(August 1999)

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 **UNITED STATES**

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 1.1. OH Cons. Divis of Lease Serial No. BUREAU OF LAND MANAGEMENT 1.1. OH CONS. Divis of Lease Serial No.

BOILERO OF EARING WHITE CONTENTS	Aller C.
APPLICATION FOR PERMIT TO DRILL OR	ESTART Street

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMI	Artesia.	NM 88	210-283	34	
la. Type of Work: DRILL	REENTER	14000		7. If Unit or CA Agr	eement, Name and No.
1b. Type of Well: Oil Well Gas Well Otl	her Single Zone	□ v:	1. 7	8. Lease Name and W	
2. Name of Operator	Single Zone	Multip	oie Zone	Wizard Federal, W	ell #3
1175				9. API Well No.	22.14
Chi Operating, Inc.	3b. Phone No. (include a	man aada)		30-015-3	
P.O. Box 1799 Midland, TX 79702	(915) 685-5001	rea coae)		10. Field and Pool, or	•
4. Location of Well (Report location clearly and in accorded				Benson Bone Sprin	Blk. and Survey or Area
At surface 1980' FSL & 2310' FEL .		ı		11. 500., 1., 1., 1., 01	Dik. und Survey of Area
At proposed prod. zone same () wit]	POTASH	1		Sec. 1-T19S-R30E	
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	ln m
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330	16. No. of Acres in leas	е	17. Spacing	Unit dedicated to this	well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1567'	19. Proposed Depth 6,700'			IA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date	work will st		23. Estimated duratio	n
3512' GL	8/15/01			3 weeks	
	24. Attachments				
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No.1,	shall be atte	ched to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Fores SUPO shall be filed with the appropriate Forest Service On 	st System Lands, the ffice). Item 5. Opera 6. Such	20 above). tor certifica	tion. pecific info	•	existing bond on file (see
25. Signature	Name (Printed/Ty	ped)			Date
Diorgen Amo	George R. Smit	h			07/12/01
Title	-				
Agent for Chi Operating, Inc.					· · · · · · · · · · · · · · · · · · ·
Approved by (Signature) SI RICHARD A. WHITLE	Y Name (Printed/Ty	• /	D A. WH		Pate FEB 1 1 2002
ASSOC. STATE DIRECTOR	Office	NM	STATE	OFFICE	
Application approval does not warrant or certify that the applic operations thereon. Conditions of approval if any are attached	ant holds legal or equitable title to th		the subject I		

*(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.



NM STATE OFFI

BUREAU JUSTICE MGMT

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HECEINED

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

Property Name

Benson Bone

Form C-102 Revised March 17, 1999

District II

811 South First, Artesia, NM 88218

Property Code

District III

1000 Rio Brazos Rd., Aztec, NM 87410 District LV

API Number

2040 South Pacheco Santa Fe. NM 87505 Submit to Appropriate District Office

Spring

State Lease - 4 Copies

Fee Lease - 3 Copies

2849 South Pacheco. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

☐ AMENDED REPORT

Well Number

		WIZ	ARD FED	ERAL		-		į	3
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APPLICATION FOR DRILLING

CHI OPERATING, INC.

Wizard Federal, Well No. 3 1980' FSL & 2310' 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	<u>JOINT</u> SET	TING 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 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" 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 and used as a 2000 psi wp system. Casing and BOP will be tested as described in Onshore Order No. 2 before drilling out with 8 3/4" to a maximum expected surface pressure of 1500 psi wp, and will be tested weekly. 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. Wizard Federal, Well No. 3 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 psi and a surface pressure of 1474 psi with a temperature of 127°.
- 10. H₂S: None expected.
- Anticipated starting date: August 15, 2001.
 Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC

Wizard Federal, Well No. 3
1980' FSL & 2310' FEL, Sec. 1 -T19S-R30E
Eddy County, New Mexico
Lease No.: LC-063613
(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 access road will detour around the west side of the well pad and run south. The proposed access road will start on the West side and will run for 100 feet to the northeast 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 100 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 and tank battery will be installed on the drilling pad. A three inch poly water flow line will be run parallel to the road south then 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: 225' X 165', plus 100' X 100' reserve pits on the west.
- Cut & Fill: The location will require a cut of 2 foot cut on the west with fill to the east.
- 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 2% slope to the east/northeast from an elevation of 3512' GL.
- B. Soil: The topsoil at the well site is a deep reddish brown colored loam with some caliche scatter on the surface and is underlain by caliche. 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. Wizard Federal, Well No. 3 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

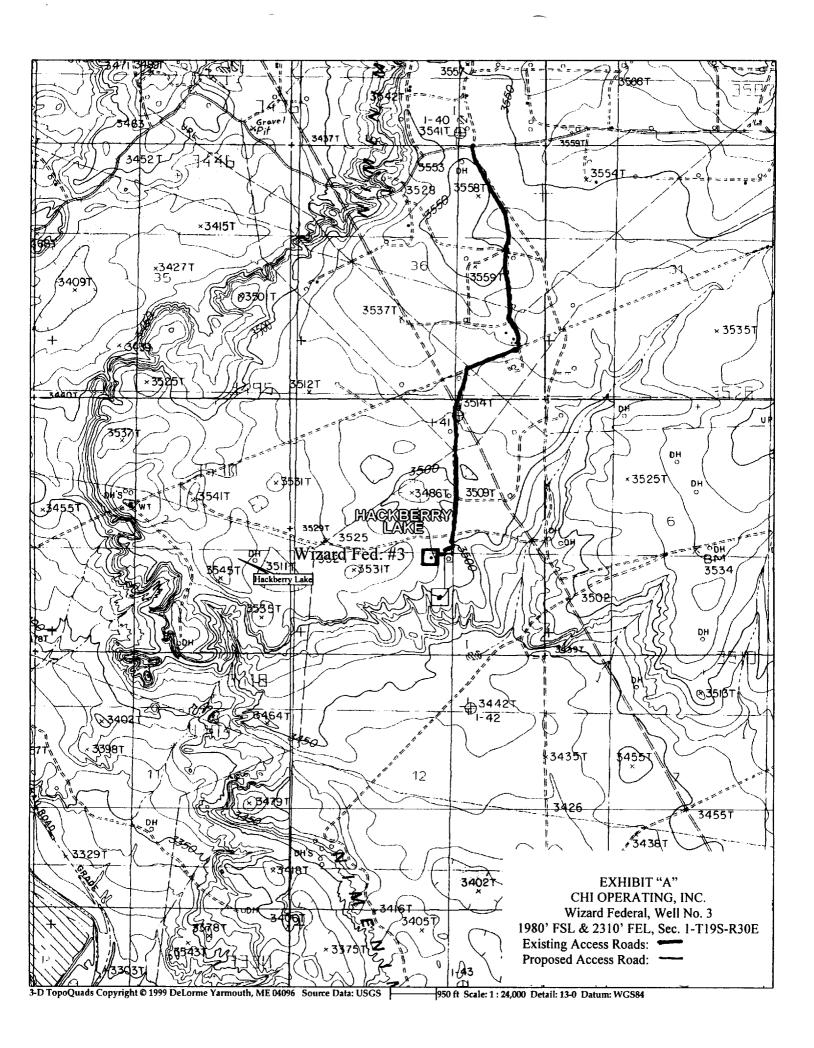
13. CERTIFICATION:

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.

July 12, 2001

George R. Smith

Agent for: Chi Operating, Inc.



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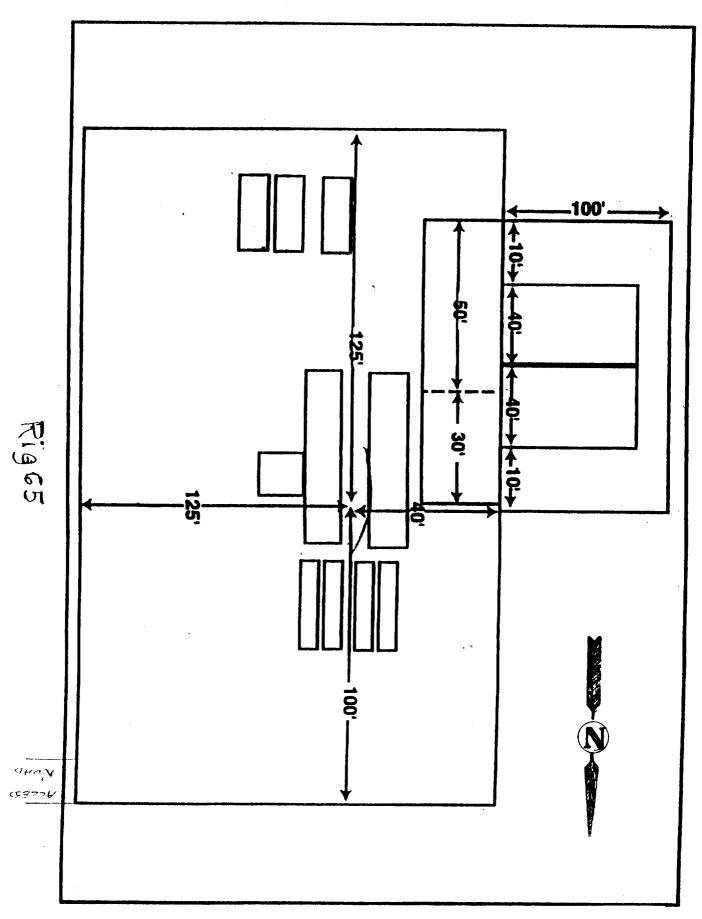


EXHIBIT "D"
CHI OPERATING, INC.
Wizard Federal, Well No. 3
Pad & Pit Layout

RIG # 45

BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP 80 GALLON, 4 STATION KOOMEY ACCUMULATOR 3000 psi WP CHOKE MANJFOLD

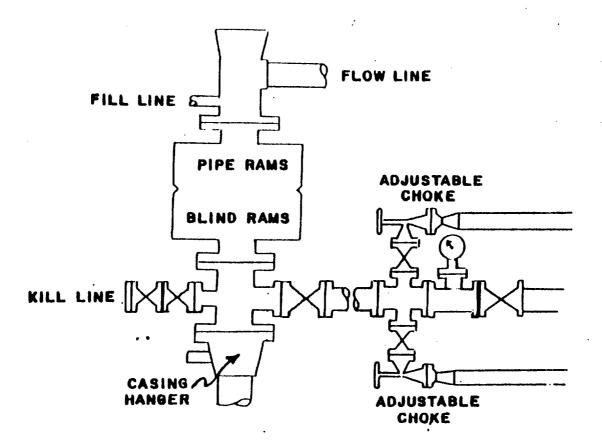


EXHIBIT "E"
CHI OPERATING, INC.
Wizard Federal, Well No. 3
BOP Specifications