` • Form 3160-3 (May 1999)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED

UNITED STATES

Expires: May 31, 2000	
E DESIGNATION AND SERIAL NO.	

	IREAU OF LAND MANA	GEMENT		Jicarilla Contract	#119			
		· · · · · · · · · · · · · · · · · · ·		6. IF INDIAN, ALLOTTEE OR TRIBE	IAME			
APPLICATION	Jicarilla Apache	Tribe						
12 TYPE OF WORK DRILL	LX DEEPEN			7. UNIT AGREEMENT NAME				
1b. TYPE OF WELL								
OIL [X	SINGLE	MULTIPLE	8. FARM OR LEASE NAME, WELL NO Hoyt #2C).			
WELL	OTHER	ZONE	2012					
Cordillera Ene	ergy. Inc.	ina 173	252	9. APT WHILI NO. 30-03	9-2766			
3. ADDRESS OF OPERATOR	87,		6188102X	10. FIELD AND POOL OR WILDCAT				
c/o Walsh Engineering, 7415	E. Main St. Farmington	, NM 87402 (505)(32)	7-4892	Basin Dakota/Blanco	MV			
LOCATION OF WELL (Report location cle		requirements.*)	NIND ONLY	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA				
At Surface 800' FSL and	1700' FEL		MAR 2004		177			
At proposed Prod. Zone Same		F C		Sec. 5, T26N, F	(4W			
4. DISTANCE IN MILES AND DIRECTION FROM N	EAREST TOWN OR POST OFFICE*		0.01.0	12. COUNTY OR PARISH	13. STATE			
21 miles south		(C)	A CONT	Rio Arriba	NM_			
DISTANCE FROM PROPOSED • LOCATION TO) OR LEASE LINE, FT. (Also to nearest drig. unit line,		16. NO. OF ACRES IN LEASE.	D1212020	17. NO. OF ACRES ASSIGNED TO THIS WEL	L			
800′	, 	320	\$600000 B	S/2 320 acres				
18. DISTANCE FROM PROPOSED LOCATION* TO 1		19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS				
DRILLING, COMPLETED, OR APPLIED FOR ON 1500'	THIS LEASE, FT.	837	o'	Rotary	Rotary			
21. FLEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL STA				
7179' GR				August 1, 200.	2			
23. SIZE OF HOLE		ASING AND CEMENTING PE		- OVER-				
12-1/4"	GRADE, SIZE OF CASING 9-5/8"	36# J-55	250' +/-	165 cu ft. Cl "B" w/ 25	of cement % CaCl 2			
8-3/4"	7"	20# J-55	4170' +/-	1118 cu.ft. lead & 139				
6-1/4"	4-1/2"	11.6#, N-80	8370' +/-	554 cu.ft. lead & 196	cu.ft. tail			
Cordillera Energy, Inc. pro the above described locatio This location has been arch submitted directly to your o their reports have been sub The wellpad, access road, a	n in accordance with a aeologically surveyed ffice. Velarde Energy mitted directly to your	the attached drilling a by Valarde Energy S Service has also perfo office.	nd surface use plans ervice. Copies of thei ormed a T&E survey	r report have been and prepared an EA. Co	02 ples of			
				1 191 27 pg	C 1			
				· .	อ้า			
IN ABOVE SPACE DESCRIBE PROPOSED If proposal is to drill or deepen directionally, give		ons and measured and true vertical d			7/2/02			
(This space for Federal or State office use)								
PERMIT NO.	- <u> </u>	APPROVAL DATE						
Application approval does not warrant or certify that	the applicant holds legal or equitable title to	hose rights in the subject lease which would	entitle the applicant to conduct operations	thereon.				
CONDITIONS OF APPROVAL, IF ANY:		Acting A - 1	in a formation of the second		4 2007			
APPROVED BY /S/ Day	id R. Sitzlar	Acting Assis	tant Field Mai	nager MAR	4 2004			
		nstructions On Revers	e Side					

District I PO 8px 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

		V	WELL			D A	CREAGE DE	DIC	CAT				
30-03	API Number	*Pool Code						IN DAKOTA					
Property	Code	Property Name HOYT					°Well Number 2C						
'0GRID	3 <u>S</u>	MUYI *Operator Name						*Elevation					
17325				COR			NERGY, IN	C.		· · · · · · · · · · · · · · · · · · ·			7179
					¹⁰ Surfa		Location						
UL or lot no.	Section 5	Township Range Lot Idn Feet from the North/South line Feet from the E			ĺ	st line ST	County RIO ARRIBA						
		¹¹ Bo	ttom	Hole L	ocatio	n I	f Differer	it F	ro	m 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 Acre	15				¹³ Joint or I	nfill	¹⁴ Consolidation Code	15	Order	No.	L		
55515555).O Acres	- (5	(2)	Y								
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					F678	97n				Printed Agent	Name		
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CORDILLERA ENERGY, INC. OPERATIONS PLAN Hoyt #2C

I. Location: 800' FSL & 1700' FEL

Sec 5, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #119

Date: July 2, 2002

Elev: GL 7179'

II. Geology: Surface formation Nacimiento

A. Formation Tops Depths Ojo Alamo Kirtland Pictured Cliffs 3770' Cliff House 5580' Menefee 5700' Point Lookout 6050' Greenhorn 8000 Graneros 8080' Dakota

Marinionto 1480'
Narinionto 1480'

Ojo Alamo - 3100'

Min Toe - 1370'

Marinto Sulface Co

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

8370'

Water and gas - 3770', 5580', 6050', 8080'.

- 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 psig.

III. Drilling

A. Contractor:

Total Depth

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.

Hoyt #2C 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

1

A. Casing Program:			
Hole Size	Depth	Casing Size	Wt. & Grade
12-1/4"	250 ′	9-5/8"	36# J-55
8-3/4"	4170'	7"	20# J-55
6-1/4"	8370 ′	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.

Hoyt #2C 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 535 sx (1118 cu.ft) of Type III 65/35 poz with 8% gel, 1% $CaCl_2$, ¼#/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% $CaCl_2$, ¼#/sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1257 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, 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.