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Form 3160-3 (August 1999)		ARTESIA, NM 882		FORM OMB N	APPROVED 0. 1004-0136	01.
UNITED STATE				Expires No	ovember 30, 2000	
DEPARTMENT OF THE I			1	5. Lease Serial No		
BUREAU OF LAND MANA		1118192027	/	NM-0560353		
APPLICATION FOR PERMIT TO D	/.¥		222	6. If Indian, Allotte	e or Tribe Nan	ne
la. Type of Work: 🗹 DRILL 🔲 REENTE	ER (21		2526	7. If Unit or CA Age	reement, Name 2711	and No.
1b. Type of Well: 🖸 Oil Well 🗖 Gas Well 🗖 Other	5	Single Zoot D Multi		8. Lease Name and V Munchkin Federal,		<u> </u>
2. Name of Operator	6	22	N°/	API Well No.		
Chi Operating, Inc. 13/2			°/	30-01	5-3	1779
3a. Address	3b. Phone N			10. Field and Pool, or	Exploratory	
P.O. Box 1799 Midland, TX 79702	(915) 685			Benson Bone Spri		
4. Location of Well (Report location clearly and in accordance with	any State requ	uirements. *)		11. Sec., T., R., M., o	r Blk. and Surv	ey or Area
At surface 1980' FSL & 660' FW L	6					
At proposed prod. zone same \mathcal{W}	1			Sec. 1-T19S-R 30E		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13.	State
16 road miles S. of Loco Hills, NM				Eddy	NM	
 Distance from proposed* location to nearest property or lease line, ft. 	16. No. of .	Acres in lease	17. Spacing	g Unit dedicated to this	well	
(Also to nearest drig. unit line, if any) 660'	21	60.32		40		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose	ed Depth	20. BLM/BIA Bond No. on file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	6,700'			M-1616		<u> </u>
3526' GL		kimate date work will st 4/01		23. Estimated duration 3 weeks		
المتالية المالية الم	24. Atta	chments		Non Carlo Basil	ilator Bast	1
The following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No. I, shall be attr	ached to this	form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certifica	tion. pecific info	unless covered by an rmation and/or plans a	-	·
25. Signature	Name	(Printed/Typed)			Date	
Jeorges Smith	Geor	ge R. Smith			04/18/01	
Title						
Agent for Chi Operating, Inc.						
Approved by (SORIG. SGN.) M. J. CHAVEZ	¦ Name	(Printed Typed) (OR States)	ತ್ರಿವೆ ಲ್ ಕ್ರಿಸ್ಟ್ ಲ್ ಲ್ ಲ್ ಹಾ		DaMAY U	1 2001
Title STATE DIRECTOR	Offic	· NM 50				
Application approval does not warrant or certify that the applicant holds operations thereon. Conditions of approval, if any, are attached.	legal or equita	ble title to those rights in		ease which would entitl	e the applicant	to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i States any false, fictitious or fraudulent statements or representations as	t a crime for a to any matter w	ny person knowingly and vithin its jurisdiction.	d willfully to	o make to any departme	ent or agency of	f the United
*(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.

1. Constant Jacob Q 5/5 Constant CIRCULATED

George R. Smith, agent APPROVAL SUBJECT TO CENERAL RECEIPTER AND CONTRAL RECEIPTER AND CONTRAL STOPPLETERS

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	N. French Dr., Hobbs, NM 88240 Energy, Minerals & Natural Resources									Form C-102 Revised March 17, 1999				
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	- Dearge R. Ameth
	SignaturgGeorge R. Smith, agen
	Printed Name Chi Operating, Inc.
NM-0560353	Thie April 18, 2001
	Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this play is
	plotted from field notes of actual surveys made by me
660 0	or under my supervision, and that the same is true and co
	to the best of my belief.
	MARCH 24B PODI
à la constantina de la constan	Date of Auro® Signature and Set of ProfessionalSurveyor
× 1986/	BE 5412
	NM PEEPSONES 944

APPLICATION FOR DRILLING

CHI OPERATING, INC. Munchkin Federal, Well No. 4 1980' FSL & 660' FWL, Sec. 1-T19S-R30E Eddy County, New Mexico Lease No.: NM-0560353 (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:

Anhydrite	400'	Delaware	4170'
Yates	2240'	Bone Spring	6175'
Seven Rivers	2430'	B/S Avalon Sand	6500'
Queen	3050'	T. D.	6700'

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 Queen, Delaware and Bone Spring.

Gas: Possible in the Bone Spring.

4. Proposed Casing Program:

8.

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT SET	FING DEPTH	QUANTITY OF CEMENT	WITNESS
12 1/4"	9 5/8"	36.0#	J-55	ST&C	475'	Circ. 400 sx "C" + add.	V a T T T T T
8 3/4"	7"	23.0#	J-55	LT&C	3,200'	Circ. 450 sx "C" + add.	*DERTRICE
6 1/4"	4 1/2"	11.6#	N-80	LT&C	6,700'	Circ. 450 sx "C" + add. 1 st stage +/- 500 sx "C"	1993 3 1 S E 28 2
					,	2 nd stage +/- 700 sx "C"	

* NOTE: If severe lost circulation is NOT encountered, the 8 3/4" hole will be reduced at 3200' to 7 7/8" and drill aheadWITHOUT setting the 8 5/8" casing. See following casing program.7 7/8"5 1/2"15.5#J-55LT&C6,700'Circ in 2 stages: 1200 sx of "C"

5. Proposed Control Equipment: A 10" 3000 psi wp Shaffer Type "E" double hydraulic ram BOP will be installed on the 9 5/8" casing. Casing and BOP will be tested before drilling out with 12 1/4" and will be tested daily. See Exhibit "E".

6. MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
0' - 475':	Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
475' - 3200':	Brine mud:	10.0 ppg	29 - 30	No W/L control
3200' - 6700':	Brine mud:	10.0 ppg	29 - 32	No W/L control
Without Intermediate	e casing:			
0'- 475':	Fresh water spud mud	8.4 - 8.7 ppg	32 - 34	No W/L control
475' - 6700':	Brine mud	10.0 ppg	29 - 30	W/L cont. < 15 cc @ TD

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

Testing, Logging, and	d Coring Program:	:
Drill Stem Tests	As deemed nece	ssary.
Logging:	T.D thru pay:	GR-CAL-CNL-LDT-DLL-MICRO
	T.D. to Surface:	GR-Neutron
Coring:	Rotary Sidewall:	As dictated by logs.

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 = 2680 with a temperature of 127°.

- -

- 10. H,S: None expected.
- Anticipated starting date: May 14, 2001. Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC Munchkin Federal, Well No. 4 1980' FSL & 660' FWL, Sec. 1 -T19S-R30E Eddy County, New Mexico Lease No.: NMLC-0560353 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Hackberry Lake Topo map showing the location of the proposed well as staked. The well site location is approximately 36 road miles southeast of Artesia, NM. Traveling east of Artesia on U.S. Highway 82, NM Hwy 360 and county roads No. 450 and 251, there will be 33 miles of paved highway, plus 3 miles of existing gravel oilfield roads.
- B. Directions: Travel east from U. S. Highway #285 in Artesia, NM on U. S. Highway 82 for approximately 14 miles, turn southeast on NM Hwy 360 for approximately 13 miles to paved County Rd #251. Turn north on #251 for 1.8 mile to County Rd. # 250, then turn right on #250 for 3.8 miles to top of Nimenim Ridge. Turn south onto a gravel oilfield road just west of a cattle guard with a pipeline buried near the road. Continue south for .8 mile to a large tank battery and injection pump house; turn right (west) for .25 mile to a pump jack, then south (left) for .63 mile to a P/A well site with a gas line tap. Turn right (west) for a .3 mile, to the northeast corner of the proposed well site for the Munchkin Fed., #3. The existing two track access road will have to be detoured around this well pad and continue west for .2 mile to the start of the proposed access on the left (south). The access road will run southwest for 300 feet to the northwest corner of the pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be constructed to a width of 12 feet (24' Max.) and approximately 300 feet in length. The proposed and existing roads are color coded on Exhibit "A".
- B. Construction: The new access road will be constructed by grading and topping with compacted caliche. The existing access road will be graded and repaired as required.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: No cuts or fills required.
- F. Gates, Cattle guards: None required.
- G. Off Lease ROW: An off lease ROW No. NM-102279 was issued with a previous APD covering the existing access road in the E2 of Sec. 1-T19S-R30E.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Chi Operating, Inc. has production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities and gas production-process equipment will be installed on the drilling pad. All necessary oil and water lines will be run parallel to the existing access road to the Munchkin Fed. #1 tank battery. The flow lines will be 3" poly including a gas line that will run parallel to the existing access road east to a gas hook up point in the NW4SE4 Sec. 1-T19S-R30E.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from a pit on the location, if available, or from a Federal pit in the NW¼SW¼, Sec. 26-T18S-R30E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 200' X 140', plus 80' X 80' reserve pits on the east.
- C Cut & Fill: The location will require a cut of 2-3 foot cut on the east with fill to the west.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to be worked.

11. OTHER INFORMATION:

- A. Topography: The well site and access road are located in a area on top of the Niminem Ridge with small hummocky dunes. There is an overall 1% slope to the northeast from an elevation of 3526' GL.
- B. Soil: The topsoil at the well site is a deep reddish brown colored sandy loam with some caliche scatter on the surface. The soil is of the Simona Gravelly Fine Sandy Loam complex series.
- C. Flora and Fauna: The vegetation cover is a fair to good grass cover of threeawn, grama, dropseed, fluff grass, along with plants of mesquite, broomweed, yucca, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area except oil field equipment and tank batteries.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no evidence of any archaeological, historical or cultural sites in the area. Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202 are conducting an archaeological survey, and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved use and operations plan is as follows:

John Qualls Chi Operating, Inc. P. O. Box 1799 Midland, Texas 79701 Office Phone: (915) 685-5001 Home Phone: (915) 684-6847

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chi Operating, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

April 18, 2001

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George R. Smith $^{\mathcal{O}}$ Agent for: Chi Operating, Inc.



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 950 ft Scale: 1 : 24,000 Detail: 13-0 Datum: WGS84

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CapStar Drilling, Inc. LOCATION SPECIFICATIONS



Location Specs



Munchkin Federal, Well No. 4 BOP Specifications