Form 3160-3 (August 1999)

# CORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

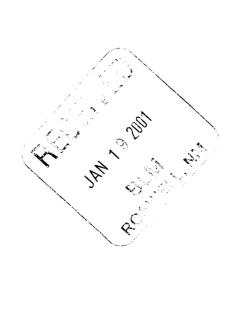
UNITED ST	ATEC			Expires November	30, 2000	
DEPARTMENT OF T				5. Lease Serial No.		
BUREAU OF LAND N			•	NM-04712		
APPLICATION FOR PERMIT		:: :EENTER - : : : : : : : : : : : : : : : : : :	÷.	6. If Indian, Allottee or T	ribe Name	
	<u> </u>	RECEIVED	<u> </u>	7. If Unit or CA Agreemer		
la. Type of Work: DRILL R	a. Type of Work: DRILL REENTER OCD - ARTESIA					
1b. Type of Well: Oil Well Gas Well Other	r 🔲 s	ingle Zone 🔲 Multi	ple Zone	8. Lease Name and Well No As pen Federal Com., W		
2. Name of Operator				9. API Well No.	3	
Chi Operating, Inc.	lat nt			30 -c1s-		
3a Address  B.O. Box 1700 Midland, TV 70702		o. (include area code)		10. Field and Pool, or Explo	oratory	
P.O. Box 1799 Midland, TX 79702  4. Location of Well (Report location clearly and in accordan	(915) 685-5			Wildcat Morrow 11. Sec., T., R., M., or Blk.	and Survey or Area	
·	ce with any State requi	irements. +)		11. Sec., 1., K., W., Ol Dik.	and Survey of Area	
At surface 660' FNL & 1980' FW L						
At proposed prod. zone same	) hit			Sec. 31-T16S-R30E		
14. Distance in miles and direction from nearest town or post of	ffice*			12. County or Parish	13. State	
6 road miles NW of Loco Hills, NM			,	Eddy	NM	
15. Distance from proposed* location to nearest	16. No. of A	16. No. of Acres in lease 17. Spac		ing Unit dedicated to this well		
property or lease line ft				V 301	94	
(Also to nearest drig. unit line, if any) 660'	160	<del> </del>	ļ	306.	01	
18. Distance from proposed location* to nearest well, drilling, completed,	19. Propose	d Depth	20. BLM/	DIA Bold No. on file		
applied for, on this lease, ft. 1320'	11,000	)'	N	M·1616		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will s	1	23. Estimated duration		
3711' GL	Fet	b. 10, 2001		30 days		
	24. Atta	chments				
The following, completed in accordance with the requirements of	f Onshore Oil and Gas	Order No.1, shall be at	tached to th	s form:		
Well plat certified by a registered surveyor.		1 A Band to sough th		is unless covered by an exist	ing hand on file (see	
2. A Drilling Plan.		Item 20 above).	ie operatioi	is unless covered by an exist	ing bond on the (see	
3. A Surface Use Plan (if the location is on National Forest	System Lands, the	5. Operator certific				
SUPO shall be filed with the appropriate Forest Service Off	ice).	6. Such other site s authorized office		ormation and/or plans as ma	y be required by the	
25. Signature	Name	(Printed Typed)	<u></u>	Date	<del></del>	
b) en met		orge R. Smith		01/19/01		
Title		<u></u>		· · · · · · · · · · · · · · · · · · ·		
Agent for Chi Operating, Inc.						
Approved by (Signature) /S/ LESLE A. The	Name	(Printed Typed)		Dat	MAR 2001	
Title	Offic	e				
Application approval does not warrant or certify that the applica	nt holds legal or equita	ble title to those rights i	n <sub>e</sub> the subjec	t lease which would entitle the	applicant to conduct	
operations thereon. Conditions of approval, if any, are attached.			Arring.		* * * * * * * * * * * * * * * * * * *	

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.

\*(Instruct ons 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.

George R. Smith, agent



District i

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

District III  1000 Rie Brazes R  District IV			2040 South Pacheco Santa Fe. NM 87505						State Lease - 4 Copies Fee Lease - 3 Copies	
2049 South Pachec	co, Santa Fe,		ELL LO	CATION	N AND ACR	EAGE DEDIC	ATION PLA		AMENDED REPORT	
,	API Number		Pool Code Undesignated Morrow							
Property (	y Code Property Name Well Number ASPEN FEDERAL COM								Well Number	
OGRID	No.	CHI (	'Operator Name HI OPERATING, INC.						<sup>1</sup> Elevation 3711.	
	<sup>10</sup> Surface Location									
UL er let no.	Section	Township	Range	Lot Jdn	Feet from the	North/South line	Feet from the	East/We	st line County	
С	31	16-S	30-E 660 NORTH 1980 WEST EDD						EDDY	
11 Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Let Ida	Feet from the	North/South line	Feet from the	East/We	st line County	
Dedicated Acres	) joint or	Infill 14 Co	onsolidation Com	Code 15 Or	der No.	· · · · · · · · · · · · · · · · · · ·				
7 306.84										

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

	NON-STANI	DARD UNIT HAS BEEN APPROVED BY THE DIVISION
36.63	660	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1980' NM-04712-	→ 4c	Merral Smith
		Signature George R. Smith agent fo
36.68	40	Printed Name Chi Operating, Inc. Title February 19, 2001 Date
		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 belief.  DECEMBER 20 2000
36.74	4e	Date of Surveys NR EDO Signatury and Shall of Professional Surveys:
36.79	4c	Central PREPS NO NO PRE

## APPLICATION FOR DRILLING

#### CHI OPERATING, INC.

Aspen Federal Com., Well No. 1 660' FNL & 1980' FWL, Sec. 31-T16S-R30E Eddy County, New Mexico Lease No.: NM-04712 (Exploratory 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:

Yates	1200'	Strawn	9980'
Queen	2000'	Atoka	10,300
San Andres	2800'	Morrow Clastic	10,700'
Tubb	5500'	Mississippi Uncon.	10,870
Wolfcamp	7600'	T.D.	11,000'
Upper Penn	8750'		, 0 0 0

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 Upper Penn or Cisco below 8750'.

Gas: Possible in the Atoka below 10,300' and the Morrow below 10,700'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	<b>JOINT</b>	SETTING DEPTH	QUANTITY OF CEMENT	
17 1/2"	13 3/8"	48.0#	H-40	ST&C	450'	Circ. 450 sx "C"	
11"	8 5/8"	32.0#	J-55	ST&C	2,900'	Circ. 850 sx "C" cement.	
7 7/8"	5 1/2"	17.0#	N-80	LT&C	11,000'	675 sx of Super "C"	

5. Proposed Control Equipment: A 12" 5000 psi wp Shaffer Type LWS Double Gate BOP will be installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 11" and will be tested daily. See Exhibit "E".

6. MUD PROGRAM		MUD WEIGHT	VIS.	W/L CONTROL
	resh water mud:	8.4 - 8.7 ppg	32 - 36	No W/L control
315 <b>450 - 2900</b> ': B		10.0 - 10.2 ppg	29 - 30	No W/L control
2900' - 7500': F		8.4 - 8.7 ppg	28 - 29	No W/L control
7500' - 8700': C		9.0 - 9.2 ppg	28 - 29	No W/L control
8700' - 10,600': B		10.0 - 10.1 ppg	30 - 32	W/L control 15 cc +/-
10,600' - 11,000': E	Brine (XCD/etc)	10.0 - 10.2 ppg	36 - 42	W/L control 8 cc +/-

- 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: As deemed necessary.

Logging: T.D.to 2900':(GR-CAL-CNL-LDT)(GR-CAL-DLL-MICRO)(FMI)

2900' to Surface: GR/NDL (if not previously logged.)

Coring: As dictated by logs.

Chi Operating, Inc. Aspen Federal Com., Well No. 1 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 = 4400 with a temperature of 170°.
- 10. H,S: None expected.
- 11. Anticipated starting date: February 10, 2001.
  Anticipated completion of drilling operations: Approximately 30 days.

#### MULTI POINT SURFACE USE AND OPERATIONS PLAN

#### CHI OPERATING, INC.

Aspen Federal Com., Well No. 1 660' FNL & 1980' FWL, Sec. 31-T16S-R30E Eddy County, New Mexico Lease No.: LC-04712 (Exploratory 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 and environmental effects associated with the operations.

#### 1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM minerals map showing the location of the proposed well as staked. The well site location is approximately 6 road miles northwest of Loco Hills, NM. Traveling east of Artesia, NM on U.S. Highway 82, there will be approximately 22 miles of paved highway and 5 miles of gravel County Roads #215 and 257.
- B. Directions: Travel east of Artesia, NM on U.S. Highway 82 for approximately 22 miles to County Rd# 215 (Kewanee Rd.). Turn north on #215 for 3.5 miles to County Rd. # 257 on the east. Take #257 east for 1.3 miles to the L & M Fed. "E" #2 pump jack on the north side of the road. Turn north at this well and continue past a tank battery and several injection wells to a two- track road north. This road will take you to the proposed location.

#### 2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed upgraded access road will be approximately 1200 feet long. The proposed and existing roads are color coded on Exhibits "A" and "B".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained. An existing surface water pipeline runs on the west side of the access road in places and will either be moved away from the road or the road will be widened to clear the pipeline.
- C. Turnouts: There may be one turnout at midsection of the road, increasing the width to 20 feet for passing.
- D. Culverts: None.
- E. Cuts and Fills: None required, except leveling small dunes on each side of the two-track road.
- F. Gates, Cattle guards: None required.
- G. Off lease right of way: None required.

#### 3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C"

#### Chi Operating, Inc.

Aspen Federal Com., Well No. 1 Page 2

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Chi Operating, Inc. has no production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if required, will be installed on the drilling pad.

#### 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 the location, if available, or will use a State pit in NE4 Sec. 2-T17S-R28E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

#### 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.

Aspen Federal Com., Well No. 1 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: 250' X 175', plus 110' X 100' reserve pits on the North.
- C Cut & Fill: The location will require a 1.5-2 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 proposed well site and access road are located northwest of Loco Hills on a slight .7% slope to the southwest from an elevation of 3711' GL. The area has 2 4 foot sand dunes and basins.
- B. Soil: The topsoil at the well site is a reddish brown sandy loam with a surface scatter of caliche rock and some exposed outcrops of caliche, possibly indicating underlying caliche material. The soil is part of the Berino complex with areas of eroded surface.
- C. Flora and Fauna: The vegetation cover has a poor grass stand consisting of three-awn, fluff grass and other miscellaneous grasses along with plants of mesquite, yucca, broomweed, shinnery oak brush, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, deer, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None.
- E. Residences and Other Structures: None in the immediate vicinity except oil field facilities.
- F. Land Use: Cattle grazing.

#### Chi Operating, Inc.

Aspen Federal Com., Well No. 1 Page 4

#### 11. OTHER INFORMATION: cont.....

- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no visible evidence of archaeological, historical or cultural sites in the staked 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.

#### 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) 684-8825

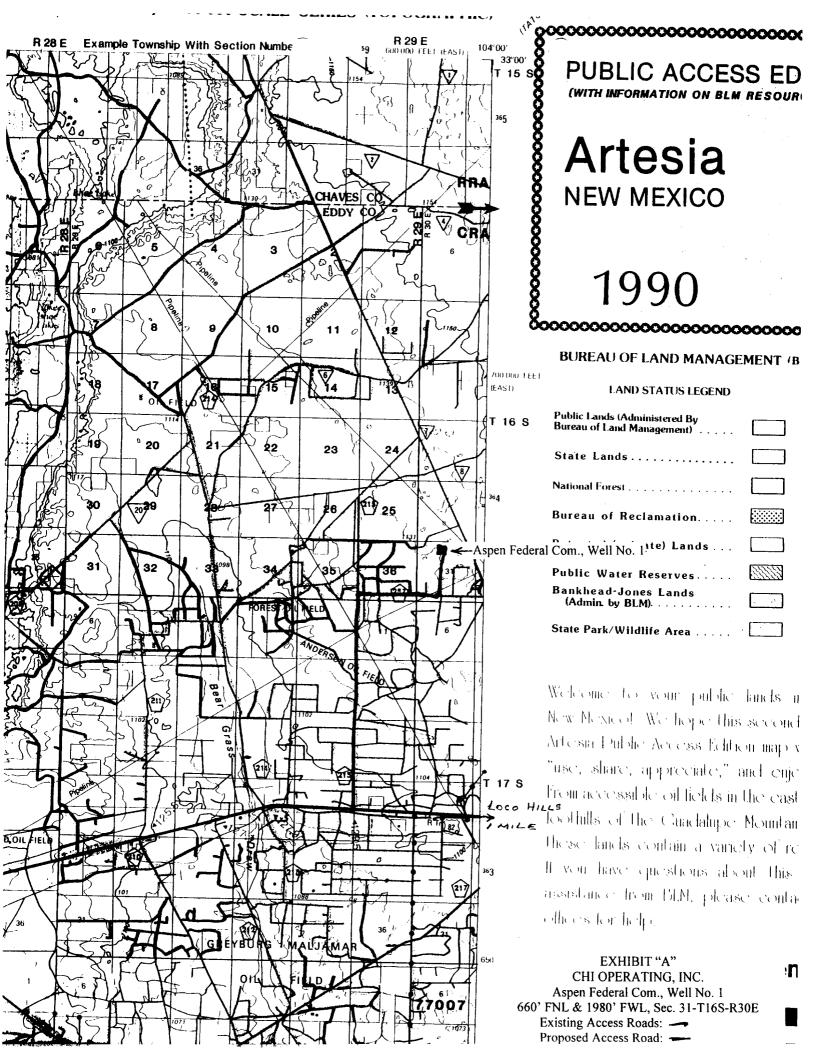
#### 13. CERTIFICATION:

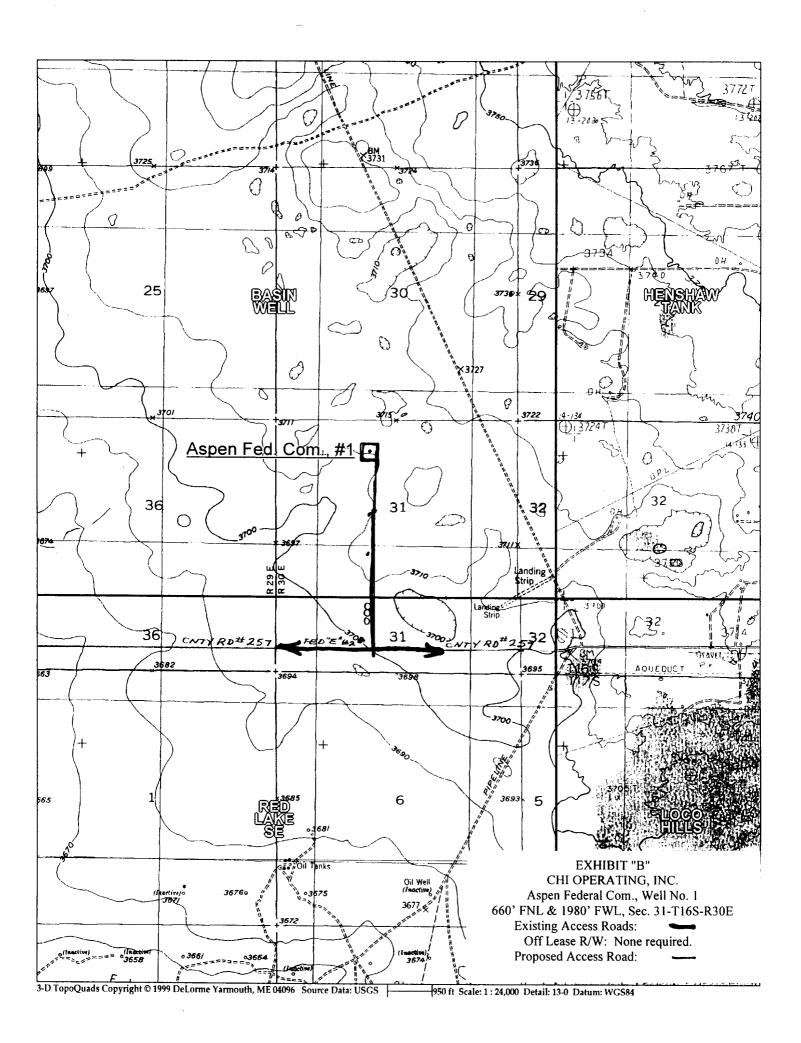
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will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

January 18, 2001

George R. Smith

Agent for: Chi Operating, Inc.





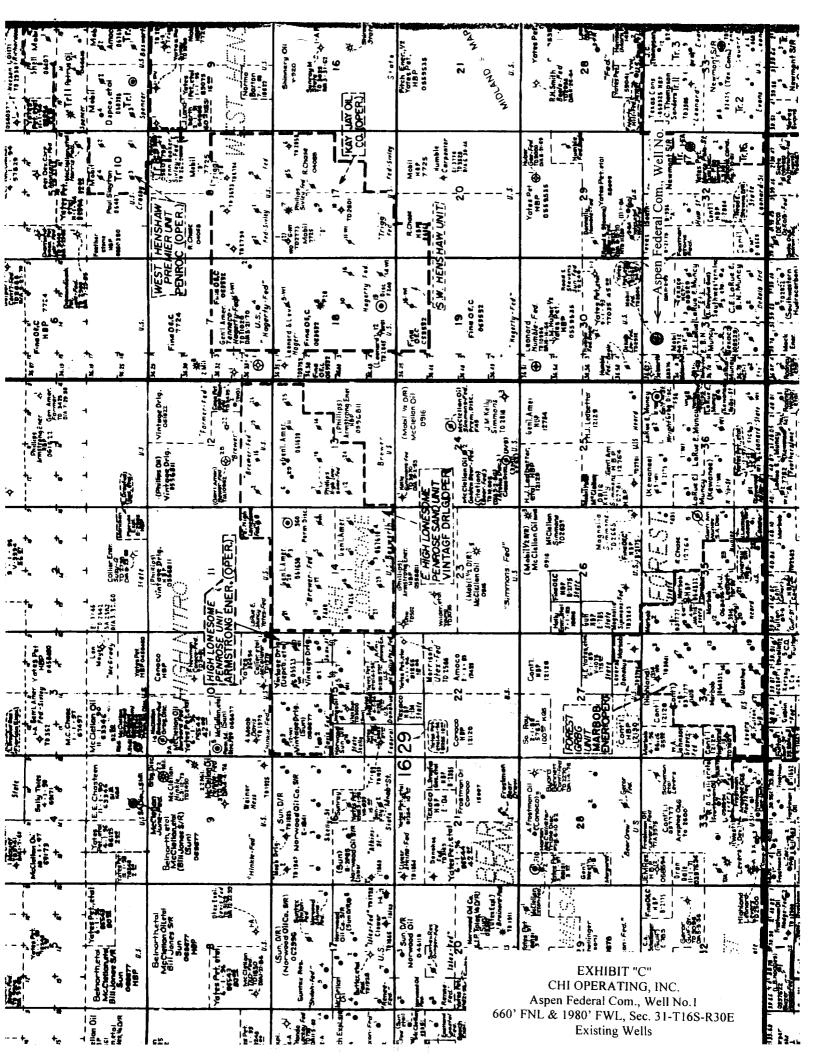


EXHIBIT "**D**" CHI OPERATING, INC. Aspen Federal Com., Well No. 1 Pad & Pit Layout



## RIG #22

## BLOWOUT PREVENTOR ARRANGEMENT

II SHAFFER TYPE LWS, 5000 psi WP
II CAMERON SPHERICAL, 5000 psi WP
I20 GALLON, 5 STATION KOOMEY ACCUMULATOR
5000 psi WP CHOKE MANIFOLD

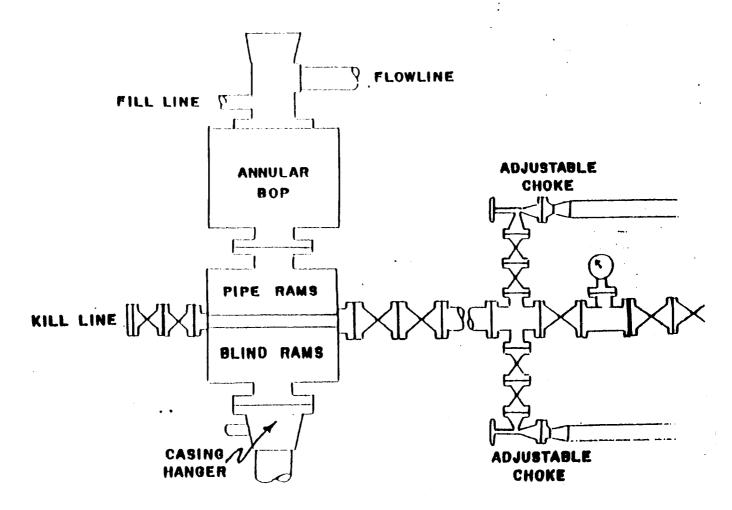


EXHIBIT "E"
CHI OPERATING, INC.
Aspen Federal Com., Well No. 1
BOP Specifications