Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

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Lease Serial No.
NM - 2 E / 2 2

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BUREAU OF LAND MANA	AGEMENT WATER	Ł ZUI U Į	NM-25433	
APPLICATION FOR PERMIT TO		2.0	6. If Indian, Allotee or Trib	e Name
AFFEIGATION 1011 1011		in state		
a. Type of work: X DRILL REENTE	R	المراجعة	-7' If Unit or CA Agreement,	Name and No.
b. Type of Well: Oil Well X Gas Well Other	X Single Zone Multip	le Zone	8. Lease Name and Well No Sixteen G'S	
. Name of Operator Dugan Production Corp.			9. API Well No. 30-045-35	143
a. Address 709 East Murray Drive Farmington, NM 87401	3b. Phone No. (include area code) 505-325-1821		10. Field and Pool, or Explora Basin Fruitland (•
Location of Well (Report Irration clearly and in accordance with any	y Slate requirements.*) . 36.33228 N	đạt	11. Sec., T. R. M. or Blk. and Sec. 7, T24	•
At proposed prod. zone Same as above Long	g. 107.83704 W	V	NMPM	
4. Distance in miles and direction from nearest town or post office* Approx. 35-miles SE of Farming	gton, New Mexico		12. County or Parish San Juan	13. State NM
5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 17. Spacing Unit dedicated to this well 480.96 Acres 320.64 Acres - (N/2)			(N/2)
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 750'	19. Proposed Depth 1920-Feet		BIA Bond No. In File N M	-0140
1. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6862'	22. Approximate date work will star ASAP	t*	23. Estimated duration 5-Days	
	24. Attachments			
ne following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	tached to thi	is form:	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the S. Operator certific	ation specific info	ns unless covered by an existin	`
5. Signature Kurt Fear Line	Name (Printed/Typed) Kurt Fagrel	ius	Date 1/	6/2010
ille Geologist				
approved by (Signature) Man Reaco	Name (Printed/Typed)		Date	5/14/20
iile AFM	Office FFO			
	1 1 2 11 2 1 2 5			

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.

conduct operations thereon.

Conditions of approval, if any, are attached.

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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 1755 - 1770'. The

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

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

JUN 2 2 2010



^{*(}Instructions on page 2)

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

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

State of New Mexico

Energy, Minerals & Natural Resources Department Instructions on back

Submittee District Office
State Lease - 4 Copies

1220 South St. Francis DAY 04 2011 Santa Fe, NM 87505 Fee Lease - 3 Copies

AMENDED REPORT

FEMILIA DE CE WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code	Pool Name			
30-048-35143	71629	BASIN FRUITLAN	D COAL		
'Property Code	*Pr	operty Name	Well Number		
3838	SIX	90S			
'OGRID No.	*Op	erator Name	*Elevation		
006515	DUGAN PRODUCTION CORPORATION 6862'				
10 Constant Leading					

¹⁰ Surface Location

UL or lot no.	Section	IOMUSUJD	Hange	Fot Tou	Feet from the	North/South line	Feet from the	East/West line	County	
D	7	24N	9W		1290	NORTH	660	WEST	SAN JUAN	
		11 E	3ottom	Hole L	ocation I	f Different	From Surf	ace		ı
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
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Dedicated Acres ¹³ Joint or Infill M Consolidation Code ²⁵ Order No. 320.64 Acres - (N/2)

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 1332.54

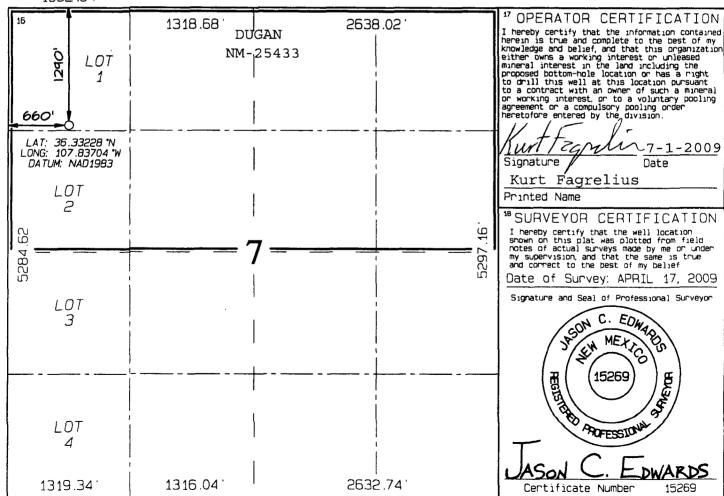


EXHIBIT B OPERATIONS PLAN

Sixteen G'S #90-S

APPROXIMATE FORMATION TOPS:

Total Depth	1920'
Pictured Cliffs	1770 '
Fruitland	1450 ′
Kirtland	1110′
Ojo Alamo	985 ′

Catch samples every 10 feet from 1650-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#	1920′	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:

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Surface: Cement to surface with 75-cf Class B + 2% CaCl₂. 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 - 341-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-225-cu ft slurry).

Total cement slurry for production stage is 566-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:

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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.

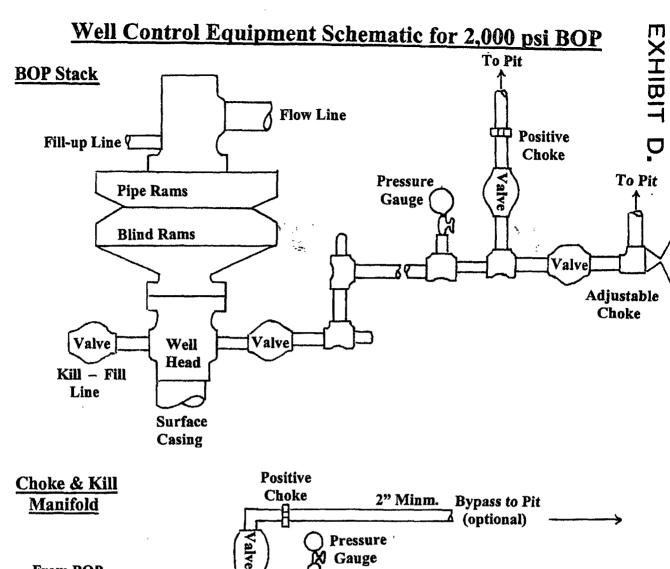
Fill-up line.

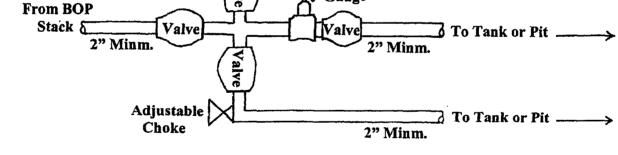
Working pressure for all BOPE will be 2,000 psi or greater.

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
3 27-3632 (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.
Sixteen G's #90-S