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RCVD DEC 10 '07
OIL CONS. DIV.

DIST. 3

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office


APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-112955
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 N/A
2. Name of Operator ROSETTA RESOURCES OPERATING LP		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202		8. Lease Name and Well No. TSAH TAH 12 #4
3b. Phone No. (include area code) (720) 359-9144		9. API Well No. 30-045- 34508
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 2476' FSL & 1903' FEL At proposed prod. zone SAME		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS
14. Distance in miles and direction from nearest town or post office* 7 AIR MILES NW OF NAGEEZI, NM		11. Sec., T. R. M. or Blk. and Survey or Area J 12-24N-10W NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,903'	16. No. of acres in lease 1,761.69	17. Spacing Unit dedicated to this well E2 (320 acres)
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,496' (12 #3)	19. Proposed Depth 1,900'	20. BLM/BIA Bond No. on file BLM STATE WIDE NMB000371
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,889' GL	22. Approximate date work will start* 12/01/2007	23. Estimated duration 2 WEEKS

24. Attachments

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 11/06/2007
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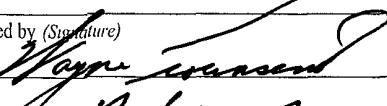
Title
CONSULTANT

PHONE: (505) 466-8120

FAX: (505) 466-9682


Approved by (Signature)

Title


Acting AFM

Name (Printed/Typed)

Office


Wayne Townsend
FFO

Date

12-6-07

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)

NOTIFY AZTEC OCD BY HRS
PRIOR TO CASING & CEMENT
THIS ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDSDRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
GENERAL REQUIREMENTS.

NMOC

DEC 13 2007

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

RECEIVED

District I
1625 N French Dr, Hobbs NM 88240
District II
1301 W Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St. Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr. **Bureau of Land Management**
Santa Fe, NM 87505 **Farmington Field Office**

Form C-102

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

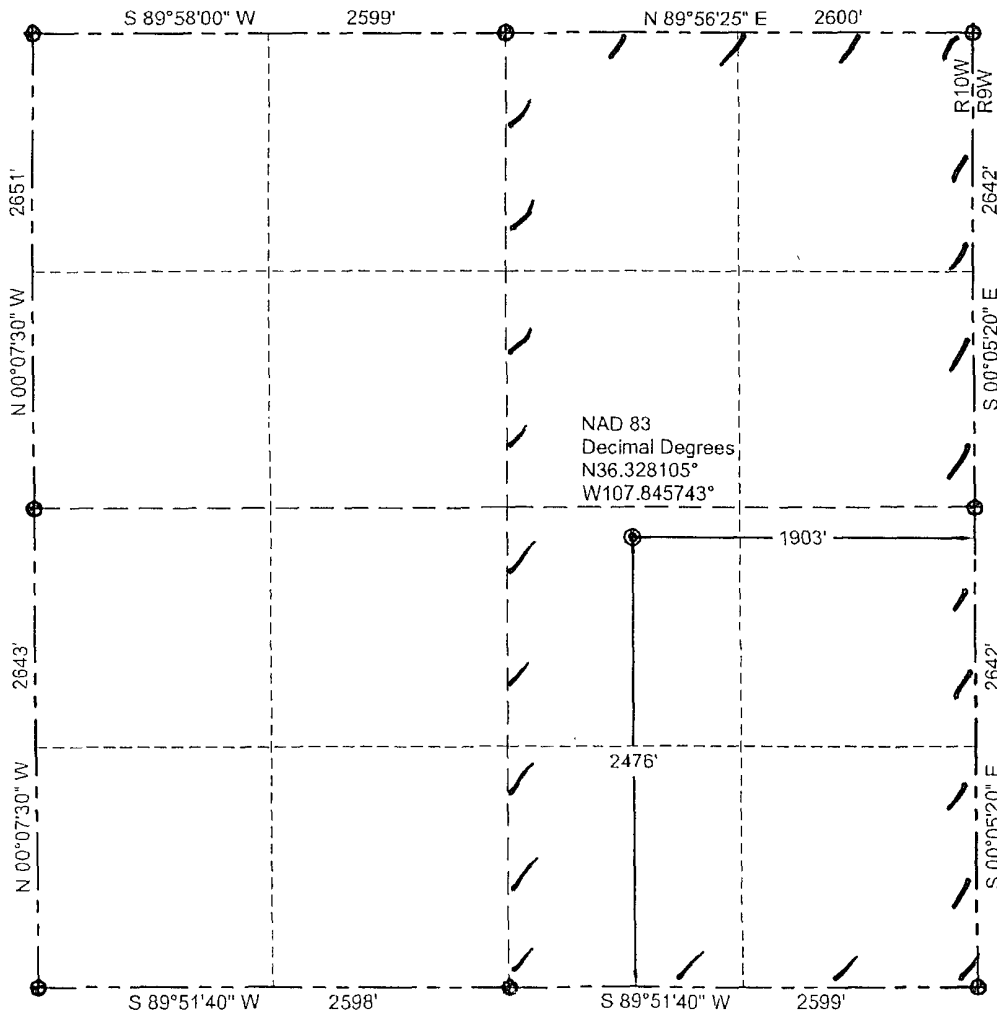
☐ AMENDED REPORT
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-34508	Pool Code 71629	Pool Name BASIN FRUITLAND COAL GAS
Property Code 36672	Property Name TSAH TAH 12	Well Number 4
OGRID No. 239235	Operator Name ROSETTA RESOURCES OPERATING L.P.	Elevation 6889'

Surface Location									
UL or lot no. J	Section 12	Township 24 N.	Range 10 W.	Lot Idn	Feet from the 2476'	North/South line SOUTH	Feet from the 1903'	East/West line EAST	County SAN JUAN

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
Dedicated Acres 320 E2		Joint of Infill		Consolidation Code		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.



OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pool agreement or a compulsory pooling order heretofore entered by the division.	
Signature, B Wood	Date 11-6-07
Printed Name BRIAN WOOD	
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 11/22/06	
Signature and Seal of Professional Surveyor GERALD C. HUDDLESTON 6844 REGISTERED LAND SURVEYOR	
Certificate Number	

Submit 3 Copies To Appropriate District Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-045- 34508
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator ROSETTA RESOURCES OPERATING LP		6. State Oil & Gas Lease No. NMNM-112955
3. Address of Operator 1200 17 th ST., SUITE 770, DENVER, CO 80202		7. Lease Name or Unit Agreement Name TSAH TAH 12
4. Well Location Unit Letter: J 2476' FSL & 1903' FEL Section 12 Township 24 N Range 10 W NMPM SAN JUAN County		8. Well Number #4
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,889' GL		9. OGRID Number 239235
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat BASIN FRUITLAND COAL GAS
Pit type: <u>DRILLING</u> Depth to Groundwater: <u>>500'</u> Distance from nearest fresh water well: <u>>2,000'</u> Distance from nearest surface water: <u>>300'</u> Pit Liner Thickness: <u>12 mil</u> Below-Grade Tank: Volume <u> </u> bbls Construction Material: <u>SYNTHETIC</u>		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: DRILLING PIT <input checked="" type="checkbox"/>		OTHER <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Brian Wood TITLE: CONSULTANT

DATE: NOVEMBER 6, 2007

Type or print name: BRIAN WOOD

E-mail address: brian@permitswest.com

Telephone No.: (505) 466-8120

For State Use Only

APPROVED BY: [Signature] TITLE

Deputy Oil & Gas Inspector,
District #3

DATE **DEC 13 2007**

Conditions of Approval (if any):

Rosetta Resources Operating LP
Tsah Tah 12 #4
2476' FSL & 1903' FEL
Sec. 12, T. 24 N., R. 10 W.
San Juan County, New Mexico

PAGE 1

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,889'
Fruitland	1,504'	1,509'	+5,385'
Pictured Cliffs	1,769'	1,774'	+5,120'
Lewis Shale	1,844'	1,849'	+5,045'
Total Depth (TD)	1,900'	1,905'	+4,989'

2. NOTABLE ZONES

<u>Oil & Gas Zones</u>	<u>Water Zone</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs		

Water zones will be protected with casing, cement, and fresh water weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) BOP and choke manifold system will be installed and tested to 500 psi before drilling surface casing plug. It will remain in use until the well is completed or abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

Rosetta Resources Operating LP
Tsah Tah 12 #4
2476' FSL & 1903' FEL
Sec. 12, T. 24 N., R. 10 W.
San Juan County, New Mexico

PAGE 2

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to check mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
8-3/4"	7"	23#	J-55	S T & C	New	120'
6-1/4"	4-1/2"	10.5#	J-55	L S S T & C	New	1,900'

Surface casing will be cemented to the surface with ≈ 35 cubic feet (≈ 30 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Will use API casing dope.

Production casing will be cemented to the surface with ≈ 354 cubic feet (≈ 300 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Five or more centralizers will be used. Volume = 75% excess.

5. MUD PROGRAM

A nine pound polymer and fresh water mud system with a viscosity of ≈ 35 will be used. Sufficient material to maintain mud qualities, control lost circulation, and contain a blowout will be available at the well while drilling.

Rosetta Resources Operating LP
Tsah Tah 12 #4
2476' FSL & 1903' FEL
Sec. 12, T. 24 N., R. 10 W.
San Juan County, New Mexico

PAGE 4

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR log may be run from TD to surface. CNL/FSC log may be run over certain intervals.

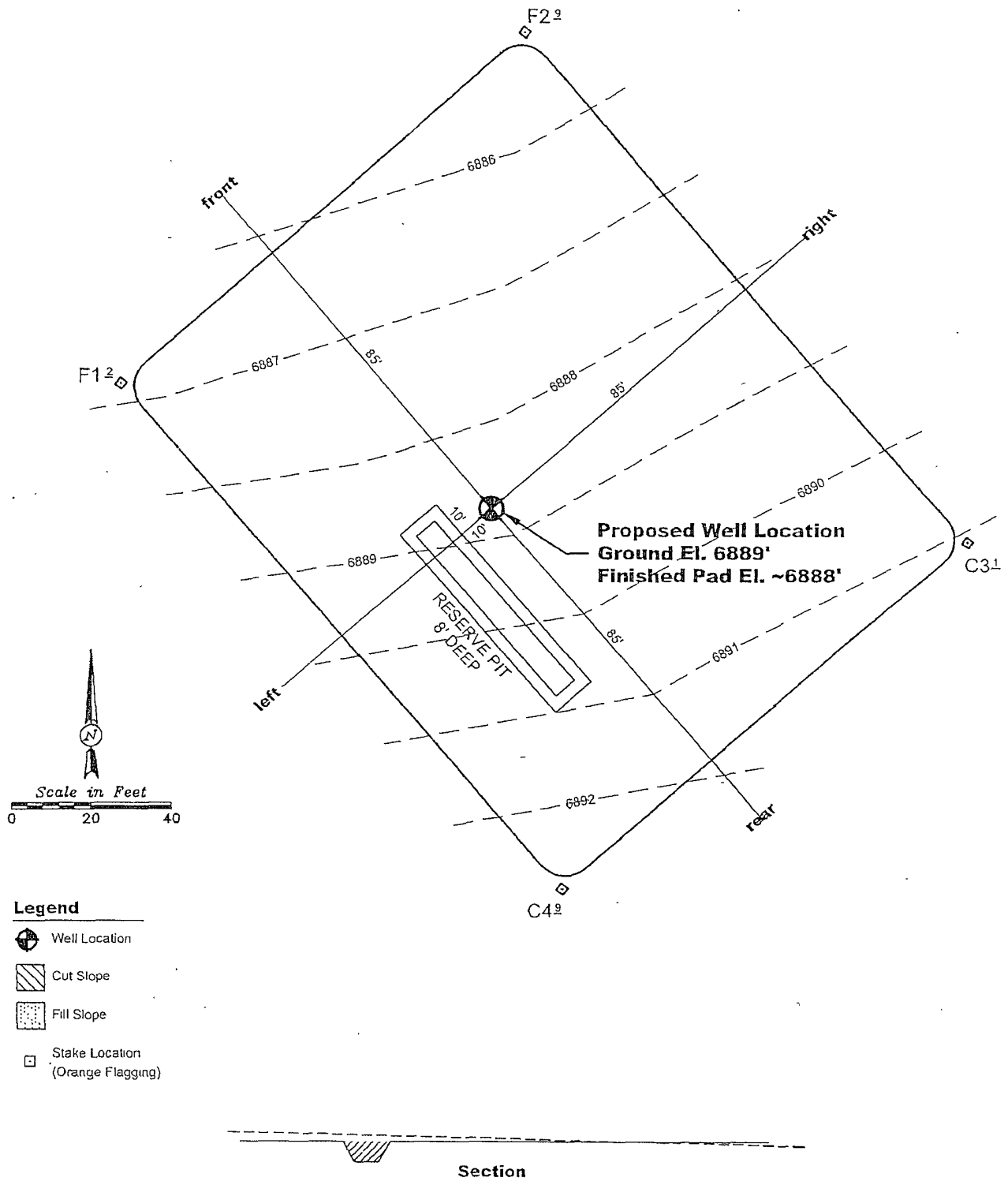
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 760 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈ 2 weeks to drill and complete the well.

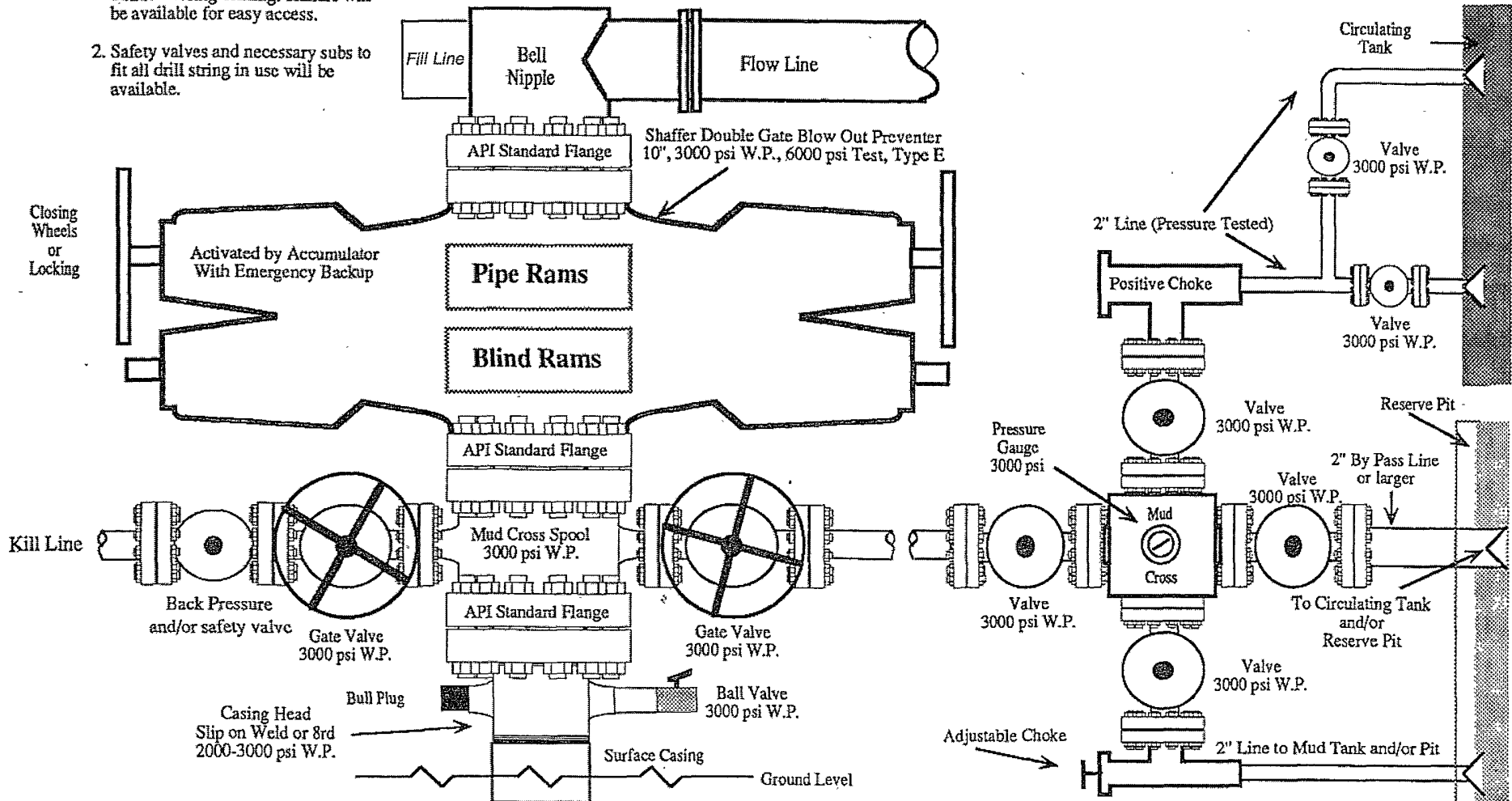
Tsah Tah 12 #4 **well pad and section**



2,000 PSI BOP SYSTEM

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.