Form 3160-3 (May 1999)

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side) HAUTED STATES

FORM APPROVED OMB 1004-0136 Expires: May 31, 2000

	CINITED STATE	.0				
DEP	5. LEASE DESIGNATION AND SERIAL NO.					
В	Jicarilla Contract #5	7				
				6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION	FOR PERMIT TO DE	RILL, DEEPEN, OR PL	UG BACK	Jicarilla Apache Trii	be	
	LX DEEPEN			7. UNIT AGREEMENT NAME		
TIPEOT WORK						
. TYPE OF WELL				8. FARM OR LEASE NAME, WELL NO.		
OIL OIL	X OTHER	SINGLE ZONE	MULTIPLE ZONE	)		
NAME OF OPERATOR  Cordillera En	ergy, Inc.	whene	113252	9. API WELLING. 30-039-2	7661	
ADDRESS OF OPERATOR		<u> </u>	61897	10. FIELD AND POOL OR WILDCAT		
o Walsh Engineering, 7415	E. Main St. Farmington	, NM 87402 (505) 327	-4892 A	Basin Dakota/Blanco M	7	
LOCATION OF WELL (Report location of	•		first the same of	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At Surface 1980' FSL an	d 1980' FEL	[ ;	MAR 2004			
proposed Prod. Zone			RECEIVED 57	Sec.5, T26N, R3N	V	
Same			-Corriging of			
4. DISTANCE IN MILES AND DIRECTION FROM		Per .	DIST. 8 3	12. COUNTY OR PARISH	13. STATE	
21 miles sout	h of Dulce, NM	(C)		Rio Arriba	NM_	
<ol> <li>DISTANCE FROM PROPOSED* LOCATION TO OR LEASE LINE, FT. (Also to nearest drig, unit in</li> </ol>		16. NO. OF ACRES IN LEASE	200 - 200	7. NO. OF ACRES ASSIGNED TO THIS WELL		
660'	ис, ш шту)	320	369585 S.	W/2 320 acres		
8. DISTANCE FROM PROPOSED LOCATION* TO	ONEAREST WELL,	19. PROPOSED DEPTH	2	0. ROTARY OR CABLE TOOLS		
DRILLING, COMPLETED, OR APPLIED FOR C						
1500' 8370'				Rotary		
1. FLEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX DATE WORK WILL START*		
7190' GR		<del></del>		August 1, 2002		
23.	PROPOSED C	ASING AND CEMENTING PR	OGRAM	<u> </u>		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF C		
12-1/4"	9-5/8"	36# J-55	250' +/-	165 cu ft. Cl "B" w/ 2%	CaCl <sub>2</sub>	
<i>8-3/4</i> "	7"	20# J-55	4200' +/-			
6-1/4"	4-1/2"	11.6#, N-80	8370' +/-	554 cu.ft. lead & 196 cu	ft tail	

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.

			e Maria de la compansión de la compansió
		epen or plug back, give data on present productive zone and proposed new productive zone. cations and measured and true vertical depths. Give blowout preventer program, if any.	
signed Par	16 Thomps	THE Paul Thompson, Agent DATE	7/3/02
(This space for Federal	or State office use)		
PERMIT NO.		APPROVAL DATE	
Application approval d		e to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
APPROVED BY	/s/ David R. Sitzler	Acting Assistant Field Manager	MAR 4 2004
	***	a Instructions On Bayeres Cide	

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Depart

Form C-102 Revised February 21, 1994 Instructions on back

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

Certificate Number

15269

District II PO Drawer DD, Artesia, NM 88211~0719

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

AMENDED REPORT

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

			WELL	LOCATI	ON ANI	) A (	CREAGE DEDI	CAT	ION PL	.ΑΤ		
30-039-1-766/ 72319 \ 71599			POOL NAME BLANCO MESAVERDE \ BASIN DAKOTA									
Property Code Property TRIBA				•								
'OGRID N	500071 - 504 50											
					<sup>10</sup> Sunfa		Location					
UL or lot no.	Section 5	Township 26N	Range 3W	Lot Idn	Feet from		North/South line	1	t from the	East/WE WE	ST	RIO ARRIBA
			ottom		ocatio				m Surf			
UL or tot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Fee	t from the	East/We	est line	County
<sup>12</sup> Dedicated Acres	320	).O Acres	s – (N	1/2)	13 Joint or I	nfill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order	No.			
NO ALLOW	IABLE W	ILL BE AS	SSIGNE NON-ST	D TO TH	IS COMPL UNIT HA	LETI S BE	ON UNTIL ALL	INTE BY T	ERESTS H	HAVE BE	EN CON	SOLIDATED
5280.00		RILLA CT #97		5 	AN CAN COLOR	201 R 201 L 201 L 201 L 201		5280.00	I hereby contained to the store to the store to the store signature. Signature Title 7/Date 18 SURV I hereby shown on notes of my supervand correspond to signature.	re l C.  Name Agent  3/02  EYOR certify the this plate this plate the the foundation, and cert to the foundation and Seal	Thomp:  CERTI  Thomp:  CERTI  That the we was plotted that the best of mey:  MEXICO  5269	FICATION Il location ed from field by me or under same is true y belief. CH 12, 2002 Sional Surveyor

5280.001

### CORDILLERA ENERGY, INC. OPERATIONS PLAN Tribal C #5B

I. Location: 1980' FSL & 1980' FWL Date: July 3, 2002

Sec 5, T26N, R3W

Rio Arriba County, NM

Field: Blanco MV & Basin DK

Elev: GL 7190'

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #97

II. Geology: Surface formation Nacimiento

A.	Formation Tops	Depths
	Ojo Alamo	
	Kirtland	
	Pictured Cliffs	3810'
	Cliff House	5555 <b>′</b>
	Menefee	5700 <b>′</b>
	Point Lookout	6025 <b>′</b>
	Greenhorn	8000 <b>′</b>
	Graneros	
	Dakota	8100 <b>′</b>
	Total Depth	8370 <b>′</b>

A-San Dose - Surface Nacimiento 1578' Ojo Alamo 3268'

men TOC (1528')
100' into Surface CSG)

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

Water and gas - 3810', 5555', 6025', 8100'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No  ${\rm H}_2{\rm S}$ 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.

Tribal C #5 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 <b>′</b>	9-5/8"	36# J-55
8-3/4"	4200 <b>′</b>	7"	20# J-55
6-1/4"	8370 <b>′</b>	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.

Tribal C #5B Operations Plan Pg #3

## V. Cementing:

Surface casing: 9-5/8" - Use 140 sx (165 cu. ft.) of Cl "B" with 2% CaCl<sub>2</sub> (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 540 sx (1129 cu.ft) of Type III 65/35 poz with 8% gel, 1%  $CaCl_2$ , 14/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%  $CaCl_2$ , 14/sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1268 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 280 sx(554 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 750 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.