Form 3160-3 (May 1999)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

UNITED STATES DEPARTMENT OF THE INTERIOR

	RIMENIUPIN	E INTERIOR	· N.	5. LEASE DESIGN	ATION AND SERIAL NO.			
BUR	EAU OF LAND MA			SF 0	78464			
ADDLICATION E	OP DEPMIT TO D	RILL, DEEPEN, OF	PACK	6. IF INDIAN, ALL	OTTEE OR TRIBE NAME			
			CT LOG BAOK	7. UNIT AGREEM	ENT NAME			
TYPE OF WORK DRIL	LX DEEPEN	'			24080			
TYPE OF WELL		🗖) (T T T T T T T T T T T T T T T T T T T		SE NAME, WELL NO			
OIL	X OTHER	SINGLE ZONE	MULTIPLE X		iams #1C			
IAME OF OPERATOR Condillara	Energy, Inc.			9. API WELL NO.	145-31070			
DDRESS OF OPERATOR	Energy, Inc.			10. FIELD AND PO	OOL OR WILDCAT			
Walsh Engineering,	7415 E. Main St. Fo	armington, NM 87402	(505) 327-4892	Blanco Me	esa Verde/ Basin Dakota			
OCATION OF WELL (Report location)	ation clearly and in accordance w	rith any State requirements.*)		11. SEC., T., R., M AND SURVEY				
	and 820' FWL 51	V /V VV		1	24, T31N, R13W			
oroposed Prod. Zone Same				1- 500	27, 13111, 10137			
DISTANCE IN MILES AND DIRECTION				12. COUNTY OR I				
	thwest of Aztec, NM				Juan NM			
DISTANCE FROM PROPOSED* LOC. OR LEASE LINE, FT.(Also to nearest d			İ					
<i>820'</i>		320		N/2 0. ROTARY OR CABL	320 acres			
DISTANCE FROM PROPOSED LOCA DRILLING, COMPLETED, OR APPLI	TION* TO NEAREST WELL, ED FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH		•				
1320'		689	0'		Rotary			
ELEVATIONS (Show whether DF, RT, $5800'GR$	GR, etc.)		22. APPROX. DATE WORK WILL ST May 2002					
3000 GR	PROPOSED C.	ASING AND CEMENTING	PROGRAM					
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT			
				165 au ft	C'I "D" 30/ 20/ C'aC'I			
12-1/4"	9-5/8"	36# J-55	250' +/-		Cl "B" w/ 2% CaCl ₂			
8-3/4" 6-1/4"	7" 4-1/2"	36# J-55 20# J-55 11.6#, N-80	250' +/- 3965' +/- 6890' +/-	1055 cu.ft 337 cu.ft.	. lead & 139 cu.ft. tail lead & 196 cu.ft. tail			
8-3/4" 6-1/4" fordillera Energy, Inc. the above described location has been about the directly to you have held with the BLM THE LING SPERATIONS AUTHORS ALL REQUIREMENTS	proposes to drill a ation in accordance archaeologically sum office. and, and pipeline will on 3/5/02. THORIZED ARE WITH ATTACHED	yertical well to develope with the attached drivered by La Plata Art be located on BLM start action is subject to procedural review pursuant to	250' +/- 3965' +/- 6890' +/- p the Blanco Mesa lling and surface usi chealogical Service. urface land. An on-s atechnical and suant to 43 CFR 3165.3 o 43 CFR 3165.4	1055 cu.ft 337 cu.ft. Verde and Ba e plans. Copies of the	lead & 139 cu.ft. tail lead & 196 cu.ft. tail sin Dakota formations at heir report have been			
8-3/4" 6-1/4" Cordillera Energy, Inc. ne above described loc This location has been a white location has been a white directly to yo The wellpad, access roc was held with the BLM ENERGY ENG OPERATIONS AU HEALTH ING COMPLIANCE TO NEAL REQUIREMENTS NABOVE SPACE DESCRIBE PRO Proposal is to drill or deepen directive SIGNED This space for Federal or State office u PERMIT NO Application approval does not warrant.	proposes to drill a ation in accordance archaeologically sur ur office. and, and pipeline will on 3/5/02. THORIZED ARE WITH ATTACHED DPOSED PROGRAM: If propoonally, give pertinent data on suffice.	36# J-55 20# J-55 11.6#, N-80 vertical well to develop with the attached drivers action is subject to proceed and action and appears and measured and sourface locations and measured and approval date. APPROVAL DATE all or equitable rule to those rights in the	250' +/- 3965' +/- 6890' +/- p the Blanco Mesa lling and surface us: chealogical Service. urface land. An on-s stechnical and stant to 43 CFR 3165.3 o 43 CFR 3165.4 ata on present productive zone at true vertical depths. Give blow ul Thompson, Agent	1055 cu.ft 337 cu.ft. Verde and Bare plans. Copies of the site inspection out preventer program DATE	lead & 139 cu.ft. tail lead & 196 cu.ft. tail lead & 196 cu.ft. tail sin Dakota formations at heir report have been huctive zone h, if any. 4/13/02			
8-3/4" 6-1/4" Gordillera Energy, Inc. the above described locality to your the wellpad, access rocal the wellpad, access	proposes to drill a ation in accordance archaeologically surur office. and, and pipeline will on 3/5/02. THORIZED ARE WITH ATTACHED ST. PROSED PROGRAM: If proponally, give pertinent data on subsection of the proponent of the proponent data on subsection data on subsect	36# J-55 20# J-55 11.6#, N-80 vertical well to develop with the attached drivers action is subject to proceed and action and appears and measured and sourface locations and measured and approval date. APPROVAL DATE all or equitable rule to those rights in the	250' +/- 3965' +/- 6890' +/- p the Blanco Mesa lling and surface us: chealogical Service. urface land. An on-s stechnical and stant to 43 CFR 3165.3 o 43 CFR 3165.4 ata on present productive zone at true vertical depths. Give blow ul Thompson, Agent	1055 cu.ft 337 cu.ft. Verde and Bare plans. Copies of the site inspection out preventer program DATE	lead & 139 cu.ft. tail lead & 196 cu.ft. tail lead & 196 cu.ft. tail sin Dakota formations at heir report have been huctive zone hit is in it any. 4/13/02			

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

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 Depag

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

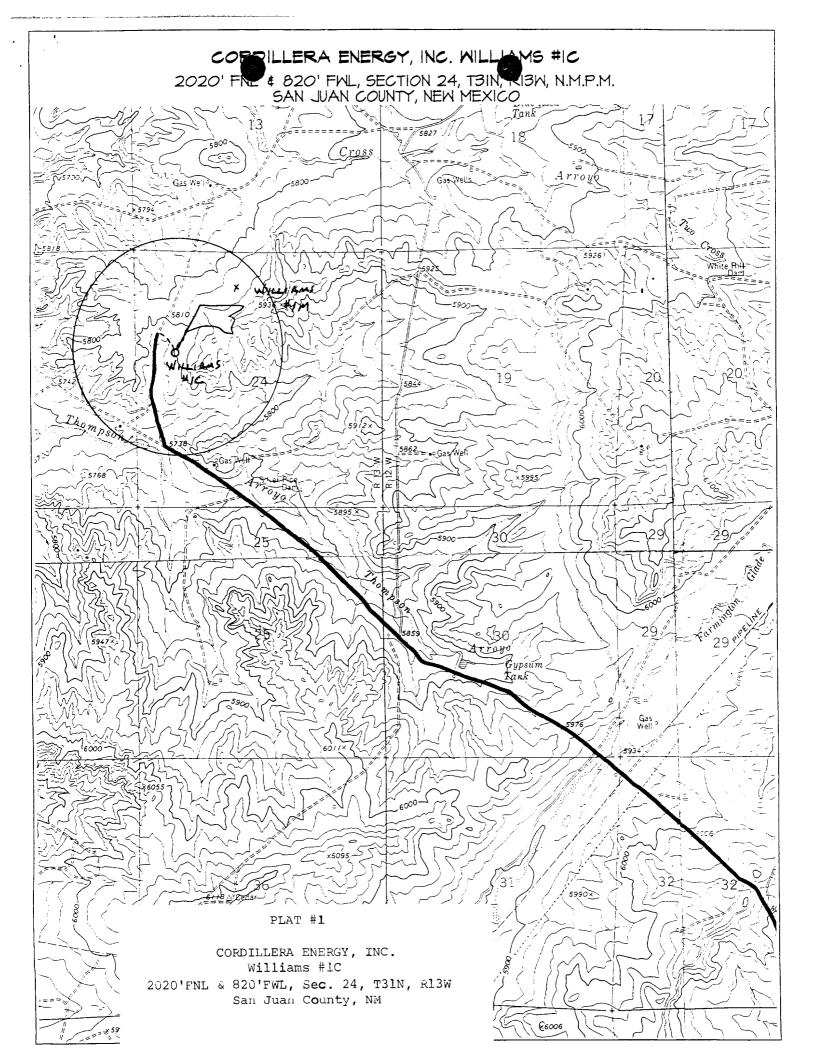
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				'Pool Code 'Pool Name							
30-04	5-3	3/070 72319 \ 71599 BLANCO MESAVERDE \ BASIN DAKOTA						KOTA			
Property	Code	°Property Name							*Well Number		
24080	<u> </u>	WILLIAMS 1C									
'OGRID N	40.	"Operator Name "Elevat					5800'				
1/3232			CORDILLERA ENERGY, INC.								
	r == -	· · · · · · · · · · · · · · · · · · ·			10 Surface	Location North/South line	1	from the	East/We		County
UL or lot no.	Section 24	Township 31N :	Range 13W	Lot Idn	2020	NORTH		320	Last/we		SAN JUAN
	24					<u> </u>	<u> </u>				JAN JOAN
UL or lot no.	11 Bottom Hole Location If Different From Surface U. or lot ro. Section Township Range Lot Idn Feet from the North/South line Feet from the East/W							est line	County		
ac ar lot no.	Section	TOWNERING	nonge :	200 131	Teet from the				2032/110	.3. 11.0	233.0,
12 Dedicated Acres	<u>.</u>				13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order	No.			
320.0 Acres - (N/2)											
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NO ALLON	ADEL N	OR A N	10N-ST	ANDARD	UNIT HAS BE	EEN APPROVED	BY T	HE DIVI	SION		
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27					•			Title			
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Signature and Seal of Professional Surveyor SON C. EDWARD SEW MEXIC IN NO STORE 4 0.0 2566.7 POFESSIONAL PROFESSIONAL (1) 11:53 91 337 202

5192.221

Certificate Number



Williams #1C 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"	3965 ′	7"	20# J-55
	6-1/4"	6890 ′	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.

Williams #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 505 x (1055 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 1194 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 170 sx (337 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 533 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.

Paul C. Thomp-

Cordillera Energy, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

