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	Form 3160-3 03 I.I.				FORM APPROVED OMB No. 1004-0136			
(August 1999)	UNITED STAT	TEC C		, 100 T	Expires No			
	DEPARTMENT OF THE		; D	WI ALLO	5. Lease Serial No.	vernoer 50, 2		
,	Jicarilla Contract #101							
	6. If Indian, Allottee or Tribe Name							
APPLIC	ATION FOR PERMIT TO	DRILL OF	REENTER		Jicarilla A			
la. Type of Work: X DRILL	REF	ENTER	100 c	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7. If Unit or CA Ag	reement, Nar	ne and No.	
				2000				
	Gas Well Other				8. Lease Name and	Well No.		
b. Type of Well: Oil Well	Multiple Zone	Huron #2B						
2. Name of Operator			Fig.	· · · · · · · · · · · · · · · · · · ·	9. API Well No.	9 59	7/ 0	
- lati	who Gordillera Energ			<u>, , , , , , , , , , , , , , , , , , , </u>	3000	21-61	260	
3A. Address		ł	o. (include area co		10. Field and Pool, or Exploratory			
and the second s	. Main, Farmington, NM 87402		(505) 327-4	1892	Basin DK/Blanco Mesa Verde			
4. Location of Well (Report location		any State req	uirements.*)		11. Sec., T., R., M.,	or Blk, and S	Survey or Area	
	and 1960' FWL				(000 0	TOCK D	4147	
At proposed prod. Zone 14. Distance in miles and direction		Sec. 2, T26N, R4W 12. County or Parish 13. State						
14. Distance in fines and direction	21 miles south of D				Rio Arriba	- //1	NM	
15. Distance from proposed*	2 / 111100 00411 07 2	16. No. of A	cres in lease	17. Spacing Unit de		^ L	14141	
location to nearest property or lease line, ft.	660'				320.8			
property or lease line, ft. (Also to nearest drig. unit line	, if any)	:	320+	`	320 acres W	/2		
18. Distance from proposed locati to nearest well, drilling, comp		19. Propose	d Depth	20. BLM/BIA Bond	l No. on file			
applied for, on this lease, ft.	1300'	82	20' +/-					
21. Elevations (Show whether DF	KDB. RT. GL. etc.)	22. Approxi	mate date work w	ill start*	23. Estimated durati	on.		
•	I' GL		September 1		3 weeks			
			. Attachments					
The following, completed in according	rdance with the requirements of On			shall be attached to th	is form:			
1. Well plat certified by a register	•		,				~ 1	
•	ca saiveyor.			-	nless covered by an exi	sung bond o	n nie (see	
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, th Operator certification. 								
	•	Lands, th	5. Operator co					
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 authorized office.						by the		
25. Signature		Nai	ne (Printed/Typed	0		Date		
Tau/C.	/homes-	<u> </u>	Pau	I C. Thompson,	P.E.	8.	/5/03	
Title	•				•			
11 (6:	 	157	Agent	. .				
Approved by (Signature) /s/ D	avid R. Sitzler	Na	me (Printed/Typed	y		Date SEP	2 7 2004	
Title		Offi	ce			L		
Assistant F	ield Manager	;						
Application approval does not wa	rrant or certify that the applicant h	olds legal or e	quitable title to the	ose rights in the subject	ct lease which would en	title the app	licant to conduct	
operations thereon.				-	•	••		
Conditions of approval, if any, ar	e attached.							
Title 18 U.S.C. Section 1001and	Title 43 U.S.C. Section 1212, make	e it a crime for	any person know	ingly and willfully to	make to any departmen	or agency o	of the United	
	dulent statements or representation		-			- ·		
*/Instructions on various)								

District I PO 80x 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

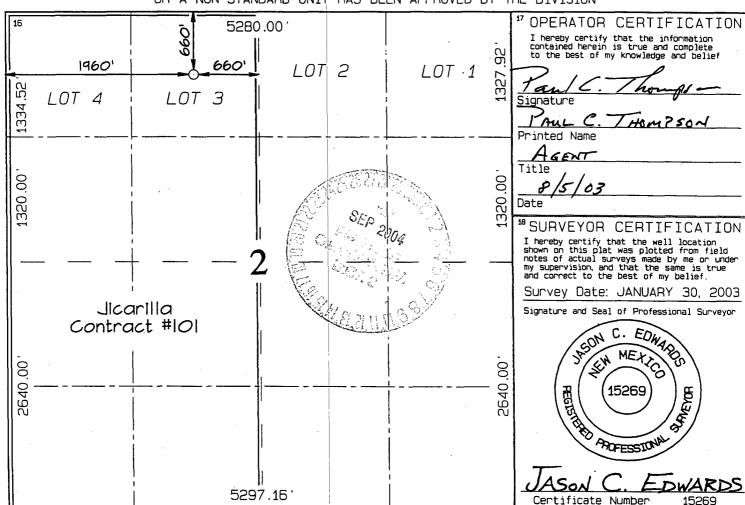
Submit to Appropriate District Office State Lease - 4 Copies

State Lease - 4 Copies Fee Lease - 3 Copies

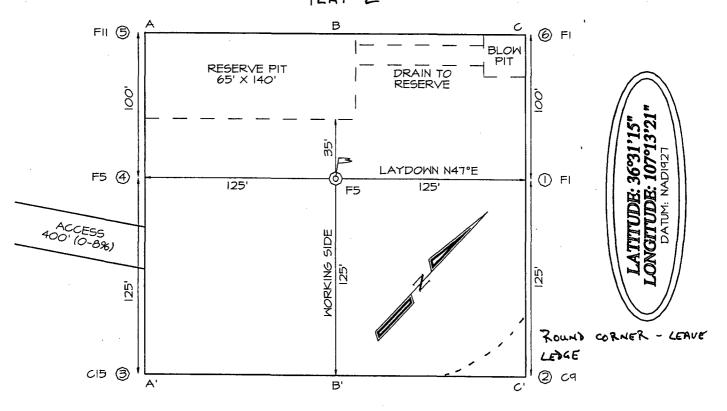
AMENDED REPORT

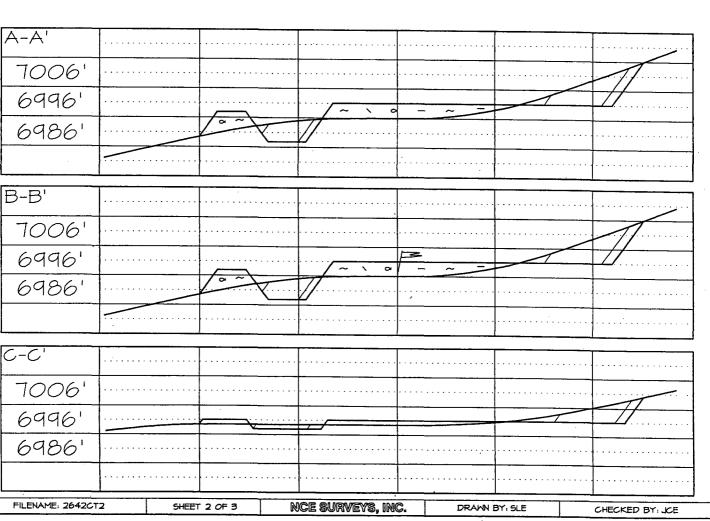
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number Pool Code				е	Pool Name							
30-039-29260 72319 \ 7159				1599	BLANCO MESAVERDE \ BASIN DAKOTA							
Property Code				⁵ Pr	⁵Property Name					⁶ Well Number		
2403	37					HURON				2B		
'OGRID N	٧o .					Operator Name					*Elevation	
17325	2	CORDILLERA ENERGY. INC.						6991 [']				
¹⁰ Surface Location												
Ut or lot no.	Section	Township	Range	Lot Idn	Feet fro	on the	North/South line	Feet from the	East/We	est line	County	
С	2	26N	4W		660	0	NORTH	1960	WE	ST	RIO ARRIBA	
¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet fro	om the	North/South line	Feet from the	East/We	est line	County	
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.												
JEO.GO ACI ES (W/E)												
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 5280 00 17 OPERATOR CERTIFICATI						FICATION						



CORDILLERA ENERGY, INC. HURON 2B 660' FNL & 60' FWL, SECTION 2, T26N, R. J., NMPM RIO ARRIBA COUNTY, NEW MEXICO GROUND BLEVATION: 6991'





CORDILLERA ENERGY, INC. OPERATIONS PLAN Huron #2B

I. Location: 660' FNL & 1960' FWL Date: August 5, 2003

Sec 2, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK Elev: GL 6991'

Surface: Jicarilla Apache Tribe
Minerals: Jicarilla Contract #101

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths		
	Ojo Alamo			
	Kirtland			
	Pictured Cliffs	3740 '		
	Cliff House	5430 ′		
	Menefee	5580 ′		
	Point Lookout	5930 ′		
	Greenhorn	7850 ′		
	Graneros			
	Dakota	7935 ′		
	Total Depth	8220 ′		

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

Water and gas - 3740', 5430', 5930', 7935'.

- 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.

Huron #2B
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"	3940′	7"	20# J-55
6-1/4"	8220 ′	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 2000'.
- c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

Huron #2B 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 500 sx (1045 cu.ft) of Type III 65/35 poz with 8% gel, 1% CaCl₂, $\frak{4}\#/sk$. 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, $\frak{4}\#/sk$. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1184 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 290 sx(574 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 770 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

