r. ... 2160-2

APR 08 2011

DIST. 3

Form 3160-3 (April 2004)	Farmington		FORM APPROV OMB No. 1004-0 Expires March 31.	1137		
UNITED STATE DEPARTMENT OF THE	interior3ureau of Lanc	Manag	173.9 Lease Serial No.			
BUREAU OF LAND MA						
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name					
	Navajo Allotted 7 If Unit or CA Agreement, Name and No.					
la. Type of work: X DRILL REEN	rk: X DRILL REENTER					
lb. Type of Well: Oil Well X Gas Well Other	Oil Well X Gas Well Other X Single Zone Multiple Zone			8. Lease Name and Well No.  Jim Thorpe Com #91		
2 Name of Operator Dugan Production Corp.	2. Name of Operator Dugan Production Corp.					
3a. Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. (Include area code) 505-325-1821		10. Field and Pool, or Exploratory  Basin Fruitland Coal			
4. Location of Well (Report Irration clearly and in accordance with	any State requirements.*)		11. Sec., T. R. M. or Blk. and Survey or Area			
At surface 1825' FNL & 1360' FWL Lat.	. 36.25793 N		F Sec. 3, T23N, R10W			
At proposed prod. zone Same as above Lon	ng.107.88799 W		NMPM			
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State		
Approx. 35-miles SE of Farming	· T	<del></del>	San Juan	NM		
15. Distance from proposed* location to nearest property or lease line, ft. [A lso to nearest drig, unit line, if any)	16. No. of acres in lease	· ·	g Unit dedicated to this well 9.6 Acres - (N	/2)		
18. Distance from proposed location*	19. Proposed Depth	19. Proposed Depth 20. BLM/BIA Bond No.				
to nearest well, drilling, completed, Approx. 600' applied for, on this lease, ft.	1190-Feet (		On File			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) G. L. 6665-Feet	22. Approximate date work will st ASAP	urt*	23. Estimated duration 5-Days			
	24. Attachments					
The following, completed in accordance with the requirements of Onsi	nore Oil and Gas Order No.1, shall be	attached to thi	s form:			
1. Well plat certified by a registered surveyor.  4. Bond to cover the operations unless covered by an existing bond on file (see ltem 20 above).						
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).  5. Operator certification  6. Such other site specific information and/or plans as may be required by the authorized officer.						
25. Signature / Surt Faculin	Name (Printed/Typed) Kurt Fagre	ius	Date	4-8-2011		
Title Geologist						
Approved by (Signature) Name (Printed/Typed)  Date 4/16/12						
Title AFIN	Office III					

\*(Instructions on page 2)

conduct operations thereon.

Conditions of approval, if any, are attached

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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 perforated from approximately 1015 - 1039 feet. The interval will be fracture stimulated.

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

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 COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

NMOCD A

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

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

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

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

								1				
			WELL	LOCATI	ON AND A	CREAGE	DEDI	CAT	ION PL	AT		
'API Number Pool Code				9				Pool Name	•			
30-045-35277 71629					BASIN FRUITLAND COAL							
'Property Code				*Property Name: Well Number				ll Number				
3919	$\supset$	JIM THORPE COM					91				91	
OGRID N	NO ON	*Operator Name					*Elevation					
00651	5			DUGAN	PRODUCTION	ON CORP	ORATI	ON				6665 '
		· <del></del>	-	1	<sup>o</sup> Surface	Locati	on .		•			
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/So		Fee	et from the	East/Wes	st line	County
F	3	23N	10W		1825	NOP	ITH		1360	WE:	ST	SAN JUAN
	l	11 E	Bottom	Hole L	ocation I	f Diffe	erent	Fro	om Surf	ace		<u> </u>
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/So			et from the	East/Wes	st line	County
12 Dedicated Acres	240	CO 400	00 (1		13 Joint or Infill	<sup>54</sup> Consolidat:	ion Code	<sup>15</sup> Orde	r No.			
319.60 Acres - (N/2)												
NO ALLOW	ABLE W	ILL BE	ASSIGNE	ואד סד ס	S COMPLETI	ON UNTI	L ALL	INT	ERESTS H	AVE BE	EN CON	SOLIDATED
		OR A	NON-51	TANDARD I	JNIT HAS BI	EEN APPE	ROVED	BY 1	HE DIVIS	SION		
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ii		925	•		_	[ ]	*	15	to a contra	is well at ct with ar	this location of	rmation contained the best of my this organization or unleased ncluding the or has a right ation pursuant such a mineral pluntary pooling into order
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			° 97.88799 NAD1983	"   "				313	Printed			
	Dugan				Dugan							FICATION
11	14 20	17207		11	•	1.00.5		ı	I hereby o	entify the	t the well	ll location

I hereby certify that the well location shown on this plat was plotted from field 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 NOO-C-14-20+7307 NOO-C-14-20-5825

5282.641

Date of Survey: JULY 7, 2009

Signature and Seal of Professional Surveyor



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2626.1

Certificate Number

# EXHIBIT B OPERATIONS PLAN

Jim Thorpe Com #91

#### APPROXIMATE FORMATION TOPS:

Total Depth	1190′
Pictured Cliffs	1040′
Fruitland	745 <b>′</b>
Kirtland	290 <b>′</b>
Ojo Alamo	190 <b>′</b>

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
7-7/8"	5-1/2"	15.5#	1190′	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 7-7/8" hole to total depth with gel-water mud program to test the Fruitland Coal. 5-1/2", 15.5#, 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 75-cf Class B + 2% CaCl<sub>2</sub>. Circulate to surface.

Production Stage- Cement w/160-sx Premium Lite FM 3% BWOC

Calcium Chloride + 0.25 lbs/sx Celloflake + 5 lbs/sk

LCM-1 + 0.4% BWOC FL-52 + 8% BWOC Bentonite + 0.4%

BWOC Sodium Metasilicate + 112.3% fresh water (12.1 lb/gal, 2.13 cu ft/sx - 185-cu ft slurry). Tail

w/163-sx Type III cement + 1 lb/sk Calcium Chloride + 0.25 lb/sx Celloflake + 0.2% BWOC FL-52 + 59% fresh water (14.6 lb/gal, 1.38 cu ft/sx-125-cu ft slurry).

Total cement slurry for production stage is 310-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 useable 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, pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

Maximum Anticipated Bottom Hole Pressure - 300 psi.

Drilling Fluid - will be fresh water with bentonite 8.9#/gal.

### 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#.

## Blow-Out Preventer Equipment (BOPE): 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 adjustable 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.

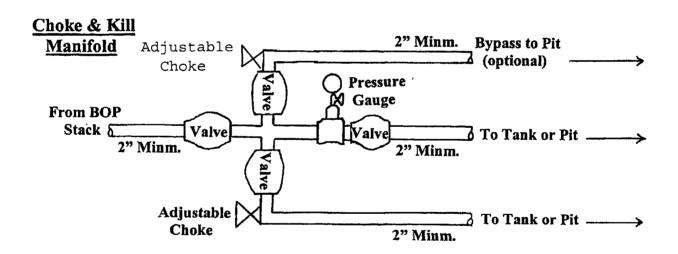
Working pressure for all BOPE will be 2,000 psi or greater.

Will test BOPE (blind rams, pipe rams, choke manifold and surface casing) separately. Each test will include a low pressure test to 250-psig held for five minutes and a high pressure test to 800-psig held for thirty minutes (with no more than a 10-percent pressure drop during the duration of the tests). If a 10-percent or greater pressure drop occurs; a packer will be run to isolate the surface casing and BOPE to locate the source of the leak.

Contacts: Dugan Prod. Corp. Office & Radio Dispatch: 325-1821

Mark Brown	Kurt Fagrelius	John Alexander
327-3632 (H)	325-4327 (H)	325-6927 (H)
320-8247 (M)	320-8248 (M)	320-1935 (M)

C--"



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

DUGAN PRODUCTION CORP.
Jim Thorpe #91