1.		. 1	. .				
Form 3160-3 (November 1983) (formerly 9-331C)		ED STATES	5	8000 (01)	IT IN TH er instruc reverse si	IPLICATE tions on de)	Form approved. Budget Bureau No. 1004–0136 Expires August 31, 1985
T/	/ DEPARIMENT	Or THE I	NIE	RIOR			5. LEASE DEGIGNATION AND SECIAL NO.
0^{\prime}	BUREAU OF	LAND MANAG	Gemen	11			SF-079033
APPLICATION	N FOR PERMIT	O DRILL, I	DEEP	EN, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTER OR TRISS NAME
1a. TYPE OF WORK	11 121	DEEDEN		DII			7. UNIT AGREEMENT NAME
A. TIPE OF WILL						~	San Juan 29-5 Unit
	AB TA OTHER		81 14		MULTIP: SONS		8. FARM OR LEAGE FAME
2. NAME OF OFBRATOR							
Phillips Pet	roleum Company	7					9. WELL NO.
8. ADDRESS OF OPBRATOR		·		<u> </u>		·····	224
300 W. Arrin	gton, Suite 20	00, Farmin	gton	, NM 874	01		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (B	eport location clearly and	la accordance wi	th any f	itato requiremen	its.*)		Basin Fruitland Coal Gas
Unit M. 129	3' FSL & 736'	FWL					11. SDC., T., B., M., OB DLE.
At proposed prod. son							
Unit M, 129	3' FSL & 736'	FWL	_				Sec. 23, T-29-N, R-5-W
14. DISTANCE IN MILES	AND DIRECTION FROM NEAL	LEST TOWN OR POS	T OFFIC	B+			12. COUNTY OR PARISE 13. STATE
	·						Rio Arriba 🛛 🕅
18. DISTANCE FROM PROP LOCATION TO HEARES PROPERTY OR LUARS I (Also to pearest dri	DEED [®] r LIME, pr. g. unit line, if any)736	' FWL	16. M 600). OF ACREA IN	lbasş	17. NO. 0 TO TH 320 A	FACRES ASSIGNED THE WELL C W/2 of Section
18. DISTANCE FROM PROF TO NEAREST WELL, D OS APPLIED FOR, ON TH	OSED LOCATION [®] RILLING. COMPLETED, IS LEASE, PT. 305'	from #39	19. рі 376	5/ (+)		20. BOTAL Rotar	BT OR CABLE TOOLS
21. BLEVATIONS (Show wh	other DF. RT. GR. otc.)			· · · · · · · · ·			23. APPBOR. DATE WORK WILL START*
6906' (GL U	inprepared)						Upon Approval
23.	F	ROPOSED CASI	NG ANI	CEMENTING	PROGRA	.¥	
SISS OF ROLE	BILL OF CARING	WBIGHT PBR P	007	BETTING D	epth		QUANTITY OF CEMENT
12-1/4"	9-5/8"	<u>36#, K-55</u>		250'		250 s	xs, Circ to Surface
8-3/4"	7"	23#, K-55	;	3630'		650 s	xs, Circ to Surface
6-1/8"	5-1/2"	15.5# or	23#	3530'-3	7651	*	
*If the coal without being	is cleated, a cemented.	5-1/2", 2	3#,	P-110 li	ner w	ill be	run in the open hole
*If the coal J-55 liner wi	is not cleated 11 be run with	d, the wel nout being	l wi cem	ll be st ented.	imula	ted and	d a 5-1/2", 15.5#,
Unorthodox loc	ation. Will pr	ovide copie	es of	request	from NI	MOCD.	

Mud Program and BOP Equipment: See Attached

£.

IN ABOVE SPACE DESCRIBE PROFOSED PROFERM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive some. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vortical depths. Give blowout preventer program, if any.

31. BIGNED <u>S. M. Janlers</u>	Supv. Regulatory Affairs	DATE <u>9/15/90</u>
(This space for Federal or State office use)		
PBBNIT NO	APPBOVAL DATE	
APPROVED BY Conditions of Approval, ip any :		BATR

"See Instructions On Revenue Side

Title 18 U.S.C. Section 1001, makes 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. Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

-' · .

DISTRICT] P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artasia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Arree, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

.

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2083 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Operator			Lease				Well No.
PHILLIF	PS PETROLEUM		SA	NAUL N	29-5	UNIT	224
Unit Letter Section	23 Township	N.	Range	R.5 V	٧. ,	RIÓ A	RRIBA COUNTY
Actual Footage Location of	W ell;				0		
1293 (11/1)	SOUTH	line and		736	feet	from the WES	Tline
Grouzd level Elev.	Producing Formation	intre and	Poul				Dedicated Acreage:
7148	Fruiltand Coal		Basin	Fruitlan	d Coal	· .	320 Arrs
1. Outline the acre	age dedicated to the subject well	by colored pep	il or hachure	marks on the p	lu below.	······································	
	,						
2. If more than on	e lease is dedicated to the well, o	sulfine each and	identify the c	where the second	of (both as to w	conting interest and r	royalty).
3. If more than on-	e lease of different ownership is	dedicated to the	well, have th	e interest of all	owners been a	onsolidated by comm	munitization.
unitization, fore	e-pooling, etc.?		,		• . •	- -	
X Yes	No If ans	wer is "yes" typ	of consolidation	uion <u>u</u>	<u>nitizati</u>	on	
If answer is not it	ist the owners and tract description	ons which have	ictually been	consolidated (Use reverse sid	se or	
No allowable will	be assigned to the well until all i	nterests have be	n consolidat	ed (by communi	itization, unitiz	ation, forced-pooling	z, or otherwise)
or until a non-stan:	dard unit, eliminating such intere	si, has been app	roved by the	Division.			-
1-1-1		¢				OPERAT	OR CERTIFICATION
	SF-079033			1	1	/ herein	certify that the information
	Tract 13			1 des	9	contained herein	i in true and complete to the
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	· ·	,		r r		Date	ectoreum company
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	SEC.	23		 		SURVEY	OR CERTIFICATION
1	i X	,		1		I berehv certify	that the well location shows
4				1.		on this plat wa	is plotted from field notes of
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SURFACE USE PLAN

Phillips Petroleum Company, <u>San Juan 29-5 Unit</u>, <u>Well No. 224</u>, <u>SW/4 SW/4</u>, Section 23, T-29-N, R-5-W, <u>Rio Arriba</u> County, New Mexico. (Fed Lease No. <u>SF-079033</u>).

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately <u>25 miles east from Blanco</u>. New Mexico. The following is a discussion of pertinent information concerning the possible effect which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

- 1. Existing Roads:
 - A. <u>To reach the proposed location, start from Farmington, N.M. take N.M.</u> <u>64 approximately 49 miles to Gobernador, N.M.. Go past Sims Mesa Highway</u> <u>approximately five miles.</u> Turn right and follow the existing access road to Well No. 39. The proposed location is near the existing pad.
- 2. Planned Access Roads:
 - A. The access road is shown on the attached map. The new location is adjacent to an existing well pad, therefore no new access road will be necessary All existing roads used to access the proposed location shall be maintained in the same or better condition than presently found. The access road is to be classified "Temporary Resource Road".
 - B. <u>Turnouts:</u> None.
 - C. <u>Drainage Design: The present drainage will be maintained for the existing</u> access road. After completion of Well No. 224, a diversion cut will be placed below the cut on the east side with drainage to south. Round off NW corner, barricade existing location, and keep disturbance within stakes on north side of pad.
 - D. <u>Culverts, Cuts and Fills:</u> Make pits long and narrow. 3 to 1 cut slopes. See Cut and Fill Sketch.
 - E. <u>Surfacing Material:</u> Natural materials at well site.
 - F. Gates, Cattle Guards, Fences: As required
 - G. Proposed Road: No new access road are needed.
- 3. Locations of Existing Wells: Well No. 39, 990' FSL & 700' FWL
- 4. <u>Locations of Tank Batteries, Production Facilities, Production Gathering, and</u> <u>Service Lines:</u> In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion. To protect livestock and wildlife, the reserve pit will be fenced with mesh wire. The condensate tanks will be enclosed by a dike.

Surface Use Plan -- San Juan 29-5 Unit Well No. 224

Page: 2

Upon completion of drilling, the location and surrounding area will be cleared of debris. The Flow line from Well No. 224 is to run from a measurement point to the meter house at Well No. 39 location. A diagram of the production facilities will be submitted after final placement. NOTIFY BILL LIESS WITH THE BLM 48 HOURS PRIOR TO PAD CONSTRUCTION.

- 5. <u>Water Supply Source:</u> <u>Will be provided by the drilling contractor and trucked to</u> <u>the drilling site.</u> See Attachment No. 1 - WATER SUPPLY SOURCE.
- 6. Source of Construction Materials:

No additional construction materials will be required to build the proposed location.

- 7. Methods for Handling Waste Disposal:
- A. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced with mesh wire on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be back filled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and re-seeded with the appropriate seed mixture.
- B. All garbage and trash will be placed in specially constructed wire mesh containers. Upon cleanup, the refuse in the containers will be hauled to an approved landfill site.
 - All produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted for appropriate approval.
- 8. Ancillary Facilities: None
- 9. <u>Well Site Layout:</u> Attached sketch shows the relative location and dimensions of the well pad, mud pit, reserve pit, and trash pit. Location will be <u>230'</u> X <u>300'</u>.
- 10. Plans for Restoration of Surface:

Pit will be back filled and levelled as soon as practical to original condition. If well is productive, drilling pad will remain as well service pad. If dry hole, the pad will be ripped per regulations. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 60 days from commencement. Surface Use Plan--San Juan 29-5 Unit No. 224.

Page: 3

11. Other Information:

- A. Terrain: See Archaeological Survey
- B. Soil: See Archaeological Survey
- C. Vegetation: See Archaeological Survey
- D. Surface Use: See Archaeological Survey
- E. Ponds and Streams: See Archaeological Survey
- F. Water Wells: No water well located in Section 23
- G. Residences and Buildings: <u>There are no occupied residences or buildings</u> within one quarter of a mile of the proposed well location.
- H. Arroyos, Canyons, etc.: See Archaeological Survey
- I. Well Sign: <u>Sign identifying and locating the well will be maintained at</u> <u>drill site with the spudding of the well.</u>
- J. Archaeological Resources: <u>See Archaeological Survey. The archaeological</u> <u>site will be protected as recommended in the archaeological survey.</u>
- 12. <u>Operator's Representatives:</u> Field personnel who can be contacted concerning compliance of the "Surface Use Plan" is as follows:

Production and Drilling or A. R. Lyons 300 West Arrington, Suite 300 Farmington, New Mexico 87401 Phone: 505-599-3401 R. A. Allred 300 West Arrington, Suite 300 Farmington, New Mexico 87401 Phone: 505-599-3403

13. Surface Ownership: The surface ownership is Federal.

14. <u>Certification:</u>

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this 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 Phillips Petroleum Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

<u>L. M. Sanders</u> Typed or Printed Name

<u>X. M. Sanders</u> Signature

<u>September 15, 1990</u>

Date surf2956.lar WATER SUPPLY SOURCE Surface Use Plan San Juan 29-5 Unit

Attachment No. 1

Depending on which drilling contractor is used, the water for drilling and completion operations will come from one of the following locations:

1. San Juan River at Blanco Bridge, NW SE SE Section 18, T-29-N, R-9-W.

2. 29-6 Waterhole in Unit L, Section 28, T-29-N, R-6-W.





SanJuan 29-5Unit Well No. 224



PHILLIPS PETROLEUM COMPANY

Preliminary 9-06-90

Well Name: San Juan 29-5 Unit Well No. 224

DRILLING PROGNOSIS

- 1. Location of Proposed Well: <u>1293' FSL & 736' FWL, Section 23, T-29-N,</u> R-5-W, Rio Arriba County
- 2. Unprepared Ground Elevation: ____6906, ___.
- 3. The geologic name of the surface formation is <u>San Jose</u>.
- 4. Type of drilling tools will be rotary.
- 5. Proposed drilling depth is <u>3765'</u>.
- 6. The estimated tops of important geologic markers are as follows:

Ojo Alamo -	3148'	<u>Base Coal</u> -	<u>3737'</u>
Kirtland -	3283'	Picture Cliffs -	3776'
Fruitland -	3583	Int. Csg	3630'
Top Coal -	3653'	T.D.	3765'

7. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo</u>	_	<u>3148'</u>	-	<u>3283'</u>
Oil:	None				
Gas:	Fruitland	Coal -	3653'	_	3737 '

8. The proposed casing program is as follows:

Surface String	<u>9-5/8",36#, K-55 @ 250'</u>
Intermediate String	7", 23#, K-55 @ 3630'
Liner*	5-1/2", 23#, P-110 or 15.5#, K-55 @3530'-3765'

9. Cement Program:

Surface String = <u>250 sxs (295 cu ft) CL "B" W/3% CaCl2 & 1/4# Cele-</u> <u>Flake/sk or quantity sufficient to circulate cement to</u> <u>surface</u>.

Intermediate String = Lead cmt. 500 sxs (1035 cu ft) Cl "B" 65/35 POZ w/12% Gel & 1/4# Cele-Flake/sx. San Juan 29-5 Unit Well No. 224

Page 2.

Intermediate String (Continued)

Tail. 150 sxs (177 cu ft) Cl "B" w/1/4# Cele-

<u>Centralizer Program:</u>

Surface: Centralizer at 10' above shoe. Top of 2nd Joint. Top of 4th Joint.

Intermediate: Centralizer at 10' above shoe. Top of 2nd Jt., Top of 4th Jt. Top of 6th Jt., Top of 8th Jt.

> Turbulator at 1 Jt. below Ojo Alamo Turbulator at top of next joint. Turbulator at top of next joint.

<u>Flake/sk</u>

- Liner =
 - * If the coal is cleated a 5-1/2" 23#, P-110 liner will be run in the open hole without being cemented.
 - * If the coal is not cleated the well will be stimulated and a 5-1/2", 15.5#, J-55 liner will be run.
- 10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.
- 11. The proposed mud program is enclosed within the APD packet.
- 12. The testing, logging, and coring programs are as follows: D.S.T.'s or cores: <u>None</u> Logs: <u>GR-D-N-NGT-ML</u>

Special Tests: <u>None</u>

13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H_2S equipment will be used.

14. The anticipated starting date is immediately upon approval with duration of operations for approximately 30 days thereafter.

drlpr185.lar

Revised 5/30/90

PROPOSED MUD PROGRAM San Juan 29-5 Unit Well No. 224 Rio Arriba County

250-3000 Ft. 8.0-9.0 PPG 45-65 Sec/Qt 8-10CC 12 3000-TD 9.5-10.0 PPG 35-50 Sec/Qt 6-8CC	DEPTH	MUD WEIGHT Spud Mud Lima and Gel	VISCOSITY	FLUID LOSS	СГ-РЪМ	\$ SOLIDS	<u> </u>
250-3000 Ft. 8.0-9.0 PPG 45-65 Sec/Qt 8-10CC 12 3000-TD 9.5-10.0 PPG 35-50 Sec/Qt 6-8CC)-250 Ft.	Spud Mud Lima and Gel					
3000-TD 9.5-10.0 PPG 35-50 Sec/Qt 6-8CC	250-3000 Ft.	8.0-9.0 PPG	45-65 Sec/Qt	8-10CC	120	DO PPM	DO PPM
	3000-TD	9.5-10.0 PPG	35-50 Sec/Qt	6-8CC			Low Solids

250-3000' Polymer mud and water with sweeps every 500' or less if hole conditions dictate.

3000'-TD Fresh water mud with CaCo3 & Polymer, low solids. Mud Wt. 9.5 to 10.0 PPG, as necessary to control well.

Start mud up 100' above Fruitland

.

BLOWOUT PREVENTER REQUIREMENTS

Well Name: San Juan 29-5 Unit No. 224

- I. Blowout preventer equipment, installation, testing and responsibilities will be in accordance with Phillips Petroleum Company's Blowout Preventer Standards.
- II. Figure No. <u>7-9 or 7-10</u> (Drawing Attached): Casing String <u>9 5/8"</u> <u>surface</u> BOP Size <u>10"</u>; Working Pressure <u>3,000</u> psi.
- III. Equipment to be furnished by Contractor:
 - A. Ram Type BOPs:
 - 1. No. Required _____
 - 2. Acceptable Manufacturers & Types
 - a. Cameron Iron Works: QRC; F; SS; U
 - b. Shaffer Tool Works: B; E; LWS; LWP

2

- c. Hydril
- B. Annular Type BOPs:
 - 1. No. Required _____ None
 - 2. Acceptable Manufacturers & Types
 - a. Hydril GK
 - b. Shaffer Spherical
 - c. Cameron D
- C. Preventer Operating Equipment
 - Hydraulic Pump air, steam or electrically operated of sufficient volume and pressure capacity to close the largest ram type preventer in less than 30 seconds. Electrically operated pump must be equipped with explosion proof motor and controls.
 - 2. Manifold with a control valve for each preventer.
 - 3. A Hydril or equivalent regulator for each annular type preventer.
 - 4. Accumulator of sufficient volume and pressure capacity to close all preventers in the assembly without recharging. If the pump in C.1. is incapable of recharging the accumulator in excess of 1500 psi, a separate pump capable of this is to be furnished.
 - 5. Remote control panel with a station for each preventer control valve.
 - Steel piping to connect hydraulic closing units to preventers.
 - 7. Choke manifold with seamless steel piping and flanged or clamp hub connections. Choke manifold assembly and piping sizes as specified, on the attached drawing. All working lines, except hydraulic closing lines, shall have flanged or clamp hub connections to preventers, spools and casing heads.
 - 8. Full opening drill string safety valve (I.D. equal or larger

Blowout Preventer Requirements Page 2

III. C. (continued)

. •

- than I. D. of tool joint in use). Working pressure to equal or exceed specified BOP working pressure. O.D. and configuration such that valve can be run in the hole with adequate clearance.
- 9. Full opening upper Kelly cock. Working pressure to equal or exceed specified BOP working pressure.
- 10. Hydraulic pump of sufficient pressure rating to test preventer assembly to rated working pressure with necessary hose and fittings to connect the pump to drill pipe box or safety valve pin.
- 11. Drilling spool for use with single ram type preventers or with dual ram type preventers which do not have outlets between the rams.
- 12. Two valves on each side of drilling spool or dual preventers, one side for choke manifold connection and the other for kill line connection.
- 13. Hand wheels and extensions for manual operation of the ram type preventers. U-joints, extension guides, working platform(s) as necessary.
- 14. A 1" 5000 PSI WP plug valve on the closing side of the annular type preventer using a XXE 1" x 4" nipple.
- 15. Flowlines from choke manifold to pits.
- 16. Pressure gauge with pressure range at least equivalent to BOP WP.
- IV. Equipment to be Furnished by Phillips:
 - A. Test plug to seat in casing head.
 - B. Remote controlled chokes, if installed.
 - C. Casinghead with valves on outlets.
 - D. Inside blowout preventer, if required.
 - E. Mud-gas separator, if required, and necessary piping.
- V. Location of Equipment & Controls:
 - A. <u>Remote control</u> panel on the rig floor adjacent to drillers position and stairway exit from the floor.
 - B. <u>Accumulator-Hydraulic Control Valve Unit</u> to be placed minimum of 50 feet from wellbore in easily accessible location.
 - C. <u>Choke Manifold</u> located 5 feet or more from the BOPs with minimum number of turns in the run.
 - D. <u>Manual closing facilities</u> installed so handwheels are outside the substructures in unobstructed location. U-joints, extension

Blowout Preventer Requirements Page 3

V. (Continued)

guides and working platforms installed as necessary for proper and safe operation.

- E. <u>Choke Manifold connection</u>, where possible, is to be made between the two bottom ram type preventers through use of a drilling spool or by connecting between rams of dual type units with outlets so installed.
 - 1. On dual type preventers where outlets are not installed between rams, connection is to be made to a drilling spool installed between the ram type and annular type preventers.
- F. <u>Position and Type Rams</u> will be as shown on the attached drawing.
- G. <u>Fill up line</u> to be tied into the bell nipple above annular preventers.
- H. <u>Safety Valve</u>, open with connections and/or subs available to fit any tool joint in use, shall be on the rig floor at all times.

VI. Testing

A. Initial Installation Test

Immediately after installation, each component part of the blowout preventer assembly including choke lines, valves and closing facilities will be tested individually by steps as outlined in the Blowout Preventer Testing Procedure section of Phillips' Blowout Preventer Standards. The test pressure will be at the working pressure specified in Item II. All components must be satisfactorily tested before drilling out.

- B. Ram Change or Repair Test
 - After each ram change or when any component part of the preventer assembly, including lines and valves, is disturbed, the disturbed portion is to be tested to working pressure specified in Item II.
 - 2. Installation of casing rams is not required for running casing.
- C. <u>Weekly Pressure Test</u>

The first trip out of the hole after 12:01 AM, Tuesday, weekly test will be performed as outlined in the Blowout Preventer Testing Procedure which includes testing the entire assembly with water to 1/2 the specified working pressure for 10 minutes. The Kelly cock and safety valve are to be tested to the specified working pressure. The weekly test is not required where the test falls within three days after the initial installation test. Upper kelly cock valve with handle available.

D. <u>Operational Test</u> Each preventer unit is to be closed and opened on each trip or

Blowout Preventer Requirements

Page 4

VI. D. (continued)

at least once each 48 hours (trip is not required just to actuate blind rams or pipe rams that do not fit top section of tapered string).

- VII. Responsibilities
 - A. Contractor is to install and test the blowout preventer assembly as specified.
 - B. The driller is to check and record the accumulator pressure on the daily drilling report at the beginning of each tour.
 - C. Expense of rig time and pressure testing services for initial and weekly tests will be borne by:
 - 1. Contractor while on footage contract.
 - 2. Owner while on daywork contract.







NT CARRIE HEAD HOUSING

- RE STEEL OR PE GATE VALVE HITN HEEDLE
- 1. T PE GATE VALVES S. T. MIKILLUNS
- B ST FEI GATE VALVE B ST FEI GATE LESS TO HANDFOLD

- T PE PRESINE OPERATED CHORS LINE 2 FLORI LAS 8 PELLIP LESS
- L BALL NERVIS

ALTERNATIVE

FIELD PRACTICES ARU STANWATT

RP 53: Blowout Prevention Equipment Systems



FIG. 3.A.1

TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 2M AND 3M RATED WORKING PRESSURE SERVICE - SURFACE INSTALLATION



