

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NMLC -057674	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Chi Operating, Inc. 4378		7. UNIT AGREEMENT NAME 23800	
3. ADDRESS AND TELEPHONE NO. P. O. Box 1799 Midland, Texas 79702		8. FARMOR/LEASENAME WELL NO. Little Hammer Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 860' FSL & 2105' FWL At proposed prod. zone Same		9. API WELL NO. 30-075-30433	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 535'		11. FIELD AND POOL OR WILDCAT Crow Flats 75720	
12. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 196'		13. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 3-T17S-R27E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 10 road miles NE of Artesia, NM		15. COUNTY OR PARISH Eddy	
16. NO. OF ACRES IN LEASE 240		17. NO. OF ACRES ASSIGNED TO THIS WELL 320	
18. PROPOSED DEPTH 9,200'		19. ROTARY OR CABLE TOOLS Rotary	
20. ELEVATIONS (Show whether DF, RT, GR, etc.) 3490' GL		21. APPROX. DATE WORK WILL START* Sept. 21, 1998	

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"H-40	48.0# STC	400'	rc. 400 sx "C"
11"	8 5/8"K-55	24.0# STC	1,500'	Circ. 700 sx "C"
7 7/8"	4 1/2"N-80	11.6# LTC	9,200'	Tieback 700 sx "H"

## ROSWELL CONTROLLED WATER BASIN

## Mud Program

0' - 350': Fresh water Gel/Lime:  
350' - 1,500': Cut Brine:  
1,500' - 8,500': Cut Brine, seep. control:  
8,500' - 9,200': Cut Brine, seep. control:

## Mud Wt.

8.6- 9.0 ppg  
10.0-10.2 ppg  
10.0-10.2 ppg  
10.0-10.5 ppg

## - Vis.

34 - 36  
28 - 29  
28 - 29  
36 - 40

## - W/L Control

No W/L control  
No W/L control  
No W/L control  
W/L control 10cc+/-

## BOP Program:

A 11" 5000 psi wp Shaffer Type LWS BOP will installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 11" and will be tested daily.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

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.

24. SIGNED George Smith TITLE Agent for:  
Chi Operating, Inc. DATE Sept. 4, 1998

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

(ORIG. SGD.) ARMANDO A. LOPEZ

Acting

Assistant Field Office Manager,  
Lands and Minerals

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 10/8/98

\*See Instructions On Reverse Side

District I  
PO Box 1966, Hobbs, NM 88241-1966  
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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Well Name Logan Draw Morrow
Property Code	Property Name LITTLE HAMMER FED. COM		Well Number 1
OGRID No.	Operator Name CHI OPERATING, INC.		Elevation 3490

10 Surface Location

TL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	3	17S	27E		860	SOUTH	2100	WEST	EDDY

11 Bottom Hole Location If Different From Surface

TL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code C	15 Order No.						

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

16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature George R. Smith Printed Name Agent for: Chi Operating, Inc. Title September 4, 1998 Date	
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was placed 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. SEPT. 2, 1998 Date of Survey Signature and Seal of Surveyor DAN R. REDDY NEW MEXICO REGISTERED LAND SURVEYOR 5412 PROFESSIONAL ENGINEER Certificate Number NM PRAPS	
LC-057674 Conoco					
2100'		860'			

# BLOWOUT PREVENTION SCHEME

Shaffer 13 3/8" - 5,000 psi LWS Double Gate, 5,000 psi Shaffer Annular with 4" x 3" - 5,000 psi Oilmaster Choke Manifold and Kookey 6 Station Closing Unit, and 120 gallon Accumulator with Remote Control Panel

