(August 1999)

FORM APPROVED OMB No. 1004-0136 pires November 30, 20

DDD - DC (E) T OF	OLAILO TITT DITTDIOD	
DEPARTMENT OF BUREAU OF LAND		5. Lease Serial No.
		NM-43442
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name
la. Type of Work: 🛛 DRILL 🔲 REENTER	MOT NOW OO . O.	7. If Unit or CA Agreement, Name and No.
	7005 NOV 23 AA 10 31	8. Lease Name and Well No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ C		Zoe #90
2. Name of Operator Contac DUGAN PRODUCTION CORP.	t: KURT FAGREHUS-D யூக்டு kipgje நெத்து நாற்றும் பும்றா. com	9. API Well No. 30-045- 33452
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
709 EAST MURRAY DRIVE FARMINGTON, NM 87401	Ph: 505.325.1821 Fx: 505.327.4613	Basin Fruitland Coal
4. Location of Well (Report location clearly and in accord	dance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface 1350' FSL and 1600' FWL At proposed prod. zone Same as above	., Lat. 36.1743, Long. 107.562	Sec. 19, T24N, R10W
14. Distance in miles and direction from nearest town or pos		12. County or Parish 13. State
. Approx. 8-miles SW of Bland		San Juan 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
1350 Feet	1271.56 Acres	W/2-311.56 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
Approx. 2600 Feet	1200 Feet	On File
21. Elevations (Show whether DF, KB, RT, GL. etc. GL - 6500	22. Approximate date work will start ASAP	23. Estimated duration 5-Days
	24. Attachments	
he following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to t	his form:
. Well plat certified by a registered surveyor.		ns unless covered by an existing bond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Systems SUPO shall be filed with the appropriate Forest Service O 	stem Lands, the Signature Stem Lands, the Item 20 above). 5. Operator certification 6. Such other site specific inf authorized officer.	ormation and/or plans as may be required by the
25. Signature Kurt Figure Live	Name (Printed/Typed) KURT FAGRELIUS	Date 11/22/05
Title GEOLOGIST		
Approved by Signatures	Name (Printed/Typed)	Date 3/0/V
The Contract		1/0/0
Title 1 1 10	Office	

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 1000' - 1025'. The interval will be fractured.

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 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-192 Revised February 21, 1994 Instructions on back Appropriate District Office

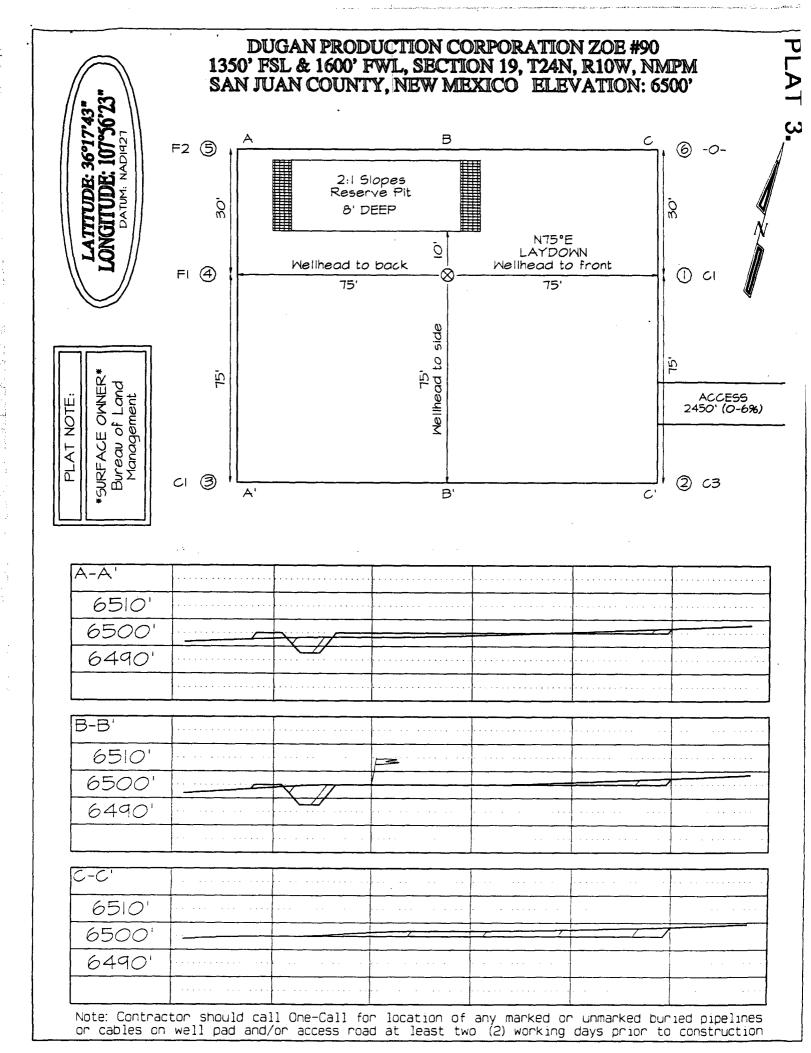
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

			WELL	LOCAT	ION ANI	D A	CREAGE DED:	ICATION F	LAT			
				*Pool Coo 71629	- (Pool Name BASIN FRUITLAND COAL				V		
Property 3549	Code	Property Name ZOE Well Number 90							_			
'0GRID 1 0065	i i	/		DUGAN		-	Name N CORPORATI	ON			Elevation 6500°	
					¹⁰ Sunfa	ace	Location					
UL or lot no.	Section 19	Township 24N	Range 10W	Lot Idn	Feet from		North/South line SOUTH	Feet from the		est line	SAN J	
		11 B	ottom	Hole L	ocatio	n I	f Different	From Sur	face			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/W	est line	Count	у
311.56 ACRES - W/2 Substitute Infill Consolidation Code Substitute No.												
NO ALLOW	IABLE W						ON UNTIL ALL EN APPROVED			EEN CC	NSOL IDA	TED
15 1252.68 DUGAN 1337.16 NM-43442					267 ₄	4.32 ' 	I here contai	by certify need herein best of my ure Kul	that the is true a	IFICAT information and complete ge and belie	}	

Geology Title Nov. 7, 2005 LOT 2 Date 18 SURVEYOR CERTIFICATION I nereby 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. 5268.12 Survey Date: SEPTEMBER 26, 2005 Signature and Seal of Professional Surveyor LOT 3 SEON C. EDWARD SEN MEXICO 1600 PESTS TOTAL PROFESSIONAL 350 LOT 4 1255.32 1311.42 2622.18 Certificate Number

Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103 May 27, 2004
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	WELL API NO. 30-045-
1501 W. Gland Ave., Altesia, 1414 00210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease Federal
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No. NM-43442
	ND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)		Zoe
1. Type of Well: Oil Well Gas W	ell Other	8. Well Number 90
2. Name of Operator Dugan Produ	ction Corp.	9. OGRID Number 006515
3. Address of Operator 709 East M	urray Drive, Farmington, NM	10. Pool name or Wildcat Basin Fruitland Coal
4. Well Location	O couth	1600
Unit Letter K : 135 Section 19	feet from the file and	1600 feet from the West line
	Township 24N Range 10W Reyation (Show whether DR, RKB, RT, GR, etc.)	NMPM County San Juan
	GL-6500'	
Pit or Below-grade Tank Application A or Closur Pit type Drilling Depth to Groundwater +1	டிப் 00 $ extbf{D}$ distance from nearest fresh water well ± 1000 $ extbf{D}$ is	stance from nearest surface water +200 '
1 12		onstruction Material Synthetic
	priate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENT		SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG	G AND ABANDON 🔲 REMEDIAL WOR	RK 🔲 ALTERING CASING 🗌
	NGE PLANS	:ILLING OPNS.□ PAND A □
Reserve nit for dril	ling (lined) ¥	
OTHER:	MI OTHER:	d give pertinent dates, including estimated date
		ttach wellbore diagram of proposed completion
A vistary based wall will	d	
Standard 2.000 psi B	d will be used to drill surfac OP will be used to drill produ	ce and production casing noie. Action hole. The Fruitland
Coal will be complet	ed from approximately 1000' -	1025'. The interval will
be fractured.		
I hereby certify that the information above igrade tank has been/will be constructed or closed a	is true and complete to the best of my knowledge coording to NMOCD guidelines (1), a general permit	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE KUrt FEGIN	TITLE Geology	DATE 11/7/2005
Type or print name Kurt Fagrel,	Kfagrelius@duganp E-mail address:	oroduction.com Telephone No. 325-1821
For State Use Only		000
APPROVED BY: Conditions of Approval (if any):	TITLE SEPUTY OIL & GAS I	NEFECTOR, DEST. SEDATE MAR US 200



Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31,1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
NM 43442

6. If Indian, Allotted or Tribe Name

	USE APPI		ERMIT - for such propo	sais		
		SUBMIT IN T	RIPLICATE			
1. Type of We	11					7. If Unit or CA, Agreement Designation
	Oil Well	Gas Well	Other			
2. Name of Op						8. Well Name and No.
Dugan Pi	roduction Corp.					Zoe #90
-	d Telephone No.					9. API Well No.
	420, Farmington, NM	87499 (50	5) 325 - 1821		l l	30 045 33452
	ell (Footage, Sec., T., R., M., or Sui					10. Field and Pool, or Exploratory Area
1350' FS	L & 1600' FWL (NE/4 S	:W/4)				Basin Fruitland Coal
	ec. 19, T24N, R10W, N	•			l l	11. County or Parish, State
	· · · · · · · · · · · · · · · · · · ·				1	San Juan, NM
12. CHE	CK APPROPRIATE BC	X(s) TO INDIC	ATE NATURE OF NO		RT, OR OT	
	TYPE OF SUBMISSION			TYPE OF		
\mathbf{K}	Notice of Intent		Abandonment			Change of Plans
	Cultura munut Damant		Recompletion			New Construction
Ш	Subsequent Report		☐ Plugging Back ☐ Casing Repair		_	Non-Routine Fracturing
	Final Abandonment Notic	_	Casing Repair Altering Casing		=	Water Shut-Off Conversion to Injection
ш	Tital Abandoninent Notic		Other		=	Dispose Water
						(Note: Report results of multiple completion on Well
13. Describe P	roposed or Completed Operations (CI	early state all pertinent de	tails, and give pertinent dates, includ	ing estimated date o		Completion or Recompletion Report and Log form.) sed work If well is directionally drilled,
	Casing program will	be changed as	follows:			2005 07
		Hole Size	Casing Size	Wt./ft.	Setting	0 0
	Surface casing	11"	8-5/8"	24#	120'	□ DJ-55=
	Production casing	7"	5-1/2"	14#	1200'	√ J-55€
	All coment volumes	will remain the s	same and be circulated	to surface	W P P W II	Con a contract of the contract
	All cement volumes	wiii remain the s	ame and be circulated	1300	210	. 5
				ico ia	MAR 200	
				[Z] @		
14. I hereby	certify that the foregoing is true and	соггест		160	يد . خيه الاليار	
	1/1/	/.) D.	200
Signed	Kurt Fago	Kurt Fagrelius	Geole Geole	ogist	Date O	12/13/2005
(This space for	r Federal or State office use)		,			1 /
Approved by	A)Man	lieter Til	· AFM	•	Date	3/8/06
	approval, if any:		-6			

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

Zoe #90

APPROXIMATE FORMATION TOPS:

Total Depth	1200′
Pictured Cliffs	1025′
Fruitland	685 ′
Kirtland	265′
Ojo Alamo	175′

Catch samples every 10 feet from 950 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
9-7/8"	7"	20#	120'	J-55
6-1/4"	4-1/2"	10.5#	1200'	J-55

Plan to drill a 9-7/8" hole and set 120' of 7" OD, 20#, J-55 surface casing. Then plan to drill a 6-1/4" hole to total depth with gel-water mud program to test the Fruitland Coal. 4-1/2", 10.5#, 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 70 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 120 cf 2%lodense with

%# celloflake/sx followed by 65 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 185 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 7"x4-1/2" casing head, 1000# WP, tested to 2000#. Huber 4-1/2"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.

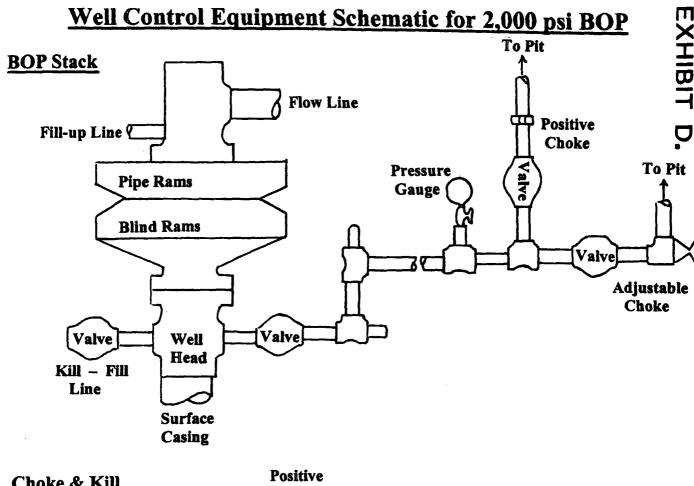
2" minimum choke line.

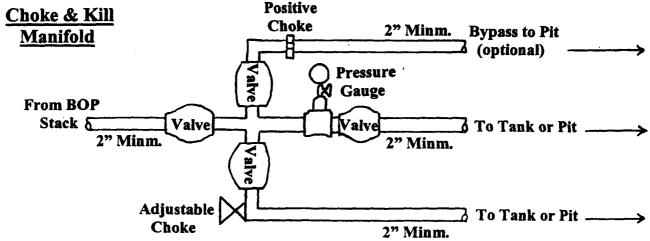
Fill-up line.

Contacts:

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

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





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

DUGAN PRODUCTION CORP.

Zoe #90