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

5. LEASE DESIGNATION AND SERIAL NO.

BUREAU OF LAND MANAGEMENT					Jicarilla Contract #152		
APPLICATIO	N FOR PERMIT TO D	RILL. DEEPEN. OR PL	UG BACK	6. IF INDIAN, ALLOTTEE OR 1			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK TYPE OF WORK DRILL X DEEPEN				7. UNIT AGREEMENT NAME	Jicarilla Apache Tribe		
TYPE OF WORK DR	ILLX DEEPEN	· .		7. UNI AGRESSINATIVAS	24040		
TYPE OF WHIL				8. FARM OR LEASE NAME, W			
OIL	X	SINGLE	MULTIPLE ZONR	-,			
WELL L	OTHER	ZONE					
NAME OF OPERATOR Cordillera 1	inergy, Inc.	1132	ふし	9. API WELL NO.	39-27317		
DDRESS OF OPERATOR		,		10. FIELD AND POOL OR WIL	DCAT		
o Walsh Engineering, 74.	15 E. Main St. Farmingto	n, NM 87402 (505) 327	48920 10 200	Basin Dakota/Bla	anco MV		
LOCATION OF WELL (Report location	clearly and in accordance with any Sta	te requirements.*)	3/1 10 10 10 C/ 23 3	11. SEC., T., R., M., OR BLK.			
Surface 1980' FNL a	ınd 1850' FEL	(C)		AND SURVEY OR AREA			
proposed Prod. Zone		L'at	- non	Sec. 8, T2	6N. R5W		
 Same			FEB 2003		,		
DISTANCE IN MILES AND DIRECTION FRO	OM NEAREST TOWN OR POST OFFICE*		W.	12. COUNTY OR PARISH	13, STATE		
21 miles soi	th of Dulce, NM		OIL COLLAND	Rio Arrib			
DISTANCE FROM PROPOSED* LOCATION		16. NO. OF ACRES IN LEASE		7.340. OF ACRES ASSIGNED TO T			
OR LEASE LINE, FT.(Also to nearest drig. uni 660^\prime	t line, if any)	320		N/2 320 a	cres		
DISTANCE FROM PROPOSED LOCATION	TO NEAREST WELL,	19. PROPOSED DEPTH	Q C + C () 2	O. ROTARY OR CABLE TOOLS			
DRILLING, COMPLETED, OR APPLIED FOR	R ON THIS LEASE, FT.		a valar	_			
1000'		8125	i'	Rotary			
ELEVATIONS (Show whether DF, RT, GR, etc	.)			22. APPROX. DATE WORK W			
6988' GR				August 1,	2002		
			OCD AM				
		CASING AND CEMENTING PR	DOIGHN				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		NITTY OF CEMENT		
SIZE OF HOLE 12-1/4"	GRADE, SIZE OF CASING 9-5/8"	WEIGHT PER FOOT 36# J-55	SETTING DEPTH 250' +/-	165 cu ft. Cl "B"	w/ 2% CaCl ₂		
SIZE OF HOLE 12-1/4" 8-3/4"	GRADE, SIZE OF CASING 9-5/8" 7"	WEIGHT PER FOOT 36# J-55 20# J-55	SETTING DEPTH 250' +/- 3950' +/-	165 cu ft. Cl "B" 1045 cu.ft. lead c	w/ 2% CaCl ₂ & 139 cu.ft. tail		
size of HOLE 12-1/4" 8-3/4" 6-1/4" fordillera Energy, Inc. 1	grade, SIZE OF CASING 9-5/8" 7" 4-1/2" proposes to drill a vertic	WEIGHT PER FOOT 36# J-55 20# J-55 11.6#, N-80 cal well to develop the 1	SETIING DEPTH 250' +/- 3950' +/- 8125' +/- 8asin Dakota and Bla	165 cu ft. Cl "B" 1045 cu ft. lead & 554 cu ft. lead &	w/ 2% CaCl ₂ & 139 cu.ft. tail 196 cu.ft. tail		
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SIZE OF HOLE 12-1/4" 8-3/4" 6-1/4" Gordillera Energy, Inc. pare above described local above special directly to you desir reports have been such above space Describe Propositional above space Describe Propositional Signed Propositional Child space for Federal or State office use) PERMIT NO. Application approval does not warrant or certific CONDITIONS OF APPROVAL, IF ANY:	GRADE, SIZE OF CASING 9-5/8" 7" 4-1/2" proposes to drill a vertication in accordance with the chaeologically surveyed to entire the condition of the chaeologically surveyed and pipeline will be least to the condition of the	WEIGHT PER FOOT 36# J-55 20# J-55 11.6#, N-80 Cal well to develop the Entre attached drilling at the attached drilling attached drilling at the attached drilling atta	SETTING DEPTH 250' +/- 3950' +/- 8125' +/- Basin Dakota and Bland surface use plans. Ervice. Copies of their rmed a T&E survey at the land. An on-site in che land. An on-site in control of the land of the land. An on-site in control of the land.	165 cu ft. Cl "B" 1045 cu ft. lead of 554 cu ft. lead of 554 cu ft. lead of 60 cm. The report have been and prepared an EA cuspection was held before the sam, if any. DATE	w/ 2% CaCl 2 & 139 cu.ft. tail 196 cu.ft. tail rmations at Copies of on 6/24/02.		

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 Department

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

Certificate Number

15269

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

AMENDED REPORT

Form C-102

	WELL LOCA	TION AND A	ACREAGE DEDI	CATION PL	AT		
30-039-273	30-039-273/7 72319 \ 71599			POOL NAME BLANCO MESAVERDE \ BASIN DAKOTA			
Property Code Property 34042 JICARI			-			°Well Number 3R	
'dGRID No. 173252	995, 355, 775						
		¹⁰ Sunface					
G 8 26N	Range Lot Id	Feet from the	North/South line	Feet from the 1850	East/West line EAST	RIO ARRIBA	
	Bottom Hole		If Different	From Surf			
UL or lot no. Section Township	Hange Lot 10	n Feet from the	Northy South Tine	reet from the	East/West line	County	
¹² Dedicated Acres 320.0 ACC	es - (N/2)	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
NO ALLOWABLE WILL BE OR A			ION UNTIL ALL BEEN APPROVED			NSOL IDATED	
. 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5276.7		1850' FEB 2003 FEB 2003	I hereby contained to the to t	C. Thompson Name	FICATION FICATI	

CORDILLERA ENERGY, INC. OPERATIONS PLAN Jicarilla #3R

Location: 1980' FNL & 1850' FEL I.

Date: July 2, 2002

Sec 8, T26N, R5W

Rio Arriba County, NM

Field: Blanco MV & Basin DK

Elev: GL 6988'

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #152

Geology: Surface formation Nacimiento

D. Son Jose Surface Nacimiento 1976' Ojo Alano 2837'

n TOC 1926' -

A. Formation Tops Depths Ojo Alamo Kirtland Pictured Cliffs 3565' Cliff House 5255**'** Menefee Point Lookout

5770**'** Greenhorn 7700' 7790 Graneros 7875' Dakota

8125' Total Depth

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

Water and gas - 3565', 5255', 5770', 7875'.

- 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.

Jicarilla #3R 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"	3950 ′	7"	20# J-55
6-1/4"	8125 ′	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 #3R 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% $CaCl_2$, 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% $CaCl_2$, 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 280 sx(554 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 750 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.