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OCD-ARTESIA

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCT 07 2008

OCD-ARTESIA

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals

5 Lease Designation and Serial No  
NM-0560353

6 If Indian, Allottee or Tribe Name

*SUBMIT IN TRIPLICATE*

7 If Unit or CA, Agreement Designation

1 Type of Well

Oil Well     Gas Well     Other

8 Well Name and No

Munchkin Federal #4

2 Name of Operator

CHI OPERATING, INC.

9 API Well No

30-015-33933- 33380

3 Address and Telephone No

P.O. BOX 1799 MIDLAND, TEXAS 79702

10. Field and Pool, or Exploratory Area

BENSON DELAWARE

4 Location of Well (Footage, T, R, M, or Survey Description)

330' FNL & 1980' FWL, Sec. 12 T19S-R30E

11 County or Parish, State  
Eddy

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

Abandonment     Change of Plans  
 Recompletion     New Construction  
 Plugging Back     Non-Routine Fracturing  
 Casing Repair     Water Shut-Off  
 Altering Casing     Conversion to Injection  
 Other Adding perms     Dispose Water

(Note Report results of multiple completion on Well  
Completion or Recompletion Report and Log form )

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)\*

Chi Operating, is planning to perforate and stimulate additional Delaware pay in this wellbore. The following pay intervals will be added to the existing producing zones: 4818-56', 4806-4810', 4772-48' and 4610-22'. Procedure is attached.

ACCEPTED FOR RECORD

OCT 8 2008

Gerry Guve Deputy Field Inspector

14 I hereby certify that the foregoing is true and correct

Signed

*Pam Corbett*  
PAM CORBETT

Title

432-685-5000 District II ARTESIA  
REGULATORY CLERK

Date

8/28/08

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any

APPROVED  
Date OCT 4 2008  
JAMES A. AMOS  
SUPERVISOR-EPS

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

**Add Upper Delaware Pay:**

Chi Operating, Inc. - Munchkin Fed. #4 Location:330' FNL & 1980' FWL, Section 12-T19S-R30E  
API #30-015-33933 NM-0560353  
Eddy County, New Mexico  
ELEVATION: GL - 3457' KB - 3471'

**SUPERVISORY PERSONNEL:**

Sonny Mann 432-634-7062 Gary Womack 432-634-8958

**CURRENT WELLBORE:**

KB	14'			
Surf Csg:	@ 506'	9 5/8", 40#, J-55		
Prod Csg.:	@ 5526'	5 1/2" -17# - J-55 -		<u>Burst:80% / Collapse: 80%</u>
	ID	4.892"		5320:4250 / 4910:3930
	Drift:	4.767"		
	Capacity:	.0232 bbls/ft		
	Float Collar @	5484'		
	DV Collar @	3893'		
	TOC: 1 <sup>st</sup> stage:	Circ 63 sks off DV.		
	2 <sup>nd</sup> stage:	Circ 53 sks to pit.		
Tbg Head:	2 7/8" x 7 1/16"-3M.			
			<u>ID:</u>	<u>Drift:</u>
Prod Tbg:	2 7/8"-6.5#-J-55, 8rd.		2.441"	2.347"
Capacity:	.0058 bbl/ft			<u>Burst:80% / Collapse: 80%</u>
Capacity annulus:	.0152 bbl/ft			7260:5800 / 7680:6100

**FORMATION:**

Existing Perfs: 5010-16, 5030-45' . 4982-4989', 4968-69', 4955-4964 and 4941-4945' - 2SPF-60 deg  
Est. F. Gradient: .60  
BHP: +2100#  
BHT: 100 deg. F

**Completion Procedure: November Sand (Upper)**

MIRU DDP. NUBOP (screw on -2000#.)

POOH w/production string.

TIH w/4" gun w/packoff. Tie in & perforate selected intervals @ 2SPF-60 deg. 4806-4810', and 4818-4856'.

PU RBP and J Lok Pkr, (2 3/8 x 5 1/2"), SN, XO, & TIH. Set RBP @ approx 4920'

Acidize/Frac as warranted. (See below).

PU to btm perf & spot 3 bbls of 7.5% NeFe across perfs. PUH & reverse 3 bbls of 2% KCL & reset Pkr.

(If there is fld. entry) Load & PSI annulus to 500# w/2% KCL. Monitor during treatment. Acidize w/2000 gals of acid & 2000 gals of gelled pad @ 3 bpm @ an est. STP of 1300#, as follows:

Note: If acid spot is necessary do not get over zealous when breaking down.

- a). Pmp 666 gals of 7.5% NeFe Acid
- b). Pmp 500 gals of gelled Pad w/500 lbs of 20/40 mesh sand.
- c.). Drop 30, 1.1 sp.gr. ball sealers.
- d). Repeat, a, b, & c.
- e). Repeat, a & b.

Flush to top perf. w/2% KCL. Recover load & tst. Evaluate for further stimulation.

If frac is WARRANTED have frac design run using 15,000 gals of Medallion 3000, 24000 lbs 16/30 white, 10000 lbs 16/30 CRS @ 9 bpm via tbg @  $\pm$ 1800 STP as follows: 5000 gals pad, 1000 gals w/1 ppg, 1000 gals w/2 ppg, 3000 gals w/3 ppg, 3000 w/4 ppg, & 2000 gals w/5 ppg 16/30 CRS sand.

Additional Zones to Perf:

Mike Sand: 4772-4794'

Tinman Sand: 4610-4622'

Lima Sand: 4641-4648'