

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

03 APR 14 AM 10:21

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>Jicarilla Contract #101</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>Jicarilla Apache Tribe</b>
2. Name of Operator <b>Latina Cordillera Energy, Inc.</b>		7. If Unit or CA Agreement, Name and No.
3a. Address <b>c/o Walsh Engineering, 7415 E. Main, Farmington, NM 87402</b>		8. Lease Name and Well No. <b>Jicarilla C #1C</b>
3b. Phone No. (include area code) <b>(505) 327-4892</b>		9. APL Well No. <b>30-039-27783</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>2380' FNL and 2070' FEL</b> At proposed prod. Zone		10. Field and Pool, or Exploratory <b>Basin DK/Blanco Mesa Verde</b>
14. Distance in miles and direction from nearest town or post office* <b>21 miles south of Dulce, NM</b>		11. Sec., T., R., M., or Blk, and Survey or Area <b>6 Sec. 11, T26N, R4W</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>570'</b>	16. No. of Acres in lease <b>320+</b>	17. Spacing Unit dedicated to this well <b>320 acres E/2</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1000'</b>	19. Proposed Depth <b>8255'</b>	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>7110' GL</b>	22. Approximate date work will start* <b>June 1, 2003</b>	23. Estimated duration <b>3 weeks</b>

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 operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan.   | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature <i>Paul C. Thompson</i>	Name (Printed/Typed) <b>Paul C. Thompson, P.E.</b>	Date <b>4/8/03</b>
Title <b>Agent</b>		
Approved by (Signature) <b>/s/ David R. Sitzler</b>	Name (Printed/Typed)	Date <b>JUN 16 2004</b>
Title <b>Assistant Field Manager</b>		
Office		

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 reverse)

FILED 0104 FOR **NSL**

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-039-27783</b>		*Pool Code 72319 \ 71599	*Pool Name BLANCO MESAVERDE \ BASIN DAKOTA
*Property Code <b>24044</b>	*Property Name JICARILLA C		*Well Number 1C
*GRID No. <b>173252</b>	*Operator Name CORDILLERA ENERGY, INC.		*Elevation 7110'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	11	26N	4W		2380	NORTH	2070	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 320.0 Acres - (E/2)					13 Joint or Infill Y	14 Consolidation Code		15 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

<div>16</div> <div>11</div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Paul C. Thompson</i> Signature PAUL C. THOMPSON Printed Name AGENT Title 4/8/03 Date</p>
	<div>18 SURVEYOR CERTIFICATION</div> <p>I hereby 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.</p> <p>Date of Survey: MAY 8, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <div><p><b>JASON C. EDWARDS</b> Certificate Number 15269</p></div>

CORDILLERA ENERGY, INC.  
OPERATIONS PLAN  
Jicarilla C #1C

I. Location: 2380' FNL & 2070' FEL                      Date: April 8, 2003  
              Sec 11, T26N, R4W  
              Rio Arriba County, NM

Field: Blanco MV & Basin DK                              Elev: GL 7110'  
Surface: Jicarilla Apache Tribe  
Minerals: Jicarilla Contract #101

II. Geology: Surface formation \_ San Jose

<u>A. Formation Tops</u>	<u>Depths</u>
Ojo Alamo	3195'
Kirtland	
Pictured Cliffs	3585'
Cliff House	5505'
Menefee	5655'
Point Lookout	5865'
Greenhorn	7910'
Graneros	7985'
Dakota	8075'
Total Depth	8255'

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

Water and gas - 3585', 5505', 5865', 8075'.

B. Logging Program: Induction/GR and density logs at TD.

C. No over pressured zones are expected in this well. No H<sub>2</sub>S zones will be penetrated in this well. Max. BHP = 2500 psig.

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.

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

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
12-1/4"	250'	9-5/8"	36# J-55
8-3/4"	3885'	7"	20# J-55
6-1/4"	8255'	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'.

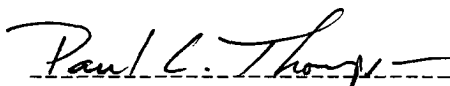
c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

V. Cementing:

**Surface casing: 9-5/8"** - Use 140 sx (165 cu. ft.) of C1 "B" with 2%  $\text{CaCl}_2$  (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 495 sx (1035 cu.ft) of Type III 65/35 poz with 8% gel, 1%  $\text{CaCl}_2$ , 1/4#/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%  $\text{CaCl}_2$ , 1/4#/sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1174 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, 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.

EXHIBIT 1  
**Cordillera Energy, Inc.**

**Well Control Equipment Schematic for 2M Service**

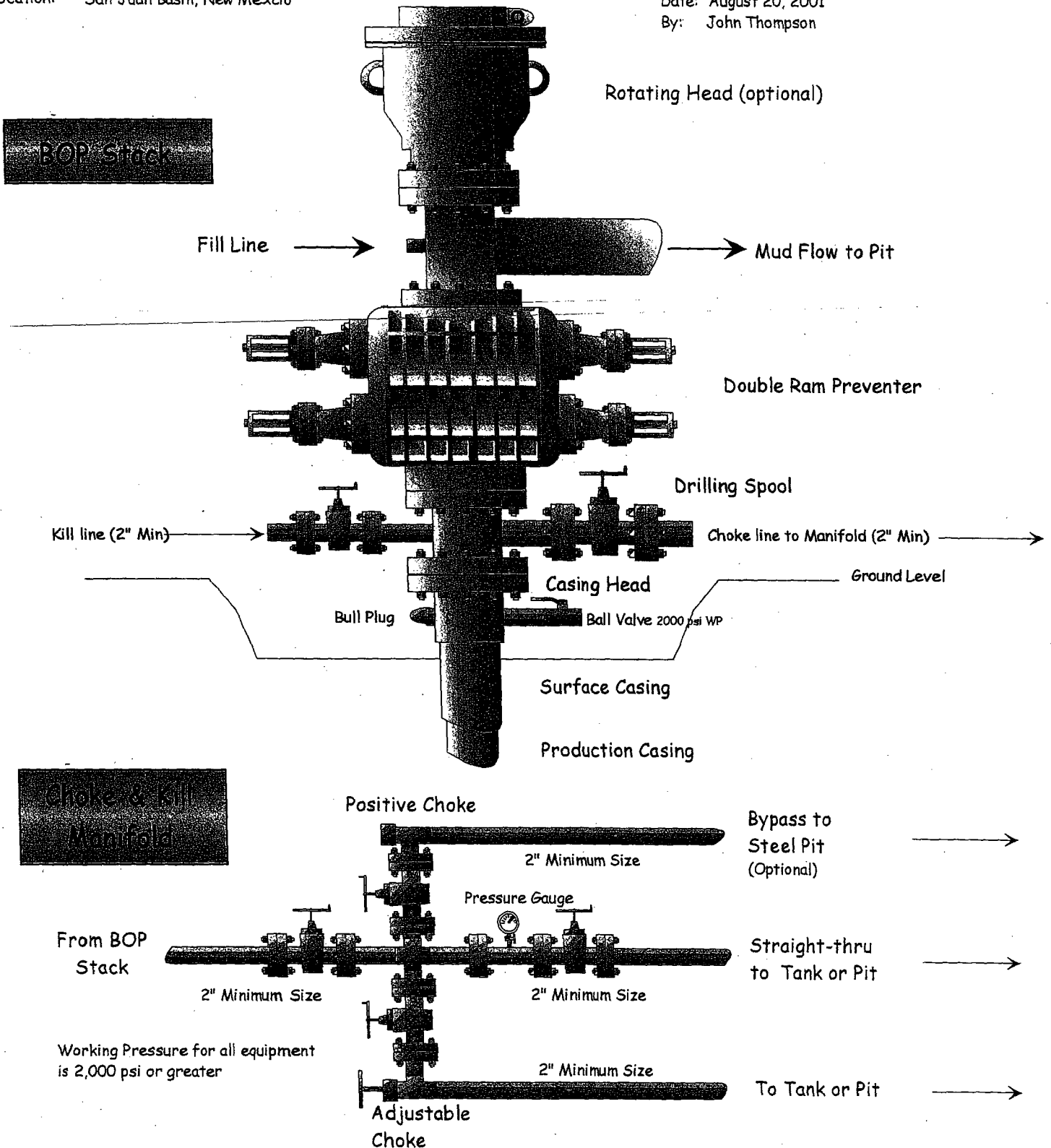
Attachment to Drilling Technical Program

**Typical BOP setup**

Location: San Juan Basin, New Mexico

Date: August 20, 2001

By: John Thompson



**CORBILLERA ENERGY, INC. JICARILLO A C #1C**  
**2380' FNL & 2070' FEL, SECTION 11, T26N, R4W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO GROUND ELEVATION: 7110'**

