

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. JICARILLA CONTRACT #97
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name JICARILLA APACHE TRIBE
2. Name of Operator PATINA OIL AND GAS		7. If Unit or CA Agreement, Name and No.
3a. Address 5802 US HIGHWAY 64 FARMINGTON, NEW MEXICO 87401		8. Lease Name and Well No. TRIBAL 05 #09
3b. Phone No. (include area code) 505-632-8056		9. API Well No. 30-039-29515
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1970' FSL and 660' FEL At proposed prod. zone SAME		10. Field and Pool, or Exploratory Tapacito PC/Basin DK/Blanco MV
14. Distance in miles and direction from nearest town or post office* 21 MILES SOUTH OF DULCE, NM		11. Sec., T. R. M. or Blk. and Survey or Area 1 SEC 05 T26N-R3W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 320+ ACRES	17. Spacing Unit dedicated to this well SE/4 160 acres PC; E/2 320 acres MV, DK
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8400'	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7104' GR	22. Approximate date work will start* 07/01/2005	23. Estimated duration 16 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>[Signature]</i>	Name (Printed/Typed) JEAN M. MUSE	Date 03/28/2005
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Title
REGULATORY/ENGINEERING TECHNICIAN

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) PF	Date 10/26/05
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Title
PF

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)

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

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

KMOCD



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2005 MAR 30 09 10
RECEIVED
OIL CONSERVATION DIV.

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

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

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29515	*Pool Code 85920-72319-71599	*Pool Name TAPACITO PICTURED CLIFFS-BLANCO MESAVERDE-BASIN DAKOTA
*Property Code 34947	*Property Name TRIBAL 05	*Well Number 09
*OGRID No. 173252	*Operator Name PATINA SAN JUAN, INC.	*Elevation 7104'

¹⁰ Surface Location

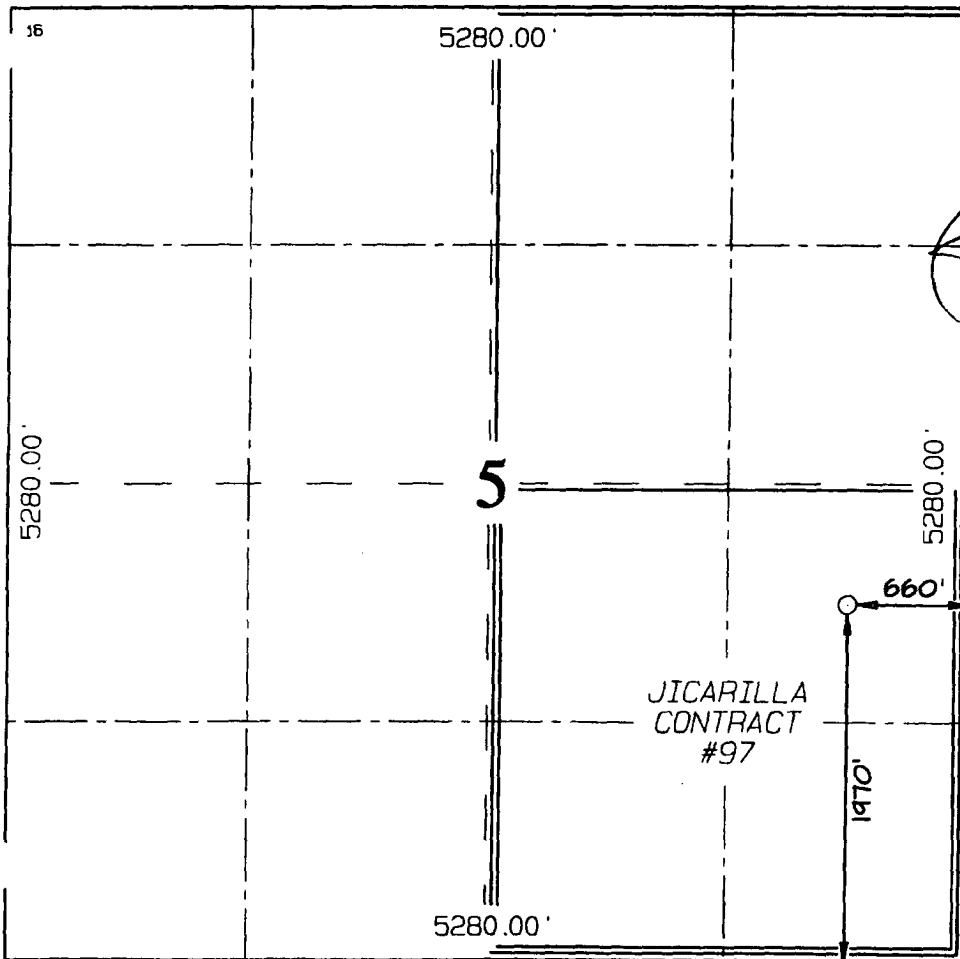
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	5	26N	3W		1970	SOUTH	660	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 160.0 Acres (SE/4) - PC 320.0 Acres (E/2) - MV, DK	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

J. Muse
Signature

JOHN M. MUSE
Printed Name

Reg/Engineering Tech
Title

12-24-04
Date

¹⁸ 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 belief.

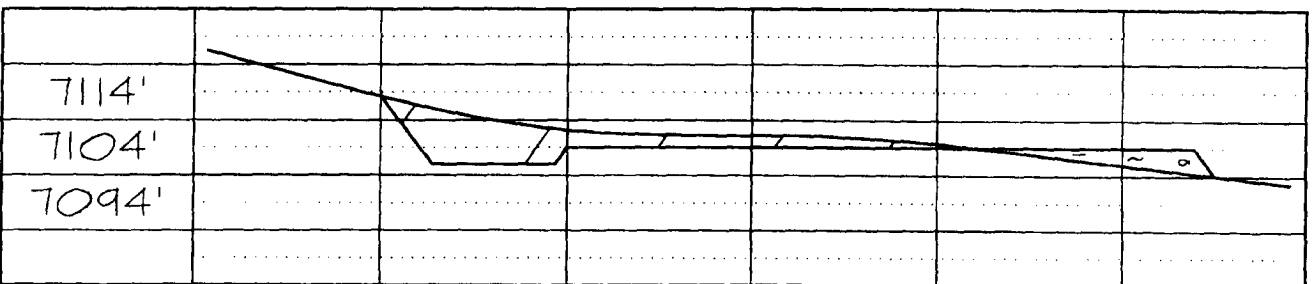
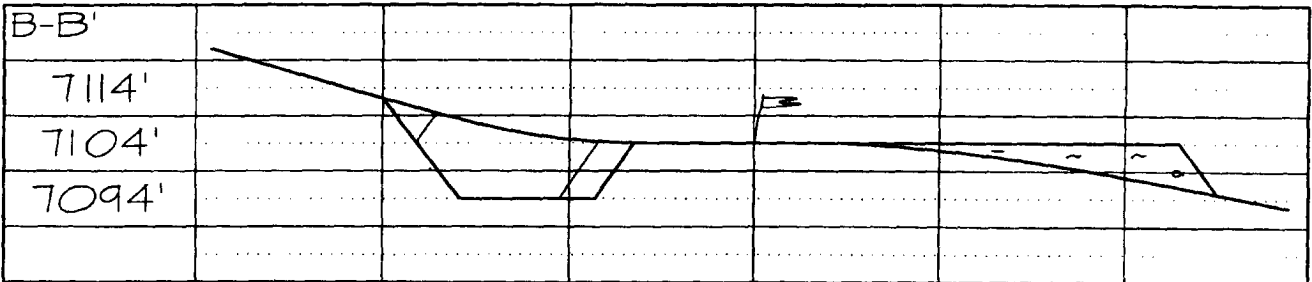
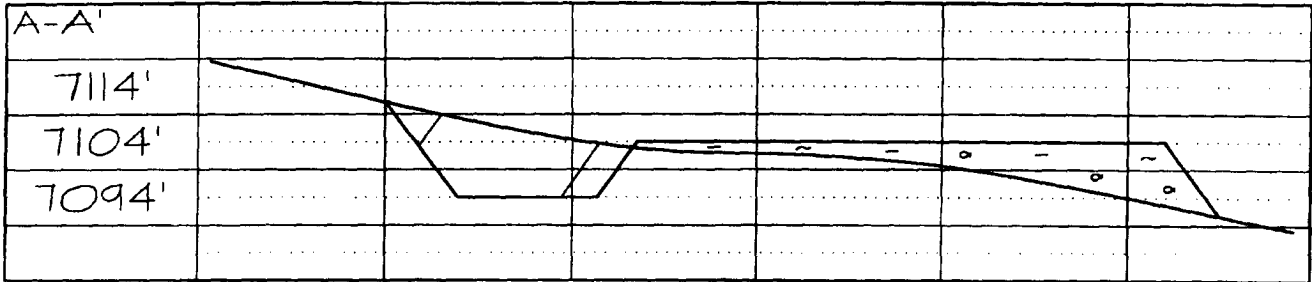
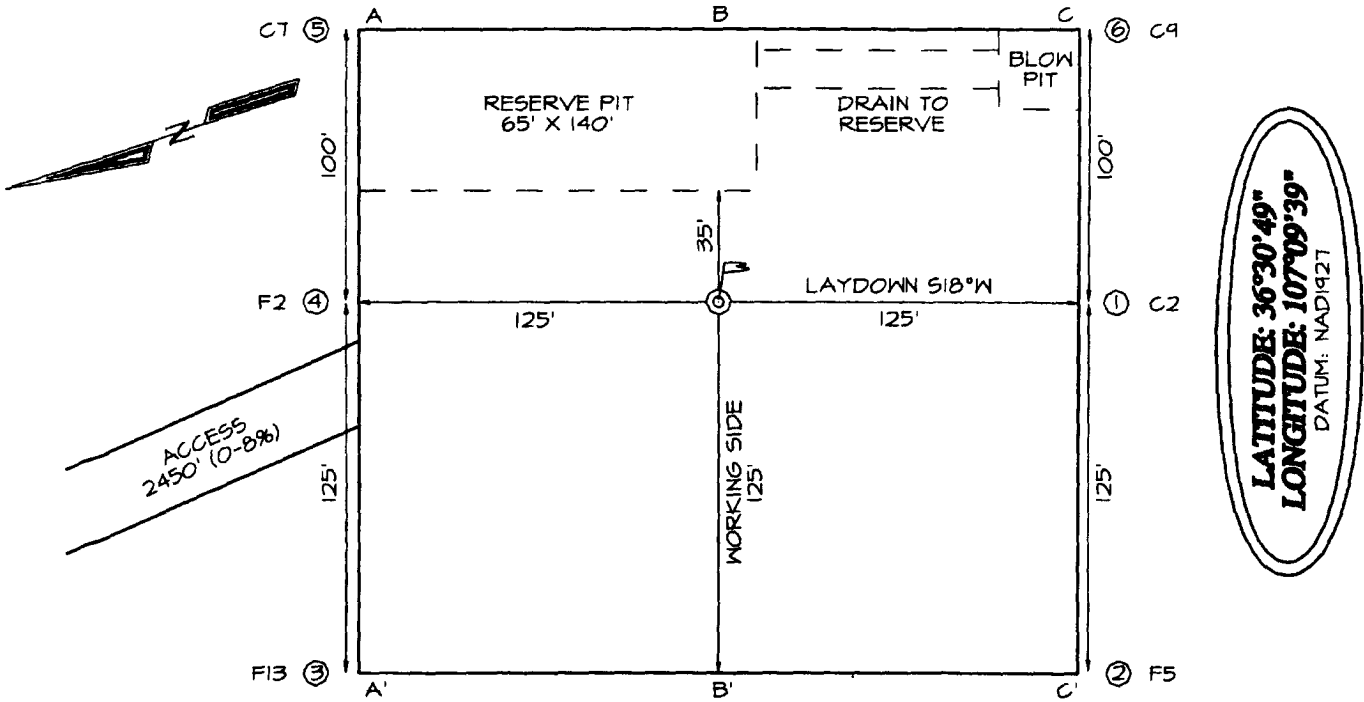
Date of Survey: AUGUST 10, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

PATINA SAN JUAN, INC. TRIBAL 05 #09
1970' FSL & 660' FEL, SECTION 5, T26N, R3W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 7104'



Tribal 05 No. 09
General Drilling Plan
Patina San Juan, Inc.
Rio Arriba County, New Mexico

1. LOCATION:

NESE of Section 05, 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>	<u>Estimated Formation Top (Ft)</u>
Ojo Alamo	1700
Fruitland	2370
Pictured Cliffs**	3520
Cliff House**	5560
Menefee**	5670
Point Lookout**	5940
Gallup	7510
Greenhorn	7908
Graneros	7974
Dakota ***	8112
TD	8400

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.

1 

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

11" – 2,000 psi single ram (blind)

11" – 2,000 psi single ram (pipe)

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 3/4"	4300'	7"
6 1/4"	8400' / through Dakota	4 1/2"

Casing Size	Casing Type	Top (MD)	Bottom (MD)	Wt. (lb./ft)	Grade	Thread	Condition
9-5/8"	Surface	0'	250'	36.0	J55	STC	New
7"	Intermediate	0'	4300' +/-	23.0	N80	LTC	New
4 1/2"	Production	3900'	8400'	11.6	N80	LTC	New

OD	Casing Data			Collapse (psi)	Burst (psi)	Min. Tensile (Lbs.)
	Wt/Ft	Grade	Thread			
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

Float Equipment:

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

Intermediate Casing: 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.

Production Casing: 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, 1/4#/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
	<u>100% excess (annulus)</u>	<u>94 cu ft</u>
	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

4/8

Volume Basis:	40' of 7" shoe joint	9 cu ft
	4000' of 7" x 8 3/4" annulus	586 cu ft
	300' of 7" x 9 5/8" hole	50 cu ft
	<u>30% excess (annulus)</u>	<u>176 cu ft</u>
	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 1/2" x 7" casing	33 cu ft
	<u>30% excess (annulus)</u>	<u>107 cu ft</u>
	Total	463 cu ft

Note:

1. Design top of cement is 4000 +/- 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 4300', 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.

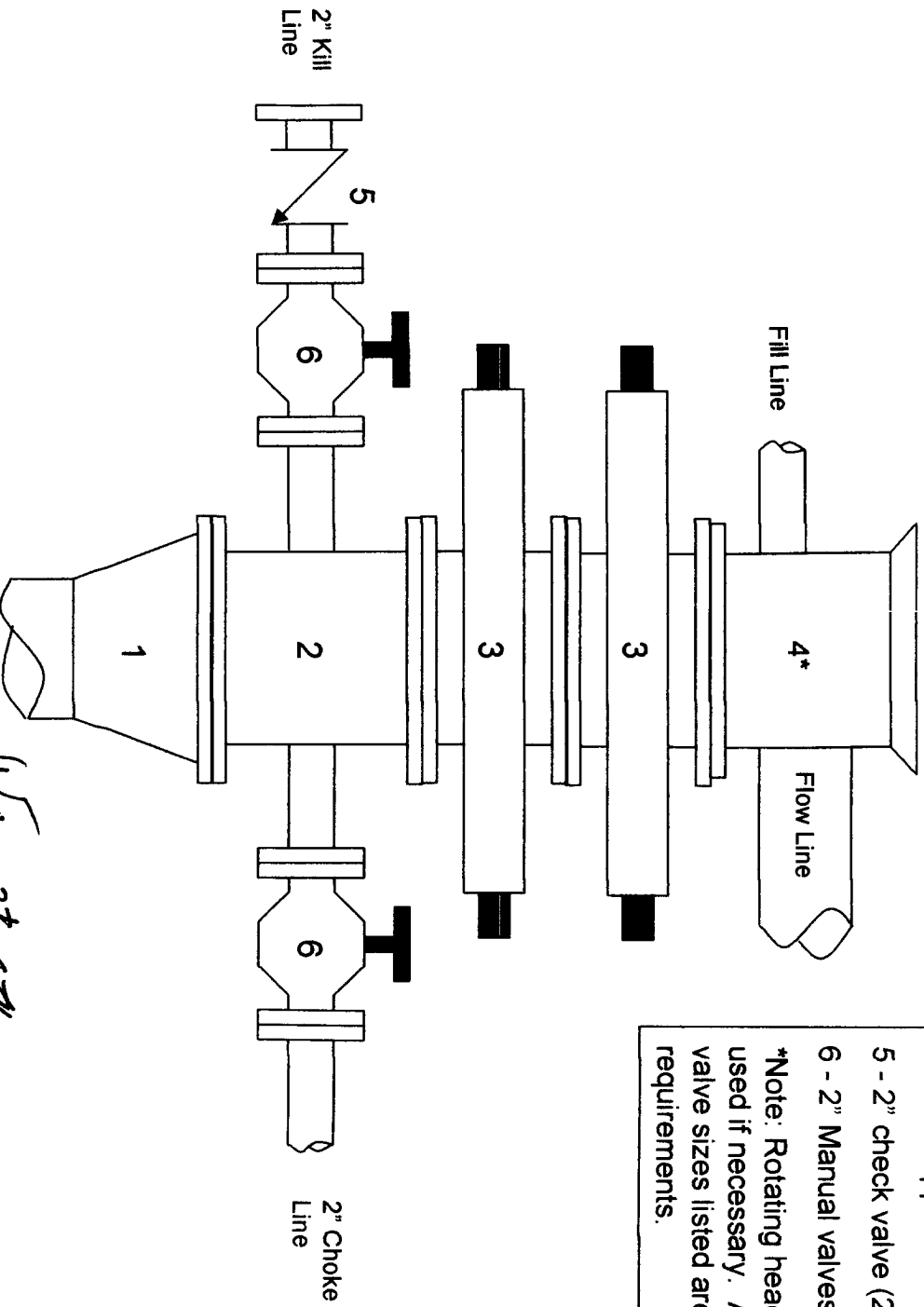
The production hole will be drilled with air or air/mist.

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.

5 

Tribal 05 No. 09
 2000 psi BOP stack
 Minimum requirements



- Components
- 1 - Wellhead 9-5/8" (2M)
 - 2 - Drilling spool 1 1" (2M)
 - 3 - A double or two single rams with blinds on bottom 1 1" (2M)
 - 4 - Bell nipple*
 - 5 - 2" check valve (2M)
 - 6 - 2" Manual valves (2M)
- *Note: Rotating head may also be used if necessary. Also, all line and valve sizes listed are minimum requirements.

W/12-27-07

Tribal 05 No. 09

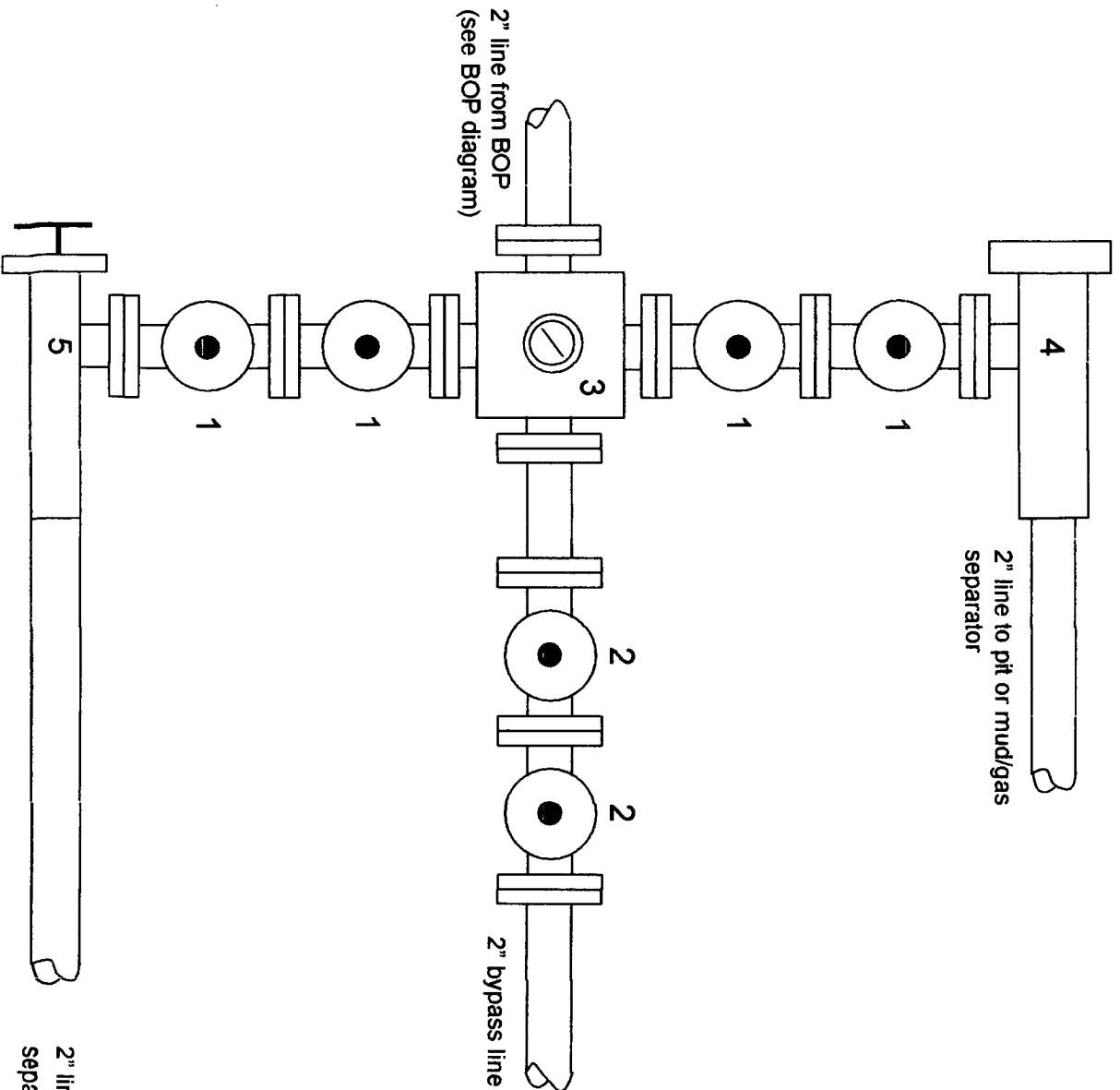
2000 psi Choke Manifold

Minimum requirements

Components

- 1 - 2" Valve (2M)
- 2 - 2" Valve (2M)
- 3 - Mud cross with gauge (2M) flanged below the gage.
- 4 - Adjustable beam choke (2M)
- 5 - Adjustable needle choke (2M)

Note: All line and valve sizes listed are minimum requirements.



2" line to pit or mud/gas separator

8/12-21-04