Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

5.	Lease Serial No.
	NM-17781

	SENTED 3: 5 (K. If Indian Allattee or Tri	
APPLICATION FOR PERMIT TO DRILL OR RE		be Name
ia. Type of Work: 🛛 DRILL 🔲 REENTER	7. If Unit or CA Agreemen	it, Name and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other: CBM ☒ Sin	8. Lease Name and Well N PAUL REVERE 93-S	lo.
2. Name of Operator Contact: KURT FAGRELIUS DUGAN PRODUCTION CORP. E-Mail: kfagrelius@duga		3/976
3a. Address 3b. Phone No. (includence of the control of the contr	1 BASIN FRUITLAND	
4. Location of Well (Report location clearly and in accordance with any State requi	rements.*) 11. Sec., T., R., M., or Blk	. and Survey or Area
At surface SENW 2150FNL 1375FWL 36.28300 N Lat, 10 At proposed prod. zone	08.12360WI667 Sec 22 T26N R13W	V Mer NMP
14. Distance in miles and direction from nearest town or post office* APPROX. 12-MILES NW OF CARSON TRADING POST, NM	SAN JUAN 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) 1375' 16. No. of Acres in Lease line, ft. (Also to nearest drig. unit line, if any) 1760.00	ease 7. Spacing Unit dedicated	to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROX. 1500' 19. Proposed Depth 1450 MD	20. BLM/BIA Bond No. of	n file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6187 GL 22. Approximate date 04/18/2004	e work will start 23. Estimated duration 5-DAYS	
24. Att	achments	
ne following, completed in accordance with the requirements of Onshore Oil and Gas C	Order No. 1, shall be attached to this form:	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).	 Bond to cover the operations unless covered by an existing litem 20 above). Operator certification Such other site specific information and/or plans as may authorized officer. 	· ·
25. Signature Kurt Fagrelin Name (Printed/Typed KURT FAGREI		Date 10/16/2003
GEOLOGIST		
Approved by (Signature) (Since Co. Name (Printed/Typed))	Date /-5-0
Title AEM Office FFC		
oplication approval does not warrant or certify the applicant holds legal or equitable title erations thereon. onditions of approval, if any, are attached.	e to those rights in the subject lease which would entitle the ap	pplicant to conduct
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any pates any false, fictitious or fraudulent statements or representations as to any matter with	erson knowingly and willfully to make to any department or a thin its jurisdiction.	gency of the United
	11/1	
HOLD C16	M FOR IV SI.	

Additional Operator Remarks:

A water bassed 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 1250' - 1290'. The interval will be fractured.

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

Fraction is subject to technical and procedural review pursuant to 43 CFR 3165. and appeal pursuant to 43 CFR 3165.4



PO Box 1980, Hobbs, NM ,98341-1980

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

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

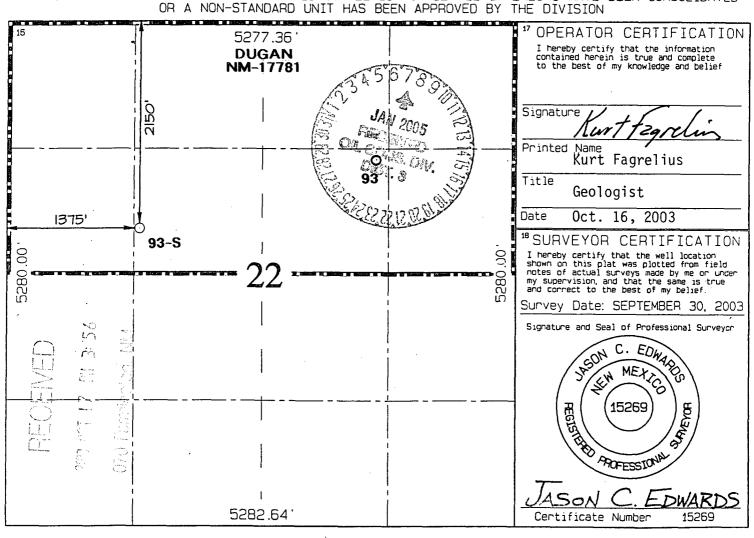
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

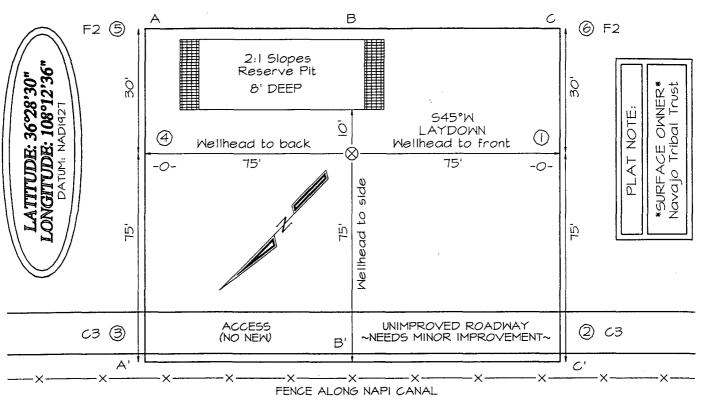
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number Pool Code			ie		'Pool Nam	e				
3004	5-31	1916		71629)	BA	SIN FRUITL	AND CO	AL	
'Property	Code				³Property	Property Name			⁴Well Number	
3619				-	PAUL REVERE					93S
'OGRID I	٧٥.				•Operator	Name	*Elevation			levation
00651	.5			DUGAN	PRODUCTIO	ON CORPORATI	[ON			6187
¹⁰ Surface Location										
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
F	22	26N	13W		2150	NORTH	1375	WES	ST	SAN JUAN
¹¹ Bottom Hole Location If Different From Surface										
UL or lot na.	Sect ion	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
				Lt						
¹² Dedicated Acres).O Acre	s - (N	/2)	¹³ Joint or Infill	³⁴ Consolidation Code	¹⁵ Order No.			
NO ALLOW	ADLE 1 4	TI DE A	CCTCNC) TO TU	TC COMOLETT	ON	THEOLOGIC			

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



DUGAN PRODUCTION CORPORATION PAUL REVERE #93S 2150' FNL & 1375' FWL, SECTION 22, T25N, R13W. NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6187'



6197' 6187' 6177' B-B' 6197' 6187' 6177'				 	
6187' 6177' B-B' 6197' 6187' 6177' C-C' 6197' 6187'	A-A'	 		 	
6177' B-B' 6197' 6187' 6197' 6197' 6187'	6197'	 	• • • • • • • • • • • • • • • • • • • •	 	
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6187'	B-B'	 		 	
6177' C-C' 6197' 6187'	61971	 		 	
C-C' 6197' 6187'	61871	 -			
6197'	6177'			 	
6197'		 		 ,	
6197'					
6187'	C-C'	 		 	
	6197'	 		 	
6177'	6187'			7	
	6177'	 , , , , , , ,		 	

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 B OPERATIONS PLAN Paul Revere #93-S

APPROXIMATE FORMATION TOPS:

Ojo Alamo	105′	Pictured Cliffs	1305′
Kirtland	185′		
Fruitland	1000′	Total Depth	1450′

Catch samples every 10 feet from 1200 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#	1450′	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 142 cf 2%Lodense with

%# celloflake/sx followed by 78 cf Class "B" with
%# 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 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.

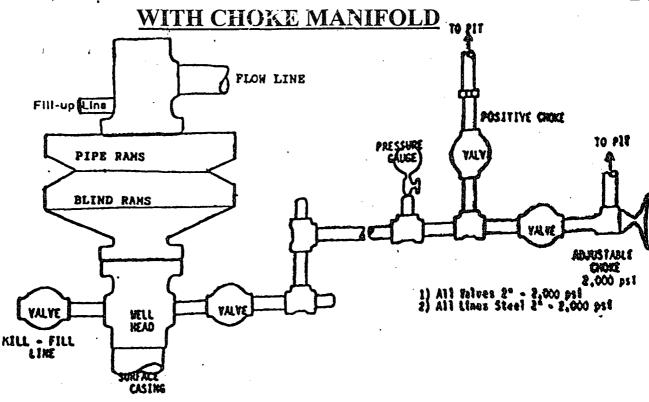
2" minimum choke line.

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	



BOP DIAGRAM

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

2000 PSI DOUBLE RAM BLOWOUT PREVENTER

Kill line (2" misimum)

l kill line valve (2" minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available

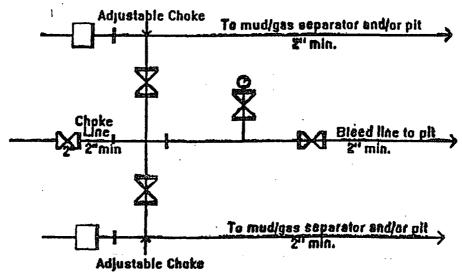
Safety valve and subs to fit all drill string connections in use

Pressure gauge on choke manifold

2" minimum choke line

Fill-up like above the uppermost 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 Vary

DUGAN PRODUCTION CORP.

PAUL REVERE #93-S