Form 3 160-3 (April 2004) UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007 5. Lease Serial No. JICARILLA CONTRACT #97 6. If Indian, Allotee or Tribe Name JICARILLA APACHE TRIBE					
la. Type of work: DRILL REENT	ER			7. If Unit or CA Agr	reement, Name and No.	
1b. Type of Well: ☐Oil Well						
2. Name of Operator PATINA OIL AND GAS				9. API Well No.	-29514	
3a. Address 5802 US HIGHWAY 64 FARMINGTON, NEW MEXICO 87401	1	0. (include area code) 32-8056		10. Field and Pool, or Exploratory Expedite PC/Basin DK/Blancatt/		
					11. Sec., T. R. M. or Blk. and Survey or Area	
At surface 2470' FSL and 660' FWL At proposed prod. zone SAME				L SEC 08 T26N-R3W		
14. Distance in miles and direction from nearest town or post office* 21 MILES SOUTH OF DULCE, NM				12. County or Parish RIO ARRIBA	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of 320+ AC	acres in lease		g Unit dedicated to this	,	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1810'	19. Propose 8200'	d Depth	20. BLM/I	BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6912' GR				23. Estimated duration 16 DAYS	n	
*	24. Atta	chments				
 The following, completed in accordance with the requirements of Onsho 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). 		4. Bond to cover the ltem 20 above). 5. Operator certification.	ne operation ation specific info	ns unless covered by an	existing bond on file (see	
25. Signature Musse	Name	(Printed/Typed) JEAN M. MUSE			Date 03/28/2005	

REGULATORY/ENGINEERING TECHNICIAN

Approved by (Signate Name (Printed/Typed)

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

Title

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Antesia, NM 88211-0719

Jistrict III 1000 Rio Brazos Rd., Aztec, NM 87410

Oistrict IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

OIL CONSERVATION DIVISION PO. Box 2088 - 10 03

State Lease - 4 Copies Fee Lease - 3 Copies

RECEIVED

AMENDED REPORT

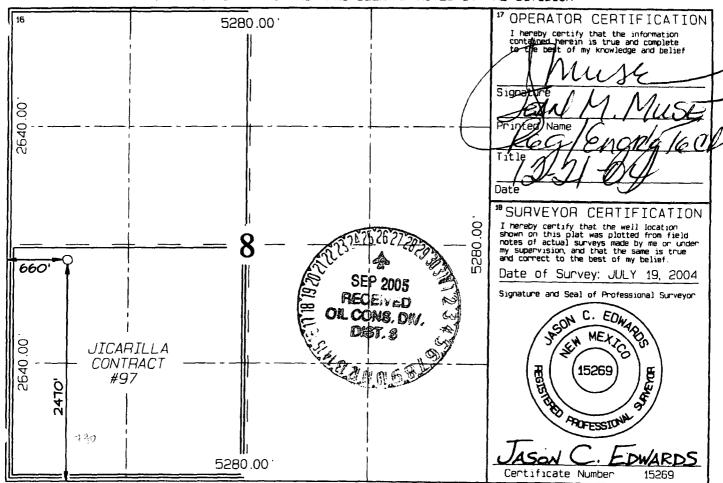
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code *Pool Name		
30-039-29514	85920 72319 71599	BE-BASIN DAKOTA	
*Property Code		*Property Name	Well Number
35155		12	
'OGRID No.		*Operator Name	Elevation
173252	PATINA SAN JUAN, INC.		6912

¹⁰ Surface Location

					Jul Tucc	FOCULTON			
UL or lot no.	Section 8	Township 26N	Range 3W	Lot Idn	Feet from the 2470	North/South line SOUTH	Feet from the	East/West line WEST	County
-			Bottom	Hole L	L	f Different			ARRIBA
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
¹² Oedicated Acres	301111		(SW/4) N/2)	PC DK	²⁹ Joint or Infill	¹⁴ Consolidation Code	⁵⁵ Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

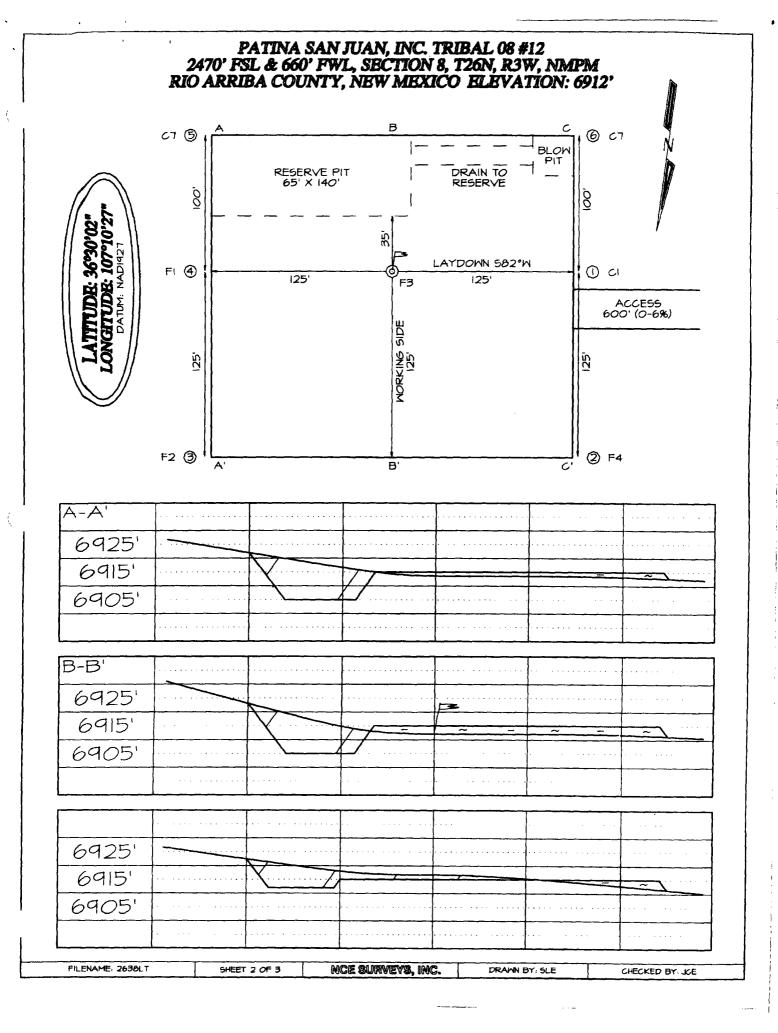
FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 200

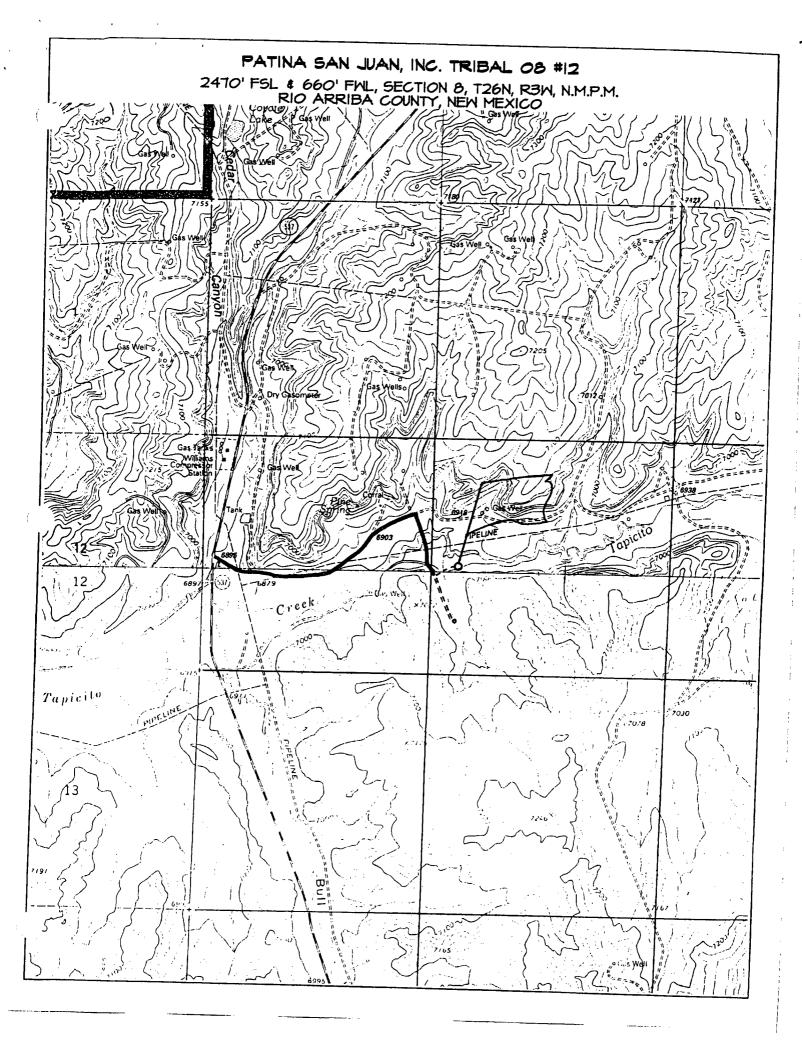
•	BUREAU OF LAND MAN	AGEMENT			 	
SUNDRY NOTICES AND REPORTS ON WELLS					5. Lease Serial No. JICARILLA CONTRACT #97	
Do not use ti		Allottee or Tribe Na	· · · · · · · · · · · · · · · · · · ·			
abandened w	JICARII	LLA APACHE T	RIBE			
	IPLICATE- Other instr	uctions on rever	se side.	7. If Unit or	CA/Agreement, Nar	me and/or No.
1. Type of Well Oil Well	✓ Gas Well Other			8. Well Nam		
2. Name of Operator PATINA S	SAN JUAN, INC.			9. API Wel	L 08 #12	-11
3a Address 5802 US HIGHWAY 64 FAR	MINGTON, NM 87402	3b. Phone No. (include 505-632-8056	area code)	10. Field and	D39 29 Pool, or Explorator	y 5 / 4 y Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)				DAKOTA	•
2470' FSL AND 660' FWL				11. County o	r Parish, State	
L Sec 8 - T26N - R3W					RRIBA CTY, NEV	
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE,	REPORT, OR	OTHER DATA	
TYPE OF SUBMISSION	<u> </u>	TYF	E OF ACTION			
✓ Notice of Intent	Acidize Alter Casing	Deepen	Production (S	Start/Resume)	Water Shut-Off	f
	Casing Repair	Fracture Treat New Construction	Recomplete		Well Integrity Other Withdi	raw PC/MV
Subsequent Report	Change Plans	Plug and Abandon	Temporarily	Abandon		IATIONS
Final Abandonment Notice	Convert to Injection	Plug Back	Water Dispos			
Attach the Bond under which the following completion of the inv	ectionally or recomplete horizontally he work will be performed or provio volved operations. If the operation is nal Abandonment Notices shall be f	y, give subsurface location le the Bond No. on file we esults in a multiple complete.	ns and measured and rith BLM/BIA. Requiletion or recompletion	true vertical depths ired subsequent re n in a new interval,	s of all pertinent mar ports shall be filed w , a Form 3160-4 shal	kers and zones. vithin 30 days Il be filed once
	EQUESTS THAT THAT THE					DS/POOLS
BE DROPPED FROM TE	HE APPROVED PERMIT TO	DRILL, PER INSTRU	CTIONS OF ADI	RIENNE BRUM	ILEY.	
		25.26	2730	-m -m	l	
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		OIL CON DIST	a de			
14. I hereby certify that the fore	going is true and correct	TO COLL			***************************************	
Name (Printed/Typed) JEAN 119	1 Muse	Title RE	EGULATORY/EN	GINEERING T	ECHNICIAN	
Signature		09/21/2005				
/ / .	THIS SPACE FOR F	EDERAL OR ST	TATE OFFICE	USE	,	
	1/14					

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. 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.

Title

Office





Tribal 08 No. 12 General Drilling Plan Patina San Juan, Inc. Rio Arriba County, New Mexico

1. LOCATION:

NWSE of Section 08, T26N, R3W San Juan, New Mexico

Field: Blanco MV & Basin DK

Surface: Jicarilla

Minerals: Jicarilla Contract #97

2. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS (TVD):

Surface formation - Nacimiento

<u>Formation</u>	Estimated Formation Top (Ft)
Ojo Alamo	1500
Fruitland	2170
Pictured Cliffs**	3320
Cliff House**	5360
Menefee**	5470
Point Lookout**	5740
Gallup	7310
Greenhorn	7708
Graneros	7774
Dakota***	7912
TD	8200

Legend:

- * Freshwater bearing formation
- ** Possible hydrocarbon bearing formation

 *** Probable hydrocarbon bearing formation
- # Possible H2S bearing formation

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.



3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to the lesser of its rated working pressure, 70-percent of the internal yield of the surface casing or 1,000 psi. See attachments for BOP and choke manifold diagrams.

Production Hole BOP Requirements and Test Plan

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11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
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Test as follows:

a) Pipe rams: 1,000 psi (High) 250 psi (low)

b) Choke manifold and lines: 1,000 psi (High) 250 psi (low)

All ram type preventers and related equipment will be hydraulically tested at nipple-up. They will also be retested in either of the following events:

- A pressure seal is broken.
- 30 days have elapsed since the last successful test of the equipment.

Furthermore, BOP's will be checked daily as to mechanical operating condition. All ram type preventers will have hand wheels, which will be operative and accessible at the time the preventers are installed. See attached Exhibit for details on the BOP equipment.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock (upper and lower)
- b) Full opening manually operated safety valves in the full open position, capable of fitting all drill stem connections.

4. CASING DESIGN:

Casing Program:

Hole Size Depth Casing Size 12 1/4" 250' 9 5/8"

8 ¾" 4100' 7" 6 ¼" 8200' / through Dakota 4 1/2"

Wt. Casing Casing Top **Bottom** (lb./f (MD) (MD) **Thread** Condition Size Type t) Grade 9-5/8" 0' Surface 250' STC 36.0 J55 New 7" 0' N80 Intermediate 4100' +/-23.0 LTC New 4 1/2" **Production** 3900' 8200' N80 LTC 11.6 New

Casing Data			Collapse	Burst	Min. Tensile	
OD	Wt/Ft	Grade	Thread	(psi)	(psi)	(Lbs.)
9-5/8"	36.0 lbs.	J55	STC	2,020	3,520	394,000
7"	23.0 lbs.	N80	LTC	3,830	6,340	442,000
4 1/2"	11.6 lbs.	N80	LTC	6,350	7,780	223,000

MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00 TENSION: 1.80

Area Fracture Gradient Range: 0.7 – 0.8 psi/foot

Maximum anticipated reservoir pressure: 2,500 psi Maximum anticipated mud weight: 9.0 ppg

Maximum surface treating pressure: 3,500 - 3,750 psi

3 W

Float Equipment:

Surface Casing: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

<u>Intermediate Casing:</u> Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Pictured Cliffs formation. One centralizer below stage tool and one centralizer above stage tool.

<u>Production Casing:</u> 4 1/2" whirler type cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

165 sxs Type III cement with 2% CaCl₂, ½#/sx cellofakes. 100% excess to circulate cement to surface. WOC 12 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.2 ppg Slurry yield: 1.27 ft³/sack

Volume basis:

 40' of 9-5/8" shoe joint
 17 cu ft

 300' of 12-1/4" x 9-5/8" annulus
 94 cu ft

 100% excess (annulus)
 94 cu ft

 Total
 205 cu ft

Note:

- 1. Design top of cement is the surface.
- 2. Have available 100 sx Type III cement with 2% CaCL₂ for top out purposes.

7" Intermediate Casing:

1st Stage: 100 sacks of Type III cement

Slurry weight: 14.5 ppg Slurry yield: 1.4 ft³/sack

2nd Stage: (Stage tool at 3500' +/-): 365 sacks of Premium Lite FM

Slurry weight: 12.4 ppg Slurry yield: 1.92 ft³/sack

Volume Basis:	40' of 7" shoe joint	9 cu ft
	3800' of 7" x 8 3/4" annulus	586 cu ft
	300' of 7" x 9 5/8" hole	50 cu ft
	30% excess (annulus)	176 cu ft
	Total	821 cu ft

Note:

- 1. Design top of cement is surface.
- 2. Actual cement volumes to be based on caliper log plus 30%.

4 1/2" Production casing:

Stage 1: 220 sacks of Premium Lite High Strength FM out guide shoe.

Slurry weight: 12.3 ppg Slurry yield: 2.13 ft³/sack

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft
	4 1/2 " x 6 1/4" hole	318 cu ft
	4 ½" x 7" casing	33 cu ft
	30% excess (annulus)	107 cu ft
	Total	463 cu ft

Note:

- 1. Design top of cement is 3800 +/- ft. or 300 ft. into 7" intermediate casing.
- 2. Actual cement volumes to be based on caliper log plus 30%.

5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 300 feet as necessary to keep hole clean.

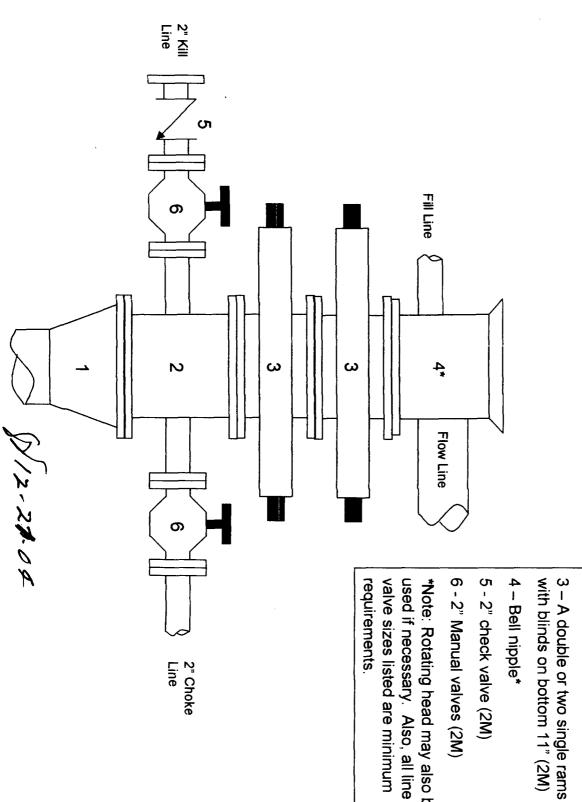
The intermediate hole will be drilled with water until mud up at about 3000 ft. From 3000' to 4100', intermediate casing depth, will be drilled with LSND mud. Anticipated mud weight ranges from 8.5-9.0 ppg. Mud weight will be increased as required to maintain hole stability and control gas influx.

The production hole will be drilled with air or air/mist.

Sufficient mud materials to maintain stable wellbore conditions (for either well control or lost circulation scenarios) will be maintained at the well site.

No chrome-based additives will be used in the mud system.

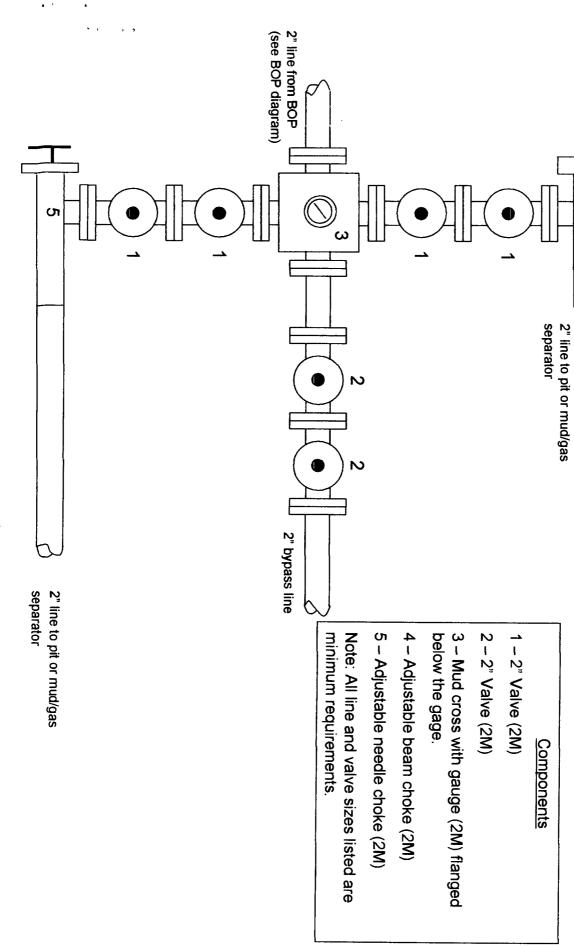
Tribal 08 No. 12 2000 psi BOP stack Minimum requirements



Components

- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)

*Note: Rotating head may also be used if necessary. Also, all line and valve sizes listed are minimum



Tribal 08 No. 12

2000 psi Choke Manifold Minimum requirements

40-12-21 W