UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAG	NM-0560353					
APPLICATION FOR PERMIT TO DE	6. If Indian, Allottee or Tribe Name					
la. Type of Work: DRILL REENTE	7. If Unit or CA Agreement, Name and No.					
1b. Type of Well: Oil Well Gas Well Other	H iple Zone	8. Lease Name and Well No. Munchkin Federal, No. 4				
2. Name of Operator				9. API Well No. 30-015-3	2380	
Chi Operating, Inc. 3a. Address	12h Dhone Me	. (include area code)		10. Field and Pool, or Exploratory		
2.O. Box 1799 Midland, TX 79702	(915) 685-5			Benson Bone Spring		
4. Location of Well (Report location clearly and in accordance with	<u> </u>			11. Sec., T., R., M., or Blk. and Survey or Area		
At surface 330' FNL & 2200' FEL 1980' Der Bh			3	, , ,	•	
At proposed prod. zone same	4103	.0 2.12 20		Sec. 12-T19S-R30E		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
16 road miles South. of Loco Hills, NM				Eddy	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'		cres in lease	17. Spacing	g Unit dedicated to this well	RECEIVED	
18. Distance from proposed location*	2160.32 19. Proposed Depth		20. BLM/BIA Bond No. on file		APR 0 9 2004	
to nearest well, drilling, completed, applied for, on this lease, ft.		6,700'		VI-1616	OCD-ARTES	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3457' GL 22. Approximate date work will start* 09/15/03				23. Estimated duration 3-4 weeks		
	24. Atta	chments	CAPITA	N CONTROLLED WA	TER BASIN	
The following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No.1, shall be at	ttached to this	s 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 certific	cation. specific info	s unless covered by an exi	· · · · · · · · · · · · · · · · · · ·	
25. Signature Bedrack. Amitto	1	(Printed/Typed) ge R. Smith		Da 8/	rte 7/03	
Title						
Agent for Chi Operating, Inc.						
Approved by (Signature) Nivila Edudel	,	e (Printed/Typed) Linda S.C. Ru	undel1	Da	DEC 1 1 2003	
STATE DIRECTOR	Offic	NM STA	TE OFF	ICE		
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	•	lease which would entitle the PPROVAL FO		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make	it a crime for a	ny person knowingly a				
States any false, fictitious or fraudulent statements or representations as						

Lease Responsibility Statement: Chi Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS **ATTACHED**

George R. Smith, agent

Form 3160-5 (August 1999)

UNITE STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

. Lease Serial	No.	
INA 0560252		

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.	NM-0560353 6. If Indian, Allottee or Tribe Name	
(UziMIIIAN TRIPLICANE) (ETHECHRETUEHEHEKOTERSYES) (166	7. If Unit or CA/Agreement, Name a	

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SUBMINISTR	HPLIGNIE - @BrückstrigeNeb	S(0)))/(e)/(d)(-(0)(s)	rec	7. If Unit or	CA/Agreement, Name and/	or No.
. Type of Well		DEC!	EIVED			
	Other	HEU		8. Well Nan	ne and No.	
2. Name of Operator		APR (9 2004	Munchkin	Federal, Well #4	
Chi Operating, Inc.				9. API Well	l No.	
a. Address	3b. P	hone No 61816-4	BT&SIA			
O. Box 1799 Midland, TX 797	702 (915)	685-5001		10. Field and	i Pool, or Exploratory Area	
	T, R., M., or Survey Description)			Benson Bo		
30' FNL & 1980' FWL, Sec. 12-	-T19S-R30E (New Location)			11. County o	or Parish, State	
				Eddy		
12. CHECK AP	PROPRIATE BOX(ES) TO INDI	CATE NATURE	OF NOTICE, R	EPORT, OR	OTHER DATA	
TYPE OF SUBMISSION		TYPI	OF ACTION			
TITE OF BODIMESION						
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Notice of Intent	Alter Casing	acture Treat	Reclamation		Well Integrity	
Subsequent Report	Casing Repair Ne	w Construction	Recomplete		Other	
	Change Plans 🔲 Plu	ug and Abandon	Temporarily Ab	andon		
Final Abandonment Notice	Convert to Injection Plu	ug Back	Water Disposal			
)' and makes the road shorter and better					
					•	
 I hereby certify that the foregoi Name (PrintedlTyped) 	ng is true and correct	1				
eorge R. Smith		Title A con	t for Chi Operating	Inc		
icorgo ic. Siniui	2	Agen	t for Cin Operating	, IIIC.		<u> </u>
Signature Leorge	R. Smith.	Date Septe	ember 5, 2003			wi-
	ALES PACIFICISTE	ablaration;	kije joje koje jušije:			
Approved by (Signature)	Linda Schudell	Nam (Print	ne Linda S.C.	. Rundell	Title STATE DIR	EC'
certify that the applicant holds les	e attached. Approval of this notice does agal or equitable title to those rights in the conduct operations thereon.		NM STATE	OFFICE	Date DEC 11	200
certify that the applicant holds leg which would entitle the applicant to	gal or equitable title to those rights in the	not warrant or e subject lease	NM STATE	OFFICE	Dec	11

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

<u>District |</u>
1625 N. French Dr. Hobbs, NM B8240

<u>District ||</u>
811 South First, Artesia, NM 88210

<u>District III</u> 1000 Rie Brazes Rd., Aztec NM 87410 State of New Mexico Energy, Minerals & Natural Resources Form C-102

Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

SURVE

NM PE&PSS

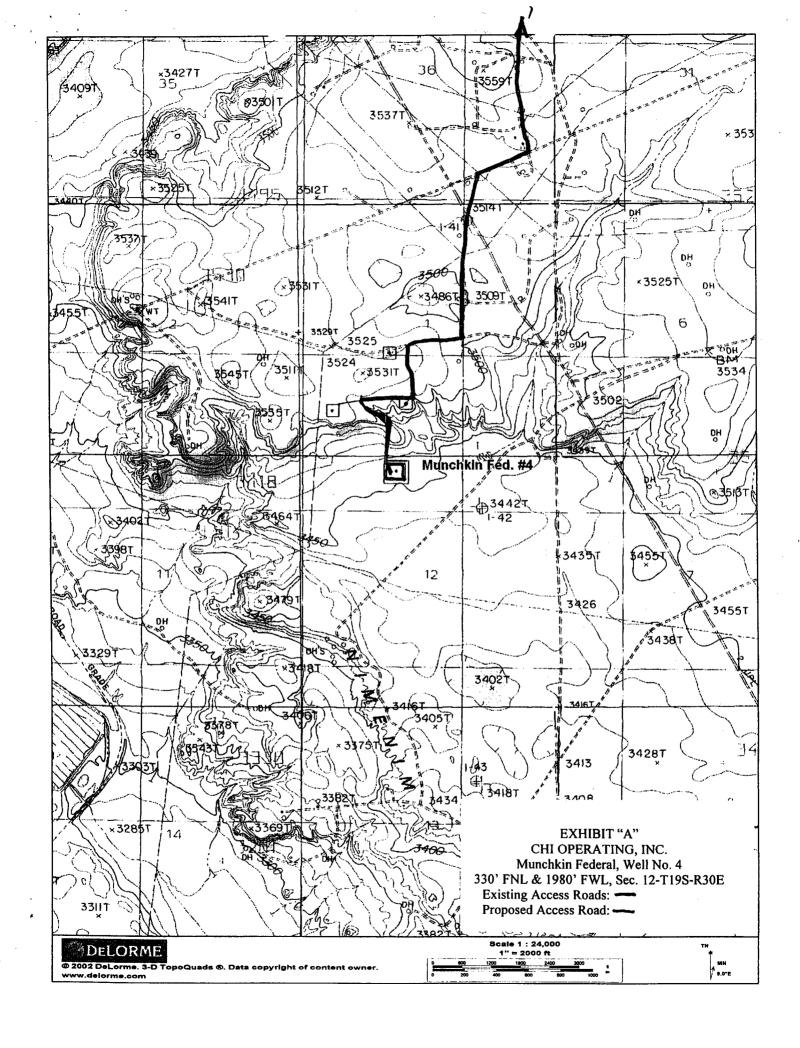
OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe. N M 87505

MENDED REPORT

District IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name API Number Pool Code Beuson Bone Spring Property Code Property Name Well Number MUNCHKIN FEDERAL OGRID No. Operation Name Elevation CHI OPERATING, INC. 3457 Surface Location Feet from the UL or Lot No. Section Township Range North/South line East/West line County 330 C12 19-5 30-ENORTH 1980 WEST EDDYBottom Hole Location If Different From Surface UL or Lot No. Section Range Feet from the North/South line East/West line County Consolidation Code Dedicated Acres Joint or Infill Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I HERRBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 1980' NM-0560353 х Менникиченники Printed Name George R. Smith Title agent Date September 5, 2003 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 KNOWLEDGE AND BELIEF. AUGUST 30. 2003 5412



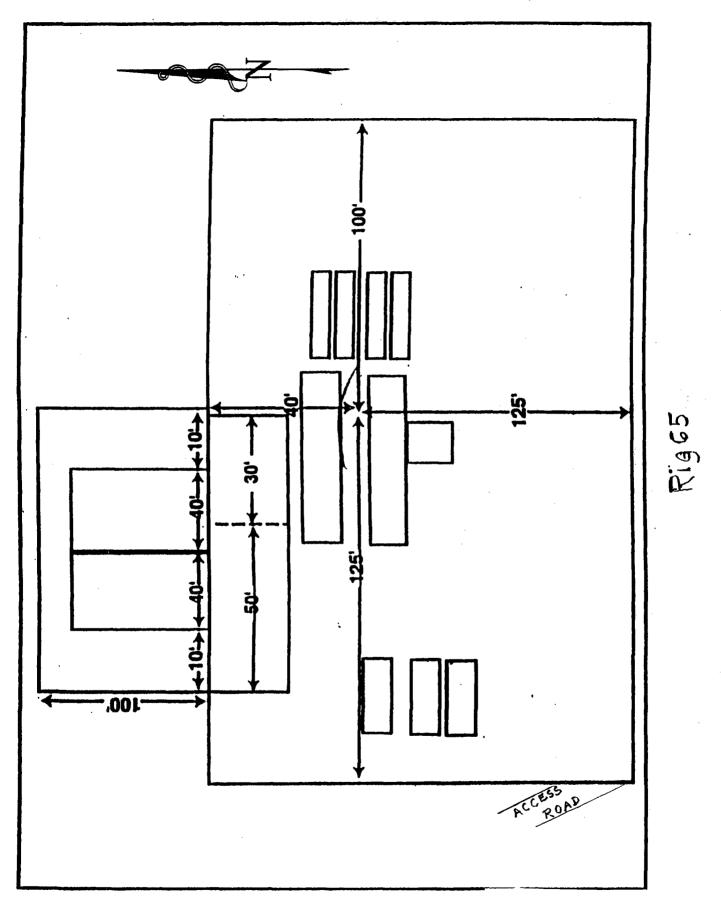


EXHIBIT "D"
CHI OPERATING, INC.
Munchkin Federal, Well No. 4
Pad & Pit Layout

District I 1625 N. French Dr. Hobbs, NM B8240 District II 811 South First, Artesia, NM 88210 District III 1800 RO Brazos Rd., Aztec NM 87410

<u>District IV</u> 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, N M 87505 Form C-102

Revlaed March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name Benson Bone Spring Well Number Property Code Property Name MUNCHKIN FEDERAL Elevation OGRID No. Operation Name CHI OPERATING, INC. 3457 Surface Location UL or Lot No. Section Township Range Feet from the North/South line Feet from the Fost Allest line Lot Idn. County 30 - E330 WEST 12 19-S *NORTH* 2200 EDDY CBottom Hole Location If Different From Surface UL or Lot No. Section Township Range Lot lợn. North/South line | Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 40 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I HEREBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 2200 NM-0560353 Signature George R. Smith. agent Printed Name for Samson Resources August 7, 2003 SURVEYOR CERTIFICATION I HEREBY CERTIFY THAT THE WELL LOCATION SHOWN ON THIS PLAT WAS PLOTTED FROM PIELD NOTES OP ACTUAL SURFEYS WADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. Date of SHIND IFE D 5412

APPLICATION FOR DRILLING

CHI OPERATING, INC.

Munchkin Federal, Well No. 4
330' FNL & 2200' FWL, Sec. 12-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	4050'
Yates	2200'	Bone Spring	6250'
Seven Rivers	2450'	B/S Avalon Sand	6500'
Queen	3100'	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 SETT	ING DEPTH	OUANTITY OF CEMENT
12 1/4"	9 5/8"	36.0#	J-55	ST&C	A75 510'	OUANTITY OF CEMENT Circ. 400 sx "C" + add. WITNESS
8 3/4"	7"	23.0#	J-55	LT&C	3,200'	Circ. 450 sx "C" + add. WITNESS
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?" 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 will be used as a 2,000 psi system. Casing and BOP will be tested before drilling out with 8 3/4" and will be tested weekly. See Exhibit "E".

6. MUD PROGRAM;		MUD WEIGHT	VIS.	W/L CONTROL
	Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
510' 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	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. 4 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: September 15, 2003
 Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC

Munchkin Federal, Well No. 4
330' FNL & 2200' FWL, Sec. 12 -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 .63 mile to a P/A well site with a gas line tap. Turn right (west) for .3 mile, then south .25 mile to the Munchkin Fed. #1 well site. Turn west, north of the #1, for .2 mile to the start of the proposed access road on the left (south) side. The proposed access road will start at this point and run southeast for 1900 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 1900 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.
- C. Turnouts: One turnout will be required increasing the width to 20 feet for passing.
- 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. Three inch poly oil and water flow lines will be run parallel to access road 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 an open pit on the recent drill site for the Wizard Federal #3 in the NW¼SE¼, Sec. 1-T19S-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.

Chi Operating, Inc. Munchkin Federal, Well N Page 4

12. OPERATOR'S R

A. The field re follows:

13. CERTIFICATIO

I hereby certify that I have which presently exist; tha that the work associated v contractors and subcontra This statement is subject

August 7, 2003

Chi Operating, Inc. Munchkin Federal, Well No. 4 Page 3

9. WELL SITE LAYOUT:

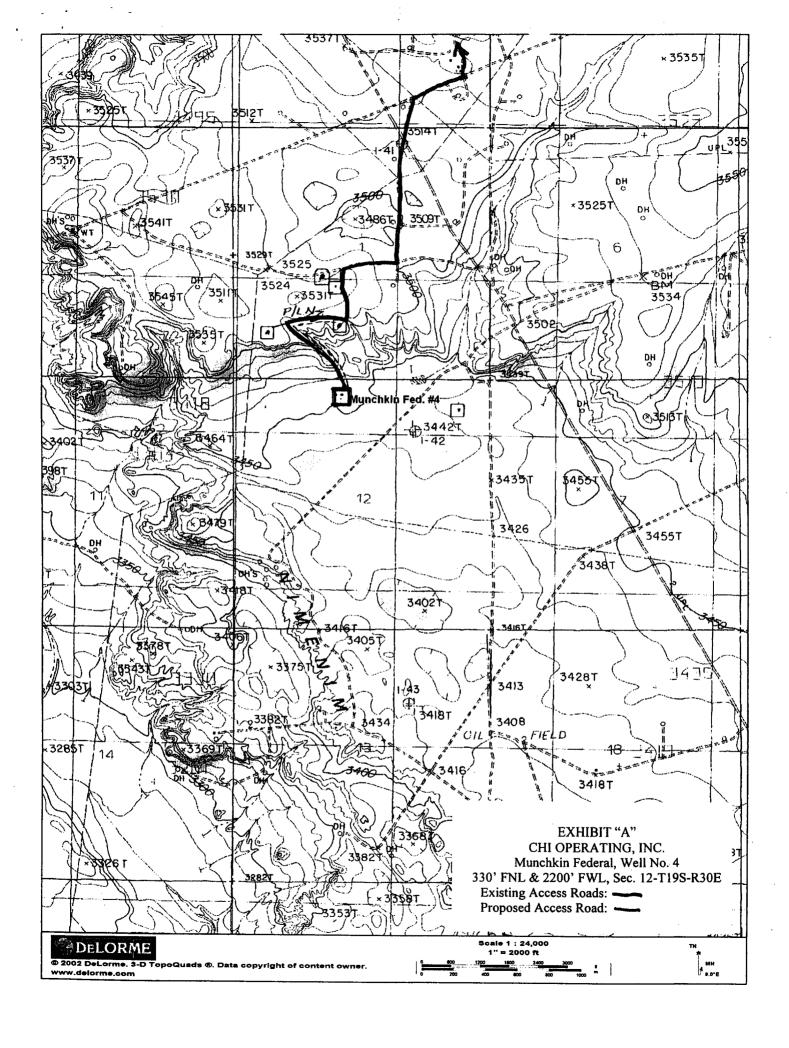
- A. Exhibit "D" shows the relative location and dimensions of the well pad, rescomponents. The pad and pit area has been staked and flagged, 400' X 400
- B. Mat Size: 225' X 165', plus 100' X 100' reserve pits on the west.
- C Cut & Fill: The location will require leveling 3-4 foot sand dunes.
- D. The surface will be topped with compacted caliche and the reserve pits will

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment an required for operations will be removed. Pits will be filled and the location junk to leave the well site in an aesthetically pleasing a condition as possibl
- 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 r of Land Management will be complied with and will be accomplished as exact All pits will be filled and leveled as soon as they are dry enough to be work

11. OTHER INFORMATION:

- A. Topography: The access road is located in a area on top of the Niminem R the north and a drops off to the southeast and south between 2.7 5% slope level with an overall .7% slope to the south/southeast from an elevation of
- B. Soil: The topsoil at the well site is a yellowish red colored sandy loam wit the surface. The soil is of the Berino loamy fine sand series.
- C. Flora and Fauna: The vegetation cover is a sparse grass cover of threeawn, along with plants of mesquite, creosote bush, broomweed, sage, yucca, cac and wildflowers. The wildlife consists of rabbits, coyotes, antelope, rattles 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 equipm
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal:
- H. There is no evidence of any significant archaeological, historical or cultura Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202 are archaeological survey, and their report will be submitted to the appropriate



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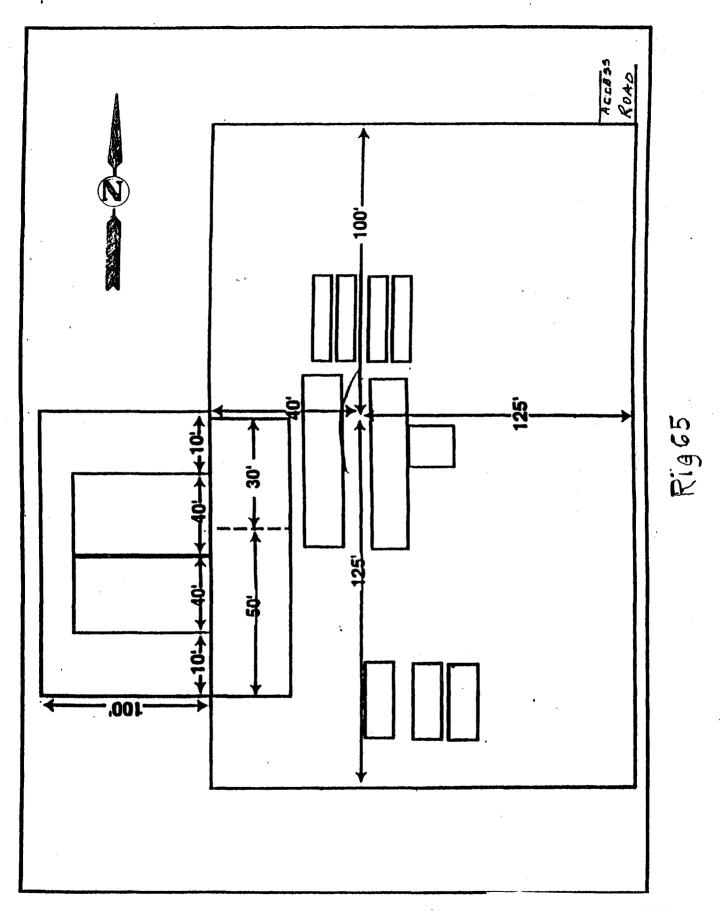


EXHIBIT "D"
CHI OPERATING, INC.
Munchkin Federal, Well No. 4
Pad & Pit Layout

BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

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

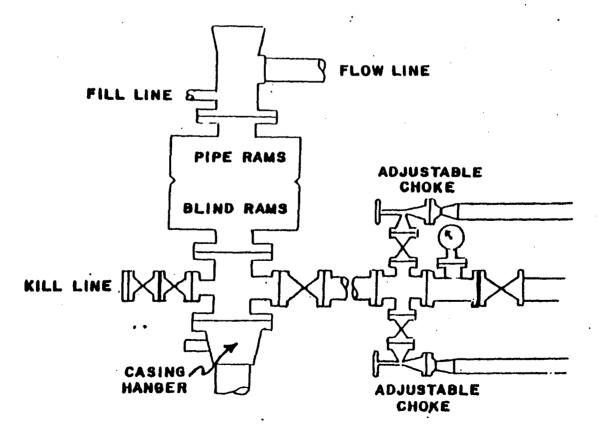


EXHIBIT "E"
CHI OPERATING, INC.
Munchkin Federal, Well No. 4
BOP Specifications