	2009	MAY 18	711 3	72	DIS	r 3	
Form 3160-3 (April 2004)		RECEI	VED	FORM	APPROVED No. 1004-0137 March 31, 20)	
UNITED STATES DEPARTMENT OF THE II BUREAU OF LAND MANA	NTERIOR (OTO FARMIT	1GTON	5. Lease Serial No.	NM-6	1	
APPLICATION FOR PERMIT TO I	MODINE (1)			6. If Indian, Allote	e or Tribe?	Vame	
la. Type of work: DRILL REENTE	R			7 If Unit or CA Ag	reement, Na	me and No.	-
lb. Type of Well: Oil Well Gas Well Other	Sin	ngle Zone Mult	iple Zone	8. Lease Name and George	Well No. Washi	ngton	#90-S
2 Name of Operator Dugan Production Corp.				9. API Well No. 30-045	-337	152	
87401	505-32			10. Field and Pool, or Exploratory Basin Fruitland Coal			
4. Location of Well (Report Invation clearly and in accordance with any State requirements.*) At surface 2300 FSL and 660 FEL, Lat. 36.44374 N. At proposed prod. zone Same as above Long. 108.07419 W.				11. Sec., T. R. M. or Bik and Survey or Area Sec. 35, T26N, R12W NMPM			2W
14. Distance in miles and direction from nearest town or post office. Approx. 25-miles SE of Farmingt	con, Ne	w Mexico		12. County or Parish San Juan		13. State	 (
15. Distance from proposed* location to nearest 660 Feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of a 1120	cres in lease Acres		g Unit dedicated to this			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1400'		O Feet		BIA Bond Na. on file NMO14	10		_
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL - 6262		mate date work will sta AP	ut*	23. Estimated duration 5-Days	on		
	24. Attac	hments					
The following, completed in accordance with the requirements of Onshore	Oil and Gas	Order No.1, shall be a	ttached to thi	s form:	,		
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover t Item 20 above).	he operation	is unless covered by an	existing be	ond on file (see
 A Surface Use Plan (if the location is on National Forest System L SUPO shall be filed with the appropriate Forest Service Office). 	ands, the	Operator certific Such other site authorized office	specific info	rmation and/or plans a	s may be re	quired by the	;
25. Signature Kurt Fagre Lin	Name	(Printed/Typed) Ku	rt Fac	relius	Date Ma	y 18,	2006
Title Geology As							_
Approved by (Signature) Mandellace	Name	(Printed/Typed)			Date 8	158/	イヌ
Title AFM	Office	FEO					J.
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equit	able title to those righ	ts in the subj	ect lease which would o	entitle the ap	plicant to	
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crustates any false, fictitious or fraudulent statements or representations as to	me for any pe any matter w	rson knowingly and vithin-its jurisdiction.	villfully to ma	ake to any department o	or agency o	f the United	
*(Instructions on page 2)	1/						
A water based gel-mud will be used							Э.

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 1190' - 1210'. The interval will be fracture stimulated.

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT NMOCD



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

State of New Mexico

Form C-102

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

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office State Lease - 4 Copies PO Box 2088 700 MY 18 70 3 Pes Lease - 3 Copies Santa Fe, NM 87504-2088

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

RECEIVE AMENDED REPORT 070 FARMINGTON NM

		WELL			J	ICATION PL			
'API Number 'Pool Code			· ·	'Pool Name BASIN FRUITLAND COAL					
30.045.	3375	> b	71629			SIN FRUITL	AND CO		
'Property Code	*Property Name					*We	11 Number		
3867	GEORGE WASHINGTON 90S								
'OGRID No. 006515	*Operator Name *Elevat DUGAN PRODUCTION CORPORATION 626				6262 '				
	<u> </u>			¹⁰ Surface	Location		l		
UL or lot no Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
I 35	26N	12W		2300	SOUTH	660	EΑ	ST	SAN JUAN
	11 E	Bottom	Hole L	ocation I	f Different	From Surf	асе		L
UL or lot no Section	Townshap	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
Dedicated Acres	0.0 Acre	s - (E	[/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			<u> </u>
NO ALLOWABLE W	OR A	NON-51	ANDARD	UNIT HAS BE	EEN APPROVED	BY THE DIVI	SION		ISOLIDATED
		2	277.36	UU			$\Delta \cup \cup \cup \cup$	1 - 4 1 1	FICATION

LAT: 36.44374 N LONG: 108.07419 W C DATUM: NAD1983

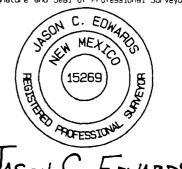
5280.00

660'

2640.00

my supervision, and that the same is true and correct to the best of my belief Date of Survey. MAY 1, 2006

Signature and Seal of Professional Surveyor



Certificate Number

Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
District I Energy, Minerals and Natural Resource 1625 N French Dr , Hobbs. NM 88240	WELL API NO. 30-045- 3375
District II 1301 W Grand Ave , Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease Federal XX
District III 1000 Rio Brazos Rd, Aztec, NM 87410 Santa Fe, NM 87505	STATE FEE
1220 S. St. Francis Dr , Santa Fe, NM	6. State Oil & Gas Lease No. Federal NM-61
87505 SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)	George Washington
1. Type of Well: Oil Well Gas Well XX Other	8. Well Number #90-S
2. Name of Operator Dugan Production Corp.	9. OGRID Number 006515
3. Address of Operator 709 East Murray Drive, Farmington, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location Unit Letter I: 2300 feet from the South line and	660 feet from the east line
Unit Letter 1 : 2300 feet from the South line and Section 35 Township 26N Range 12W	
11. Elevation (Show whether DR, RKB, RT, GR GL-6262'	t, etc.)
Pit or Below-grade Tank Application XXor Closure	
Pit type Drilling Depth to Groundwater +100 Distance from nearest fresh water well +100	Synthetic
Pit Liner Thickness: Pit Liner Thickness: Mail Below-Grade Tank: Volume bbls	s, Construction Material
	•
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL \	EDRILLING OPNS. PAND A
OTHER: Reserve pit for drilling (lined) 次 OTHER:	П
13. Describe proposed or completed operations. (Clearly state all pertinent detail of starting any proposed work). SEE RULE 1103. For Multiple Completions or recompletion.	s, and give pertinent dates, including estimated date s: Attach wellbore diagram of proposed completion
A water based gel-mud will be used to drill surface Standard 2,000 psi BOP will be used to drill produced will be completed from approximately 1190' -	action hole. The Fruitland
be fracture stimulated.	RCVD AUG 30 '07
	OIL CONS. DIV.
	DIST. 3
I hereby certify that the information above is true and complete to the best of my know grade tank has been/will be constructed or closed according to NMOCD guidelines. A general perm	ledge and belief. I further certify that any pit or below- iit □ or an (attached) alternative OCD-approved plan □.
SIGNATURE Kurt Tagrelin TITLE Geology	DATE May 18, 2006
Kurt Fagrelius kfagrelius@duganprodu	iction.com 505-325-1821
Type or print name E-mail address: For State Use Only	Telephone No.
APPROVED BY: Deputy Oil & Gas TITLE District #	

and the second s

APPROVED BY: Conditions of Approval (if any):

EXHIBIT B OPERATIONS PLAN

George Washington #90-S

APPROXIMATE FORMATION TOPS:

Ojo Alamo	165 <i>'</i>
**	0001

Kirtland 290' Pictured Cliffs 1212' Fruitland 850' **Total Depth 1370'**

Catch samples every 10 feet from 1150 feet to 1370 feet.

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#	1370 <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:

THE STATE OF THE PARTY OF THE P

Surface: Cement to surface with 70 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 120 cf 2%Lodense with

%# celloflake/sx followed by 100 cf Class "B" with

¼# celloflake/sx.

Total cement slurry for production stage is 220 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.

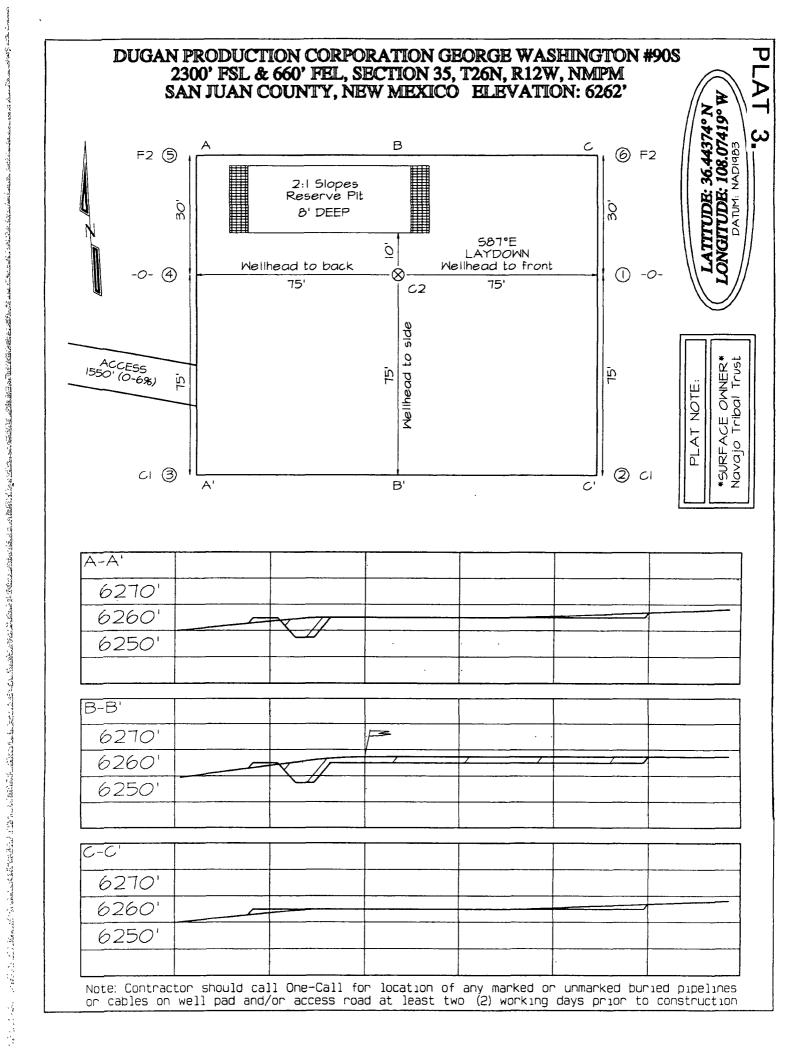
2" minimum choke line.

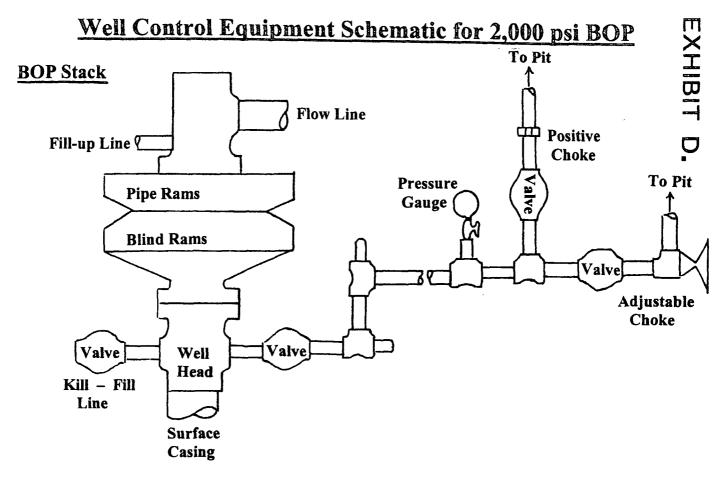
Fill-up line.

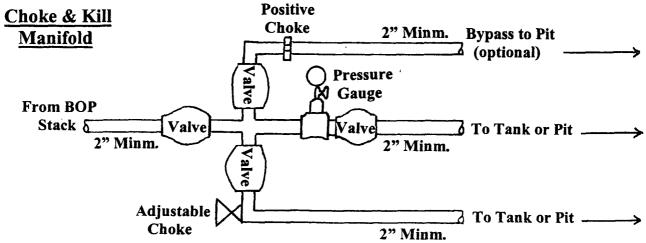
Contacts:

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. GEORGE WASHINGTON #90-S