Form 3160-3 (April 2004)

DEPARTMENT OF THE INTERIOR CONS. DIV. DIST. 3
BUREAU OF LAND MANAGERICAL

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

Lease Serial No.

NM-22044

BUREAU OF LAND MANAGEMENT

6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERMIT TO	DUILE OF	- A-			10 865 (1977)	egy eg	1
la. Type of work: X DRILL REENTE	ER			•	7 If Unit or CA Agr	eement, Nan	ne and No.
lb. Type of Well; Oil Well X Gas Well Other	Sing	gle Zone	Multiple	Zone	8. Lease Name and Gold	Well No. Medal	#91-S
Name of Operator Dugan Production Corp.					9. API Well No.	0-045-	3422
3a. Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. 505-3	(include area 25-182)			10. Field and Pool, or Basin F	•	nd Coal
4. Location of Well (Report Invation clearly and in accordance with an	y State requiremen	nts.*)			11. Sec., T. R. M. or 1	Blk. and Surv	ey or Area
Atsurface 1200' FSL & 1000' FEL, Lat.	36.26598	N			Sec. 31,	T24N,	R10W
At proposed prod. zone Same as above Long.	. 107.931	L54 W			NMPM		
14. Distance in miles and direction from nearest town or post office*	ı				12. County or Parish San Juan		13. State NM
Approx. 35-miles SE of Bloomfield	New Mex	xico					14141
5. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of act	res in lease . 4 Acre	17		g Unit dedicated to this 2 - 320.0 Ac		
18. Distance from proposed location*	19. Proposed	Depth	12	O. BLM/E	JIA Bond No.		····
to nearest well, drilling, completed, Approx. 600' applied for, on this lease, ft.	1 .	Feet		On	ı File		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6559'	22. Approxim		k will start*		23. Estimated duration 5-Days)ā	
	24. Attacl	ments					
he following, completed in accordance with the requirements of Onshor	re Oil and Gas O	order No.1, s	shall be atta	ched to thi	s form:		···
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, the	Item 20 5. Operato) above). ' or certificat	ion	ns unless covered by a	·	•
SUPO shall be filed with the appropriate Forest Service Office).		6. Such of	other site sprized officer	ecific info	rmation and/or plans a	s may be rec	luired by the
25. Signature Kurt tegrely		<i>Printed/Type</i> Kurt Fa	ed)			Date March	12, 2007
Title Geologist							
Approved by (Signature)	Name (Printed/Type	ed)			Date 4	1/12/
Title ATM	Office	FE	20			 7	
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equita	ible title to ti	hose rights	in the subj	ect lease which would	entit le th e ap	plicant to
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cistates any false, fictitious or fraudulent statements or representations as	rime for any per to any matter wit	son knowing	gly and will liction.	ifully to m	ake to any department	or agency of	the United

*(Instructions on page 2)

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 970 The interval will be fracture

4/16/07

stimulated.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NOTIFY AZTEC OCD 24 HRS.

PRIOR TONICING OF PATONS OTHER SUBJECT TO COMPLIANCE WITH AT

"GENERAL REQUIREMENTS".

NMOCD

District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back

District II 1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION OIL CUNSERVATION ST. 1220 South St. Francis Dr. 2007 1123 12

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

-M 8: 42

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

AMENDED REPORT

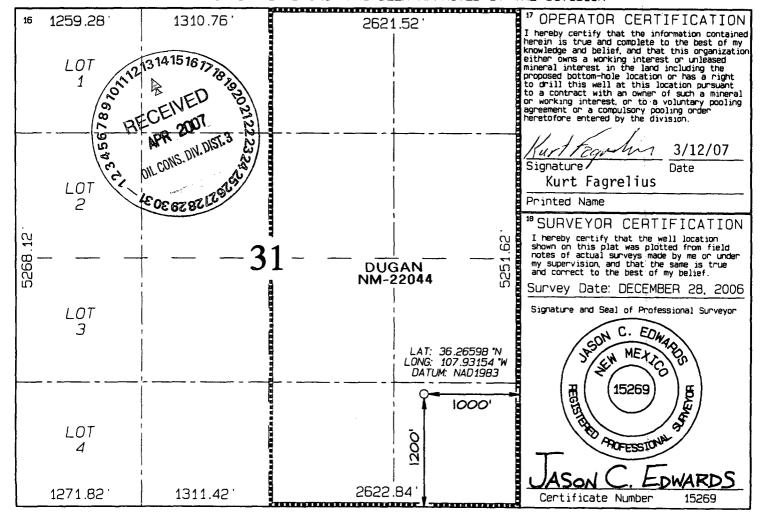
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	'Pool Code	Pool Name	
30-045-34224	71629	BASIN FRUITLAND CO	DAL
Property Code	Pr	operty Name	Well Number
3693	GO	91S	
OGRID No.	*Op	erator Name	*Elevation
006515	DUGAN PRODUCTION CORPORATION		
	40		

¹⁰ Surface Location

34 7466 2064(101)									
UL or jot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	31	24N	10W		1200	SOUTH	1000	EAST	SAN JUAN
	¹¹ Bottom Hole Location If Different From Surface								
UL or 10t no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
									1
¹² Dedicated Acres		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.					
	320	0.0 Acre	s - (E	(/2)					

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 May 27, 2004	
1625 N. French Dr., Hobbs, NM 88240	5 N. French Dr., Hobbs, NM 88240		
District II 1301 W. Grand Ave., Artesia, NM 88210 District III	IL CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease Federal XX	
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505		Federal NM-22044	
(DO NOT USE THIS FORM FOR PROPOSALS TO I DIFFERENT RESERVOIR. USE "APPLICATION FO		7. Lease Name or Unit Agreement Name Gold Medal	
PROPOSALS.) 1. Type of Well: Oil Well Gas Well	X Other	8. Well Number 91-S	
2. Name of Operator Dugan Produc	tion Corp.	9. OGRID Number 006515	
3 Address of Operator	ray Drive, Farmington, NM 87401	10. Pool name or Wildcat	
4. Well Location		Basin Fruitland Coal	
Unit Letter P: 1200	feet from the south line and 10	00 feet from the east line	
Section 31	Township 24N Range 10W	NMPM County San Juan	
11. Ele	evation (Show whether DR, RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application X or Closure			
Pit type Drilling Depth to Groundwater+100	Distance from nearest fresh water well + 1000 Dist	ance from nearest surface water +2001	
Pit Liner Thickness: 12 mil Below	w-Grade Tank: Volume bbls; Co	nstruction Material Synthetic	
12. Check Appropr	iate Box to Indicate Nature of Notice,	Report or Other Data	
TEMPORARILY ABANDON CHANG	ON TO: AND ABANDON REMEDIAL WORK GE PLANS COMMENCE DRI PLE COMPL CASING/CEMENT	LLING OPNS. P AND A	
OTHER: Reserve pit for drilling 13. Describe proposed or completed ope of starting any proposed work). SEE or recompletion.	rations. (Clearly state all pertinent details, and	d give pertinent dates, including estimated date tach wellbore diagram of proposed completion	
A water based gel mud will	l be used to drill surface and pr	oduction casing hole.	
Standard 2,000 psi BOP wil	ll be used to drill production ho	ole. The Fruitland Coal	
will be completed from app	proximately 970' - 995'. The int	erval will be fracture	
stimulated.			
		•	
I hereby certify that the information above is grade tank has been/will be constructed or closed according to the closed according to the constructed or closed according to the	true and complete to the best of my knowledge ording to NMOCD guidelines 🗵, a general permit 🗌 o	and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .	
SIGNATURE KINT Tagnetin	TITLE Geologist	DATE_3/12/2007	
Kurt Fagrelius	kfagrelius@duganproducti	ion.com 505-325-1821	
Type or print name For State Use Only	E-mail address:	Telephone No.	
APPROVED BY: Conditions of Approval (if any):	TITIESTUTT OL & GAS INC	SPECTOR, DIST. DATE APR 16 2007	

DUGAN PRODUCTION CORPORATION GOLD MEDAL #91S 1200' FSL & 1000' FBL, SECTION 31, T24N, R10W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6559' В F2 (5) 6 FI 2:1 Slopes Reserve Pit 90 8' DEEP 583°E Ō LAYDOWN Wellhead to front Wellhead to back -0- 4 75' 75' FΙ 300, (0-6%) Wellhead to side 5 SURFACE OWNER C2 (3) 2 **C3** B' <u>A-A'</u> 6570' 6560' 6550' B-B' 6570' 6560' 6550' C-C 6570' 6560' 6550'

Note: Contractor should call One—Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

EXHIBIT B OPERATIONS PLAN Gold Medal #91-S

APPROXIMATE FORMATION TOPS:

Total Depth	1150′
Pictured Cliffs	1000′
Fruitland	630 ′
Kirtland	225′
Ojo Alamo	155′

Catch samples every 10 feet from 850 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
12-1/4"	8-5/8"	24#	120′	J-55
7"	5-1/2"	14#	1150′	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 110 cf 2%lodense with

%# celloflake/sx followed by 75 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 185 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.

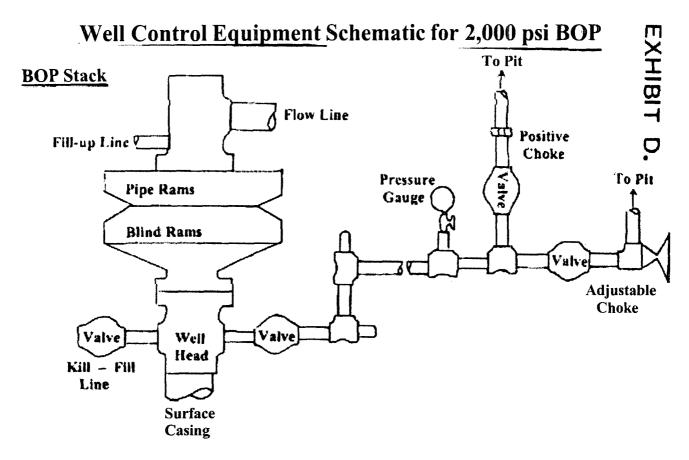
2" minimum choke line.

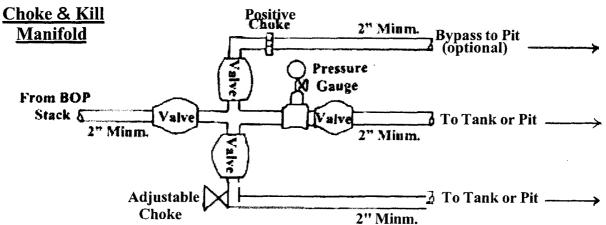
Fill-up line.

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.

GOLD MEDAL #91-S