Form 3160-3 FORM APPROVED RCUD AUG 10'10 (April 2004) OMB No. 1004-0137 Expires March 31, 2007 LAY 04 2010 UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NM-97108 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7 If Unit or CA Agreement, Name and No. la. Type of work: X DRILL REENTER 8. Lease Name and Well No. lb. Type of Well: Oil Well X Gas Well Other X Single Zone Multiple Zone Sanchez O'Brien #90S 9. API Well No. Name of Operator API Well No. 30-045-35146 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 Isration clearly and in accordance with any State requirements.*) At surface 1500' FNL & 1250' FWL Lat. 36.34627 N LOS Sec. 6, T24N, R9W MMPM At proposed prod. zone Same as above Long. 107.83508 W 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* Approx. 35-miles SE of Farmington, New Mexico San Juan NM Distance from proposed 17. Spacing Unit dedicated to this well 16. No. of acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1250-Feet 925.93 Acres 324.60 Acres - (W/2)20. BLM/BIA Bond No. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 1940-Feet Approx. 750' On File 22. Approximate date work will start* 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) ASAP 5-Days GL-6818' 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). 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. 25. Signature Name (Printed/Typed) Kurt Fagrelius 1/6/2010 Title Geologist Approved by (Signatu Name (Printed/Typed) Title 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.

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 1770 - 1785'. The interval will be fracture stimulated.

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4

AUG 2 7 2010 NMOCI

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

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

TH.

^{*(}Instructions on page 2)

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

OIL CONSERVATION DIVISION 1220 South St. Francis DR

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

73

Santa Fe, NM 87505

AMENDED REPORT

MAY 04 2010

WELL LOCATION AND ACREAGE DEDICATION PLATFACE

'API Number	*Pool Code	Pool Name Name	
30.045.35146	71629	BASIN FRUITLAND COAL	
¹Property Code	*Proper	Well Number	
18166	SANCHEZ	905	
'OGRID No.	*Operator Name		*Elevation
006515	DUGAN PRODUCTI	6818	

¹⁰ Surface Location UL or lot no. Lot Idn North/South line East/West line County Feet from the NORTH E 6 24N 9W 1500 1250 WEST SAN JUAN ¹¹Bottom Hole Location If Different From Surface UL or lot no North/South line Feet from the Lot Idn County Sect 100 Feet from the East/West line 12 Dedicated Acres 13 Joint or Infill ¹⁵ Order Na. 4 Consolidation Code 324.60 Acres - (W/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

16	1250.70°	1320.00	2640.00	•	17 OPERATOR CERTIFICATION
1341.12	LOT <u>-009</u>	LOT 3	LOT 2	LOT	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-hole 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.
321.32'	1250' 10' LOT 5	LAT: 36.34627 N LONG: 107.83508 W DATUM: NAD1983			Signature Date Kurt Fagrelius Printed Name
	LOT	— — (5		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 Date of Survey. JUNE 19, 2009
2641.98	6 				SB48 SB WEXTEN MEXICO BY 15269 BY 15269
	LOT 7	Dugan NM-97108			TO A CONTRACTOR OF THE PROPERTY OF THE PROPERT
	1332.54	1318.68	2638.02	2 '	Certificate Number 15269

1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

JUN 18 2010

FORM APPROVED

Budget Bureau No 1004-0135

Expires March 31,1993

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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir

Lease Designation and Serial No NM-97108

	drill or to deepen or reentry to a different reservoir. R PERMIT -" for such proposals	6 If Indian, Allotted or Tribe Name
SUBMIT IN	I TRIPLICATE	,
1 Type of Weil Otl Well Well Well	Other	7 If Unit or CA, Agreement Designation
2 Name of Operator Dugan Production Corp.		8 Well Name and No Sanchez O'Brien #90S
3 Address and Telephone No P.O. Box 420, Farmington, NM 87499 (505) 325 - 1821	9 API Well No 30-045-35146
Location of Well (Footage, Sec, T, R, M, or Survey Description) 1500' FNL & 1250' FWL Sec. 6, T24N, R9W		10 Field and Pool, or Exploratory Area Basin Fruitland Coal
NMPM		11 County or Parish, State San Juan Co., NM
12. CHECK APPROPRIATE BOX(s) TO IND	ICATE NATURE OF NOTICE, REPORT, OR C	OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
X Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	☐ Plugging Back ☐	Non-Routine Fracturing

Completion or Recompletion Report and Log form) 13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)*

Casing Repair

Altering Casing

Other

Plan to change hole size and casing size as follows:

 \overline{X}

Hole Size Casing 11"

Casing Size and Weight

Alter hole size

and casing.

6-1/4"

Final Abandonment Notice

Surface

7", 20# set at 120-ft.

Production

4-1/2", 10.5# set at 1940-ft.

Water Shut-Off

Dispose Water

Conversion to Injection

(Note Report results of multiple completion on Well

Cement type and volumes will remain same as reported on original APD.

RCVD AUG 10'10 OIL CONS. DIV.

DIST. 3

14 I hereby	certify that the foregoing is true and correct				
Signed	Kurt Fagration	Title	VP Exploration	Date	June 18, 2010
(This space fo	Federal or State office ase				1 ,
Approved by	A)//ankeo) INO	SFM	Date	8/9/2010
Conditions of	approval, if any		2 (·	
Conditions of	approval, if any				

Title 18 U.S.C. Section 1001, makes 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

EXHIBIT B OPERATIONS PLAN

Sanchez O'Brien #90-S

APPROXIMATE FORMATION TOPS:

Total Depth	1940′
Pictured Cliffs	1787 '
Fruitland	1510 '
Kirtland	1055 '
Ojo Alamo	960 ′

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#	1940′	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% 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 - 345-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 570-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.

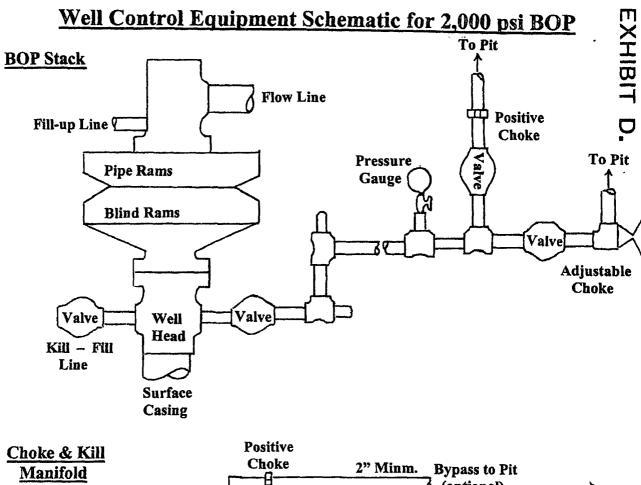
Fill-up line.

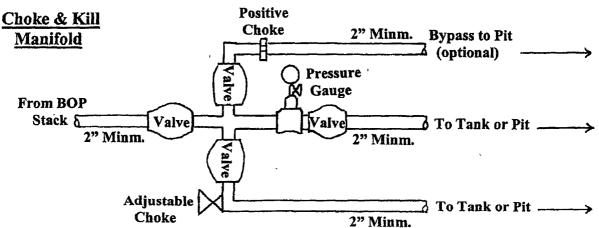
Working pressure for all BOPE will be 2,000 psi or greater.

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
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.Sanchez O'Brien #90-S