N. M. Off Corp. Devision end of the arteels for Little

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

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ER CLOS STATES IN THE STATE OF STATES IN THE	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
12 49/ES/	5. Lesse Serial No. NM - 01289
ER COLOLGAN	Indian, Allottee or Tribe Name
	7 (())

BUREAU OF LAND MAN	AGEMENT \2	15/A	0/	01209,		
APPLICATION FOR PERMIT TO D	PRILL OR REENTER CO	//	If Indian, Allottee o	r Tribe Name		
ia. Type of Work: 🖾 DRILL 🔲 REENT		COL CLAN	7. If Unit or CA Agreen	nent, Name and No.		
1b. Type of Well: Oil Well Gas Well Other	D state zoon D ver		8. Lease Name and Well	26000 No. 4.1		
2. Name of Operator Classic Co.	Single Zone Mul	liple Zone	Ironsides Fede	eral # /		
3a. Address	3b. Phone No. (include area code)		9. API Well No. 1 30 -0/5	- 31171		
PO Box 1799 Midland, TX 79702		10. Field and Pool, or Exp	loratory			
	(915) 685-500	1	WC Crow Flat; Morrow S			
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk	and Survey or Area		
At proposed prod. zone 1650' FNL & 660 At proposed prod. zone Same	V FWL .	5	Sec. 3-T17S-	- R28F		
14. Distance in miles and direction from nearest town or post office* 18 miles NE of Artesia, N			12. County or Parish. Eddy	13. State NM		
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing	Unit dedicated to this well			
property or lease line, ft. (Also to nearest drig, unit line, if any)	577			320		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM/B	BIA Bond No. on file			
applied for, on this lease, ft. 29/07	10,150'		NM-1616			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3524' GL	22. Approximate date work will sta	1*	23. Estimated duration			
3524 GL	04/21/00		30 days			
	24. Attachments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	ched to this I	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). 	5. Operator certifica	tion. Specific infor	unless covered by an exist			
5. Signature	201101222 01702	·				
Dearge Smith	Name (Printed/Typed) George R. Sm	ith	Date	04/05/00		
Agent for: Chi Operating,	Inc.					
pproved by (Signature)	Name (Printed/Typed)		! Date	N		
Assistant Field Manager,	1	r di gal	MA	Y 3 1 2000		
Lands And Minerals	Office ROSWELL FILLE	COFFICE	4 TO DESCRIPTION AND A TO DESC	TOTAL VIVIAN		
pplication approval does not warrant or certify the the applicant holds legoerations thereon. onditions of approval, if any, are attached.	al or equitable title to those rights in t	he subject les	se which would entitle the a	pplicant to conduct		
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	crime for any nerson knowingly and	willfully to	make to any discount			

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

*(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.

SECENTED 4 05

District I

1625 N. Frenck Dr., Hebbs, NM 88249

District II

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

WELL LOCATION AND ACREAGE DEDICATION PLAT WELL LOCATION AND ACREAGE DEDICATION PLAT Topic State Well Humber The Gode WC Crow Flat; Morrow SE Troparty Name Well Humber Troparty Name Troparty Name	811 South Pirst, A. District III 1000 Rio Brazos R District IV	d., Aztec,	NM 87410	_		OI	L C	ONSERVA 2040 Sou Santa Fe.	th Pa	N DIVISIO checo 87505)N s	Submit to	State Fee	nte District Office Lease - 4 Copies Lease - 3 Copies
Property Code	3000 South Packer	e, Santa F			1110	ጉልግ	ri () N	I AND AC	`DE /	CE DEDI	CATION DI	AT L	AME	NDED REPORT
Property Code IRONS IDE FEDERAL Property Name Well Number 1 1 1 1 1 1 1 1 1	'A	Pl Numb		VV LSI	T						Pool Na			
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Signature Signature Printed Name George R. Smith Title Agent for: Chi Oper., Irc Due April 5, 2000 "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 behind. MARCH NO. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.		I Joint o	r Inffil	Con	relidation	Code	" Ori	ler No.						
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APPLICATION FOR DRILLING

CHI OPERATING, INC.

Ironsides Federal, Well No. 1 1650' FNL & 660' FWL, Sec. 3-T17S-R28E Eddy County, New Mexico Lease No.: NM-012897 (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:

Yates	400'	Strawn	8810'
Penrose	1350'	Atoka Morrow	9350'
San Andres	1920'	Morrow Clastic	9650'
Glorietta	3300'	Mississipian	9850'
Tubb	4650'	Chester	10,000'
Wolfcamp	6550'	T.D.	10,150'
Upper Penn	7750'		10,150

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 Cisco below 7750'.

Gas: Possible in the Grayburg below 1,750', Atoka below 9,350' and the Morrow below 9650'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT SET	TING DEPTH	OUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	H-40	ST&C	425° X	Circ. 350 sx "C"
12 1/4"	8 5/8 "	32.0#	J-55	ST&C	2.000'	Circ. 650 sx "C" cement.
7 7/8"	5 1/2"	15.5#	N-80	LT&C	10.150'	475 sx of "H" to 8,000"
		17			- 5,100	175 5% 01 11 10 6,000

* at top of tail

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 12 1/4" and will be tested daily. See Exhibit "E".

6. MUD PROGR	AM;	MUD WEIGHT	VIS.	W/L CONTROL
0' - 4	125': Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
425' - 20	000': Brine mud:	10.0 - 10.2 ppg	28 - 29	No W/L control
	600': Fresh water mud:	8.3 - 8.4 ppg	28 - 29	No W/L control
	100': Cut Brine mud:	9.6 - 10.0 ppg	28 - 29	No W/L control
	500': Cut Brine mud:	9.6 - 10.0 ppg	32 - 36	W/L control 10 cc +/-
9500' - 10,1	50': Cut Brine mud:	9.6 - 10.0 ppg	42 - 48	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: Possible in the Strawn and Atoka.

Logging: T.D.to 6500': GR-CAL-CNL-LDT-DLL-MICRO

T.D. to Surface: GR-Neutron

Coring: As dictated for the Atoka and Morrow.

ME

Chi Operating, Inc. Ironsides Federal, 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 = 4200 with a temperature of 164°.
- 10. H₂S: None expected.
- 11. Anticipated starting date: May 1, 2000.
 Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC.

Ironsides Federal, Well No. 1 1650' FNL & 660' FWL, Sec. 3-T17S-R28E Eddy County, New Mexico Lease No.: NM-012897) (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 and environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Public Access map showing the location of the proposed well as staked. The well site location is approximately 18 road miles east of Artesia, NM. Traveling east of Artesia on U.S. Highway 82 and county roads, there will be 13 miles of paved highway, plus 5 miles existing gravel County Rd. #208 and oil field road.
- B. Directions: Travel east from Artesia, NM on U. S. Highway 82 for approximately 13 miles to the County Rd #208 (Red Lake Road). Turn north on County Rd. #208 for 3.8 miles to a crossroads and the end of the County Rd #208. Continue north 1.2 mile on a good gravel road to the location of the proposed well site. The center stake is located on the left (west) side of the road. The proposed access road will detour around the west side of the pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road and detour will be approximately 600 feet long. The proposed and existing roads are color coded on Exhibits "A" and "B".
- B. Construction: The proposed access roads will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None.
- E. Cuts and Fills: Minor cuts of 3 6 foot dunes will be required.
- 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.

Ironsides Federal, 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 on the location, if available, or from a Federal pit in NW4 NE4 Sec. 21-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
- 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 land fill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

Chi Operating, Inc.

Ironsides Federal, 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: 290' X 175', plus 110' X 120' with reserve pits on the north.
- Cut & Fill: The location will require a 2- foot cut on the east with fill to the west, including leveling 3 6 foot sand dunes.
- 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 needed 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 on a gentle 1-2% slope to the southwest toward Red Lake. The surface has hummocky sand dunes at the location, which has an elevation of 3524' GL.
- B. Soil: The topsoil at the well site is a light tan sandy loam soil with surface scatter of gypsiferous and limestone rock from the Rock Land escarpment to the east. The soil is part of the Pajarito-Dune land complex.
- C. Flora and Fauna: The vegetation cover has very little to no grass, with the primary cover being plants of mesquite, yucca, fourwing saltbush, broomweed, Russian-thistle, 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: Red Lake, a shallow currently dry pond like lake, is 1300 feet to the west.
- E. Residences and Other Structures: None in the immediate vicinity.
- F. Land Use: Cattle grazing.

Chi Operating, Inc.

Ironsides Federal, 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 may be some minor evidence of archaeological, historical or cultural sites in the staked area. An archaeological survey is being conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, 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

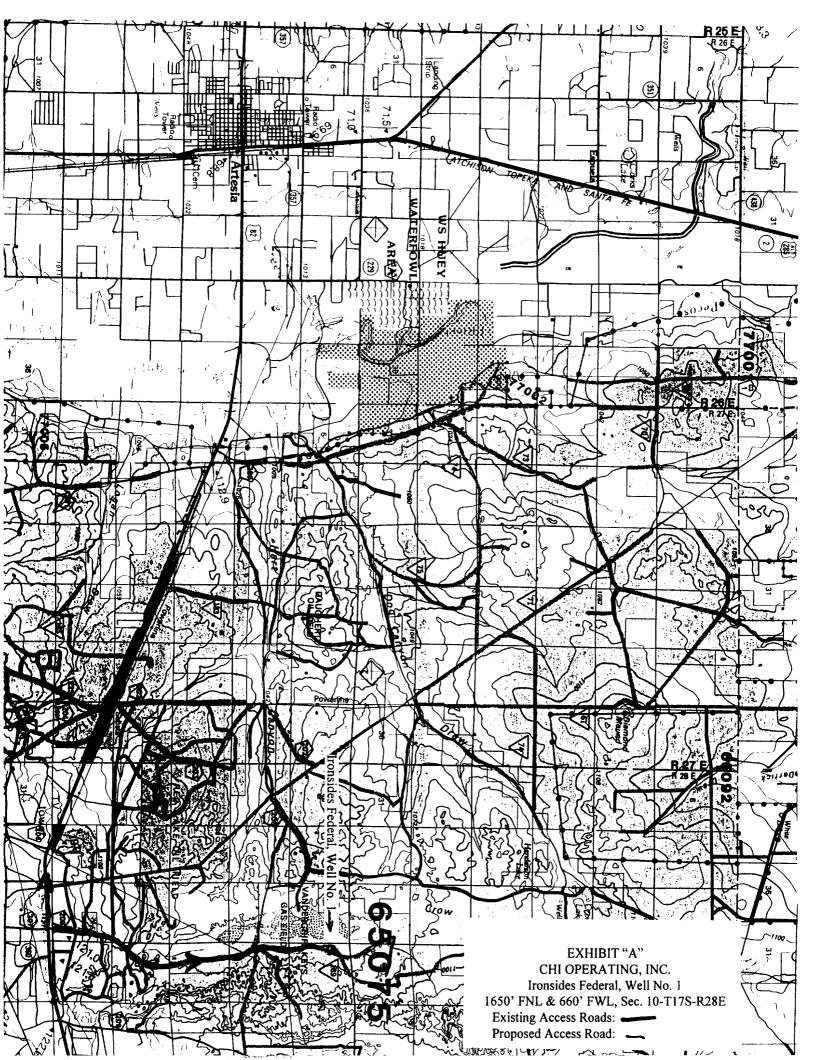
13. CERTIFICATION:

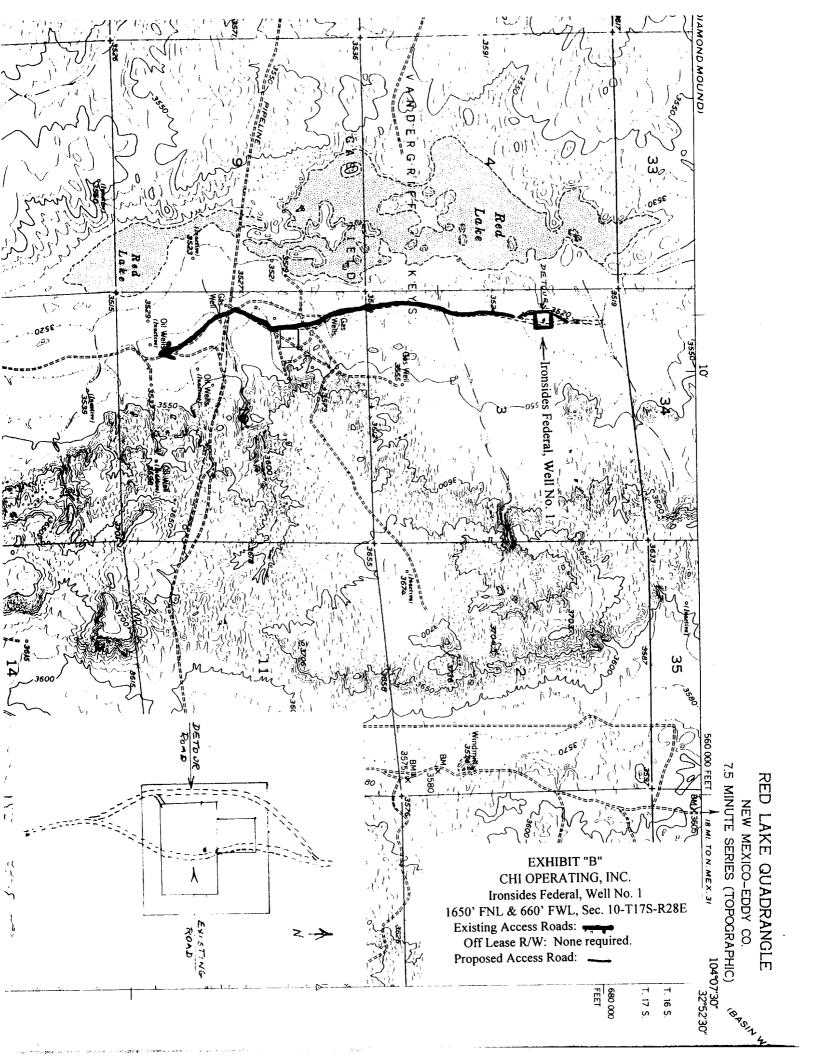
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will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

April 5, 2000

George R. Smith

Agent for: Chi Operating, Inc.





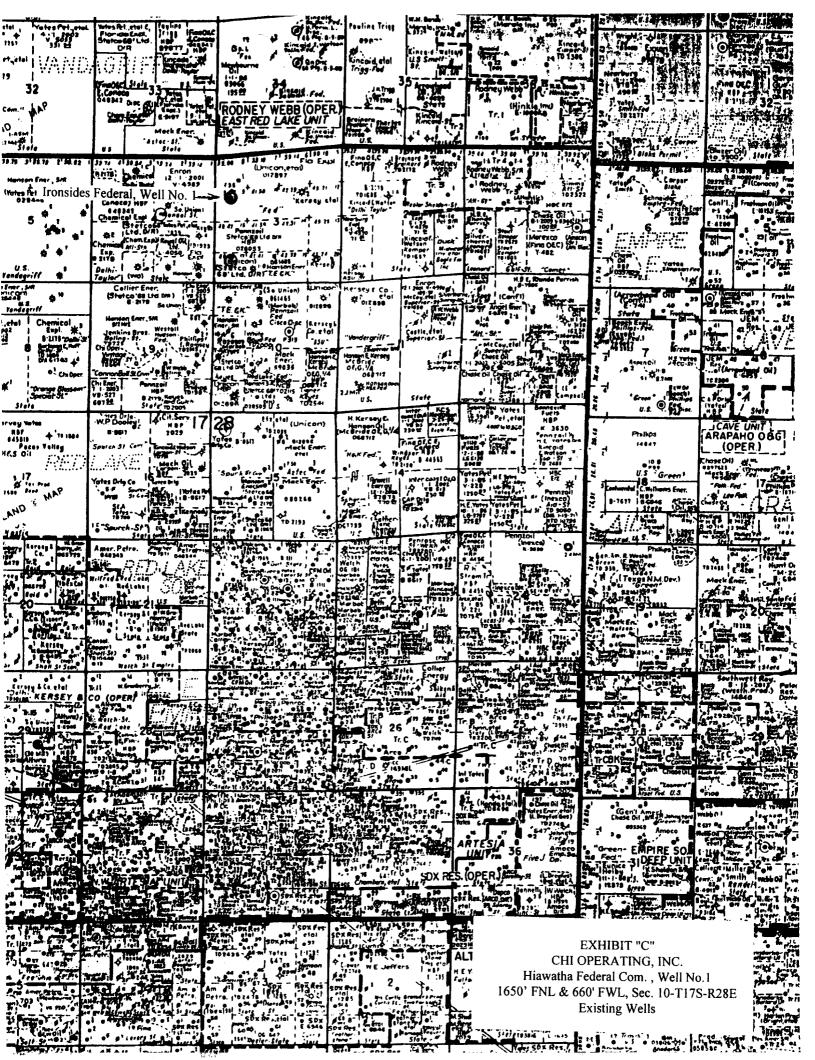
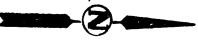


EXHIBIT "D"
CHI OPERATING, INC.
Ironsides Federal, Well No. 1
Pad & Pit Layout



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

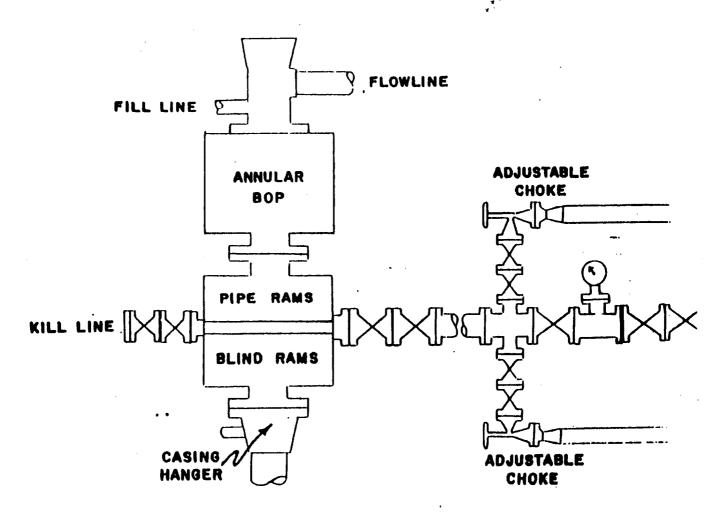


EXHIBIT "E"
CHI OPERATING, INC.
Ironsides Federal, Well No. 1
BOP Specifications