Form 3160-3 (May 1999)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

UNITED STATES

5. LEASE DESIGNATION AND SERIAL NO.	_
Expires: May 31, 2000	
OMB 1004-0136	
FORM APPROVED	

	REAU OF LAND MANA			Jicarilla Contract # 1	101	
APPLICATION	EOR PERMIT TO D	RILL, DEEPEN, OR PL	IIG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAM Jicarilla Apache Tri	_	
	<u></u>		DACK	7. UNIT AGREEMENT NAME		
TYPE OF WORK DRILL	LX DEEPEN				2404	
TYPE OF WELL				8. FARM OR LEASE NAME, WELL NO.	0.107	
OIL OIL	X OTHER	SINGLE ZONE	MULTIPLE ZONE	X Jicarilla C #1B		
AME OF OPERATOR		72200		9. API WEIL NO.	0731-	
Cordillera Ene	ergy, Inc.	13030			7315	
DDRESS OF OPERATOR		37 607 100 (505) 007	1004	10. FIELD AND POOL OR WILDCAT	•••	
Walsh Engineering, 7415	-		-4892	Basin Dakota/Blanco M	<u> </u>	
OCATION OF WELL (Report location cle Surface 2170' FSL and		te requirements.*)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
proposed Prod. Zone	1120 1.131			Sec. 11, T26N, R	4W	
Same				J. 500. 11, 1201, 11	.,,,	
DISTANCE IN MILES AND DIRECTION FROM 1	NEAREST TOWN OR POST OFFICE*			12. COUNTY OR PARISH	13. STATE	
	of Dulce, NM			Rio Arriba	NΜ	
DISTANCE FROM PROPOSED* LOCATION TO OR LEASE LINE, FT. (Also to nearest drig, unit line		16. NO. OF ACRES IN LEASE		17. NO. OF ACRES ASSIGNED TO THIS WELL.		
1120'		320+	+	E/2 320 acres		
DISTANCE FROM PROPOSED LOCATION* TO	**************************************	19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
drilling, completed, or applied for on $1250'$	(THIS LEASE, FT.	8030	0' Rotary			
ELEVATIONS (Show whether DF, RT, GR, etc.)					22. APPROX DATE WORK WILL START*	
6884' GR				August 1, 2002	August 1, 2002	
		CASING AND CEMENTING PRO				
SZE OF HOLE 12-1/4"	GRADE, SIZE OF CASING 9-5/8"	36# J-55	250' +/-	QUANHIY OF 165 cu ft. Cl "B" w/ 2%		
8-3/4"	7"	20# J-55	3560' +/-	961 cu.ft. lead & 139 cu		
6-1/4"	4-1/2"	11.6#, N-80	8030' +/-	584 cu.ft. lead & 196 ci		
he above described location This location has been arch	on in accordance with haeologically surveye office. Velarde Energ omitted directly to you and pipeline will be lo	n the attached drilling and the attached drilling and by Valarde Energy Sey Service has also perfour office. Ocated on Jicarilla Apace pen or plug back, give data on present pr	nd surface use placervice. Copies of the rmed a T&E survenche land. An on-site continuous continuou	neir report have been by and prepared an EA. Copiete inspection was held on 600 FEB 2000	5 == ::::::::::::::::::::::::::::::::::	
	Thomas -	ттв Раи	l Thompson, Agent	DATE O	S. 7	
SIGNED Paul C.	<i>f</i>				7/1/02	
SIGNED Tau C. (This space for Federal or State office use) PERMIT NO.		APPROVAL DATE	, , ,	\$ 25 t	7/1/02-3	

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

1

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 opropriate District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT										
30-039-27315 72319 \ 71599						BLANCO ME	Pool Nam SAVERDE	_	N DAK	(ATO)
Property 2404	Code				Property JICARI				⁵We	11 Number 18
'OGRID 1				COR	Operator OILLERA E				_	levation 5884'
¹⁰ Surface Location										
UL or lot no.	Section 11	Township 26N	Range 4W	Lot Idn	Feet from the 2170	North/South line SOUTH	Feet from the 1120	East/We	st line ST	County RIO ARRIBA
			ottom	Hole L	ocation I	f Different	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
320.0 ACPES - (E/2) 13 Joint or Infill 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										
15			56	297.16			I hereb contains to the Signatur Paul	y certify ed herein best of my	that the is true are knowledge	FICATION information id complete e and belief
	-					 	Printed	Name		

Agent Title 7/2/02 JICARILLA Date CONTRACT #101 18 SURVEYOR CERTIFICATION 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. 5280.00 Date of Survey: MAY 8, 2002 Signature and Seal of Professional Surveyor 1120' SP CH MEXICO MEXICO SEW 15269 AROFESSIONAL 5290.56 Certificate Number 15269

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

I. Location: 2170' FSL & 1120' FEL

Date: July 1, 2002

Sec 11, T26N, R4W Rio Arriba County, NM

Field: Blanco MV & Basin DK

Elev: GL 6884'

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #101

II. Geology: Surface formation _ Nacimiento

A.	Formation Tops	Depths	λ	San Dose -	Surface
	Ojo Alamo				
	Kirtland			Macimiento -	1272
	Pictured Cliffs	3360'			
	Cliff House	5280 ′		Ojo Alamo	2968
	Menefee			<u> </u>	• ,
	Point Lookout	5640 ′			. /
	Greenhorn	7685 ′		min toe. I	ナ タタ、
	Graneros	7760 ′			
	Dakota	7850 ′			
	Total Depth	8030 ′			

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

Water and gas - 3360', 5280', 5640', 7850'.

- 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.

Jicarilla C #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"	3560′	7"	20# J-55
6-1/4"	8030 ′	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.

Jicarilla C #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, 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.