Image 306-3 (div) 1990.       UNITED ST DEPARTMENT OF T BUREAU OF LAND X       1/2/6/17/2         APPLICATION FOR PERMIT       3D: D25-338/8         Image 306-3 (Div) 2005-338/8       1/2/6/17/2         Image 306-3 (Div) 2005-338/8       1/2/6/27/2         Image 306-3 (Div) 2005-338/8       1/2/6/27/2         Image 306-3 (Div) 2005-338/8       1/2/2/6/27/2         Image 306-3 (Div) 2005-338/8       1/2/2/2         Image 306-3 (Div) 2005-338/8       1/2/2/2         Image 306-3 (Div) 2005-338/8       1/2/2/2         Image 306-3 (Div) 2005-338/8       1/2/2/2         Image 306-3 (Div) 2005-338/8       1/2/2         Image 306-3 (Div) 2005-338/8 <t< th=""><th></th><th>-</th><th>OPEA. DAZ</th><th>43</th><th>74</th><th></th></t<>		-	OPEA. DAZ	43	74				
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January 25, 1997         January 27, 195         January 27, 195         January 27, 195         January 2, 195 <th cols<="" td=""><td>OR APPLIED FOR, ON THIS LEASE, FT.</td><td>1320′</td><td></td><td>7900′</td><td></td><td colspan="3"></td></th>	<td>OR APPLIED FOR, ON THIS LEASE, FT.</td> <td>1320′</td> <td></td> <td>7900′</td> <td></td> <td colspan="3"></td>	OR APPLIED FOR, ON THIS LEASE, FT.	1320′		7900′				
PROPOSED CASING AND CERNITY OF CASING AND CER		., GR, EC.)							
SEE OF NOLE       OPLONE STRUCT THE FOOT       SETTING DEPTH       QUANTIFY OF CEMENT         17       1/2"       13       3/8"H-40       48.0 #       490'       Circ 1/2 & J 5       Circ 1/2 & Circ 1/2 & J 5       Circ 1/2 & Circ 1/2 & J 5       Circ 1/2 & J 5       Circ 1/2 & J 5	23.	PROPOSE	D CASING AND	CHENNERROOR	AMYS Start	COMATER BASH			
11"       8 5/8 "J=55       32.0#       3100'       Circ. 1200 sx "C"         7 7/8"       5 1/2"J=55       17.0#       7900'       1055 sx two stage DV tool'         MUD PROCRAM:       MUD WT.       VIS.       W/L Control.         0' - 490': Fresh water spud mud:       8.4 ppg       32       No W/L control.         490' - 3100': Brine mud:       10.0 ppg       28-32       No W/L control.         3100' - 7900': Cut Brine mud w/gel:       8.8 ppg       28-32       W/L control.         3100' - 7900': Cut Brine mud w/gel:       8.8 ppg       28-32       W/L control.       5         BOP PROGRAM:         A 12" 3000 psi wp 900Cameron Space Saver, double ram BOP, will installed on the 13 3/9" casing.       5       5         APPROVAL SUBJECT TO .         * 7 7/8": Cement with DV tool in two stages starting at 6780:       GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED         NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on preventer program, if any.         Agent for:         BION MABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on preventer program, if any.         Agent for:         MABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give bisto more preventer program, if any. <t< td=""><td></td><td>BOFCASING WEIGH</td><td>T PER FOOT</td><td>SETTING DEPTH</td><td></td><td></td></t<>		BOFCASING WEIGH	T PER FOOT	SETTING DEPTH					
7-7/8"       5-1/2"J-55       17.0#       7900"       1055 SX two stage DV tool*         MUD PROGRAM:       MUD WT.       VIS.       W/L control.         490' - 3100': Brine mud:       10.0 ppg       28-32       No W/L control.         3100' - 7900': Cut Brine mud:       10.0 ppg       28-32       No W/L control.         3100' - 7900': Cut Brine mud w/gel:       8.8 ppg       28-32       W/L control.         A 12" 3000 psi wp 900Cameron Space Saver, double ram BOP, will installed on the 13 3/9" casing.       5       5         Casing and BOP will be tested before drilling out with 11". The BOP will be tested daily.       APPROVAL SUBJECT TO       5         * 7 7/8": Cement with DV tool in two stages starting at 6780':       GENERAL REQUIREMENTS AND       SPECIAL STIPULATIONS         21st stage:       230 sx "H" cement.       SPECIAL STIPULATIONS       ATTACHED         NABOVE SPACE DESCRIBE PROPOSED PROGRAM:       Agent for:       Agent for:         310.       Agent for:       Agent for:       January 9, 199         (This space for Federal or State office use)       TTTLE       APPROVAL DATE       Application approval does not warrant or certify that the applicant holds legal or equitable tide to those rights in the subject lease which would entitle the applicant to conduct operations there control operations of approval does not warrant or certify that the applicant holds legal or equitable tide to those right									
0' - 490': Fresh water spud mud:       8.4 ppg       32       No W/L control.         490' - 3100': Brine mud:       10.0 ppg       28-32       No W/L control.         3100' - 7900': Cut Brine mud w/gel:       8.8 ppg       28-32       W/L control.         BOP PROGRAM:       A 12" 3000 psi wp 900Cameron Space Saver, double ram BOP, will installed on the 13 3/g" casing.       Casing and BOP will be tested before drilling out with 11". The BOP will be tested daily.         Approval       Support Saver, double ram BOP, will installed on the 13 3/g" casing.       Casing and BOP will be tested before drilling out with 11". The BOP will be tested daily.         * 7 7/8": Cement with DV tool in two stages starting at 6780:       GENERAL REQUIREMENTS AND         Ist stage:       230 sx "H" cement.       SPECIAL STIPULATIONS         2nd stage:       825 sx lite cement. Cement to surface.       SPECIAL STIPULATIONS         Adgent for:       Chi Operating, Inc.       Lanuary 9, 199         24.       Agent for:       Chi Operating, Inc.       Date January 9, 199         (This space for Federal or State office use)       PEROVAL DATE       AppRoval Date         PEROVAL DATE       Application approval does not warrant or certify that the applicant holds legal or equitable tile to those rights in the subject lease which would entitle the applicant to conduct operations thereau Conductions on APPROVAL IF ANY:									
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<ul> <li>* 7 7/8": Cememt with DV tool in two stages starting at 6780: Ist stage: 230 sx "H" cement. 2nd stage: 825 sx lite cement. Cement to surface.</li> <li>IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.     </li> <li>Magent for: SIGNED</li></ul>		-	,	11". The BOP will	be tested da				
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	APPROVED BY		- 1111.e	ADM, MI	NERALS				

*See	Instructions	On	Reverse	Side
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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, Artonia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM \$7410 District IV PO Box 2088, Santa Fe, NM \$7504-2088

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

Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

in a constant

## WELL LOCATION AND ACREAGE DEDICATION PLAT

{	'API Numb 30-225- 3		2	1 Pool Code 1 3390			'Pool Name Crazy Horse Delaware					
* Property 1841		MUSTAN	G FEDEI	RAL	' Pro	roperty Name				• Well Number 2		
100 RED 437	No. 18	CHI OP	ERATIN	G, INC.			Name				· Elevation 3629 .	
					<sup>10</sup> Surfa	ace	Location		•			
L.L. or lot no. O	Section 18	Township 19-S	Range 33-B	Lot Idn	Fort from t 467	ðe	North/South line SOUTH	Feet from the 1980	East/Wes		County L.B.A	
		• •	<sup>11</sup> Bot	tom Hol	e Locatio	n If	Different Fro	m Surface	<u></u>		· · · · · · · · · · · · · · · · · · ·	
UL or lot no.	Section	Towaship	Range	Lot Ida	Feet from t	_	North/South line	Fest from the	East/West	line	Cousty	
<sup>12</sup> Dedicated Acro 4D	as <sup>13</sup> Joint	or Infill "C	ensidatio	a Code <sup>13</sup> O	rder Na.	ł	1		<u> </u>		P	
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16						.		<sup>17</sup> OPER	ATOR	CERT	IFICATION	
								l hereby certif	fy that the inf	ormation	contained herein is browledge and belief	
					·····	+		- Signature	<u></u>		216Th	
								George Printed Name			agent for:	
								Chi Ope	1 · · · ·		c	
				<u> </u>				January Date		1 N.		
		<b>F</b> ,						I hereby certify	that the well	location	FICATION shown on this plat	
									y supervision.	and that	surveys made by the same is true	
				LC-064 Hudson	4790 n & Hude	s on		DECEMBE Date of Sorvey	10	$\overline{D}$		
								Signafire unt	<b>4</b> 9 2000	X ⊬ A⇒	vejter:	
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## **APPLICATION FOR DRILLING**

## CHI OPERATING, INC. Mustang Federal, Well No. 2 467' FSL & 1980' FEL, Sec. 18-T19S-R33E Lea County, New Mexico Lease No.: LC-064790 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Chi Operating, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Top of Salt	1482'	San Andres	4925'
Base of Salt	2823'	Delaware	5389'
Yates	3076'	Bone Spring	7655'
Seven Rivers	3235'	T.D	7900'
Queen	4165'		

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 300'.Oil: Possible in the Delaware below 5389'.Gas: None expected.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None. Logging: T.D. to 3100': LDT-CNL, DLL/msfl, GR. 3100' to surface: LDT/GR Coring: None.

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated evacuated BHP = 3200 with a temperature of 140°.
- 10. H<sub>2</sub>S: None expected, but a Drilling Operations Plan, Exhibit "F", is being submitted to cover this contingency.
- 11. Anticipated starting date: January 22, 1997. Anticipated completion of drilling operations: Approximately 4 weeks.

## EUP & CHOKE MANIFOLD

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12"/900 Cameron SS Space Saver 3000# Working Pressure 3000# Working Pressure Choke Manifold.

FLOW NIPPLE FILL LINE Adiverable DOUBLE-RAM YO SUUD KAS SEPARATOR MO PREVENTER Z KILL DRIG LEED LINE TO PIT. LINEN SPOOL CSG. TO MOTAS SCHANAIUR AND/UR PIT HEAD

> EXHIBIT "E" CHI OPERATING, INC. Mustang Federal, Well No. 2 BOP Specifications