FORM APPROVEDIST. 3 Form 3160-3 OEXPINO. 1004-0137
Expires March 31, 2007 (April 2004) 2回 松红 1 UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NM-32124 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: 8. Lease Name and Well No. Oil Well X Gas Well X Single Zone Multiple Zone Calgary #91 lb. Type of Well: 9, API Well No. Name of Operator 30-045-Dugan Production Corp. 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a, Address 709 East Murray Drive 505-325-1821 Basin Fruitland Coal Farmington, NM 87401 11. Sec., T. R. M. or Blk and Survey or Area 4. Location of Well (Report Invasion clearly and in accordance with any State requirements.*) N Sec. 6, T23N, R10W Atsurface 1200' FSL & 1800' FWL, Lat. 36,25149 N At proposed prod. zoos Same as above Long. 107.94000 W NMPM 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office San Juan NM Approx. 35-miles SE of Bloomfield New Mexico 15. Distance from proposed* 16. No. of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft.
(Also to nearest drig, unit line, if any) 1200 Feet W/2 - 317.20 Acres 636.72 Acres 20. BLM/BIA Bond No. 19. Proposed Depth Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 750' 1020 Feet On File 22. Approximate date work will start 23 Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) ASAP 5-Days GL-6545 24 Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. Item 20 above). 5. Operator certification 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer. Name (Printed/Typed) 25. Signature March 12, 2007 Kurt Fagrelius Title Geologist Name (Printed/Typed) Approved by (Sh Title Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. 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. *(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 840' - 864'. The interval will be fracture NOTIFY AZTEC OCD 24 HRS. stimulated. PRIOR TO CASING & CEMENT

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

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

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

2007 MAR 12 AN 8:56
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-34216	*Pool Code 71629	³Pool Name BASIN FRUITLAN	ID COAL
Property Code	·	rty Name _GARY	*Well Number 91
'OGRID No. 006515	•	tor Name ION CORPORATION	*Elevation 6545

¹⁰ Surface Location Section Feet from the East/West line County UL or lot no. Touriship Feet from the 23N 10W 1200 SOUTH 1800 WEST SAN JUAN Ν 6 ¹¹ Bottom Hole Location If From Surface Different North/South line Feet from the Lot Idn County UL or lot no Sect 100 Feet from the East/West line <u>PCUD MAY4'07</u> 13 Joint or Infill ¹⁴ Consolidation Code 25 Order No. 12 Dedicated Acres OIL CONS. DIV. 317.20 Acres - (W/2) DIST. 3

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

	OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION				
1316.70' 🕏	1271.82 ' LOT 4	1311.42 LOT 3	1311.42 ' LOT 2	1311.42 LOT 1904:19	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-nole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
1316.04	LOT 5			1314.72	Signature Date Kurt Fagrelius Printed Name **B SURVEYOR CERTIFICATION** I hereby certify that the well location shown on this plat was plotted from field
, 1316.70'		LAT: 36.25149 N LONG: 107.94000 W DATUM: NAD1983) — — —	29.44	notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Survey Date: JANUARY 4, 2007 Signature and Seal of Professional Surveyor C. EDWARD MEXICO
1316.70	1800' LOT 7 1298.22'	00 2 .1318.02	2636	5.04°	JASON C. EDWARDS Certificate Number 15269

Submit 3 Copies To Appropriate District	State of New Me	exico	Form C-103
Office District I	Energy, Minerals and Natural Resources		WELL API NO. 2/1 2 1/
1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONCEDUATION	DIVISION	30-045-39216
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.		5. Indicate Type of Lease Federal XX
1000 Rio Brazos Rd., Aztec, NM 87410 District LV	Santa Fe, NM 87505		STATE FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM	·		Federal NM-32124
87505 SUNDRY NOTIC	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)			Calgary
1. Type of Well: Oil Well	Gas Well X Other		8. Well Number 91
2. Name of Operator Dugan Production Corp.			9. OGRID Number 006515
3. Address of Operator 709 East	st Murray Drive, Farmingt	on, NM 87401	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location			
	1200 feet from the south		800 feet from the west line
Section 6	Township 23N Ra 11. Elevation (Show whether DR	inge 10W	NMPM County San Juan
	GL-6545'	, RAD, RI, OK, etc.)	
Pit or Below-grade Tank Application A or	,		
Pit type Drilling Depth to Groundwa	ter $\pm 100^{\circ}$ Distance from nearest fresh w		
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		struction Material Synthetic
12. Check A	ppropriate Box to Indicate N	ature of Notice, I	Report or Other Data
NOTICE OF IN	FENTION TO:	SUBS	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	– * **** = *** = *** = –
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRIL	· · · · · · · · · · · · · · · · · · ·
PULL OR ALTER CASING	MULTIPLE COMPL L	CASING/CEMENT	10B
OTHER: Reserve pit for dri	lling (lined) X	OTHER:	
			give pertinent dates, including estimated date ach wellbore diagram of proposed completion
or recompletion.	k). GLE ROLL 1105. For white	ic Completions. Au	ach vehicle diagram of proposed completion
A water based gel mu	d will be used to drill	surface and pro	oduction casing hole.
Standard 2,000 psi B	OP will be used to drill	production ho	le. The Fruitland Coal
will be completed fr	com approximately 840' -	864'. The inte	erval will be fracture
stimulated.	••		
			•
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and complete to the belosed according to NMOCD guidelines [est of my knowledge 🏿 , a general permit 🔲 o	and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE Kurt Faggelius		eologist s@duganproducti	DATE 3/12/2007 on.com 505-325-1821
Type or print name	E-mail ad		Telephone No.
For State Use Only	\mathcal{M} .		<u>-</u>
APPROVED BY:	TITLE	WITH OIL & BAS IT	ISPECTOR, DIST: DATE MAY 0 9 2007
Conditions of Approval (if any):	• /		

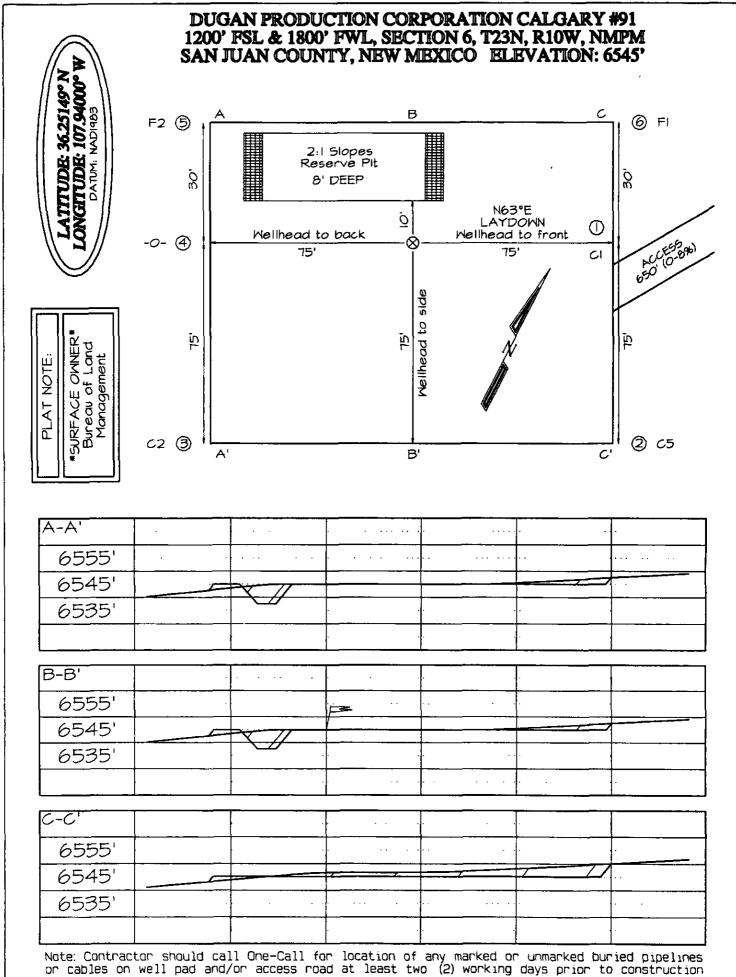


EXHIBIT B OPERATIONS PLAN

Calgary #91

APPROXIMATE FORMATION TOPS:

Total Depth	1020'
Pictured Cliffs	865 ′
Fruitland	500 ′
Kirtland	Surface
Ojo Alamo	

Catch samples every 10 feet from 750 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#	1020'	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 100 cf 2%lodense with

celloflake/sx followed by 60 cf Class "B" with

celloflake/sx.

Total cement slurry for production stage is 160 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.

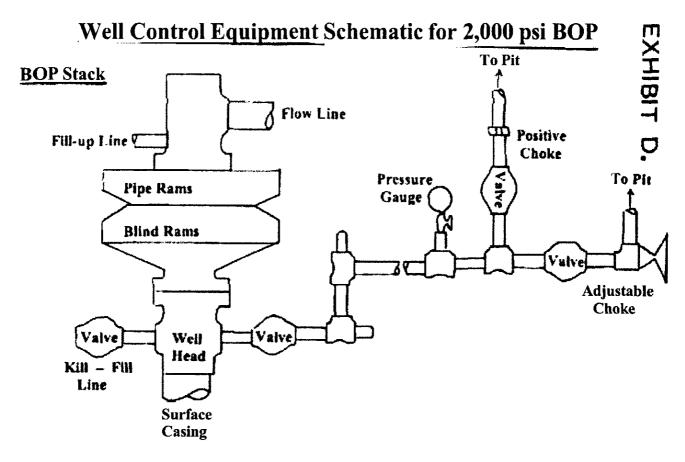
2" minimum choke line.

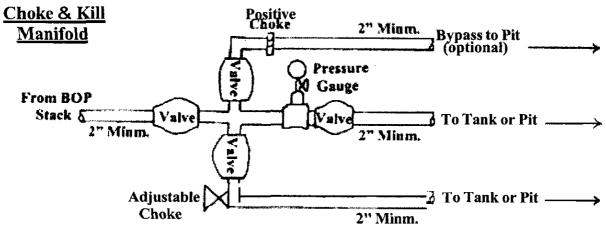
Fill-up line.

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.

CALGARY #91