Form 3160-3\* (May 1999)

# **UNITED STATES**

SUBMIT IN TRIPLICATE*						
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FORM APPROVED OMB 1004-0136

Expires: May 31, 2000

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BURE	AU OF LAND MAN				
APPLICATION FO	D DEDMIT TO DE	DEEDEN OF	B DI LIG BACK	6. IF INDIAN, ALL	OTTEE OR TRIBE NAME
			C PLUG BACK	- 3	
TYPE OF WORK DRILL	.  ☑ DEEPEN[	Visi3.	e e Petit estado e sistema que de Transportações e estados e estados e e e e e e e e e e e e e e e e e e e	7. UNIT AGREEME	S4019
TYPE OF WELL	<b>—</b>			8. FARM OR LEAS	SE NAME, WELL NO.
OIL U	X	SINGLE	MULTIPLE ZONE	$X \mid Arns$	tein #1Y
IAME OF OPERATOR			2010	9. API WELL NO.	- 1/ = 3 12/2
Cordillera E	nergy, Inc.	173252			045 3/2/8
DDRESS OF OPERATOR			00 20 30 3183	10. FIELD AND PO	
o Walsh Engineering, 7	415 E. Main St. Far	mington, NM 87402	(7505) 327-4892	Blanco Me	sa Verde/ Basin Dakota
LOCATION OF WELL (Report location	•			11. SEC., T., R., M.,	
Surface 660' FNL an	d 1315' FWL		JAN 2003	AND SURVEY	
proposed Prod. Zone		ES .		C Sec.	18, T31N, R12W
<u>Same</u>			1174 9011	7	
DISTANCE IN MILES AND DIRECTION	from nearest town or pos hwest of Aztec, NM	TOFFICE*	N. C. TELO -M	San	
DISTANCE FROM PROPOSED* LOCAT		16. NO. OF ACRES IN LEASE	- below -	17. NO. OF ACRES ASS	
OR LEASE LINE, FT.(Also to nearest drig		10. NO. OF ACKED IN COLUMN	)		017
660'		320	#(3) (1) H (1) P		314.48 acres UK
DISTANCE FROM PROPOSED LOCATI DRILLING, COMPLETED, OR APPLIED		19. PROPOSED DEPTH		20. ROTARY OR CABLE	E TOOLS
600'	FOR ON THIS LEASE, FT.	697	'5'	Rota	irv '
ELEVATIONS (Show whether DF, RT, GR	L, etc.)				TE WORK WILL START*
5916' GR	·			Nove	ember 2002
		SING AND CEMENTING			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	165 00 4	QUANTITY OF CEMENT
SIZE OF HOLE 12-1/4"		WEIGHT PER FOOT 36# J-55	SETTING DEPTH 250' +/-	165 cu ft. (	Cl "B" w/ 2% CaCl <sub>2</sub>
8-3/4" 6-1/4"	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	165 cu ft. ( 1108 cu.ft.	QUANTITY OF CEMENT Cl "B" w/ 2% CaCl <sub>2</sub> lead & 139 cu.ft. tail lead & 196 cu.ft. tail
SIZE OF HOLE 12-1/4" 8-3/4" 6-1/4"	GRADE, SIZE OF CASING 9-5/8" 7" 4-1/2"	WEIGHT PER FOOT 36# J-55 20# J-55 11.6#, N-80	\$ETTING DEPTH 250' +/- 4115' +/- 6975' +/-	165 cu ft. ( 1108 cu.ft. 327 cu.ft. (	Cl "B" w/ 2% CaCl <sub>2</sub> lead & 139 cu.ft. tail lead & 196 cu.ft. tail
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District I PO Box 1980, Hobbs, NM 88241-1980 )

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back t to Appropriate District Office

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

District II PO Drawer DD, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

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

District IV PO Box 2088, Santa Fe, NM 87504-2088 \_\_ AMENDED REPORT

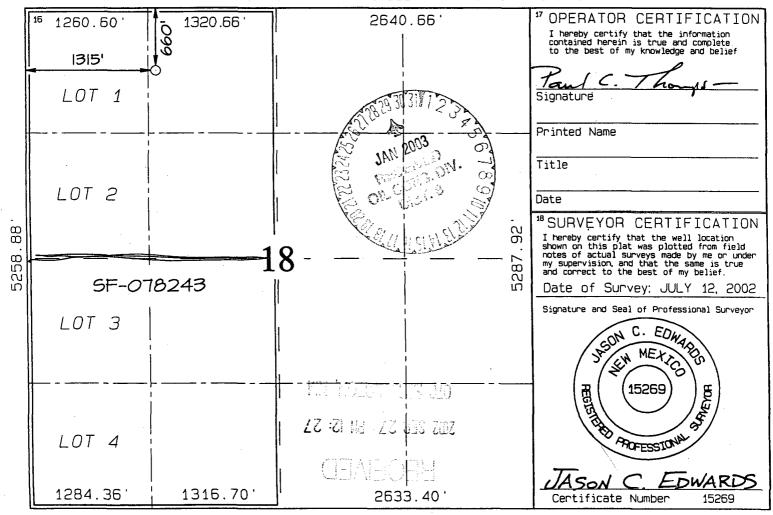
## WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	Pool Code	³Pool Name		
30.045-31218	72319 \ 71599	BLANCO MESAVERDE \ BAS	IN DAKOTA	
*Property Code	*Pro	*Well Number		
24019	AR	1Y		
'OGRID No.	* Ope	*Elevation		
173252	CORDILLER	5916		

<sup>10</sup> Surface Location

Sai race Eucactori									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	31N	12W		660	NORTH	1315	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
<sup>12</sup> Dedicated Acres		.48 Acr	es - (	W/2)	<sup>13</sup> Joint or Infill	<sup>34</sup> Consolidation Code	Porder No.	760-N	1 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



Arnstein #1Y 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 Progra	∍m:		
Hole Size	Depth	Casing Size	Wt. & Grade
12-1/4"	250 <b>′</b>	9-5/8"	36# J-55
8-3/4"	4115'	7"	20# J-55
6-1/4"	6975 <b>′</b>	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.

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#### V. Cementing:

Surface casing: 9-5/8" - Use 140 sx (165 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 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 535 x (1108 cu.ft) of Type III 65/35 poz with 8% gel, 1% CaCl<sub>2</sub>, ¼#/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<sub>2</sub>, ¼#/sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1246 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 165 sx (327 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 523 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

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