Form 3160-3 (August 1999)

UNITED STATES

Expires November 30, 200		FORM APPROVED OMB No. 1004-0136 Expires November 30, 200
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DEPARTMENT OF		1	,
BUREAU OF LAND		5. Lease Serial No.	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name
1a. Type of Work: ☑ DRILL ☐ REENTER	— — — — Y/V Filial gen, I	7. If Unit or CA Agreement.	Name and Ma
18. Type of work:		7. If Unit of CA Agreement,	Name and No.
		8. Lease Name and Well No.	
	ther: CBM Single Zone Multiple Zone	LISBON 90-S	
2. Name of Operator Contact DUGAN PRODUCTION CORP.	E KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30045	32261
3a. Address 709 EAST MURRAY DRIVE	3b. Phone No. (include area code) Ph: 505.325.1821	10. Field and Pool, or Explore BASIN FRUITLAND (atory
FARMINGTON, NM 87401	Fx: 505.327.4613	BASIN'I KOTTEAND C	DOAL
4. Location of Well (Report location clearly and in accord	lance with any State requirements.*)	11. Sec., T., R., M., or Blk. at	nd Survey or Area
At surface NENW 750FNL 1905FWL	36.50010 N Lat, 108.16490 W Lon	Sec 11 T30N R14W N	Mer NMP
At proposed prod. zone	72345	SME: BLM	
14. Distance in miles and direction from nearest town or pos APPROX. 5-MILES NORTH AND WEST OF F.		32. County or Parish SAN JUAN	13. State NM
15. 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 Con 2000	Spacing Unit dedicated to	this well
750'	356.52	316.52 W/2	
 Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 	, 19. Proposed Depth	20/ BLM/BIA Bond No. on fi	ile
APPROX. 1500'	1930 MD	and the second second	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6082 GL.	22. Approximate date work will start 01.00000000000000000000000000000000000	23. Estimated duration 7-DAYS	
	24. Attachments		
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	ons unless covered by an existing	bond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy 			
SUPO shall be filed with the appropriate Forest Service C	Office). 6. Such other site specific in authorized officer.	formation and/or plans as may be	required by the
25. Signature Kind for	Name (Printed/Typed) KURT FAGRELIUS		Date
25. Signature Kurt Feyrelius	KURT FAGRELIUS		04/01/2004
Title / GEOLOGIST			
Appropriate Signed: Stephen Mason	Name (Printed/Typed)		Date AUG 0 4 2004
Title	Office		
Application approval does not warrant or certify the applicant loperations thereon. Conditions of approval, if any, are attached.	l nolds legal or equitable title to those rights in the subject le	ase which would entitle the appli	icant to conduct
** **	make it a arime for any narrow browningh, and a WE U.	males to any det	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 States any false, fictitious or fraudulent statements or represent	ations as to any matter within its jurisdiction.	, make to any department or ager	ncy of the United

Additional Operator Remarks:

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 1650' -1775'. 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-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

PO Box 2088.	Santa Fe,	, NM 87504-	2088								
	API Numbe	er	WELL	LOCAT		CREAGE DED	ICA	TION PL			•
30-06	C-37	261		71629	4	ВА	SIN	FRUITLA		AL	
Property 297	Code.				*Property	-				• We	90S
'OGRID				DUCAN	*Operator					•E	levation
0065:	15					ON CORPORAT:	LUN				6082
UL or lot no.	Section	Township	Range	Lot Idn	10 Surface	Location Morth/South line	Fe	et from the	East/Ne:	st line	County
С	11	30N	14W		750	NORTH		1905	WES		SAN JUAN
	1	11 B	ottom	Hole (ocation I	f Different	Fr	om Surfa	ace		,
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fe	et from the	East/Nes	it line	County
12 Dedicated Acres		.52 Acre	es – (W	1/2)	³⁰ Joint or Infill	¹⁴ Consolidation Code	²⁵ Orde	ır No.			-
NO ALLOW	WABLE W	ILL BE A	SSIGNED NON-ST	TO TH	IS COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTI BY	ERESTS HA	AVE BEI	EN CON	SOLIDATED
. 30.08	262: 1 905 '	9.44	0 10 90-S		262 _OT 2	8.78 · LOT 1	231.56	I hereby contained	certify therein is	hat the i	FICATION Information d complete and belief
LOT	4	LO	T 3	<u> </u>				Signature Printed N	Kun Jame		relius
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1320.00		 				004	1320	Date 18 SURVE	YOR C	ERTI	FICATION
		1		11				liotes or ac	ion, and t	eys made that the :	l location ed from field by me or under same is true y belief.
					Se le constant de la			Survey Signature a	Date: o	JANUAF f Profess	Y 5, 2004 ional Surveyor
2640.00°	90				41 4	noignanaT C	2640.00	/	SON C.	16	STATE SON
	DUGAN	1000			1	ECEVEI	- Landania	TAS S	AL C	SSION	
	NM-7		526	60.86		<u> </u>	J	Certific	ate Num		WARDS 15269

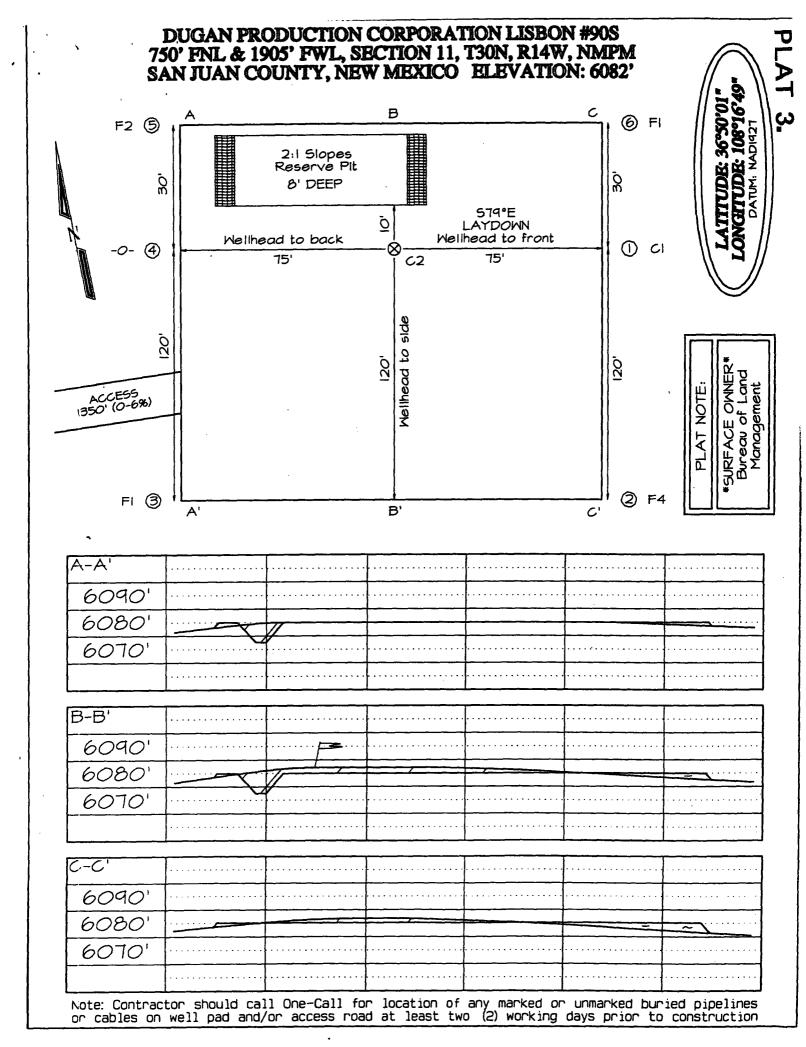


EXHIBIT B OPERATIONS PLAN

Lisbon #90-S

APPROXIMATE FORMATION TOPS:

Ojo Alamo	Surface	Pictured Cliffs	1775′
Kirtland	180′	Total Depth	1930'
Fruitland	1410′	_	

Catch samples every 10 feet from 1600 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 <i>"</i>	5-1/2"	14#	1930′	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 and Pictured Cliffs Sandstone. 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 75 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 200 cf 2%Lodense with %# celloflake/sx followed by 100 cf Class "B" with %# celloflake/sx.

Total cement slurry for production stage is 300 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.

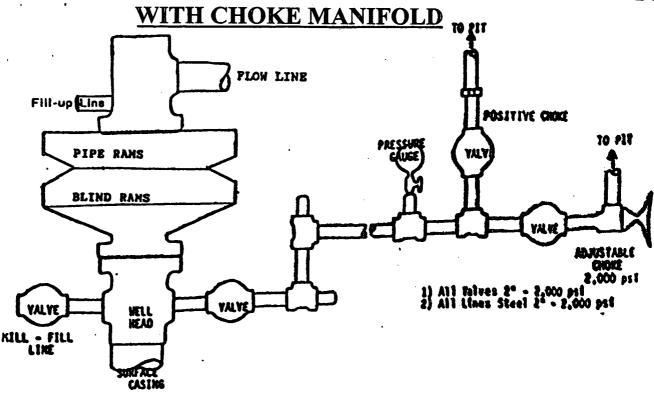
Fill-up line.

Contacts:

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

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

EXHIBIT D.



BOP DIAGRAM

BOP and Related Equipment will include for a 2000 poi system:

2000 PSI DOUBLE RAN BLOWOUT PREVENTER

Kill line (2" misimum)

l kill line valve (2" minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with headle available

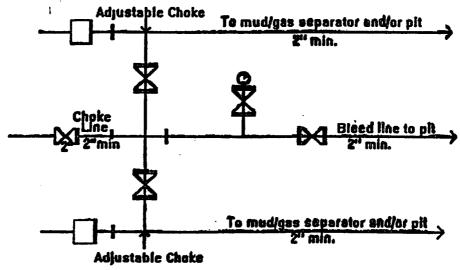
Safety valve and subs to fit all drill string coanections in use

Pressure gauge on choke manifold

2" minimum choke line

7111-up list above the upperment preventer

BOP equipment will be tested as required in Section III A.1 of Onshore Order 2, plus a 30% safety factor.



2M Choke Manifold Equipment - Configuration May Very

DUGAN PRODUCTION CORP.

LISBON #90-S