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Form 3160-3	71. J. B		FORM APPRO		
(Adgust 1999)	PTC C		OMB No. 1004-		
UNITED STAT	EDITEDION 03 APR 1	4 AM 10: 20	Expires November 2	50, 2000	
DEPARTMENT OF THE	E INTERIOR	JUERQUE, N.M.	Jicarilla Contra	ot #105	
BUREAU OF LAND MAN			6. If Indian, Allottee or Trib		
APPLICATION FOR PERMIT TO	DRILL OR REENTER		Jicarilla Apach		
la. Type of Work: X DRILL RE	ENTER		7. If Unit or CA Agreement,		
			8. Lease Name and Well No		
b. Type of Well: Oil Well Gas Well Other	Single Zone	Multiple Zone	Jenny #1	В	
2. Name of Operator A Gordillera Energy	gy, Inc.		9 API Well No. 9-2	7781	
3A. Address	3b. Phone No. (include area co	7 N	10. Field and Pool, or Explor	• •	
c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402		4892	Basin DK/Blanco Mesa Verde		
4. Location of Well (Report location clearly and in accordance with	h any State requirements.*)	465 C	11. Sec., T., R., M., or Blk, a	nd Survey or Area	
At surface 1970' FNL and 1970' FEL	£ (D4W	
At proposed prod. Zone 4. Distance in miles and direction from nearest town or post office	·		Sec. 13, T26N	13. State	
21 miles south of I	,	(C)	Rio Arriba	NM	
15. Distance from proposed*	16. No. of Acres in lease	17.≥Spacing Unit de	I	<u> </u>	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	320+	CITE	320 acres E/2		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1200'	19. Proposed Depth 8020'	20. BLM/BIA Bond	nd No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work w	rill start*	23. Estimated duration		
6882' GL	June 1, 2	003	3 weeks		
	24. Attachments				
The following, completed in accordance with the requirements of Or	nshore Oil and Gas Order No. 1,	shall be attached to th	is form:		
1. Well plat certified by a registered surveyor.	4. Bond to c	over the operations u	nless covered by an existing bor	nd on file (see	
2. A Drilling Plan.	Item 20 al	oove).			
3. A Surface Use Plan (if the location is on National Forest System	Lands, th 5. Operator c	ertification.			
SUPO shall be filed with the appropriate Forest Service Office.	6. Such other authorized	-	on and/or plans as may be requi	red by the	
25. Signature	Name (Printed/Typed	<i>t</i>)	Date		
Paul C. Thomps-	Pau	l C. Thompson,	P.E	4/8/03	
Title	Agent				
Approved by (Signature)	Name (Printed/Typed	d)	Date		
/s/ David R. Sitzler	1		; JUN	1 6 2004	

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.

Office

Conditions of approval, if any, are attached.

Assistant Field Manager

Title 18 U.S.C. Section 1001and 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.

Title

^{*(}Instructions on reverse)

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 Departme

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	LUCA1.	LUN	AND AL	CHEAGE DEL)1CA I	10N PL	Αl		
	API Number											
30-039-2778 / 72319 \ 71599 BLANCO MESAVERDE \ BASIN DAKOTA												
'Property	Code	*Property Name *Well Number										
3401	D	JENNY 1B										
'OGRID				0.00		*Operator		,				levation
17325	2	CORDILLERA ENERGY, INC. 6882				P885						
							Location					
UL or lot no.	Section	Township	Ranga	Lot Idn]	from the	North/South line	1	t from the	East/We:		County RIO
G	13	26N	4W		1	970	NORTH		1970	EA:	5 I	ARRIBA
F			Bottom	Hole L	_ocat				om Surf		·	
UL or lot no.	Section	Township	Range	Lot Idn	Feet	from the	North/South line	Fee	t from the	East/We	st line	County
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12 Dedicated Acres		0.0 Acre	es – (8	E/2)	~ Joint	or Infill	¹⁴ Consolidation Code	¹⁵ Orde	r No.			:
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CORDILLERA ENERGY, INC. OPERATIONS PLAN Jenny #1B

Date: April 7, 2003

I. Location: 1970' FNL & 1970' FEL.

Sec 13, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK Elev: GL 6882'

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #105

II. Geology: Surface formation Nacimiento

Α.	Formation Tops	Depths
	Ojo Alamo	
	Kirtland	
	Pictured Cliffs	3355'
	Cliff House	5275 '
	Menefee	5425 ′
	Point Lookout	5640 ′
	Greenhorn	7680 ′
	Graneros	
	Dakota	7770 ′
	Total Depth	8020 ′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 3355', 5275', 5640', 8020'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well. Max. BHP = 2500 psiq.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The intermediate hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

The production hole will be drilled with air or air/mist.

Jenny #1B Operations Plan Pg #2

C. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

Α.	Casing Program:			
•	Hole Size	Depth	Casing Size	Wt. & Grade
	12-1/4"	250 ′	9-5/8"	36# J-55

8-3/4" 3655' 7" 20# J-55 6-1/4" 8020' 4-1/2" 11.6# N-80

B. Float Equipment:

- a) Surface Casing: Notched collar on bottom and 3 centralizers on the bottom 3 joints.
- b) Intermediate Casing: 7" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Ten centralizers spaced every other joint above shoe and ten turbolizers every other joint from 1500'.
- c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

Jenny #1B Operations Plan Pg #3

V. Cementing:

Surface casing: 9-5/8" - Use 140 sx (165 cu. ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Intermediate Casing: 7" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 460 sx (961 cu.ft) of Type III 65/35 poz with 8% gel, 1% CaCl₂, %#/sk. Celloflake. (Yield = 2.09 cu.ft./sk; slurry weight = 12.1 PPG). Tail with 100 sx (139 cu.ft.) of Type III with 1% CaCl₂, %#/sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1100 cu.ft. (100% excess to circulate cement to surface). WOC for 12 hrs. Pressure test the BOP and casing to 1500 psi.

Production Casing: 4-1/2" - Blow hole clean. Precede cement with 20 bbls of gel water and 10 bbls of water. Lead with 295 sx (584 cu.ft.) of Premium Lite HS with 0.65% FL-52, 0.32% CD-32, $\frac{1}{4}$ #/sk celloflake, and 4% phenoseal. (Yield = 1.98 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (196 cu.ft.) of Premium Lite HS with 0.65% FL-52, and 0.32% CD-32. (Yield = 1.96 cu.ft./sk; slurry weight = 12.5 PPG). Total cement volume is 780 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.

Cordillera Energy, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



