Form 3160-3 (August 1999)

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ARTESIA, TAN KARTO-1994

FORM APPROVED OMB No. 1004-0136

## UNITED STATES DEPARTMENT OF THE INTERIOR

876

Expires November 30, 2000

5. Lease Serial No.

APPLICATION FOR PERMIT TO DRILL OR REENTER    10. Type of Work:   DRILL	BUREAU OF LAND MANAGI	EMENT	• 10		NM-0560353		
In Type of Work:   DRIII.   REFENTER   Referrer   Ref			EENTER		6. If Indian, Allottee or	Tribe Name	
1b Type of Well:	la. Type of Work: 😡 DRILL 🔲 REENTER		7. If Unit or CA Agreement, Name and No.				
Chi Operating, Inc.  3a Address  P.O. Box 1799 Midland, TX 79702  At surface 1200 FSL & 2150 FEL At proposed prod zone same  Subject To Like Approval by State requirements.   At surface 1200 FSL & 2150 FEL At proposed prod zone same  Subject To Like Approval by State requirements.   At surface 1200 FSL & 2150 FEL At proposed prod zone same  Subject To Like Approval by State  Sec. 1-T19S-R30E  14. Distance in miles and direction from nearest town or post office.   15. Distance from proposed relating to lease line. It [Also to nearest dig unit line, if any) 120.   16. No. of Acres in lease property or lease line. It [Also to nearest well, drilling, completed, applied for, on this lease, It. 930.   17. Spacing Unit dedicated to this well proposed by the nearest well, drilling, completed, applied for, on this lease, It. 930.   18. Distance from proposed location.   19. Proposed Depth proposed Dept	Ib. Type of Well:	ole Zone					
4 Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface 1200' FSL & 2150' FEL At proposed prod zone same  10 Distance in miles and direction from nearest town or post office*  11 Distance from proposed* location to nearest property or lease line. ft. (Also to nearest drig, unit line, if any) 120'  12 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  3501' GL  16 Following, completed in accordance with the requirements of Onshore Oil and Gas Order No L shall be attached to this form.  1 Well plat certified by a registered surveyor.  2 A Drilling Plan.  3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Name (Printed Typed)  Date  Date  Name (Printed Typed)  Date  Date  Date  Date	1127				30-015	- 3202	
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At surface 1200' FSL & 2150' FEL At proposed prod zone same    At proposed prod zone same	P.O. Box 1799 Midland, TX 79702	915) 685-50	001		Benson Bone Spring		
At proposed prod zone same    At proposed prod zone same   Subject to Like Approval By STATE   Sec. 1-T195-R30E     A Distance in miles and direction from nearest town or post office*   12. County or Parish   13. State     Eddy			rements. *)		11. Sec., T., R., M., or Blk. and Survey or Area		
At proposed prod zone same    A proposed prod zone same   Sec. 1.719S.R30E     A proposed proposed proposed proposed location to nearest property or lease line, ft. (Also to nearest drig unit line, if any) 120'     A proposed proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 930'     A proposed proposed proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 930'     A proposed proposed proposed proposed location*     B Distance from proposed location*     19. Proposed Depth   20. BLM/BIA Bond No. on file     20. BLM/BIA Bond No. on file     21. Elevations (Show whether DF, KDB, RT, GL, etc.)     3501' GL   Secretary's Potash   24. Attachments     24. Attachments   23. Estimated duration     3 weeks     3 weeks     24. Attachments   23. Estimated duration     3 weeks     24. Attachments   24. Attachments     25. Secretary's Potash   24. Attachments     4. Bond to cover the operations unless covered by an existing bond on file (settlem 20 above)     5. Operator certification.     6. Such other site specific information and/or plans as may be required by the authorized officer.     5. Signature   Amanthe   Amanthe   Amanthe     6. Such other site specific information and/or plans as may be required by the authorized officer.     5. Signature   Amanthe   Amanthe   Amanthe     6. Such other site specific information and/or plans as may be required by the proposed by (Signature)   Signature   Signatur	AUSILIAUS LZOO ESL & ZISO SEL		~~~	- A 194 (100			
14 Distance in miles and direction from nearest town or post office* 16 road miles S. of Loco Hills, NM  15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 120'  18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start*  23. Estimated duration 3501' GL  24. Attachments  Captan Controlled Water Basin  16. No. of Acres in lease location to nearest drig, unit line, if any) 120'  21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3 weeks  Secretary's Potash  24. Attachments  Captan Controlled Water Basin  16. No. of Acres in lease 17. Spacing Unit dedicated to this well 20. BLM/BlA Bond No. on file NM-1616  21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3501' GL  22. Approximate date work will start* 23. Estimated duration 3 weeks  Secretary's Potash  24. Attachments  Captan Controlled Water Basin  18. State NM-1616  29. Proposed Depth 6,700' NM-1616  21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3 weeks  Secretary's Potash  24. Attachments  Captan Controlled Water Basin  25. Operator certification. 26. Such other site specific information and/or plans as may be required by the authorized officer.  Name (Printed Typed) George R. Smith  O5/10.01  Title  Agent for Chi Operating, Inc.  Approved by (Signature)   St. RiCHARD A. Mater. Printed Typed) Date	At proposed prod. zone same	LIKE AP	PHOVAL BY SI		Sec. 1-T19S-R30E		
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Agent for Chi Operating, Inc.  Approved by (Signature) /S/ RICHARD A 14/1/17: Pri	Dear Amith George R. Smith				Ç	5/10/01	
Approved by (Signature) /S/ RICHARD A 14/1/17: Port	Title						
Approved by (Signature) /S/ RICHARD A 14/1/17: Port	Agent for Chi Operating, Inc.						
A. WHITLEY ISI RICHARD A. WHITLEY SEP 2 6 200	Approved by (Signature) ISI RICHARD A. WHITLEY	Name		RD A. WI		sep 2.6 2001	
ASSOC. STATE DIRECTOR Office NM STATE OFFIC	ASSUC. STATE DIRECTOR		NIM S				
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, are attached.  APPROVAL FOR 1 YEAR	operations thereon.	egal or equitab	de title to those rights i	n the subject APPF	lease which would entitle to ROVAL FOR	he applicant to conduct  1 YEAR	

\*(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.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

George R. Smith, agent

Ocb

DECLARED WATER BASIN CEMENT BEHIND THE CASING MUST BE CIRCULATED

NM SEATE

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District i

### State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

1825 N. French Dr., Hobbs, NM 88240 District II

\$11 South First, Artesia, NM \$8218

District III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505 Submit to Appropriate District Office

State Lease - 4 Copies

☐ AMENDED REPORT

Fee Lease - 3 Copies

DISTRICT TA					
2846 South Pacheco, Santa Fe, NM	B7505				
		_	 4 4 1 5	AODELOE	DED

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Name
Benson Bone Spring

Property Code

Well Number

Well Number

Spring

Well Number

CHI OPERATING INC.

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Name
Benson Bone Spring

Well Number

Spring

Spring

Well Number

Spring

Spring

Well Number

Spring

Well Number

Spring

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10 Surface Location East/West time Feet from the North/South line Feet from the Lot Ida UL er lot no. Section Township Range **EAST EDDY** 2150 SOUTH 1200 30-E 19-S 0

UL or lot no. Section Township Range Let Idn Foot from the North/South line Feet from the East/West line County

"Dedicated Acres 1" Joint or Infill 1" Consolidation Code 1" Order No.

40

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL AL INTERESTS HAVE BEEN CONSOLIDATED OR A

NO ALLOWA	NO	N-STANDARD UNIT	HAS BEEN APPR	OVED 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, agent for
				Printed Name Chi Operating, Inc.
				Twie May 10, 2001
				18SURVEYOR 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 balled R E D D  APRILE NI 2 1/2001
		0	2150	Date of Survey Signature and Sea of Profiguration Profits Surveyer.
,		,002	nм-0360353	Shrature and Sea of Profincional Surveyor.  Surveyor and Sea of Profincional Surveyor.  Surveyor and Sea of Profincional Surveyor.  PROPESSIONAL
		120		NM PEGPS NO. 54 1

#### APPLICATION FOR DRILLING

#### CHI OPERATING, INC.

Munchkin Federal, Well No. 5
1200' FSL & 2150' FEL, 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:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT S	ETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36.0#	J-55	ST&C	475'	Circ. 400 sx "C" + add.
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 <sup>st</sup> stage +/- 500 sx "C"
						2 <sup>nd</sup> 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" 17.0# 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.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None.

Logging: T.D thru pay: GR-CAL-CNL-LDT-DLL-MICRO

T.D. to Surface: GR-Neutron

Coring: Rotary Sidewall: as dictated by logs.

Chi Operating, Inc. Munchkin Federal, Well No. 5 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.
- 11. Anticipated starting date: June 11, 2001.

  Anticipated completion of drilling operations: Approximately 30 days.

#### MULTI POINT SURFACE USE AND OPERATIONS PLAN

#### CHI OPERATING, INC

Munchkin Federal, Well No. 5
1200' FSL & 2150' FEL, Sec. 1 -T19S-R30E
Eddy County, New Mexico
Lease No.: NM-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 water injection pump house; turn right (west) for .25 mile to a pump jack, then south (left) for .8 mile to a well site and road turns east. The proposed access road will start just north of this well site on the west (right) and detour around the west side of the well pad and run south for 900 feet to the southeast corner of the proposed 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 900 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.

Chi Operating, Inc. Munchkin Federal, Well No. 5 Page 2

#### 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 inch poly oil and water flow lines will be run west to the Munchkin Fed. #1 tank battery. A 3" poly gas flow line will run north, parallel to the proposed access road, 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 north.
- Cut & Fill: The location will require a cut of 3.5 foot cut on the north with fill to the south.
- 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 drainage cuts on the east and west and a drop off to the south. There is an overall 3% slope to the southeast from an elevation of 3501' GL.
- B. Soil: The topsoil at the well site is a deep reddish brown colored 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 sparse grass cover of threeawn, dropseed, fluff grass, along with plants of mesquite, creosote bush, javalina bush, broomweed, yucca, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, 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.

Chi Operating, Inc. Munchkin Federal, Well No. 5 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

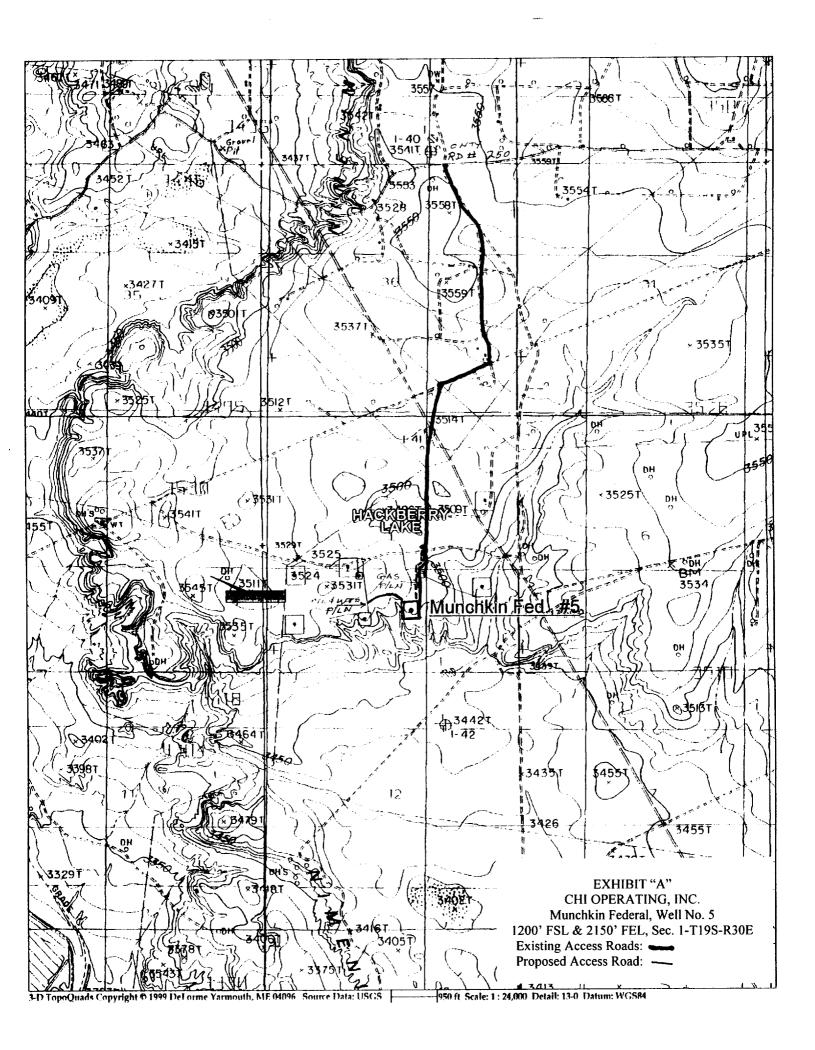
#### 13. CERTIFICATION:

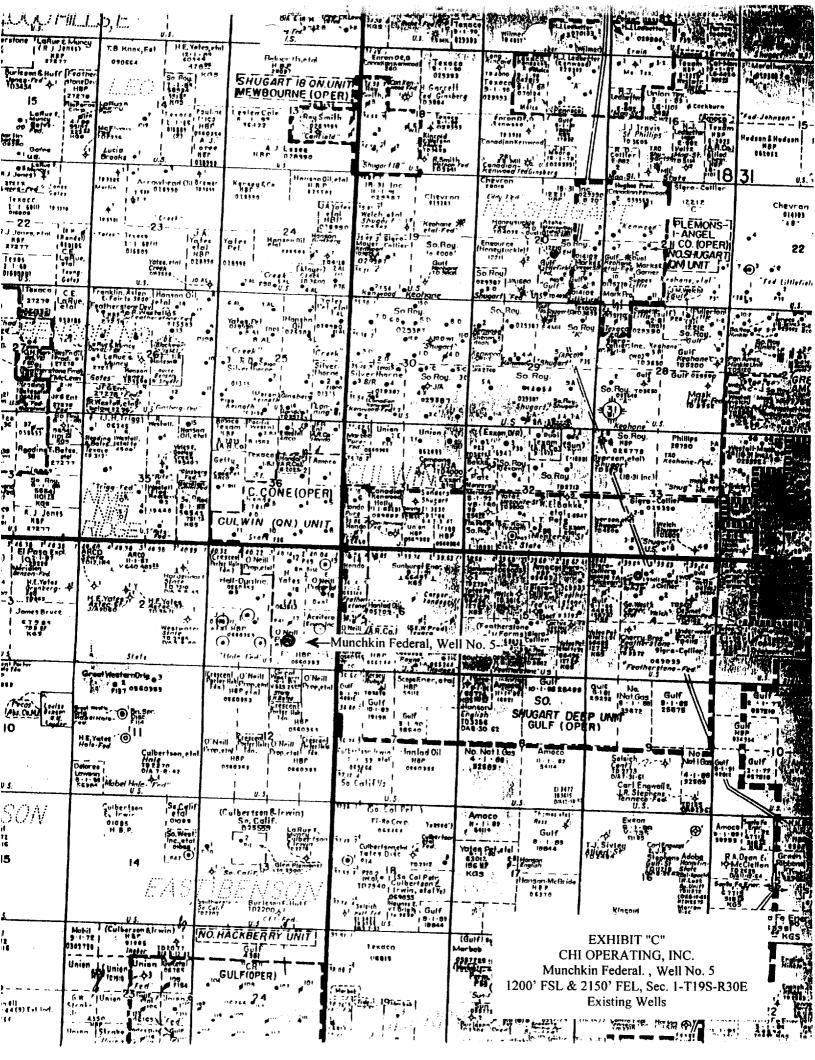
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will 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.

May 10, 2001

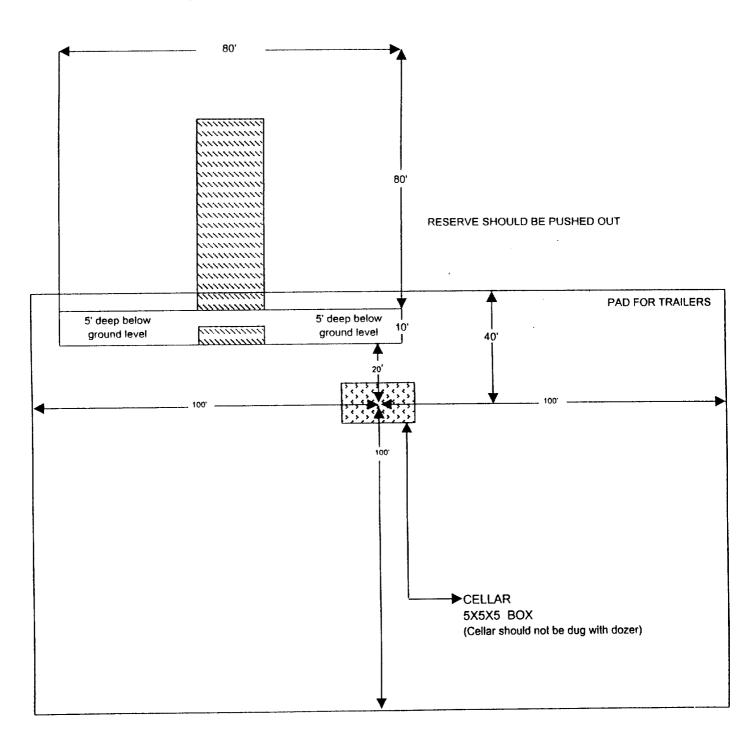
George R. Smith

Agent for: Chi Operating, Inc.





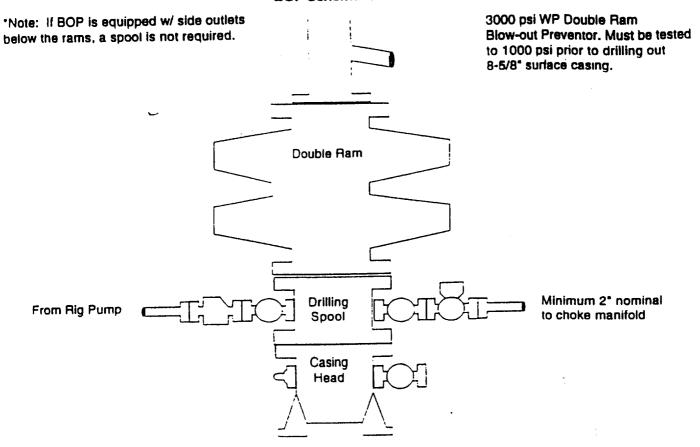
# CapStar Drilling, Inc. LOCATION SPECIFICATIONS



Location Specs

EXHIBIT "D"
CHI OPERATING, INC.
Munchkin Federal, Well No. 5
Pad & Pit Layout

#### **BOP Schematic**



#### **Choke Manifold Schematic**

