RCVD FEB21'07

DIST. 3 31/0-3 April 2004) OMB No. 1004-0157 Expites Marca 31, 2007 2008 OCT 19 PM 2 UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NM-15654 BUREAU OF LAND MANAGEMENT 6: If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL CR REENTER I If Unit of CA Agreement, Name and No. DRILL REENTER la. Type of work: 8. Lease Name and Well No. lo. Type of Well: Oil Well & Gas Well Other Single Zone Multiple Zone Twiddlebug Com #90 9. API Well No. Name of Operator Dugan Production Corp. 30-045-*34016* 3b. Phone No. (include area code) 3a. Address 709 East Murray Drive, Farmington, NM 10. Field and Pool, or Exploratory 505-325-1821 Basin Fruitland Coal Location of Well (Report Isration clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk and Survey or Area f) Sec. 27, T24N, R10W At surface 1235' FNL & 785' FWL, Lat. 36.28822 N. Long. 107.88990 W. NMPM At proposed prod. zone Same as above 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office. Approx. 35-miles SE of Bloomfield, NM San Juan NM 15. Distance from proposed 16. No. of acres in lease 17. Spacing Unit dedicated to this well location to nearest 1398,22 Acres 785 Feet property or lease line, ft.
(Also to nearest drig, unit line, if any) N/2-320.0 Acres Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, it. 19. Proposed Depth 20. BLM/BIA Bond No. on file 1345' On File Approx. 2,700' 22. Approximate date work will start 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23 Estimated duration 7-Davs GL-6678' ASAP 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. ltem 20 above). 2 A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification 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. Name (Printed/Typed) 25. Signature 10-19-2006 Kurt Fagrelius Title Geology Approved by (Signatu Name (Printed/Typed) Title 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 hv IN TIME TO WITNESS COM A water based gel-mud will be used to drill surface and production casing hole.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

be fracture stimulated.



Coal will be completed from approximately (!!70') - 1190'. The interval will

Standard 2,000 psi BOP will be used to drill production hole.

The Fruitland

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

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico' Energy, Minerals & Natural Resources Department

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

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

PO Box 2088 Santa Fe, NM 8750462088

OIL CONSERVATION DIVISION

PA 2 58 r AMENDED REPORT

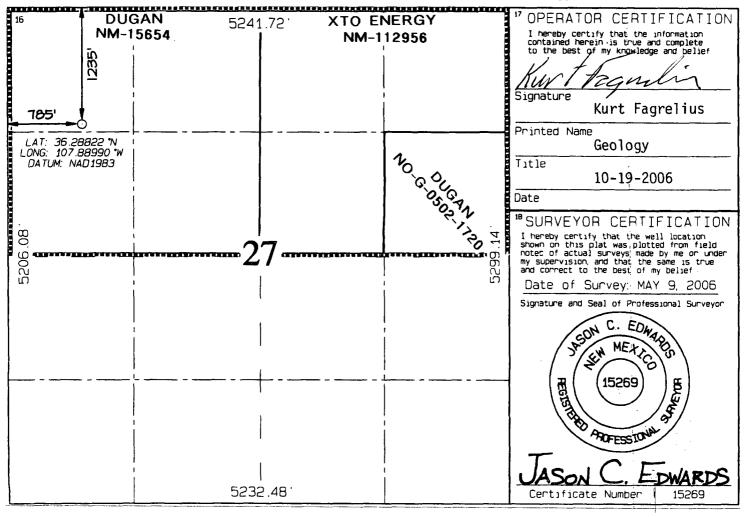
WELL LOCATION AND ACREAGE DEDICATION PLAT

AECEMIE

'API Number	*Pool Code	'Pool Name	
30-045-34016	7,1629	BASIN FRUITLAND COAL	
'Property Code	Property Name Well Number		
36332	TWID	DLEBUG COM 90	
'OGRID No.	* Op	perator Name "Elevation	
006515	DUGAN PRODUCTION CORPORATION 6678'		
	10 Sunf	aco Location	

					- Juli lace	LOCA CION			
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	24N	10W		1235	NORTH	785	WEST	SAN JUAN
¹¹ Bottom Hole Location If Different From Surface									
Ut or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Deducated Acres		0.0 Acre	s - (N	/2)	19 Joint or Infill	¹⁴ Consolidation Code	⁵⁵ Order No.		

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



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interior <u>Missouri</u> Particological de la companya de de la companya del companya de la companya del companya de la companya del companya de la companya del companya de la	bases of the monar tenural fresoners	WELL-PLD: 0.12.4
- Mariana - Mariana - Dog Wongson or a constructivi state	on Fot Shava label bly table	30-045- 340 (6
feister bi	Comment of Figure 1	Federal XX
to the mean of the Alexa (Althorne) — <u>[1884, A.]</u>	Space For CNER Ships	Some Office Control of the Control of the Control of Co
1200 S. S. Comel. Dr. Soma Per (181) 37505		Federal NM-15654
	CES AND PEPOPTS OF WELLS SALS TO DEBLOOR TO DESPENDENTS OF BARRIES	The ise Name or Lattingreenen Laine
DIFFERENT RESERVOIR, USÉ "APPLIC	ATION FOR PERMIT (FORM CHOLFOR SUCE	Twiddlebug Com
PROPOSALS. 1. Type of Well: Oil Well	Gas Well 👿 Other	8. Well (sumber #90
	an Production Corp.	9. OGRID Number 006515
3. Address of Operator	East Murray Drive, Farmington, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location		
Unit Letter D :	1235 feet from the north line and 78	s5 feet from the west line
Section 27	Township 24N Range 10W	NMPM County San Juan
an Mission	11. Elevation (Show whether DR; RKB, RT, GR, etc.) GL-6678	
Pit or Below-grade Tank Application 10	Closure \Box ter $+100$ Distance from nearest fresh water well $+1000$ Dista	+200 '
Pit type D7 1 1 119 Depth to Groundwa Pit Liner Thickness: 12 mil		struction Material Synthetic
12.0	ppropriate Box to Indicate Nature of Notice, I	
		•
NOTICE OF IN' PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	SEQUENT REPORT OF:
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE DRIL	LING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEMENT	JOB 📙
OTHER: Reserve pit for c	rilling (lined)	
of starting any proposed wo	eted operations. (Clearly state all pertinent details, and rk). SEE RULE 1103. For Multiple Completions: Atta	give pertinent dates, including estimated date ach wellbore diagram of proposed completion
or recompletion.		
A	d will be used to dwill sumfree	and production casing holo
A water based get Standard 2,000 ps	-mud will be used to drill surface i BOP will be used to drill product	ion hole. The Fruitland
Coal will be comp	oleted. The interval will be fractu	re stiumulated.
	,	
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and complete to the best of my knowledge losed according to NMOCD guidelines [7], a general permit [] o	and belief. I further certify that any pit or below-
SIGNATURE NINTTEG	TITLE Geology	DATE 10-19-2006
Type or print name Kurt Fagre	,	ction.com
For State Use Only	E-mail address:	Telephone No.
APPROVED BY:	TITLE THE CALL GALLE CAS	DATEB 23 2007
Conditions of Approval (if any):	- WW - IIIE	DAIS, 1- 1001

DUGAN PRODUCTION CORPORATION TWIDDLEBUG COM #90 1235' FNL & 785' FWL, SECTION 27, T24N, R10W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6678' 6 F3 FI (5) 2:1 Slopes Reserve Pit 30 8 8' DEEP SII°W ō LAYDOWN Wellhead to front Mellhead to back () FI -0- (4) 75' 75 FI 700' (0-8%) side 5 15 75. 币 Wellhead PLAT NOTE: 2 C5 3 B' A-A' 6689' 6679' 6669' B-B' 6689' 6679' 6669' C-C 6689' 6679' 6669'

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

EXHIBIT A DEVELOPMENTAL PLAN

Twiddlebug Com #90 Lease #NM-15654

Township 24 North, Range 10 West, NMPM Section 27, 1235' FNL - 785' FWL San Juan County, New Mexico

- 1. Existing roads are shown on Exhibit E. Plan to improve and maintain existing roads as required.
- 2. Planned access road(s) are shown on Exhibit E.

 A. New or reconstructed road(s), if any, were

centerline flagged at the time of location staking.
700' of new road construction is needed.

- 3. Location of existing wells is shown on Exhibit F.
- 4. Location of Existing and/or Proposed Facilities:

A. Existing facilities owned or controlled by Lessee/Operator are shown on Exhibit F.

- B. New facilities, in the event of production, are shown on Exhibit F. Construction materials and methods: Materials obtained on site; anticipated new production facilities are shown on Plat #1. Protective measures and devices to protect livestock and wildlife: As required.
- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed: As required.
- D. Pipeline will follow proposed road and will be 2092.8 feet in length (Plat 2). A 2" water and 4" gas pipeline will be constructed.
- Location and Type of Water Supply:
 - A. Location and type of water supply: Produced water.
 - B. Method of transporting water: Water truck.
 - C. Water well is not to be drilled on lease.
- 6. Source of Construction Materials:
 - A. Materials are to be obtained on site.
 - B. These materials are to be used as follows: Level location, build pits (Plat 3).
- 7. Methods for Handling Waste Disposal:
 - A. Waste materials will be contained/disposed of as follows:
 - 1) Cuttings: Reserve pit.
 - 2) Drilling fluids: Reserve pit.

EXHIBIT B OPERATIONS PLAN

Twiddlebug Com #90

APPROXIMATE FORMATION TOPS:

Total Depth	1345'
Pictured Cliffs	1195′
Fruitland	8 95 ′
Kirtland	490 ′
Ojo Alamo	405′

Catch samples every 10 feet from 1100 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#	1345′	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. 5-1/2", 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% CaCl₂. Circulate to surface.

Production Stage-Cement with 135 cf 2%lodense with

4# celloflake/sx followed by 85 cf Class "B" with

4# celloflake/sx.

Total cement slurry for production stage is 220 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.

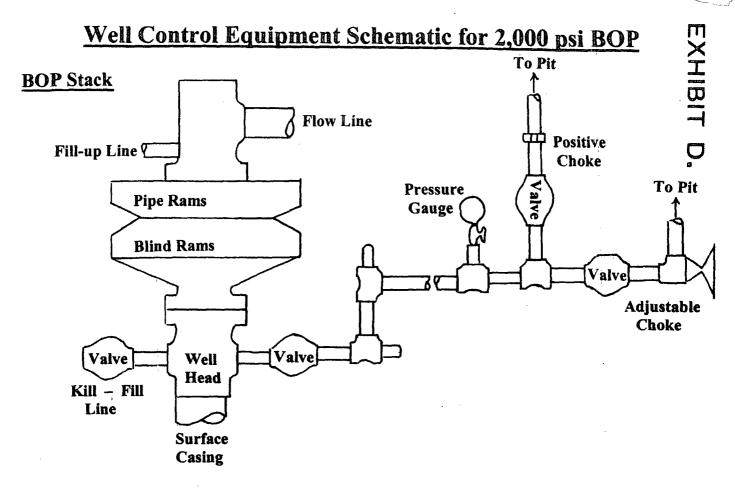
2" minimum choke line.

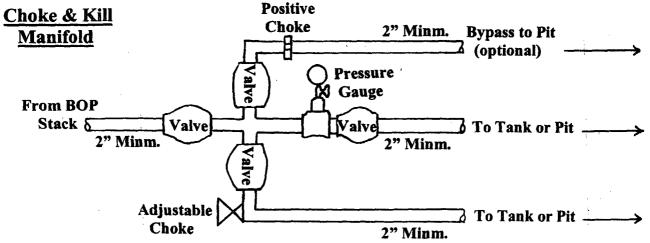
Fill-up line.

Contacts:

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

Mark Brown	327-3632 (H) 320-8247 (M)
Kurt Fagrelius	325-4327 (H) 320-8248 (M)
John Alexander	325-6927 (H) 320-1935 (M)





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

DUGAN PRODUCTION CORP.
TWIDDLEBUG COM #90