

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

2007 JUL 18 NMNM-112955

RECEIVED

|  |  |  |
|--|--|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  | 5. Lease Serial No.<br>18 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<br>N/A                        |
| 2. Name of Operator<br>ROSETTA RESOURCES OPERATING LP  |  | 7. If Unit or CA Agreement, Name and No.<br>N/A                    |
| 3a. Address 1200 17th ST., SUITE 770<br>DENVER, CO 80202   | 3b. Phone No. (include area code)<br>(720) 359-9144              | 8. Lease Name and Well No.<br>TSAH TAH 12 #3                       |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface 2070' FSL & 1937' FWL<br>At proposed prod. zone SAME   |  | 9. API Well No.<br>30-045- 34369                                   |
| 14. Distance in miles and direction from nearest town or post office*<br>27 AIR MILES S OF BLOOMFIELD, NM  |  | 10. Field and Pool, or Exploratory<br>BASIN FRUITLAND COAL GAS     |
| 15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 1,937'  |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br>K 12-24N-10W NMPM |
| 16. No. of acres in lease<br>1,761.69  | 17. Spacing Unit dedicated to this well<br>W2 320                | 12. County or Parish<br>SAN JUAN                                   |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,054' (12 #2)  | 19. Proposed Depth<br>1,950'                                     | 13. State<br>NM  |
| 20. BLM/BIA Bond No. on file<br>BLM STATE WIDE NMB000371   | 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>6,885' GL | 22. Approximate date work will start*<br>08/20/2007                |
| 23. Estimated duration<br>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:

- 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>Brian Wood</i> | Name (Printed/Typed)<br>BRIAN WOOD | Date<br>07/14/2007 |
|---------------------------------|------------------------------------|--------------------|

Title CONSULTANT PHONE: (505) 466-8120 FAX: (505) 466-9682

|  |                      |                 |
|--|----------------------|-----------------|
| Approved by (Signature) <i>[Signature]</i> | Name (Printed/Typed) | Date<br>8/17/07 |
|--|----------------------|-----------------|

|           |            |                                   |
|-----------|------------|-----------------------------------|
| Title AFM | Office FFO | RCVD AUG 21 '07<br>OIL CONG. DIV. |
|-----------|------------|-----------------------------------|

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.

DIST. 3

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 24 HRS.  
PRIOR TO CASING & CEMENT

NMOCD

8-31-07

State of New Mexico  
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

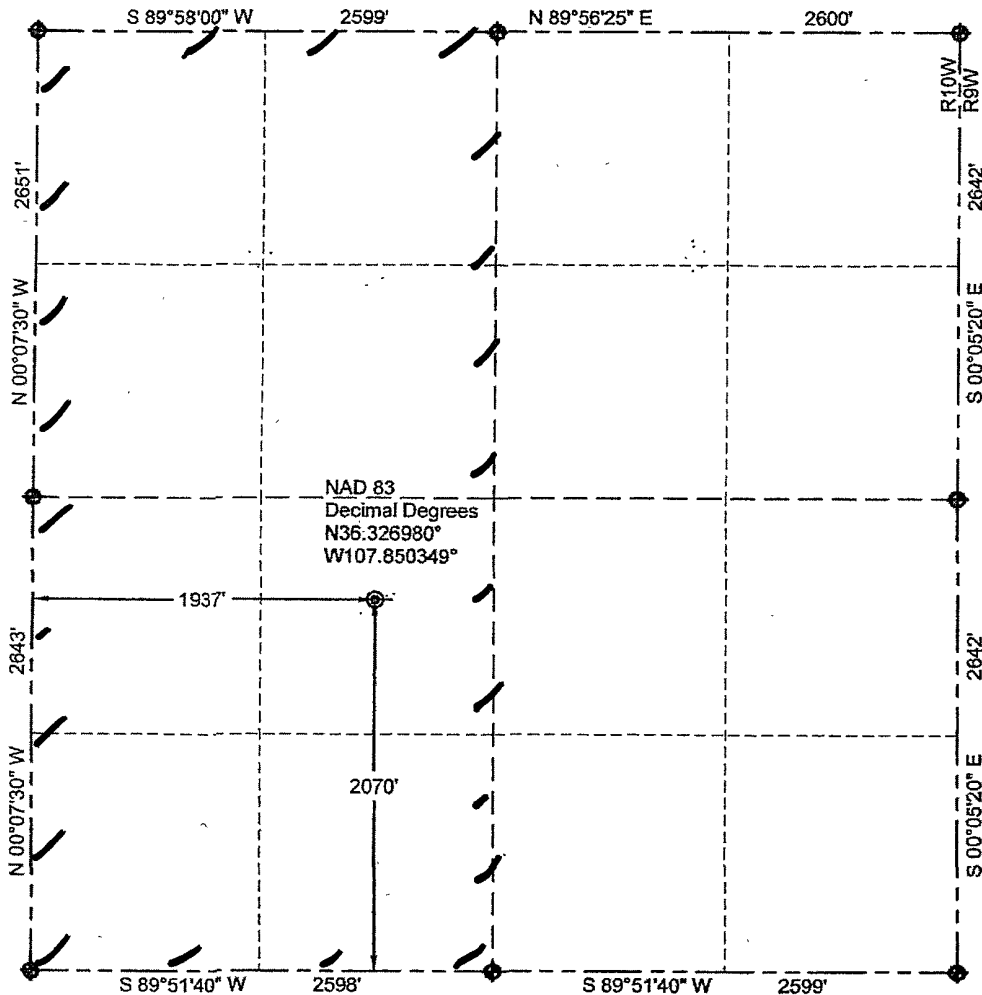
WELL LOCATION AND ACREAGE DEDICATION PLAT

2007 JUL 13 REPORT  
RECEIVED  
210 PM  
AMENDED REPORT  
11:08  
SANTA FE, NM

|                                   |  |  |
|-----------------------------------|--|--|
| APA Number<br><b>30-045-34369</b> | Pool Code<br><b>71629</b>                                | Pool Name<br><b>BASIN FRUITLAND COAL GAS</b> |
| Property Code<br><b>36672</b>     | Property Name<br><b>TSAH TAH 12</b>                      | Well Number<br><b>.3</b>                     |
| OGRID No.<br><b>239235</b>        | Operator Name<br><b>ROSETTA RESOURCES OPERATING L.P.</b> | Elevation<br><b>6885'</b>                    |

| Surface Location                               |                   |                      |                      |          |                           |                             |                           |                          |                           |
|--|-------------------|----------------------|----------------------|----------|---------------------------|-----------------------------|---------------------------|--------------------------|---------------------------|
| UL or Lot<br><b>K</b>                          | Sec.<br><b>12</b> | Twp.<br><b>24 N.</b> | Rge.<br><b>10 W.</b> | Lot Idn. | Feet from<br><b>2070'</b> | North/South<br><b>SOUTH</b> | Feet from<br><b>1937'</b> | East/West<br><b>WEST</b> | County<br><b>SAN JUAN</b> |
| Bottom Hole Location If Different From Surface |                   |                      |                      |          |                           |                             |                           |                          |                           |
| UL or Lot                                      | Sec.              | Twp.                 | Rge.                 | Lot Idn. | Feet from                 | North/South                 | Feet from                 | East/West                | County                    |
| Dedication<br><b>320</b>                       | Joint ?           | Consolidation        | Order No.            |          |                           |                             |                           |                          |                           |

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



|   |                      |
|---|----------------------|
| <b>OPERATOR CERTIFICATION</b>   |                      |
| I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   |                      |
| Signature   | <i>[Signature]</i>   |
| Printed Name  | <b>BRIAN WOOD</b>    |
| Title   | <b>CONSULTANT</b>    |
| Date  | <b>JULY 14, 2007</b> |
| <b>SURVEYOR CERTIFICATION</b>   |                      |
| I hereby certify that the well location 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  | <b>10/27/06</b>      |
| Signature and Seal of Professional Surveyor   |                      |
|   |                      |

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<br>(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.<br>30-045-  |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>   |  | 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator<br>ROSETTA RESOURCES OPERATING LP  |  | 6. State Oil & Gas Lease No.<br>NMNM-112955  |
| 3. Address of Operator<br>1200 17 <sup>th</sup> ST., SUITE 770, DENVER, CO 80202   |  | 7. Lease Name or Unit Agreement Name<br>TSAH TAH 12                                      |
| 4. Well Location<br>Unit Letter: K 2070' FSL & 1937' FWL<br>Section 12 Township 24 N Range 10 W NMPM SAN JUAN County   |  | 8. Well Number #3  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>6,885' GL  |  | 9. OGRID Number 239235   |
| Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>  |  |  |
| Pit type: <u>DRILLING</u> Depth to Groundwater: <u>&gt;400'</u> Distance from nearest fresh water well: <u>&gt;1,000'</u> Distance from nearest surface water: <u>&gt;500'</u>                         |  |  |
| Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Construction Material   |  |  |

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: JULY 14, 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

Conditions of Approval (if any):

DATE AUG 31 2007

Rosetta Resources Operating LP  
Tsah Tah 12 #3  
2070' FSL & 1937' FWL  
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'              | +6,885'          |
| Fruitland Coal   | 1,760'          | 1,765'          | +5,125'          |
| Pictured Cliffs  | 1,790'          | 1,795'          | +5,095'          |
| Lewis Shale      | 1,910'          | 1,915'          | +4,975'          |
| Total Depth (TD) | 1,950'          | 1,955'          | +4,935'          |

### 2. NOTABLE ZONES

| <u>Oil &amp; 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 #3  
2070' FSL & 1937' FWL  
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        | 1,950'           |

Surface casing will be cemented to the surface with  $\approx 35$  cubic feet ( $\approx 30$  sacks) Class B with 1/4 pound per sack cellophane + 2%  $\text{CaCl}_2$ . 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  $\approx 360$  cubic feet ( $\approx 305$  sacks) Class B with 1/4 pound per sack cellophane + 2%  $\text{CaCl}_2$ . 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  $\approx 35$  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 #3  
2070' FSL & 1937' FWL  
Sec. 12, T. 24 N., R. 10 W.  
San Juan County, New Mexico

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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.

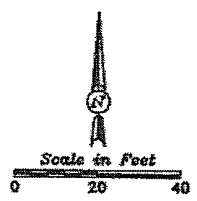
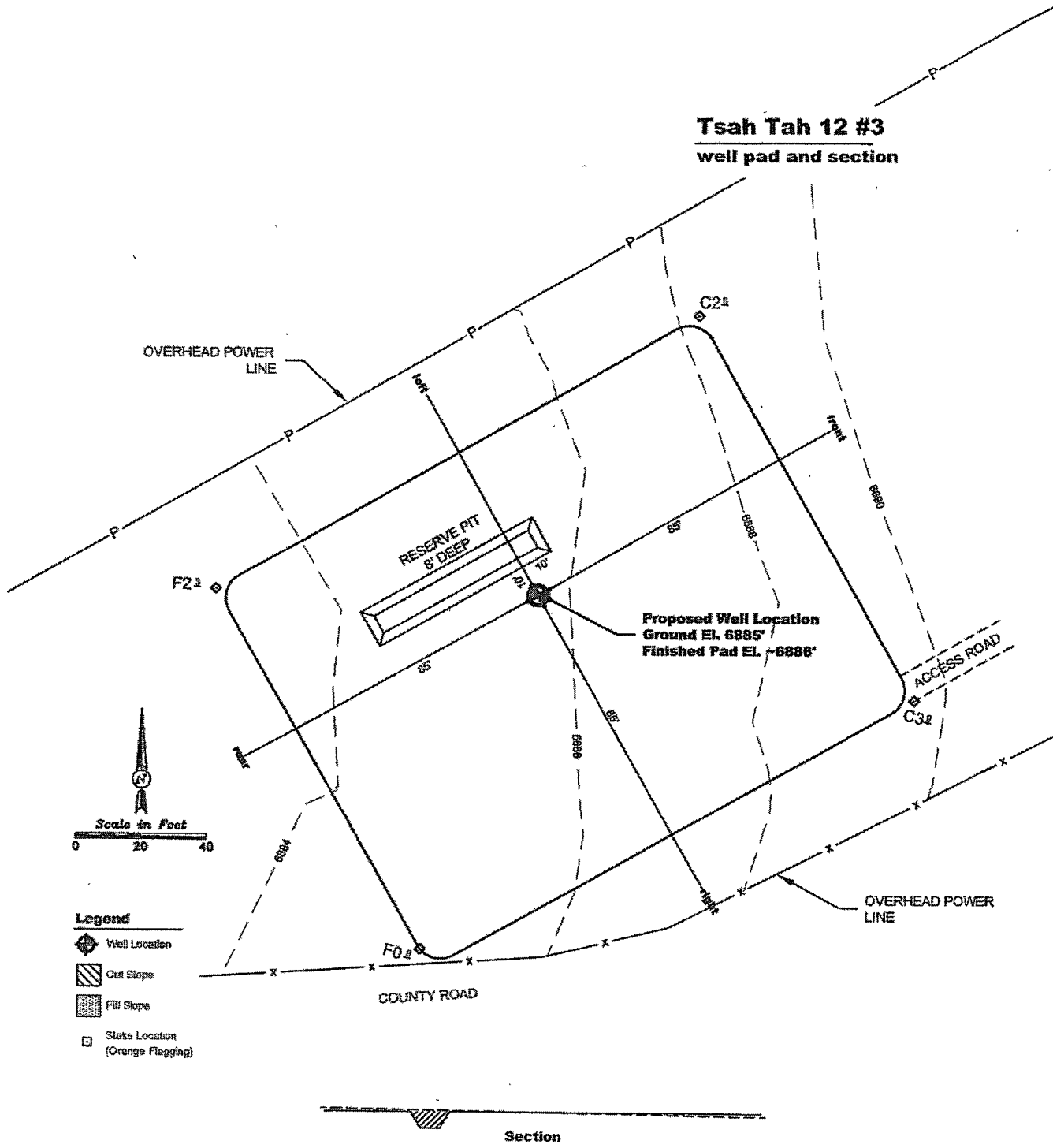
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be  $\leq 780$  psi.

8. OTHER INFORMATION

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

**Tsah Tah 12 #3**  
**well pad and section**

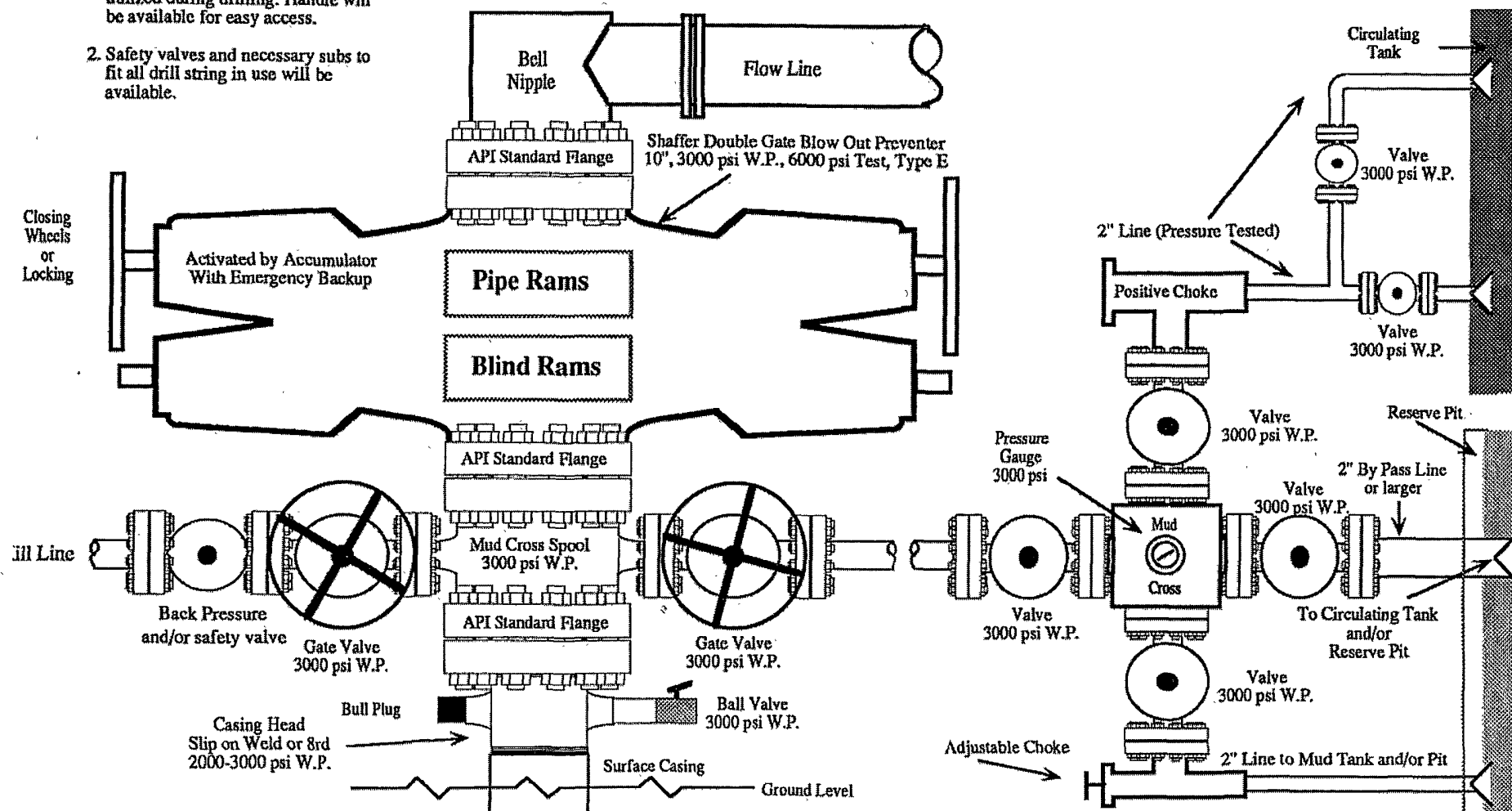


- Legend**
- Well Location
  - Cut Slope
  - Fill Slope
  - Stake Location  
(Orange Flagging)

# 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.