## GRIEFOSTACES DECACEMENTOS (MEDITEMOS MORALIOS LIPOTEMENTAS DEMERIT

RCVD OCTZ6'06 DIL CONS. DIV.

Porch Africa y grade in the fact that the formal properties and the fact that the fact

NM-97837

APPLICATION FOR PERMIT		16 Indian, Allones of Tabe Hame	
la Type a'l Works - 🔯 DRICL - 🗇 PEENTER.	2006 SEP 22 PFI 4	T. Walt of CV. Ageneman Name and N	
b. Type of Well: 📋 Oil Well 🛛 Gas Well 📋 Oil	RECEIVED  or Singly ZonFART Willian Zonb	(\$. Lease Hame and Well 1) Arviso #1	
Name of Operator Contact:	KURT FAGRELIUS E-Mail: kfagreflus@duganproduction.com	9. API Well Mo. 30-045-33943	
a. Address 709 EAST MURRAY DRIVE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.325.1821 Fx: 505.327.4613	10. Field and Pool, or Exploratory  Potwin Pictured Cliff:	
At surface 1475 FSL and 860 FWL,  At proposed prod. zone Same as above.	Lat. 36.33985 N	11. Sec., T., R., M., or Blk. and Survey or Area  Sec. 5, T24N, R8W  NMPM	
Distance in miles and direction from nearest town or post of Approx. 30-miles SE of Bloom	office* field, New Mexico	12. County or Parish 13. State San Juan Co. NM	
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	
860 Feet	160.0 Acres	SW/4-160.0 Acres	
Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on tile	
Not Applicable	2080 Feet	On File NM0140	
. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start ASAP	23. Estimated duration 7 - Days	
GL-6753	24. Attachments	, bays	
following, completed in accordance with the requirements of		shir Com.	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Off	item 20 above).  Em Lands, the 5. Operator certification	ons unless covered by an existing bond on file (see	
Signature Kurt Fagreling	Name (Printed/Typed) KURT FAGRELIUS	Date 9/22/0	
de GEOLOGIST			
oproved by (Signature)	Name (Printed/Typed)	Date	
the Atma AFM Munera	Office	1 6/25	
olication approval dees not warrant or certify the applicant ho nations thereon.  Iditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject le	ease which would entitle the applicant to conduct	
e 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n tes any false, fictitious or fraudulent statements or representati	nake it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction.	o make to any department or agency of the United	
A water based gel-mud will be Standard 2,000 psi BOP will be Sandstone will be completed fr	used to drill production ho	le. The Pictured Cliffs	

be fracture stimulated.

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

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

District IV PO Box 2088, Santa Fe, NM 87504-2088

36101

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

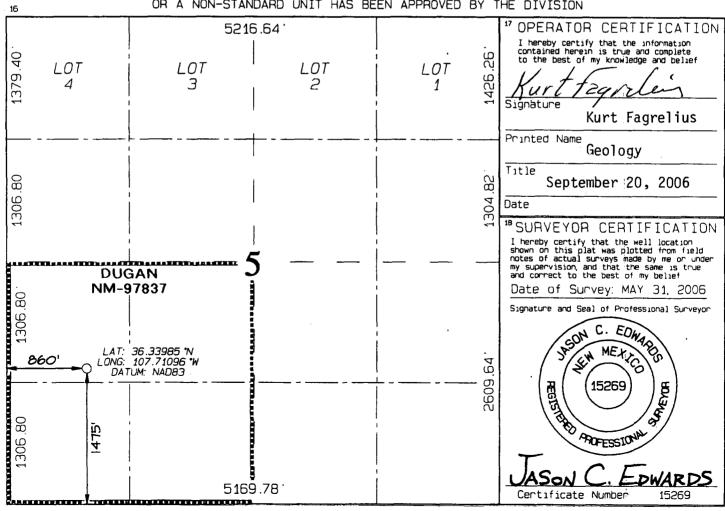
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

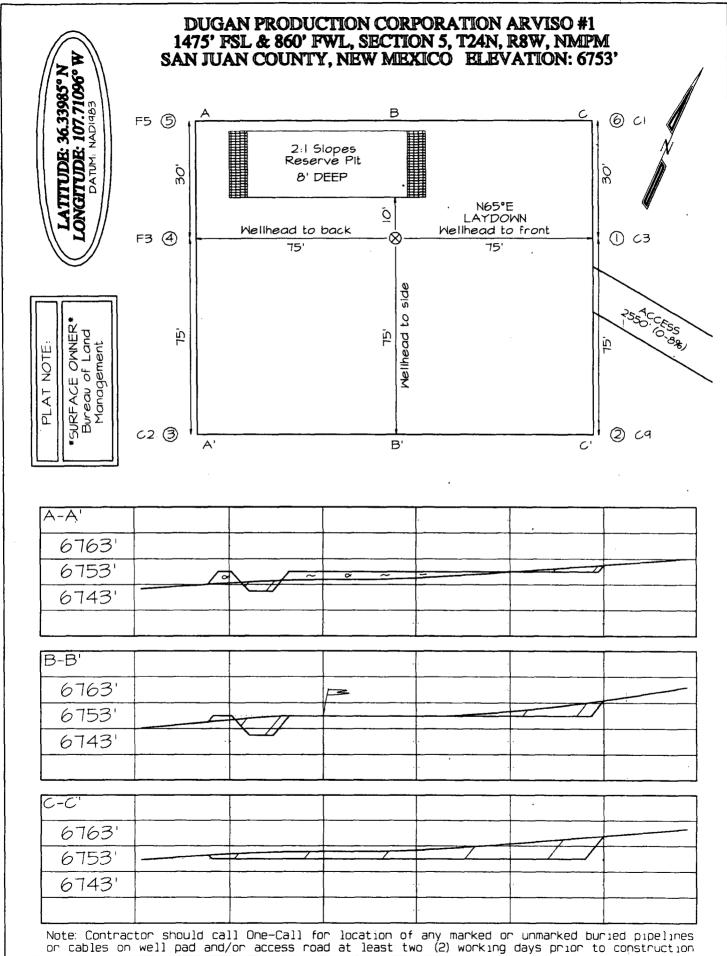
#### WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name 'API Number Pool Code 83000 POTWIN PICTURED CLIFFS 30-045-33943 Well Number Property Code Property Name **ARVISO** 1 'OGRID No. \*Operator Name Elevation

006515 DUGAN PRODUCTION CORPORATION 6753 <sup>10</sup> Surface Location UL or lot no Sect ion Township Lot Idn Feet from the North/South line County Feet from the East/West line 5 24N 8W 1475 SOUTH 860 WEST SAN JUAN <sup>11</sup>Bottom Hole Location If Different From Surface UL or lat no Sect ion Range Feet from the North/South line Feet from the County 12 Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No. 160.0 Acres - (SW/4)

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



Submit 3 Copies To Appropriate District Office District I State of New Mexico Energy, Minerals and Natural Resources	Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	WELL API NO. 30-045- 33943
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION 1220 South St. Francis D.	5. Indicate Type of Lease Federal XX
District III 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Federal NM-97837
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	Arviso
PROPOSALS.)  1. Type of Well: Oil Well Gas Well X Other	8. Well Number #1
2. Name of Operator Dugan Production Corp.	9. OGRID Number 006515
3. Address of Operator 709 East Murray Drive, Farmington, NM	10. Pool name or Wildcat Potwin Pictured Cliffs
4. Well Location  Unit Letter L . 1475' feet from the south line and	860 Seat Search West
Unit Letter L : 14/5 feet from the South line and Section 5 Township 24N Range 8W	NMPM County San Juan
11. Elevation (Show whether DR, RKB, RT, GR, etc.	
Pit or Below-grade Tank Application V or Closure	
Pit type DrillingDepth to Groundwater + 100 Distance from nearest fresh water well + 1000 Di	
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; (	
12. Check Appropriate Box to Indicate Nature of Notice	•
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WO	RILLING OPNS. P AND A
отнея: Reserve pit for drilling (lined) XX отнея:	
<ol> <li>Describe proposed or completed operations. (Clearly state all pertinent details, at of starting any proposed work). SEE RULE 1103. For Multiple Completions: A or recompletion.</li> </ol>	nd give pertinent dates, including estimated date ttach wellbore diagram of proposed completion
A water based gel-mud will be used to drill surface and Standard 2,000 psi BOP will be used to drill production Sandstone will be completed from approximately 1945' - fracture stimulated.	hole. The Pictured Cliffs
	•
I hereby certify that the information above is true and complete to the hest of my knowled grade tank has been/will be constructed or closed according to NMOCD guidelines [2], a general permit	ge and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE Kurt Tegrelin TITLE Geology	DATE 9/22/2006
Type or print name  Kurt Fagrelius kfagrelius@duganproduc E-mail address:	
For State Use Only	•
APPROVED BY: THE BUTY OIL A LAS INSP Conditions of Approval (if any):	ECTOR, DIST. B DATE OCT 2 6 2006



# EXHIBIT B OPERATIONS PLAN

Arviso #1

#### APPROXIMATE FORMATION TOPS:

Ojo Alamo	1175′	Pictured Cliffs	1943′
Kirtland	1245′		
Fruitland	1610′	Total Depth	2080'

Catch samples every 10 feet from 1850 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"	5-1/2"	14#	2080′	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" hole to total depth with gel-water mud program to test the Fruitland Coal; (15-1/2", 14#, 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 70 cf Class B + 2% CaCl<sub>2</sub>.

Circulate to surface.

Production Stage-Cement with 220 cf 2%Lodense with

%# celloflake/sx followed by 100 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 320 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 usable 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, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

### 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#.

BOP and Related Equipment will include for a 2000 psi system: (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 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.

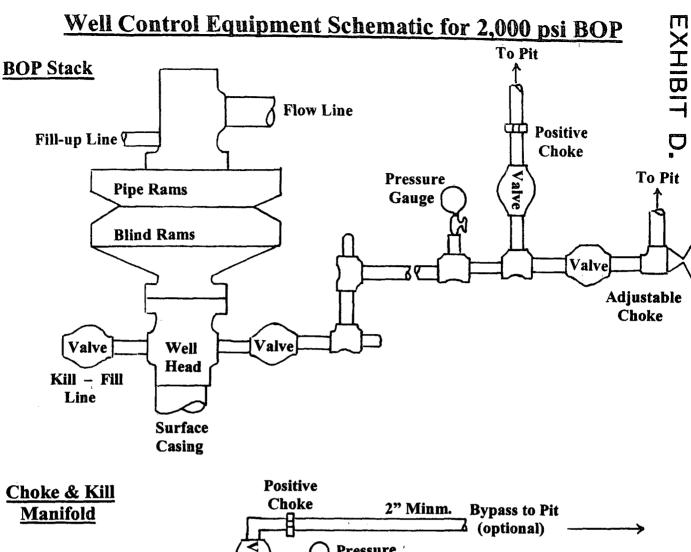
2" minimum choke line.

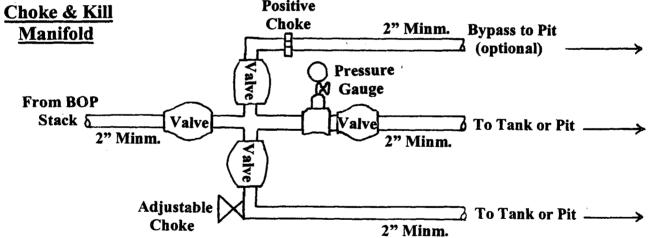
Fill-up line.

#### Contacts:

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

Mark	Brown	327-3632 320-8247	
Kurt	Fagrelius	325-4327	, ,
John	Alexander	320-8248 325-6927	
OOM	ATEXAIIGET	320-1935	





ŧ.

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

DUGAN PRODUCTION CORP.
ARVISO #1