Form 3160-3

APR 08 2011

FORM APPROVED

(April 2004) UNITED STATES	<u>.</u>	Expires	March 31, 2007	
DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR Purpour of la	on Field Offic and Managernes Serial No. NOO-C-	14-20-7313	
APPLICATION FOR PERMIT TO	DRILL OR REENTER	6. If Indian, Allotes	or Tribe Name	
AFTERNATION TO TESTINATE TO	Siller Oli IIIEITIEIT	Navajo	Allotted	
la. Type of work: X DRILL REENT	ER	7 If Unit or CA Agr	eement, Name and No.	
lb. Type of Well: Oil Well X Gas Well Other	X Single Zone Multip	8. Lease Name and St. Lo	Well No. uis Com #91	
2. Name of Operator Dugan Production Corp.		9. API Well No. 30-045-	35273	
3a. Address 709 East Murray Drive Farmington, NM 87401	505-325-1821			
4. Location of Well (Report Irration clearly and in accordance with an At surface 990' FNL & 1200' FWL Lat. 30	<b>D</b> Sec. 9,	Blk.and Survey or Area T23N, R10W		
At proposed prod. zone Same as above Long	.107.90647 W	NMPM		
14. Distance in miles and direction from nearest town or post office. Approx. 35-miles SE of Farmin	gton, New Mexico	12. County or Parish San Juan	13. State NM	
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)	160.0-Acres	320.0 Acres -	(N/2)	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond No.		
to nearest well, drilling, completed, Approx. 1350' applied for, on this lease, ft.	1020-Feet	On File		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) G.L. 6527-Feet	22. Approximate date work will star ASAP	23. Estimated duration 5-Days	n n	
	24. Attachments			
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be a	tached to this form:		
Well plat certified by a registered surveyor.     A Drilling Plan.	4. Bond to cover the Item 20 above).	de operations unless covered by ar	existing bond on file (see	
<ol> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>		specific information and/or plans a	s may be required by the	
25. Signature Kurl Famin	Name (Printed Typed) Kurt Fagrel	ius	Date 4-8-2011	
Fitte Geologist				

Name (Printed/Typed)

Approved by (Sign Office

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)

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. Fruitland coal will be perforated from approximately 840 - 866 feet. The interval will be fracture stimulated.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.5 and appeal pursuant to 43 CFR 3165,4

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

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

APR 1 9 2012 CA

144 MUST BE SUBMITTED TO AND THE NMOCD FOR: A PIT, CLOSED EM, BELOW GRADE TANK, OR TERNATIVE METHOD, PURSUANT

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

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

AMENDED REPORT

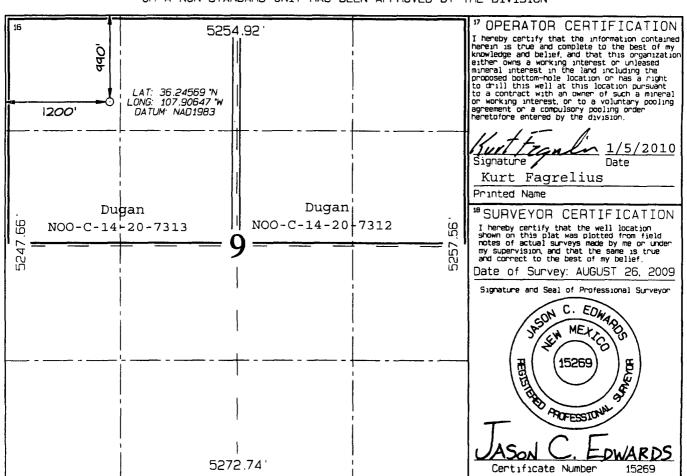
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code	*Pool Name
30-045-35273	71629	BASIN FRUITLAND COAL
Property Code	*Pr	operty Name Well Number
39177	ST	LOUIS COM 91
'OGRID No.	*Op	erator Name Elevation
006515	DUGAN PRODU	CTION CORPORATION 6527
	10 Sunfi	ace Location

UL or lot no	Sect 100	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	23N	10W		990	NORTH	1200	WEST	SAN JUAN
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no	Sect ion	Township	Range	Lot Idn	Faet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres		).O Acre	s - (N	/2)	19 Joint or Infill	14 Consolidation Code	<sup>15</sup> Order No.		
ì			_ ,,,	,	1				

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

St. Louis Com #91

#### APPROXIMATE FORMATION TOPS:

Total Depth	1020'
Pictured Cliffs	870 <b>′</b>
Fruitland	560 <b>′</b>
Kirtland	165 <b>′</b>
Ojo Alamo	75 <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"	<del>8-5</del> /8"	24#	120'	J-55
7-7/8"	5-1/2"	15.5#	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 7-7/8" 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 - 165-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-110-cu ft slurry).

Total cement slurry for production stage is 275-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.

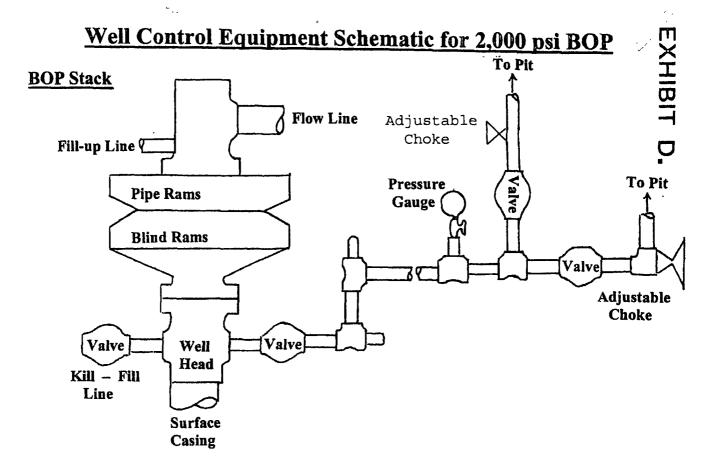
Fill-up line.

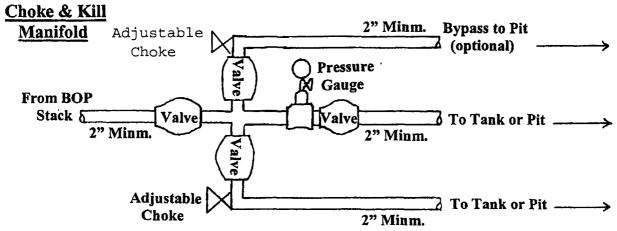
Working pressure for all BOPE will be 2,000 psi or greater.

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)





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

DUGAN PRODUCTION CORP. St. Louis Com #91