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AUG :	2003	then I I have have			
Form 3160-3	Veri 2007 1111 (	o	FORM APPROV	VED.	
Form 3160-3 (August 1999)	Sow Jam Hill	23 AM II: 10	OMB No. 1004-		
VMITED STAT	BS CJ 070		Expires November 3	30, 2000	
/ DEPARTMENT OF THI	einterior u/u fam	nington, NM	5. Lease Serial No.	<del>*** </del>	
BUREAU OF CANDIMAN	AGEMENT	!	SF-078464		
APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allottee or Tribe	e Name	
APPLICATION FOR PERMIT TO	DIVILL ON MELITER				
1a. Type of Work: X DRILL REI	ENTER		7. If Unit or CA Agreement,		
_			256	012	
		14121.7	8. Lease Name and Well No Big Jake	•	
	Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone				
2. Name of Operator	IDD GIV THE		9. API Well No.	(-3/8nd	
CORDILLERA EN 3A. Address	SERGY INC.  3b. Phone No. (include area co	de)	10. Field and Pool, or Explor	etory .	
c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402	(505) 327-4	•	Basin Fruitlan	•	
4. Location of Well (Report location clearly and in accordance with			11. Sec., T., R., M., or Blk, and Survey or Area		
At surface 820' FNL and 1020' FWL					
At proposed prod. Zone			$oldsymbol{\mathcal{U}}$ Sec. 26, T31N,	R13W	
14. Distance in miles and direction from nearest town or post office			12. County or Parish	13. State	
1 miles northof Farm 15. Distance from proposed*		I 17 Consider I India de	San Juan	NM_	
location to nearest property or lease line, ft. 820'	16. No. of Acres in lease	17. Spacing Unit de	concated to this well		
(Also to nearest drig, unit line, if any)	320+	331.7	<del>/</del> <del>320</del> acres (west half)		
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond			
to nearest welf, dfilling, completed, applied for, on this lease, ft. 76'	1995 +/-		:		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work w	ill start*	23. Estimated duration		
5665' GL	August 15,		1 week		
	24. Attachments				
The following, completed in accordance with the requirements of Or	isnore Oil and Gas Order No. 1,	shall be attached to th	is form:		
1. Well plat certified by a registered surveyor.	4. Bond to co	over the operations un	nless covered by an existing bor	nd on file (see	
2. A Drilling Plan.	Item 20 ab		•	·	
3. 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 informati	on and/or plans as may be requi	ired by the	
	authorized	_			
25. Signature	Name (Printed/Typed	)	Date		
Paul C. Thomas-		I C. Thompson,	<u>.</u>	7/21/03	
Title		. С. тросп,		7721700	
	Agent				
Approved by (Signature)	Name (Printed/Typed	)	Date		
/s/ David J. Mankiewicz			; AUG	<b>2 2</b> 2003	
Title	Office				
			<u></u>		
Application approval does not warrant or certify that the applicant h	olds legal or equitable title to the	ose rights in the subject	et lease which would entitle the	applicant to conduct	
operations thereon.					
Conditions of approval, if any, are attached.	- 14 1				
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representation			make to any department or agen	cy of the United	
*(Instructions on reverse)					

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

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 Departm

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
to Appropriate District Office

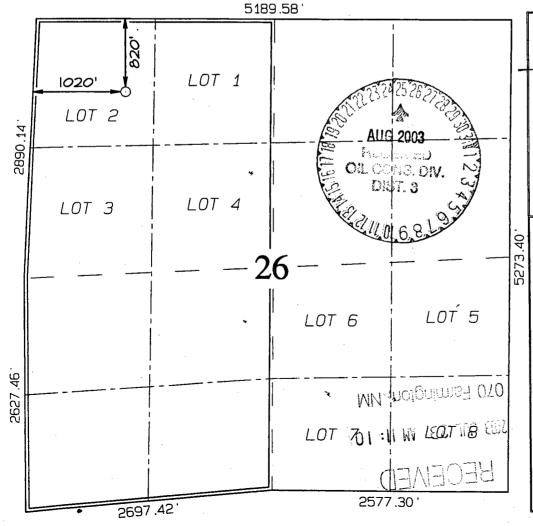
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

\_ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

	'API Number, 'Pool Code				, Lool Naw	е				
30-0	45-3	51800	•	71629	1629 BASIN FRUITLAND COAL				•	
*Property	Code				*Property Name				⁵Well Number	
256	72				BIG JAKE				2	
'OGRID N	No.			Operator Name				*Elevation		
17325	i2	CORDILLERA ENERGY, INC.				5665				
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	26	31N	13W		820	NORTH	1020	WEST	SAN JUAN	
<sup>11</sup> Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acres					<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.	· · · · · · · · · · · · · · · · · · ·		
	331	.77 Acre	!s - (W	1/2)	V					

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



17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
PIII
Signature Change
PAUL C. THOMPSON
Printed Name
AGENT
Title
7/21/83
Date
18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Date of Survey: APRIL 30, 2003
Signature and Seal of Professional Surveyor
C. EDW
SEON C. EDWARDS
3 SER (E) 8, 1
(張 (15269) ) 度 )
(A)
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Transcription of the second
UASON C. EDWARDS

Certificate Number

15269

# CORDILLERA ENERGY, INC. OPERATIONS PLAN Big Jake #2

I. Location: 820' FNL & 1020' FWL

Date: July 21, 2003

Sec 26 T31N R13W San Juan County, NM

Field: Basin Fruitland Coal Elev: GL 5665'

Surface: BLM

Minerals: SF 078464

II. Geology: Surface formation Nacimiento

A.	Formation Tops	Depths
	Ojo Alamo	895'
	Kirtland	925′
	Fruitland	1140'
	Pictured Cliffs	1845'
	Total Depth	1995′

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

Water and gas - 1140' and 1845.

- 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 production 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.

#### 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
8-3/4"	120'	7"	20# J-55
6-1/4"	1995 <b>′</b>	4-1/2"	10.5# K-55

- B. Float Equipment:
- a) Surface Casing: None.
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers placed across the Ojo Alamo.

#### V. Cementing:

Surface casing: 7" - Use 30 sx (36 cu. ft.) of Cl "B" with 2% CaCl<sub>2</sub> (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 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with  $145 \times (299 \text{ cu.ft})$  of Cl "B" with 2% SMS, \(\frac{14}{3}/8\)k. celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with 2% CaCl2, and \(\frac{14}{3}/8\)k. celloflake/sk. (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG) Total cement volume is 417 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.