Form 3160-3 (August 1999)

N.M. Oil Cons. DIV-Dist. 2

UNITED STA 1801 W. Grand Avenue DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENTA, NM 88210

FORM APPRO	ソトトレ
OMB No. 1004	1-0136
Expires November	
Dubites trotement	,

5. Lease Serial No.	
NM-0560353	

APP	LICATI	ON FO	R PERMI	т то	DRILL	OR REEN	TER

la. Type of Work: DRILL REENTE	ER .				7. If Unit or CA Agreem	ent, Name and No.
					8. Lease Name and Well	No
1b. Type of Well: Oil Well Gas Well Other	Single Zone Multiple Zone			ple Zone	Munchkin Federal, No	
2. Name of Operator					9. API Well No.	
Chi Operating, Inc.					30-015-	33933
3a. Address	3b. Phone No	o. (include d	rea code)		10. Field and Pool, or Ex	
P.O. Box 1799 Midland, TX 79702	(915) 685-5	001			Benson Delaware	
4. Location of Well (Report location clearly and in accordance with	_ <u></u>				11. Sec., T., R., M., or BI	k. and Survey or Area
At surface 2478' FNL & 2310' FWL At proposed prod. zone 1980' FSL & 1980' FWL SUBJE	CT TO LI	使用品	rovath	BY STA	E Sec. 12-T19S-R30E	
					12. County or Parish	13, State
14. Distance in miles and direction from nearest town or post office*					1	NM
16 road miles South. of Loco Hills, NM	144 11 6	· · · · ·		1.7.0	Eddy	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 2310'		Acres in leas	se	17. Spacir	ng Unit dedicated to this wel	ı
18. Distance from proposed location*		50.32		20 01 14/	40 BIA Bond No. on file	RECEIVED
to nearest well, drilling, completed.	19. Propose	а рери		20. BLM/ 	BIA BONG NO. OII THE	
applied for, on this lease, ft. 842'	5,500			N	M-1616	FEB 0 2 2005
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	oximate date work will start*		23. Estimated duration	QUUMATER	
3433' GL	11.	/1/04			3-4 weeks	
	24. Atta	chments	Car	Han Cor	strolled Water Basir	1
The following, completed in accordance with the requirements of Onsho	Oil 1 C	Order No. 1				
 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	1tem 5. Opera 6. Such	ı 20 above). ator certific	ation. pecific inf	is unless covered by an exi formation and/or plans as n	
25. Signature	Name	(Printed T	unad)		ŢD.	ate
Deorge R. Smith		ge R. Smi	•		•=	9/30/04
Title						
Agent for Chi Operating, Inc.						
Approved by (Signature)	Nam	e (Printed T 15/	yped)	7711	INTON .	ate JAN 2 8 2005
Title INSTATE DIRECTOR	Offic	e	NM	STATE	OFFICE	
Application approval does not warrant or certify that the applicant holds	s legal or equite	ble title to t	hose rights i	n the subjec	t lease which would entitle t	he applicant to conduct
operations thereon.	<i>a</i>		_	•		
Conditions of approval, if any, are attached			AI	<u>PPRO</u>	<u>VAL FOR 1 Y</u>	EAR
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as	it a crime for a to any matter	any person l within its jui	knowingly a risdiction.	nd willfully	to make to any department	or agency of the United
*(Instructions on reverse)						
BETT THE STATE OF			11 1 4		itiana atimulatiana and	Leastriations
U Lease Responsibility Statement: Chi Operating				mis, cond	itions, supulations, and	i resurctions
concerning operations conducted on the leased	iand or port	ion there	OI.		4 -	
·					GRA.	
Brown and Brown to the Street and American Company.				\overline{G}	eorge R. Smith, agent	<u>-</u>
				_	J	

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND PECIAL STIPULATIONS ATTACHED

Form C-102

<u>District i</u> 1825 N. French Dr. Hobbs, NM 88240

District 8 811 South First, Artesia, NM 68210

District_B 1000 Rie Brozoe Rd., Aziec NM 87410

District IV 2040 South Facheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, N M 87505

Submit	to					1999 Office
		State	Lease	-	4	Coples
		Fee	Legge	_	3	Coples

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number	<u> </u>	<u>-</u>	001 Code 083						Name n Delawar	·e			
Property Co.	de				MIII	Property N		DERA				umber 7		
OCRID No. 4378						Operation I	Name				Elevati	on		
43.0						OPERA:			•		3433	3		
UL or Lat No.	Section	Towns	•	Range		ot Idn.	Foot	from the	North/South line	Feet from the	East/West fine	County		
<u> </u>	12		<i>-s</i> ∣	30-		11 14	247		NORTH	2310	WEST	EDDY		
UL or Lot No.	Section	Towns	٠ .	HOI6 Range	Loco	ation If et len.	Foot	erent from the	From Sul North/South line	Feet from the	East/West line	County		
k Dedicated, Acres	12 a Joint or	infili Con	-S	30-	-E' Order	No.	198	10	SOUTH	1980	WEST	EDDY		
Ho					· · · · · · · · · · · · · · · · · · ·		.,				· · · · · · · · · · · · · · · · · · ·			
NO ALLO	WABLE DATED (WILL BE	E ASS ON-S	GNE	D TO I	THIS C	OMPI S BI	ETION	i until a Pproved	LL INTERE BY THE	ST HAVE DIVISION	BEEN		
										OPERAT	FOR CERTI			
			енжж	2475							Corgue R. George R. O/04	Smith		
	2310	KXXXXX	CCCCC	⊕ SUR LOCA	PACE TION			j -		Date	··· · · · · · · · · · · · · · · · · ·			
	1980°	Kaden Tarenaka 	Φ.		W 1	740'31 03'55":				I REMEDY OF SERVICE OF THE PARTY E PARTY E PARTY E PARTY E PARTY E PREST OF MY	OR CERTI STATE THAT THE FOR ACTUAL SIZE STATE AND COME AND VILLEGE AND AND VILLEGE AND AND VILLEGE AND THEY RED	WELL LOCATION OFFED FROM OFFED FROM OFF, AND TEAT LECT TO THE BELLET.		
			1980	XXXX						Squistury Corn	MEXICO 5412	NA STANFORM		

CHI OPERATING

Structure: Munchikin FED #7

Slot : slot #1

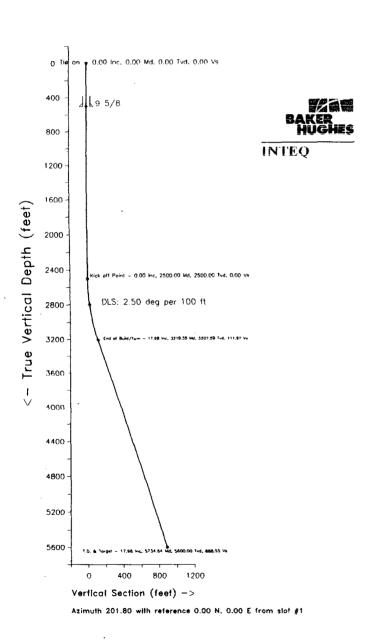
Coordinates are in feet reference slot #1. Frue Vertical Depths are reference rotary tat

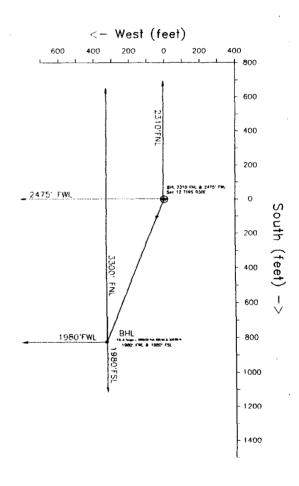
fed7pp ---- Baker Humber INTFO

Field: UNKNOWN

Location: Eddy County New Mexico

		WELL	PROF	ILE D	ATA			
Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End of Hold	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
KOP	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00
End of Build/Turn	3219.35	17.98	201.80	3207.59	-103.96	-41.58	111.97	2.50
T.D. & Target BHL	5734.64	17.98	201.80	5600.00	-825.00	-330.00	888.55	0.00







22-Sep-2004 (source: BOGM 2003)

Magnetic North is 8.58 degrees East of TRUE North

To covered azimuth from Magnetic to TRUE and 8.58 dea

CHI OPERATING Munchikin FED #7,slot #1 UNKNOWN,Eddy County New Mexico

PROPOSAL LISTING Page 1 Your ref : Pln 1 Last revised : 22-Sep-2004

Measured Depth		Azimuth Degrees	True Vert Depth	RECTANG COORDIN		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
500.00	0.00	0.00	500.00	0.00 N	0.00 E	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00 N	0.00 E	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00 N	0.00 E	0.00	0.00
	0.00	0.00	2000.00	0.00 N	0.00 E	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00 N	0.00 £	0.00	0.00
2500 00	0 00	0.00	2500.00	0.00 N	0.00 E	0.00	0.00
2500.00	0.00	_					
2600.00	2.50	201.80	2599.97	2.03 S	0.81 W		2.18
2700.00	5.00	201.80	2699.75	8.10 S	3.24 W		8.72
2800.00	7.50	201.80	2799.14	18.20 S	7.28 W	2.50	19.61
2900.00	10.00	201.80	2897.97	32.33 S	12.93 W	2.50	34.82
3000.00	12.50	201.80	2996.04	50.44 S	20.18 W	2.50	54.33
3100.00	15.00	201.80	3093.17	72.51 S	29.00 W	2.50	78.09
3200.00	17.50	201.80	3189.17	98.49 S	39.39 W	2.50	106.07
3219.35	17.98	201.80	3207.59	103.96 S	41.58 W	2.50	111.97
3500.00	17.98	201.80	3474.54	184.41 S	73.77 W	0.00	198.62
4000.00	17.98	201.80	3950.11	327.74 S	131.10 W	0.00	352.99
4500.00	17.98	201.80	4425.68	471.08 S	188.43 W	0.00	507.36
5000.00	17.98	201.80	4901.25	614.41 S	245.76 W	0.00	661.74
5500.00	17.98	201.80	5376.82	757.74 S	303.10 W		816.11
5734.64	17.98	201.80	5600.00	825.00 S	330.00 W	0.00	888.55 BHL

APPLICATION FOR DRILLING

CHI OPERATING, INC.

Munchkin Federal, Well No. 7

Surface Location: 2475' FNL & 2310' FWL, Sec. 12-T19S-R30E Bottom Hole Location: 1980' FSL & 1980' 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'	Queen	3050'
Yates	2240'	Delaware	4170'
Seven Rivers	2430'	T.D.	5500'

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.

Gas: Possible in the Delaware.

4. Proposed Casing Program:

F		,- 									
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	500'	Circ. 400 sx "C" + add.					
8 3/4"	7"	23.0#	J-55	ST&C	3,200'	Circ. 450 sx "C" + add. *					
Note: If 8 3	Note: If 8 3/4" hole has no problems will reduce hole to 7 7/8" and set following:										
7 7/8"	5 1/2"	17.0#	J-55	LT&C	5,500'	Circ in 2 stages: 1200 sx of "C"					
Note: If 7"	casing is set w	ill use fol	llowing:			_					
6 1/4"	4 1/2"	11.6#	N-80	LT&C	5,500'	1 st stage +/- 500 sx "C" 2 nd stage +/- 700 sx as required					

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. See Exhibit "E".

6. MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
0' - 500':	Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
500' - 3200':	Brine mud:	10.0 ppg	29 - 30	No W/L control
3200' - 5500':	Brine mud:	10.0 ppg	29 - 32	W/L cont. <15 cc @ TD
Without Intermediate	e casing:			_
0' - 500':	Fresh water spud mud	8.4 - 8.7 ppg	32 - 34	No W/L control
500' - 5500':	Brine mud/Starch	10.0 ppg	29 - 32	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. 7 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 = 2420 psi with a temperature of 115°.
- 10. H,S: None expected. None in previous drilling of well, but the Mud Log Unit will be cautioned to use a gas trap to detect H,S and if any is detected the mud weight will be increased along with H,S inhibitors sufficient to control the gas.
- 11. Anticipated starting date: November 1, 2004
 Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC

Munchkin Federal, Well No. 7 Surface Location: 2475' FNL & 2310' FWL, Sec. 12 -T19S-R30E Bottom Hole Location: 1980' FSL & 1980' 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 access road on the left (south) side. Follow this road southeast then south to the southwest corner of the Munchkin Fed. #4 well pad. The access road starts at the middle of the pad on the south side and runs southeast for 1000 feet to the northeast corner of the Munchkin Fed. #5 well pad. The proposed access road will start on the southeast corner of this well pad and run south for 800' to the southwest corner of the proposed well 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 800 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: None required.
- D. Culverts: None required.
- E. Cuts and Fills: There will be minor cuts and leveling across small dune areas.
- 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, gas production-process equipment will be installed on the drilling pad. A 3" poly gas flow line will run north, parallel to the proposed access road, to a gas line hook-up at the Munchkin Fed. #4 well pad. Another 3" poly line, carrying liquids, will run parallel to the access road to the #5 tank battery

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 approved pit on the recent drill site for the Wizard Federal #3 in the NW¼SE¼, Sec. 1-T19S-R30E. The archaeologist has cleared this pit. 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, 500' X 500'.
- B. Mat Size: 225' X 165', plus100' X 100' reserve pits on the north.
- C Cut & Fill: The location will require a 1.5 foot cut on the northwest and fill to the southeast. There are undulating sand dunes 3-4 feet high that will need to be leveled.
- 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 proposed access road is located in a area on top of and east of the Niminem Ridge. The location has an overall .8% slope to the southeast from an elevation of 3433' GL.
- B. Soil: The topsoil at the well site is a brownish red colored sandy loam with some caliche scatter on the surface. The soil is of the Simona-Bippus complex series.
- C. Flora and Fauna: The vegetation cover is a sparse grass cover of threeawn, dropseed, fluff grass, along with plants of mesquite, creosote 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 some evidence of 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. 7 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.

September 29, 2004

George R. Smith

Agent for: Chi Operating, Inc.

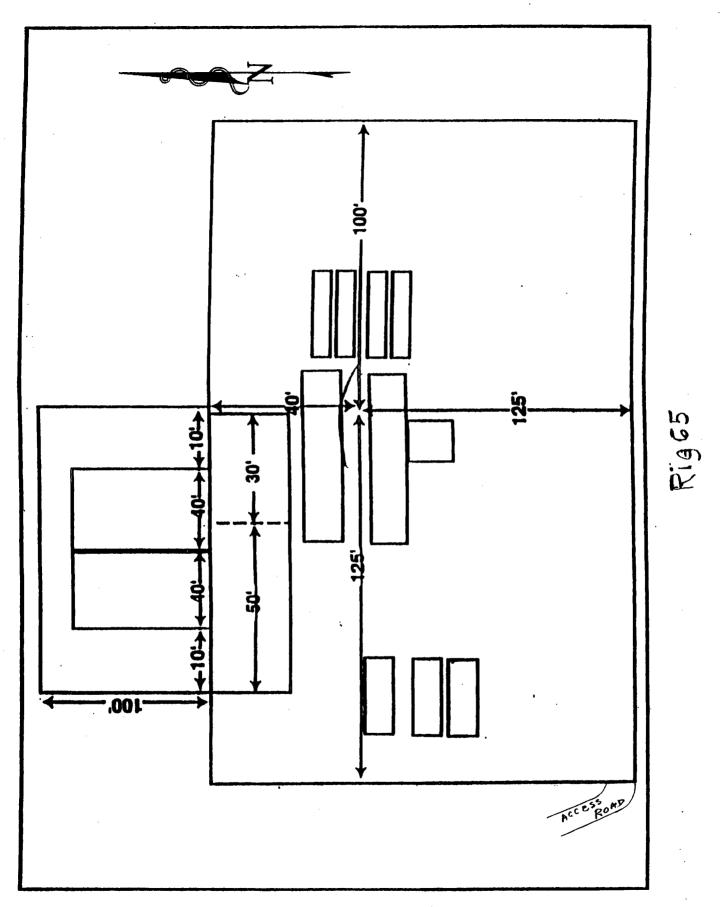


EXHIBIT "D"
CHI OPERATING, INC.
Munchkin Federal, Well No. 7
Pad & Pit Layout

RIG

BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

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

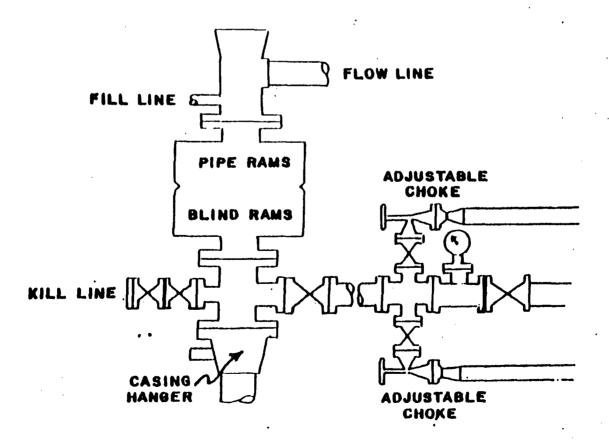


EXHIBIT "E"
CHI OPERATING, INC.
Munchkin Federal, Well No. 7
BOP Specifications