RCVD APR 23'12 OIL CONS. DIV. DIST. 3

RE	CE	V	

orm 3100-3 April 2004)	APR 08 20	111	OMB No. 1004-0 Expires March 31,	137
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERIORarmington Field AGEMENTau of Land Mar	nauemen:	ase Serial No. NOO-C-14-20	
APPLICATION FOR PERMIT TO D		o. 11.1	ndian, Allotee or Trib Navajo Alle	
a. Type of work: X DRILL REENTER	₹	7 If U	7 If Unit or CA Agreement, Name and No.	
b. Type of Well: Oil Well X Gas Well Other	X Single Zone Multip	8. Lea	8. Lease Name and Well No. St. Louis Com #90	
Name of Operator Dugan Production Corp.		9. API 3.0	Well No. 0-045-35	278
a. Address 709 East Murray Drive Farmington, NM 87401		d and Pool, or Explorates in Fruitla	•	
Location of Well (Report Irvation clearly and in accordance with any At surface 1150' FNL & 1450' FEL Lat. 36.	State requirements.*) .24529 N .107.89764 W	Bse	T.R.M. or Blk.and Sec. 9, T23N	
Distance in miles and direction from nearest town or post office.  Approx. 35-miles SE of Farming	ton, New Mexico		nty or Parish an Juan	13. State NM
Distance from proposed location to nearest property or lease line, ft. 1450~Feet (Also to nearest drig, unit line, if any)	16. No. of acres in lease 160.0-Acres	17. Spacing Unit ded	licated to this well Acres - (N/	′2)
R. Distance from proposed location* to nearest well, drilling, completed, Approx. 1400' applied for, on this lease, ft.	19. Proposed Depth 1095-Feet	20. BLM/BIA Bond On Fil	BIA Bond No. On File	
. Elevations (Show whether DF, KDB, RT, GL, etc.) G.L. 6599-Feet	22 Approximate date work will star ASAP		imated duration 5 - Days	
	24. Attachments			
ne following, completed in accordance with the requirements of Onshore  Well plat certified by a registered surveyor.  A Drilling Plan.  A Surface Use Plan (if the location is on National Forest System Lessure Supposed to the surface Use Plan (if the appropriate Forest Service Office).	4. Bond to cover the ltem 20 above). ands, the 5. Operator certific	de operations unless of ation specific information a	covered by an existing ind/or plans as may be	
5. Signature Kurt Fagnin	Name (Printed/Typed) Kurt Fagrel	ius	Date	1-8-2011
pproved by (Signature) Manles Love	Name (Printed/Typed)		Date	4/16/1
AFN.	Office			-
/ (/ /*)	1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	in the subject lease	which would entitle th	e annlicant to

\*(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. Fruitland coal will be perforated from approximately 918 - 944 feet.

The interval will be fracture stimulated.

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.



**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 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

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

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

1220 South St. Francis Dr. Santa Fe, NM 87505

OIL CONSERVATION DIVISION

AMENDED REPORT

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

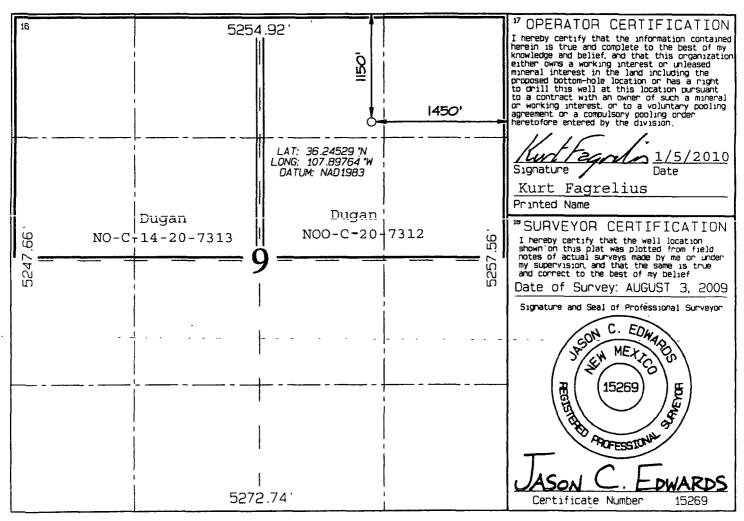
# WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Numbe	er	'Pool Code	. Pool Name	
30-045-3	5278	71629	BASIN FRUITLAND CO	DAL
*Property Code		, PL	operty Name	Well Number
39177	ST LOUIS COM			90
'OGRID No.		<b>"</b> 0p	erator Name	*Elevation
006515		DUGAN PRODU	CTION CORPORATION	6599 '

10 Surface Location

					- Surrace	Location			
Ut or lot no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	9	23N	10W		1150	NORTH	1450	EAST	SAN JUAN
	1	11 E	Bottom	Hole l	ocation I	f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
								<u></u>	<u> </u>
12 Dedicated Acres		0.0 Acre	ıs – (N	/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>25</sup> Order No.		
l					1		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 #90

#### APPROXIMATE FORMATION TOPS:

Total Depth	1095′
Pictured Cliffs	945′
Fruitland	635′
Kirtland	210′
Ojo Alamo	125'

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#	1095′	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 - 175-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-115-cu ft slurry).

Total cement slurry for production stage is 290-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.

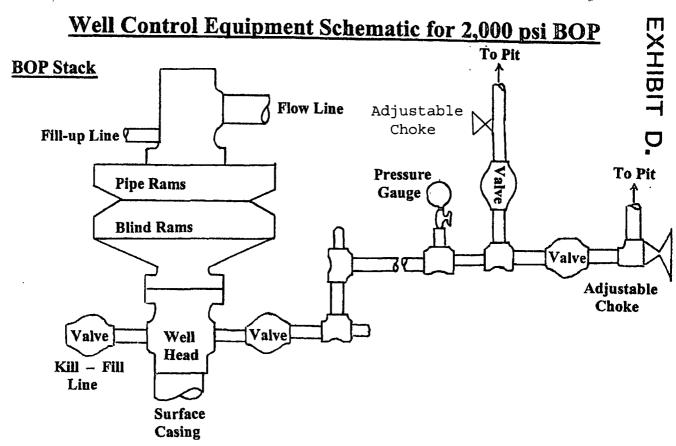
Fill-up line.

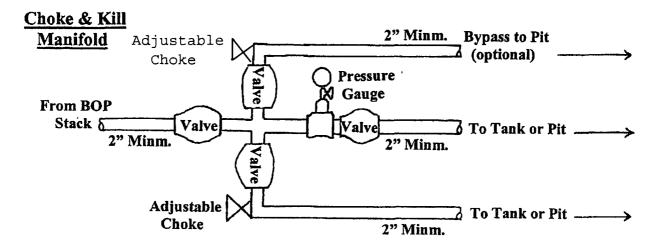
Working pressure for all BOPE will be 2,000 psi or greater.

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 #90

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