Form 3160-3 (August 1999)

FORM APPROVED OMB No. 1004-0136

UNITED STAT	ES	- 03 M/Q -	- CA MI 10: 21	Expires Nove	mber 30,	2000		
DEPARTMENT OF THE	E INTERIO	R Str	10 min. 71	5. Lease Serial No.				
BUREAU OF LAND MAN	Jicarilla Contract #119 6. If Indian, Allottee or Tribe Name							
ADDI IOATION FOR REDMIT TO								
APPLICATION FOR PERMIT TO	Jicarilla Aı	pache 7	Γribe)				
a. Type of Work: X DRILL REF	7. If Unit or CA Agreement, Name and No.							
i. Type of work: A DRILL	ENTER							
				8. Lease Name and W	all No			
o. Type of Well: Oil Well Gas Well Other	П	Single Zone	Multiple Zone					
	<u> </u>			Hoyt #1C				
Name of Operator	norten			20-039	179	'Z<	てX	
A. Address		o. (include area co	(da)	10. Field and Pool, or	Evalente			
c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402	ł	5. (include area co 4-4 (505)	•	Basin DK/Blar	•	•	ordo	
Location of Well (Report location clearly and in accordance with				11. Sec., T., R., M., or				
Assurface 2440' FNL and 1520' FEL	. uny state i oq	un cincinio.		11. 000., 1., 10, 11., 01	Dix, uno	50170)	, 01 750	
				/97 Sec 5 T	SEN D	A\A/		
At proposed prod. Zone 4. Distance in miles and direction from nearest town or post office.				7 Sec. 5, T26N, R4W 12. County or Parish 13. State			ate	
21 miles south of E				Rio Arriba			MM	
5. Distance from proposed*		cres in lease	17. Spacing Unit de					
location to nearest property or lease line, ft. 200'			, spaving similar	326.82				
(Also to nearest drig. unit line, if any)	1 :	320+		-320 acres N/2				
B. Distance from proposed location* to nearest well, drilling, completed,	19. Propose		20. BLM/BIA Bone	BLM/BIA Bond No. on file				
to nearest welf, drilling, completed, applied for, on this lease, ft.	8505' +/-							
	<u>L</u>							
11. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start* September 1, 2003			23. Estimated duration 3 weeks				
7312' GL								
	24. <i>A</i>	Attachments		:				
he following, completed in accordance with the requirements of Or	nshore Oil and	Gas Order No. 1	shall be attached to th	is form				
no tono wing, compressed in accordance with the requirement of or		0.00 0.00 1.0 1,			*			
. Well plat certified by a registered surveyor.		4. Bond to co	over the operations u	nless covered by an existi	ing bond o	n file	(see	
. A Drilling Plan.		Item 20 ab	Item 20 above).					
. A Surface Use Plan (if the location is on National Forest System	Lands, th	5. Operator co	ertification.					
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						
DOTO SHALL DO MOG WILL DIO Appropriate 1 Stept Bellito Silver.		authorized	•	on and or plans as may o	o roquiroc	oy un		
25. Signature	Na	me (Printed/Typed		Date			_	
	i_	Pau	I C. Thompson	, P.E. i	8	3/6/03	<u>3</u>	
l'itle								
		Agent						
Approved by (Signature)	Na	me (Printed/Typed	i)	1]	Date SEP 2	L PY	2004	
/s/ David R. Sitzler				<u></u>	SEP &	; /	2004	
Assistant Field Manager	Off	ice						
Application approval does not warrant or certify that the applicant h	holds legal or e	equitable title to th	ose rights in the subie	ct lease which would enti	tle the ap	olicant	to cond	
Application approval does not warrant of certify that the armiteant i			5		F			
operations thereon. Conditions of approval, if any, are attached.								

*(Instructions on reverse)

District I PO Box 1980, Hobb, 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

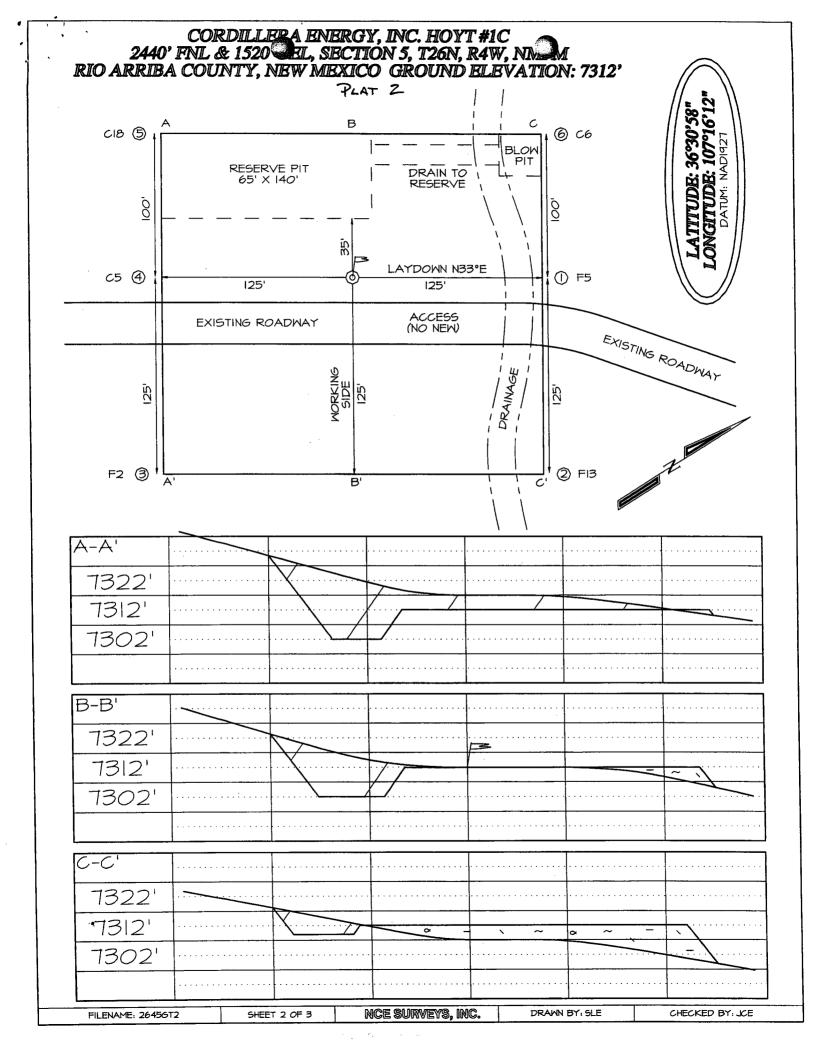
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

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

AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT												
22029	API Number	58	723	*Pool Cod 319 \ 7	l l		BLANCO ME		Pool Name ERDE \	-	V DAKO	ТА
Property Code 36						Property Name HOYT					°Well Number 1C	
OGRID 17325				CO	*Opera RDILLERA		Name NERGY, INC.				*Elevation 7312	
-					¹⁰ Surface	e l						
UL or lot no.	Section 5	Township 26N	Range 4W	Lot Idn	Feet from the	3	North/South line	l	from the	i	st line	County RIO ARRIBA
			ttom	Hole L	ocation	Ιſ			m Surf			
UL or lat no.	Section	Township	Range	Lot Idn	Feet from th	e	North/South line	Feet	from the	East/W	est line	County
¹² Dedicated Acres		S.82 Acres	3 - (N/2)	¹³ Joint or Infil	11	¹⁴ Consolidation Code	¹⁵ Order	No.	J	···	<u> </u>
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												
1320.00 1379.40 時	T 4	LOT SEP 2004 SEP 2004 S	- 3 	280.00°			LOT 1	1320.00' 1372.80'	I herebicontaine to the Signatur Printed A Garantee Is SURV	y certify ed herein best of m	that the is true any knowledge	FICATION Information Informati
2640.00°				5283.96				2640.00'	Date (Signature	of Surve and Seal	vey: JUL 1 of Profes C. EDW. MEXICO	Y 8, 2003 ssional Surveyor



CORDILLERA ENERGY, INC. OPERATIONS PLAN Hoyt #1C

I. Location: 2440' FNL & 1520' FEL

Sec 5, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #119 Elev: GL 7312'

Date: August 6, 2003

II. Geology: Surface formation Nacimiento

A.	Formation Tops	Depths
	Ojo Alamo	
	Kirtland	
	Pictured Cliffs	3905'
	Cliff House	5715 ′
	Menefee	5833 ′
	Point Lookout	6185 ′
	Greenhorn	8135 ′
	Graneros	
	Dakota	8215 ′
	Total Depth	8505 ′

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

Water and gas - 3905', 5715', 6185', 8215'.

- 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:
- 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 #1C Operations Plan Pg #2

11.6# N-80

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"	4305 ′	7"	20# J-55

6-1/4" 8505' 4-1/2"

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 #1C
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 555 sx (1160 cu.ft) of Type III 65/35 poz with 8% gel, 1% CaCl₂, $\frac{1}{4}$ /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% CaCl₂, $\frac{1}{4}$ /sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1299 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, ¼ #/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.

Cordillera Energy, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

EXHIBIT #1

