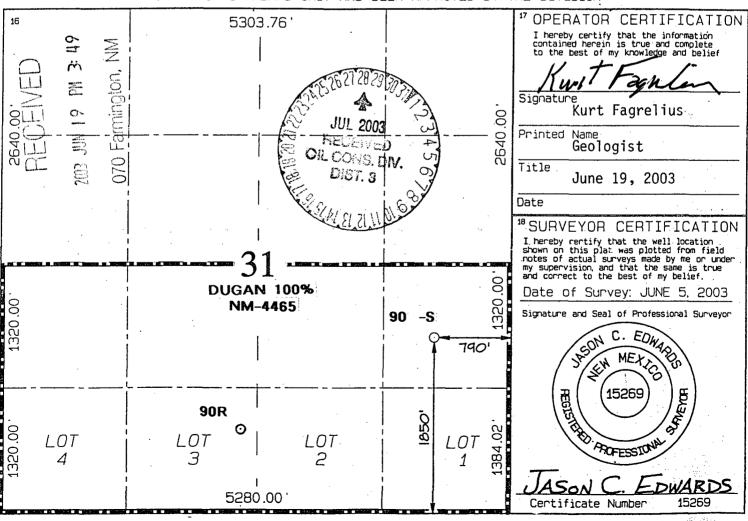


EXHIBIT B OPERATIONS PLAN Mayre #90 -S

APPROXIMATE FORMATION TOPS:

Kirtland	Surface'
Fruitland	450′
Pictured Cliffs	785 <i>'</i>
Total Depth	1000′

Catch samples every 10 feet from 500 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#	1000′	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 105 cf 2%lodense with

%# celloflake/sx followed by 50 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 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	