Form 3160-3 (May 1999)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED

UNITED STATES DEPARTMENT OF THE INTERIOR

	* 0544.17 (1144 . 1144				
	OMB 1004-0136				
	Expires: May 31, 2000				
5. LEASE DESIGNATION AND SERIAL NO.					

BUI		Jicarilla Contract #101					
APPLIATION !		TEE OR TRIBE NAME					
APPLICATION		Jicarilla Apache Tribe					
1a. TYPE OF WORK DRILL	7. UNII AGREEMEN	7. UNIT AGREEMENT NAME 24056					
16. TYPE OF WELL	_		ACTIV COUNT IS		8. FARM OR LEASE NAME, WELL NO.		
MEIT OIL	X OTHER	SINGLE ZONE	MULTIPLE ZONE	X McIn	itrye #1B	•	
NAME OF OPERATOR Cordillera Ener	gy, Inc.	13752	CALCALLA CONTROL OF THE PARTY O	9. APIWELLNO.	039.77	13/6	
3. ADDRESS OF OPERATOR			**	10. FIELD AND POO			
c/o Walsh Engineering, 7415 E	E. Main St. Farmington,	NM 87402 (505) 327-	4892	\ Basin Dako	ta/Blanco MV		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							
At Surface 1280' FSL and	660' FWL	F 6	. 3	[최] [
At proposed Prod. Zone	•	₽ ç⇔		M Sec.	11, T26N, R4W		
Same			A STATE OF THE STA	s/ '' '			
4. DISTANCE IN MILES AND DIRECTION FROM NE 21 miles south		₹°	, v	12. COUNTY OR PA	rish Arriba	13. STATE NM	
21 MILES SOUTH		16. NO. OF ACRES IN LEASE	VOCE CON	17. NO. OF ACRES ASSIGN		12 12 1/2	
OR LEASE LINE, FT.(Also to nearest drlg, unit line, i		1	Calla Valla				
660'		320+			320 acres		
 DISTANCE FROM PROPOSED LOCATION* TO N DRILLING, COMPLETED, OR APPLIED FOR ON 1 		19. PROPOSED DEPTH		20. ROTARY OR CABLE TO	OOLS		
1200'		8025	•	Rota	Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE	22. APPROX. DATE WORK WILL START*		
6819' GR				Aug	ust 1, 2002	·	
23.	,	SING AND CEMENTING PRO	<u> </u>				
SIZE OF HOLE 12-1/4"	GRADE, SIZE OF CASING 9-5/8"	36# J-55	<u> </u>	165 m ft C	QUANTITY OF CEMENT		
8-3/4"	7"	20# J-55	3890' +/-		165 cu ft. Cl "B" w/ 2% CaCl ₂ 1035 cu.ft. lead & 139 cu.ft. tail		
6-1/4"	4-1/2"	20# J-33 11.6#, N-80	8025' +/-		ead & 196 cu.ft. ta		
Cordillera Energy, Inc. proposes to drill a vertical well to develop the Basin Dakota and Blanco Mesa Verde formations at the above described location in accordance with the attached drilling and surface use plans. This location has been archaeologically surveyed by Valarde Energy Service. Copies of their report have been submitted directly to your office. Velarde Energy Service has also performed a T&E survey and prepared an EA. Copies of their reports have been submitted directly to your office. The wellpad, access road, and pipeline will be located on Jicarilla Apache land. An on-site inspection was held on 6/24/02.							
IN ABOVE SPACE DESCRIBE PROPOSED F If proposal is to drill or deepen directionally, giv					75 55		
stigned Taylor	Trongs -	me Paul	Thompson, Agent	DATE	7/3/0	02	
(This space for Federal or State office use)							
PERMIT NO.		APPROVAL DATE					
Application approval does not warrant or certify that t	he applicant holds legal or equitable title to th		title the applicant to conduct operation	s thereon.			
Assistant Field Manager Approved by/s/ Steven W. AndersonDivision of Multi-Resources FEB 1 2 2000							
— 	*See In	structions On Reverse	Side				

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 t to Appropriate District Office

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

AMENDED REPORT

			WELL	LOCAT	ION AND A	ACREAGE DEDI				
'API Number 'Pool Code 72319 \ 7				-	Pool Name BLANCO MESAVERDE \ BASIN DAKOTA				$\cap T \Lambda$	
30-039-27316 72319 \ 7				Property Name Mc INTYRE			⁵Well Number 1B			
'OGRID N 17325	opor acor mano						*Elevation 6819'			
					¹⁰ Surface	Location				
UL or lot no.	Section 11	Tawnship 26N	Range 4W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	ŀ	st line ST	County RIO ARRIBA
			ttom	Hole L	ocation]		From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
12 Dedicated Acres 320.0 Acres - (W/2) 33 Joint or Infill 4 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										
16			52	297.16		15 21 22 23 A	I hereby contained to the Signature Paul Printed	certify d herein : pest of my e	that the i	d complete e and belief

Title 7/3/02 JICARILLA Date CONTRACT #101 18 SURVEYOR CERTIFICATION 5280.00 00 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. 5280. Date of Survey: MAY 8, 2002 Signature and Seal of Professional Surveyor SON C. EDWARDS EN MEXICO ARCESSIONAL PROFESSIONAL 660' 5290.561 Certificate Number 15269

CORDILLERA ENERGY, INC. OPERATIONS PLAN McIntyre #1B

I. Location: 1280' FSL & 660' FWL

Sec 11, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #101 Date: July 3, 2002

Elev: GL 6819'

II. Geology: Surface formation Nacimiento

Α.	Formation Tops	Depths	A. Son Jose Surface Nacimiento - 1772
	Ojo Alamo		The same of the same
	Kirtland		Macimianto - 127)
	Pictured Cliffs	3490'	Ojo Alano - 262 -
	Cliff House	5185 ′	Ojo Alano - 2962 -
	Menefee	5320 ′	•
	Point Lookout	5615 ′	men Toe - 1222'
	Greenhorn	7655 ′	100 - (303
	Graneros	7700 ′	
	Dakota	7805 ′	
	Total Depth	8025 ′	

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

Water and gas - 3490', 5185', 5615', 7805'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H₂S 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.

McIntyre #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

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
12-1/4"	250 '	9-5/8 "	36# J-55
8-3/4"	3890 ′	7"	20# J-55
6-1/4"	8025 ′	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.

McIntyre #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 495 sx (1035 cu.ft) of Type III 65/35 poz with 8% gel, 1% $CaCl_2$, 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% $CaCl_2$, 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 275 sx(545 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 741 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.