Form 3160-3 (August 1999)

N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue

UNITED STATARTESIA, NM 88210

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

DEPARTMENT OF THE IN	TERIOR			5. Lease Seriai No.		
BUREAU OF LAND MANAG				NM-13232		
APPLICATION FOR PERMIT TO DR		EENTER		6. If Indian, Allottee	or Tribe Name	
la. Type of Work: DRILL REENTER				7. If Unit or CA Agre	eement, Name and	No.
1b. Type of Well: Oil Well Gas Well Other	Пе	ngle Zone 🔲 Multir	ala Zama	8. Lease Name and W		
	<u> </u>	ngle Zone 🔲 Multip	ole Zone	USA "9" Federal, W	/ell No. 4	
2. Name of Operator				9. API Well No.	- 333,43	
Chi Operating, Inc. 3a. Address	3h Phone No	. (include area code)		10. Field and Pool, or		
	(432) 685-5	•		Old Millman Ranch		
4. Location of Well (Report location clearly and in accordance with a	<u> </u>		VED	11. Sec., T., R., M., or		or Area
At surface 660' FNL & 1980' FEL	ny blate requi			, , , , , , ,		
At proposed prod. zone same		MAR 1 0	2004			
14. Distance in miles and direction from nearest town or post office*		OCD-AR	TESIA	Sec. 9-T20S-R28E 12. County or Parish	13. Sta	
11 road miles NE. of Carlsbad, NM		OOD-AIT	ובטוג	Eddy	NM	ite
15. Distance from proposed*	16. No. of A	Acres in lease	17. Spacing	g Unit dedicated to this		
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'						
(Also to nearest drig. unit line, if any) 660' 18. Distance from proposed location*	19. Propose		20 DI M/D	IA Bond No. on file		
to nearest well, drilling, completed,	19. Propose	a Deptii	ZU. BLIVII	ita Bolid No. oli file		
applied for, on this lease, ft. 1320'	6,800'		N	M-1616		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration	on	
3277' GL	04/	01/04		3 - 4 weel	ks	
	24. Atta	chments	CAPITA	N CONTROLLED V	WATER BASIN	Í
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be att	ached to this	s form:		
1. Well plat certified by a registered surveyor.		4. Bond to cover the	e operations	s unless covered by an	existing bond on	file (see
2. A Drilling Plan.		Item 20 above).	•	,,		
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the	5. Operator certifica 6. Such other site s authorized office	pecific info	rmation and/or plans	as may be require	d by the
25. Signature	Name	(Printed/Typed)			Date	
Debrack, Ametr	Geor	ge R. Smith			2/06/04	
Title					*	
Agent for Chi Operating, Inc. Approved by (Signature)	: Name	(Printed/Typed),			Date a MAR	
Approved by (Signature) /s/ Leslie A. Theiss	Name	s (Frimea Typea)/s/L	eslie A	. Theiss	B MAR	2094
Title FIELD MANAGER	Offic	CARL	SBAD	FIELD OFFI	CE	
Application approval does not warrant or certify that the applicant holds l	egal or equita	ble title to those rights in	n the subject	lease which would entit	le the applicant to	conduct
operations thereon. Conditions of approval, if any, are attached.		Α	PPRO	VAL FOR 1	YEAR	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as t	a crime for a o any matter v	ny person knowingly ar vithin its jurisdiction.	nd willfully	to make to any departm	ent or agency of the	ne United
*(Instructions on reverse)	1	Witness Surfa	ce Cas	ing		
	`	· TOUR OOS COMMISSION				

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**

Form C-102

Revised March 17, 1999
Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

<u>District I</u> 1625 N. Franch Dr. Hobbs, NM 88240

District || 811 South First, Artesia, NM 88210

District III 1000 Rie Brozos Rd., Aztec NM 87410

District IV 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

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	AMENDED	REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	W	ELI	_ LOCA	10IT <i>P</i>	1 A	AND	AC	RE/	4GE	DEDICA	ation f	PLAT	
API	Number			Pool Cod 48035	5	T			010	Pool Millman	Name Ranch Bo	ne Spring	
Property Cod	le						erty No					Well	Number
OGRID No.					U:		g" F		RAL			Eleva	4
4378					CHI	•			INC	•		327	
k						rface							
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В	9		20-S	28-		L				L		EAS I	EDDI
UL or Lot No.	Section		Botton Township	n Hole Range	e Lo	catio			erent	From Sui		East/West fine	County
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Dedicated Acres 40	Joint or	Infill	Consolidation	on Code	Ore	er No.							
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													Oper. Inc
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APPLICATION FOR DRILLING

CHI OPERATING, INC.

USA "9" Federal, Well No. 4
660' FNL & 1980' FEL, Sec. 9-T20S-R28E
Eddy County, New Mexico
Lease No.: NM-13232
(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	2,200'	Avalon SD	6,400'
Queen	3,100'	T.D.	6,800'
Delaware	4,050'	`	
Bone Spring	6,210'		

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	SETTING DEPTH	QUANTITY OF CEMENT	
17 1/2"	13 3/8"	48.0#	J-55	ST&C	450'	Circ. 450 sx "C" + add.	WITNESS
7 7/8"	5 1/2"	15.5#	J-55	ST&C	6,800'	Circ 1660 sx "C" & "H"	
Note: If dril	ling conditions	dictate, v	vill ream	out with	11" and run follow	wing program:	
11"	8 5/8"	24.0#	J-55	ST&C	3,000'	Circ.635 sx "C" cement.	
7 7/8"	5 1/2"	17.0#	J-55	ST&C	6,800'	Tieback with 535 sx "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 as described in Onshore Oil & Gas Order No. 2 before drilling out with the 7 7/8" and will be tested as a 3000 psi wp system. See Exhibit "E".

6.	MUD P	ROGRAM:	MUD WEIGHT	VIS	W/L CONTROL
	0' -	450': Fresh water mud:	8.4 - 8.5 ppg	32 - 38	No W/L control
İ	450' -	6200': Cut Brine w/gel & lime:	9.0 - 9.3 ppg	28 - 30	No W/L control
	6200' -	6800': Cut Brine w/gel & starch:	9.0 - 9.3 ppg	29 - 31	W/L control 10cc

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.

 $Logging: \ T.D.-3000": \ GR/CAL/CNL/LDT/DLL/MSFL$

3000 to surface: GR/CNL.

Coring: None.

Chi Operating, Inc. USA "9" 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 = 2992 psi and 1496 psi surface pressure with a temperature of 128°.
- 10. H₂S: None expected.
- 11. Anticipated starting date: April 1, 2004.

 Anticipated completion of drilling operations: Approximately 3 to 4 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN CHI OPERATING, INC.

USA "9" Federal, Well No. 4
660' FNL & 1980' FEL, Sec. 9-T20S-R28E
Eddy County, New Mexico
Lease No.: NM-13232
(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 Topographic Artesia Quadrangle map showing the location of the proposed well as staked. The well site location is approximately 30 road miles southeast of Artesia, NM or 11 miles northeast of Carlsbad, NM. Traveling east of Artesia on U.S. Highway 82 and county roads, there will be 27 miles of paved highway, plus 3.3 miles of existing gravel oilfield roads.
- B. Directions: Travel east from Artesia, NM on U. S. Highway 82 for approximately 8.5 miles to SPS power station. Turn southeast (right) onto county road #204 for 3 miles; then south on county road #206 for 12.7 miles to the Angel Ranch road (county road #237); then east on #237 for 2.5 miles to an oilfield road turnoff on the east (left) side of the road leading to a well site on the hill .25 mile east. Turn north at this well site and continue north, parallel to a power line on the west, for 1.75 miles, then take oilfield road on the right for .9 mile where road turns south for .3 mile to a cattle guard on the east. Turn west .1 mile toward the Colt Fed., #1 well site, and then south 1500 feet to the USA "9" Fed., Well No. 2 well site. The start of the proposed access road will start on the southwest corner of this pad and will run west for approximately 1000 feet to the southeast corner staked location and will access the northeast corner of the well pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 1200 feet of new access road 12 feet wide (24' max.). The proposed and existing access roads are color coded on Exhibit "A".
- B. Construction: The new access road 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: None required.
- F. Gates, Cattle guards: None required.
- G. Off Lease ROW: The existing off lease Right of Way No. 88445 as amended will be used.

Chi Operating, Inc. USA "9" Federal, Well No. 4 Page 2

3. LOCATION OF EXISTING WELLS:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time.
- If the well proves to be commercial, the necessary production facilities will be installed on В. the drilling pad. A 3" SDR 11 poly line with a 160 psi pressure rating and < 100 psi operating pressures, will be run parallel to the access roads back to the tank battery and gas separator on the USA "9" Fed. #2

5. LOCATION AND TYPE OF WATER SUPPLY:

It is planned to drill the proposed well with fresh water that will be obtained from private or A. commercial sources and will be transported over the existing and proposed access roads or a fast line beside existing roads may be used.

WI PRIOR SUNDER WOFFOUR . TSO

SOURCE OF CONSTRUCTION MATERIALS:

6.

Caliche for surfacing the proposed access road and well site pad will be obtained from A. materials on the location, if available, or from a Federal pit in the NW4SE4, Sec. 12-T20S-R27E. 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.

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: 250' X 175', plus 110' X 110' reserve pits on the south.
- C. Cut & Fill: There will be a 2.5'-3' cut on the south and southeast with fill to the north and northwest
- 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. Unguarded pits containing fluids will be fenced and screened 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 within 90 days after abandonment or as soon as they are dry enough to be worked.

11. OTHER INFORMATION:

- A. Topography: The well site and access road are located in the Burton Flats area and 1.5 miles west of the Palmilla Draw with an overall .5% slope to the southeast from an elevation of 3277' GL.
- B. Soil: The topsoil at the well site is a light colored, well drained, shallow calcareous soil over gypsum soil and rock of the Reeves Gypsum series.
- C. Flora and Fauna: The area vegetation cover is a sparse to fair grass cover of threeawn, gyp grama, gyp dropseed, along with plants of mesquite, broomweed, yucca, Javelina, sage, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, 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 except petroleum production facilities.
- F. Land Use: Cattle grazing.

Chi Operating, Inc. USA "9" Federal, Well No. 4 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 evidence of any archaeological, historical or cultural sites in the area. Archaeological Survey Consultants, P.O. Box 2285, Roswell, NM 88202, conducted 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 surface use and operations plan is as follows:

John Qualls Chi Operating, Inc. P. O. Box 1799 Midland, Texas 79701 Office Phone: (432) 685-5001 Cell Phone: (432) 557-8774

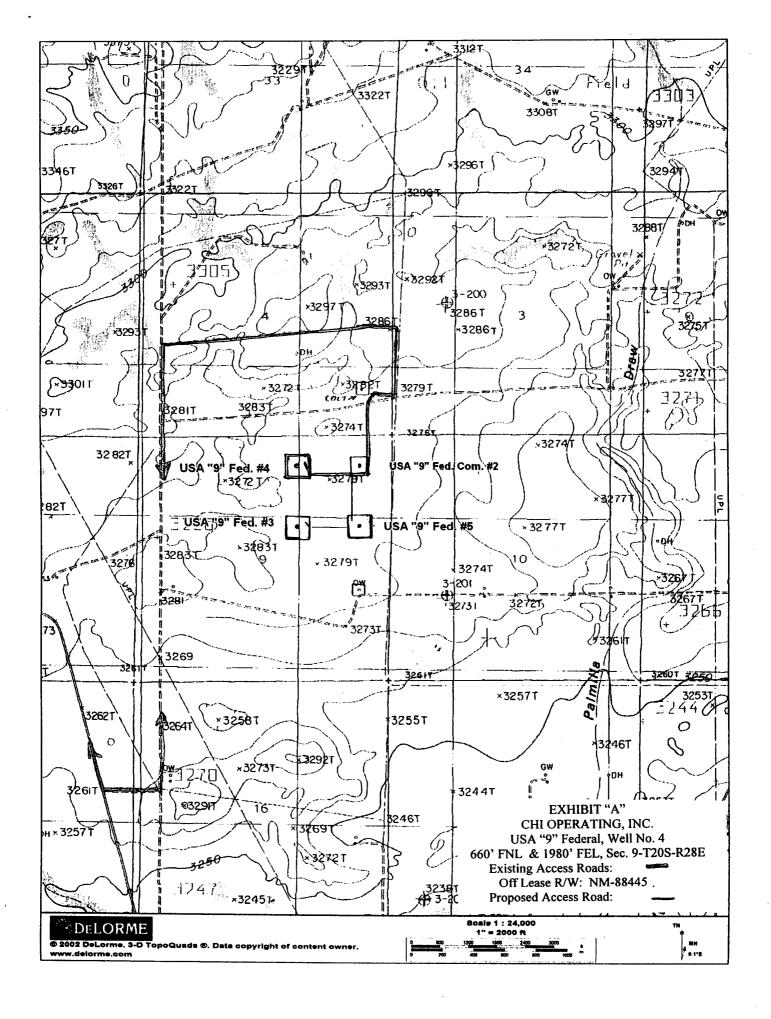
13. CERTIFICATION:

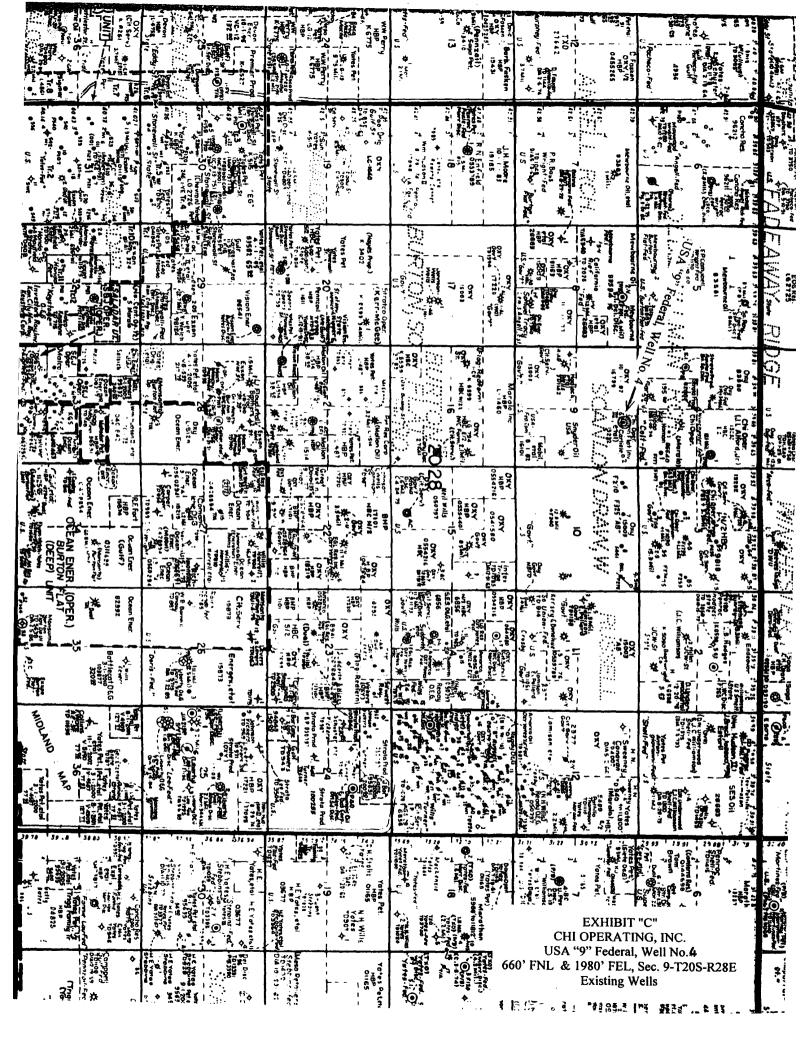
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will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

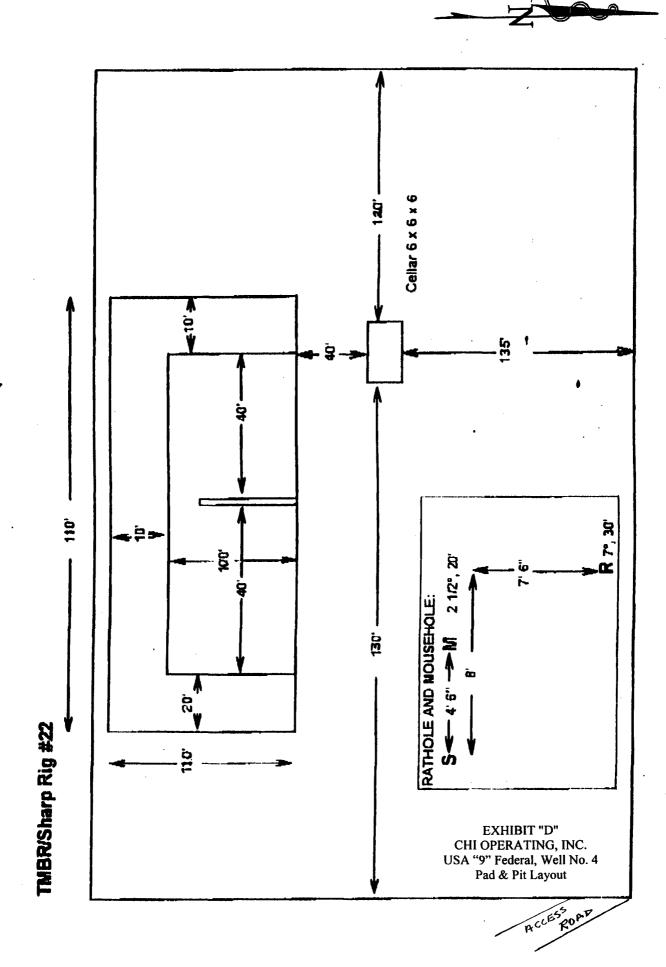
February 6, 2004

George R. Smith

Agent for: Chi Operating, Inc.







TIMIBIN/SIH/AIRIP IDIRILLUNG

B.O.P. Equipment Intended for use on Rig # 24
Well To Be drilled for TM32/5harp

' All B.O.P equipment is H2S Trim'

'All Accumulatore are Koomey Type 80 : Dual Power Electric/Air'

'Choke Manifold: 'See sheel 2

4' Valves : Cameron F/FC, Shaffer DB Hydraulla

2" Check Valve: Cameron Type R

2' Valves: Cameron or Shaffer

Annular Shaffer Type: Splental

Annular PSI: 3000

(If Shaffer: Spherical , If Hydril: Type OK)

BOP Type Staffer LWS

(If Shaffer: LWS or SL, If Cameron: Type U) **BOP Size:** 13/8 " - 5000 PSI

Rolating Head Type 5-11-15

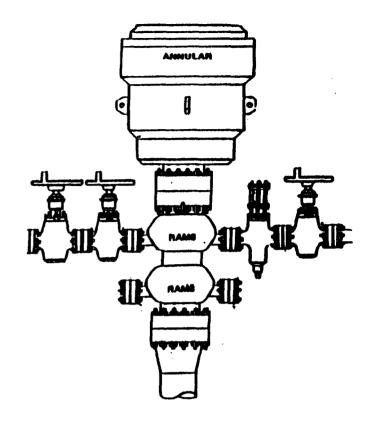
Rol-Head Furnished By Time

Rams in top gate: 41/2 pipe

Rams in bollom: Blinds

Side Oullets used: Bottom_X_ Top___

4" Valves on Tee



B.O.P. Equipment intended for use on Rig # Well To Be drilled for white Sharp

'All Valves (H28)'

Choke Manifole:

Pressure Rating 3,000 or 5,000 (as Req.)

1 - 4" Valves

2 - 2" Valves

2 - 2" Adjustable Chokes

Valve Types Used:
Cameron - F or FC
Shaffer - B Floseal

WKM - type 2
Chokes - Cameron H2 or TC unibolt

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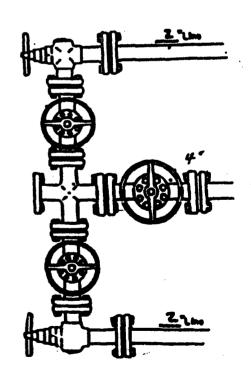


EXHIBIT "E"
CHI OPERATING, INC.
USA "9" Federal, Well No. 4
BOP Specifications