		,			· · · · · · · · · · · · · · · · · · ·
GENERAL REQUIREMENTS ANU SPECIAL STIPULATIONS	, 174 019 - 1 Art 16 Aj	3	16 15 16 17 70	20	. 0
ATTACHED					
Form 3160-3 (August 1999) UNITED S	TATES	OCD	ECEIVED ARTESIA	OMB	M APPROVED No. 1004-0136 November 30, 2000
DEPARTMENT OF BUREAU OF LAND	THE INTERIOR	-	"SIA	<u>78/</u>	№. LC-061465(B
APPLICATION FOR PERMIT	TO DRILL OR RI	EENTER	27.17.7	6. If Indian, Allo	ttee or Tribe Name
ia. Type of Work: 🖏 DRILL	REENTER			7. If Unit or CA A	greement, Name and No. 25499
lb. Type of Well: 🛄 Oil Well 🔀 Gas Well 🛄 Othe	er 🔲 Sin	igle Zone 🔲 Mu	Itiple Zone	8. Lease Name and Iron Horse	Federal Com. #
2. Name of Operator Chi Operating, 1	Inc 437	18		9. API Well No.	- 31023
3a. Address		(include area code)		10. Field and Pool, o	
PO Box 1799 Midland, TX 79		5) 685-50			Flat; Morrow :
4. Location of Well (Report location clearly and in accordance)	nce with any State requir	ements.*)	Ţ	11. Sec., T., R., M.,	or Blk. and Survey or Area
At surface     990' FSL &       At proposed prod. zone     Same	660' FWL Unit M			Sec. 3-T1	L7S-R28E
14. Distance in miles and direction from nearest town or post o 18 miles NE of Artesi	ffiœ⁴ .a, NM			2. County or Parish Eddy	13. State NM
15. Distance from proposed* location to nearest	16. No. of Ac	res in lease	17. Spacing	Unit dedicated to this	s well
property or lease line, ft. (Also to nearest drig, unit line, if any) 660'	16	54.22		320	Post 3- 24-00
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>N/A</li> </ol>	<b>19. Proposed</b>	Depth ),250'	20. BLM/BL	A Bond No. on file NM-1616	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxim	ate date work will s	tart*	23. Estimated durati	
3534′	03	8/15/00		<u>30 days</u>	
	24. Attack		101 CON	TROULDON	IATER BASIN
<ol> <li>The following, completed in accordance with the requirements o</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service Official Surveyor of the s</li></ol>	System Lands, the	<ol> <li>Bond to cover Item 20 above)</li> <li>Operator certifi</li> </ol>	the operations cation. specific inform	unless covered by a	$\frac{2}{3}/\frac{1}{5}/\frac{5}{5}$ n existing bond on file (see as may be required by the
5. Signature		Printed/Typed) corge R. S	Smith	····	Date 02/25/00
Agent for: Chi Operat	ing, Inc.				· · · · · · · · · · · · · · · · · · ·
Approved by (Signature)		Printed/Typed)	<u>.                                    </u>	and the second s	Date
Assistant Field Manage	· · ·			ریوند، «میت  بالوگه ج	<u> </u>
Application approval does not warrant or certify the the applicant	1				

\*(Instructions on reverse)

Lease Responsibility Statement: Chi Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

George R. Smith, agent mitte

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# 2000 FEB 25 A 10: 02

BOVETO CELEVIO BOVETO CELEVIO

District I 1923 N. Prench District II 811 South Pirst, District III 1960 Rio Brusso District IV 2040 South Pach	Artonia, Nh Rd., Aztec, oco. Santa P	1 85219 NM 8741 9, NM 875	e 565	O	IL CC	7. Minerals & DNSERVA 2040 Sout Santa Fe, N	ew Mexico Natural Resource TION DIVISIC Pacheco NM 87505 REAGE DEDIC	N	Submit to Appro	Form C-102 ised March 17, 1999 priate District Office ate Lease - 4 Copies ree Lease - 3 Copies fENDED REPORT
Property	API Numb	er		Po	ni Cade		WC Crow Fla	Paul	Verne	
L		I	RON HOR	SR FF	'N <b>F</b> RA	<sup>1</sup> Property	Name		1	Welt Number
OGRID	IRON HORSE FEDERAL COM RID No. Operator Name CHI OPERATING, INC.							1 Elevation		
						<sup>10</sup> Surface	Location			3534.
UL or lot no. M	Section 3	Terrado 17-S		Lo	t ide	Foot from the	North/South Line	Feet from the	East/West lin	County
				1		990	SOUTH	660	WEST	EDDY
UL ar let me.	Section	Townshi	Di Rees		Hole	Location If	Different From			
						Feet from the	North/South Hae	Feet from the	East/West Em	County
Dedicated Acres 320	<sup>II</sup> Joint or	infi	* Consolidation C	Cede	" Order	No.	l			
NO ALLOWA	BLE WI	LL BE A	ASSIGNED	то тн		MPLETION	UNTIL A.L. INTE	PECTC LIAV	E BEEN CONSO	J

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 **OPERATOR CERTIFICATION** I horeby certify that the information contained herein is aree and o the best of my knowledge and belief Smith Recaus mued Name George R. Smith, agent The for Chi Operating, Inc. Feb. 25, 2000 **SURVEYOR CERTIFICATION** hereby certify that the well location shown on this plat was I from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief. FEARDARY FL9, 2000 LC-061465(B) MEY 660' Burlington & Enron NEER 5412 066 19

### RIG #22

### BLOWOUT PREVENTOR ARRANGEMENT

II "SHAFFER TYPE LWS, 5000 psi WP
II "CAMERON SPHERICAL, 5000 psi WP
I20 GALLON, 5 STATION KOOMEY ACCUMULATOR
5000 psi WP CHOKE MANIFOLD



EXHIBIT "E" CHI OPERATING, INC. Iron Horse Federal Com., Well No. 1 BOP Specifications





#### **APPLICATION FOR DRILLING**

#### CHI OPERATING, INC.

Iron Horse Federal Com., Well No. 1 990' FSL & 660' FWL, Sec. 3-T17S-R28E Eddy County, New Mexico Lease No.: LC-061465(B) (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:

Greyburg	1750'	Atoka Morrow	9460'
San Andres	2000'	Morrow Clastic	9760'
Abo	5440'	Mississipian	9900'
Cisco	7850'	Chester	10,150'
Canyon	8420'	T.D.	10,250'
Strawn	8910'		10,250

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 Cisco below 7850'.

Gas: Possible in the Grayburg below 1,750', Atoka below 9,460' and the Morrow below 9760'.

4. Proposed Casing Program:

	CASING SIZE	WEIGHT	GRADE	JOINT SET	<b>FING DEPTH</b>	OUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	H-40	ST&C	425'	<u>QUANTITY OF CEMENT</u> Circ. 350 sx "C" <b>UNES</b> S
12 1/4"	8 5/8 "	32.0#	J-55	ST&C	2,000'	Circ. 650 sx "C" cement.
7 7/8"	5 1/2"	+5.5#	N-80	LT&C	10.250'	475 sx of "H" to 8.000'
		17				10 57 01 11 10 6,000

 Proposed Control Equipment: A 12" 5000 psi wp Shaffer Type LWS Double Gate BOP will be installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 12 1/4" and will be tested daily. See Exhibit "E".

6	MUD	PROGR/	AM:
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0MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
	Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
	Brine mud:	10.0 - 10.2 ppg	28 - 29	No W/L control
	Fresh water mud:	8.3 - 8.4 ppg	28 - 29	No W/L control
6600' - 9100':	Cut Brine mud:	9.6 - 10.0 ppg	28 - 29	No W/L control
9100' - 9500':	Cut Brine mud:	9.6 - 10.0 ppg	32 - 36	
9500' - 10,250':		9.6 - 10.0 ppg		W/L control 10 cc +/-
,	eut Brine muu.	9.0 - 10.0 ppg	42 - 48	W/L control 8 cc +/-

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: Possible in the Strawn and Atoka.

Logging: T.D.to 6500': GR-CAL-CNL-LDT-DLL-MICRO

T.D. to Surface: GR-Neutron

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