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Form 3160-3 (August 1999) UNITED ST	ATES	. OH Cons.	Divisio	FORN OMB Expires N	1 APPROVED No. 1004-0136 Iovember 30, 2000	
DEPARTMENT OF T BUREAU OF LAND N	HE INTERIOR			5. Lease Serial No NM-0560353	D.	
APPLICATION FOR PERMIT		BRITIN 882	10.5034	6. If Indian, Allott	ee or Tribe Name	
la. Type of Work: 🗹 DRILL 🔲 RI	EENTER			7. If Unit or CA A	2710	nd No.
1b. Type of Well: 🗹 Oil Well 🗖 Gas Well 🗖 Other		ingle Zone 🔲 Mult	tiple Zone	8. Lease Name and Munchkin Federa		
2. Name of Operator Chi Operating, Inc. 4378				9. API Well No. 30-015	-3177	18
3a. Address		o. (include area code)		10. Field and Pool,	• •	
P.O. Box 1799 Midland, TX 79702	(915) 685-5			Benson Bone Sp 11. Sec., T., R., M.,		v or Area
4. Location of Well (Report location clearly and in accordance	e with any State requi	rements. *)		11. Sec., 1., K., M.,	or Bik. and Survey	y of Alea
At surface 990' FSL & 660' FWL At proposed prod. zone same	M TI			Sec. 1.T19S-R305	STI 18 1920	2123
14. Distance in miles and direction from nearest town or post of	fice*	n (), (), () = () = () () () () () () ()		12. County or Paris	b 13. S	
16 road miles S. of Loco Hills, NM				Eddy 🖉		2
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660' 		Acres in lease 50.32	17. Spacing	40		153/1" 279759
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1552' 	19. Propose 6,700'	d Depth		IA Bond No. on the		C OF OL
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will s		23. Estimated dura	tion 1534	
3523' GL	4,0	5,01		3 weeks		
Socretary's Potash	24. Atta		C		led Water Ba	ein
 The following, completed in accordance with the requirements of Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service Officient 	System Lands, the	 Bond to cover the second to cover the second term and the second term in the second term of the second term is the second term in the second term is the	he operations cation. specific info	form: unless covered by a rmation and/or plans	-	
25. Signature	Name	: (Printed Typed)			Date	
- Deorge - Smith	Georg	ge R. Smith			03/14/01	
Title						
Agent for Chi Operating, Inc. Approved by (Signature) (ORIG. SGN.) M. J. CHÁVEZ	Name	(Printed/Typed)			Date MAY U 7	2001
Title STATE DREDTOR	Office	° NM So	>			
Application approval does not warrant or certify that the applican operations thereon. Conditions of approval, if any, are attached.	t holds legal or equital	ble title to those rights		lease which would ent PROVAL		o conduct
					· · · · · · · · · · · · · · · · · · ·	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representat			and willfully t	o make to any depart	ment or agency of	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.

DECLARED VOLTER BASING." CEMENT BEHIND THE <u>9%</u> CASING MUST BE <u>CIRCULATED</u>

George R. Smith, agent

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED



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BUREAU OF LAND MGMT. BUREAU OF LAND MGMT.

<u>District I</u> 1825 N. French Dr., Hobbs, NM 88240 District II				State of New Mexico Energy, Minerals & Natural Resources					Revised	Form C-102 March 17, 1999
811 South First, Art District III 1000 Rio Brazos Rd			OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505					Submit to Appropriate District Offic State Lease - 4 Copic Fee Lease - 3 Copic		
District IV 2049 South Pacheco	», Santa Fe.		LLLO	CATION	I AND ACF	REAGE DEDIC	CATION PI] AMEN	NDED REPORT
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⁴ Property Co	ode	MUN	ICHKIN	FEDERA	' Property N	Vame			2	
OGRID N	o.			"Operator Name OPERATING INC.				'Elevation 3523.		Elevation 3523
	<u> </u>	<u> </u>			¹⁰ Surface	Location				
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UL er lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from th	e Ens	st/West line	County
¹¹ Dedicated Acres 40	Joint of	r Infili ¹⁴ Cor	modication (Cede ^{IS} Ori	rder No.					
NO ALLOWA	ABLE W	ILL BE ASS	SIGNED	TO THIS	COMPLETION	N UNTIL AL INT	'ERESTS HA' Y THE DIVIS	VE BEEN SION	CONSOI	LIDATED OR A
16	1			T			" OPE	ERATOR		IFICATION

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		1	complete to the best of my knowledge and belief
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			Deargie Smith
			Signature George R. Smith, agent fo
			Signature George R. Smith, agent for
			Printed Name Clair Operations Tax
			Printed Name Chi Operating, Inc.
	1		Thie March 14, 2001
			Date
			¹⁸ SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this plat was
			plotted 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.
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BUREAU OF LAND MGMT. ROSWELL OFFICE

APPLICATION FOR DRILLING

CHI OPERATING, INC. Munchkin Federal, Well No. 2 990' 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	TING DEPTH	QUANTITY OF CEMENT	
12 1/4"	9 5/8"	36.0#	J-55	ST&C	475'	Circ. 400 sx "C" + add.	SHALL S
8 3/4"	7"	23.0#	J-55	LT&C	3,200'	Circ. 450 sx "C" + add. *	
6 1/4"	4 1/2"	11.6#	N-80	LT&C	6,700'	1 st stage +/- 500 sx "C"	
						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 ahead WITHOUT setting the 8 5/8" casing. See following casing program.

7 7/8" 5 1/2" 15.5# J-55 LT&C 6,700' 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 neces			ing a the
Logging:	T.D thru pay:	GR-CAL-CNL-LDT-DLL-MICRO		19 A.L.
	T.D. to Surface:			
Coring:	Rotary Sidewall:	As dictated by logs.	5 <u>5</u> 12	15 24 3: 31



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BUREAU OF LAND MGMT

Chi Operating, Inc. Munchkin Federal, Well No. 2 Page 2

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: April 4, 2001. Anticipated completion of drilling operations: Approximately 30 days.



MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC Munchkin Federal, Well No. 2 990' 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. 250 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, then south .25 mile to the Munchkin Fed. #1 well site. The proposed access road will start at the northwest corner of this well pad and run west for approximately 1300 feet to the SE corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 1300 feet of new access roads 12 feet wide (24' Max.). 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.

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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. Three (3) inch poly flow lines for gas, oil and water, as required or needed, will be run back parallel to the proposed access road to the Munchkin Fed. #1 tank battery. An electric power line will also be run from the Munchkin Fed. #1 well site parallel to the proposed access road to the Munchkin Fed. #2 well site.

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.

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BUREAU OF LAND MGMT. ROSWELL OFFICE Chi Operating, Inc. Munchkin Federal, Well No. 2 Page 3

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 north.
- C Cut & Fill: The location will require a cut of 2 foot cut on the south with fill to the north.
- 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 southwest from an elevation of 3523' GL.
- B. Soil: The topsoil at the well site is a deep reddish brown colored sandy loam with considerable scatter of caliche rock on the surface with more rock to the south side. The soil is of the Simona Gravelly Fine Sandy Loam complex series.
- C. Flora and Fauna: The vegetation cover is a fair to poor grass cover of threeawn, grama, dropseed, fluff grass, along with plants of mesquite, creosote bush, 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 area.
- E. Residences and Other Structures: None in the area except oil field equipment and tank batteries. There is a fence 200 to 250 feet to the west of the location.
- 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.

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BUREAU OF LAND MGMT, ROSWELL OFFICE Chi Operating, Inc. Munchkin Federal, Well No. 2 Page 4

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.

March 12, 2001

a.R. Amith

George R. Smith Agent for: Chi Operating, Inc.

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BUREAU OF LAND MGMT. ROSWELL OFFICE



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

CHI OPERATING, INC. Munchkin Federal, Well No. 2 Pad & Pit Layout



BOP Schematic





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