

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RCVD OCT26'01
OIL CONS. DIV
DIST. 3

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

5. Lease Serial No.
NMNM-112955

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.
N/A

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
ROSETTA RESOURCES OPERATING LP

3a. Address **1200 17th ST., SUITE 770
DENVER, CO 80202**

3b. Phone No. (include area code)
(720) 359-9144

8. Lease Name and Well No.
TSAH TAH 11 #1

9. API Well No.
30-045- 33928

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface **1200' FNL & 1475' FEL**
At proposed prod. zone **SAME**

10. Field and Pool, or Exploratory
Basin Fruitland Coal Gas

11. Sec., T. R. M. or Blk. and Survey or Area
B 11-24N-10W NMPM

14. Distance in miles and direction from nearest town or post office*
27 AIR MILES S OF BLOOMFIELD, NM

12. County or Parish
SAN JUAN

13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) **1,200'**

16. No. of acres in lease
1,761.69

17. Spacing Unit dedicated to this well
E2

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. **N/A**

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.)
6,934' GL

22. Approximate date work will start*
11/01/2006

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:

- 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

Brian Wood

Name (Printed/Typed)

BRIAN WOOD

Date

09/04/2006

Title

CONSULTANT

PHONE: (505) 466-8120

FAX: (505) 466-9682

Approved by (Signature)

James Lovato

Name (Printed/Typed)

Date

10/25/06

Title

Acting AFM Mineral

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)

Vs
NMOC

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pachesco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pachesco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-33928	Pool Code 71629	Pool Name BASIN FRUITLAND COAL GAS
Property Code 36103	Property Name TAHA TAH 11	Well Number 1
OGRI No. 239235	Operator Name ROSETTA RESOURCES OPERATING LP	Elevation 6934'

¹⁰ Surface Location

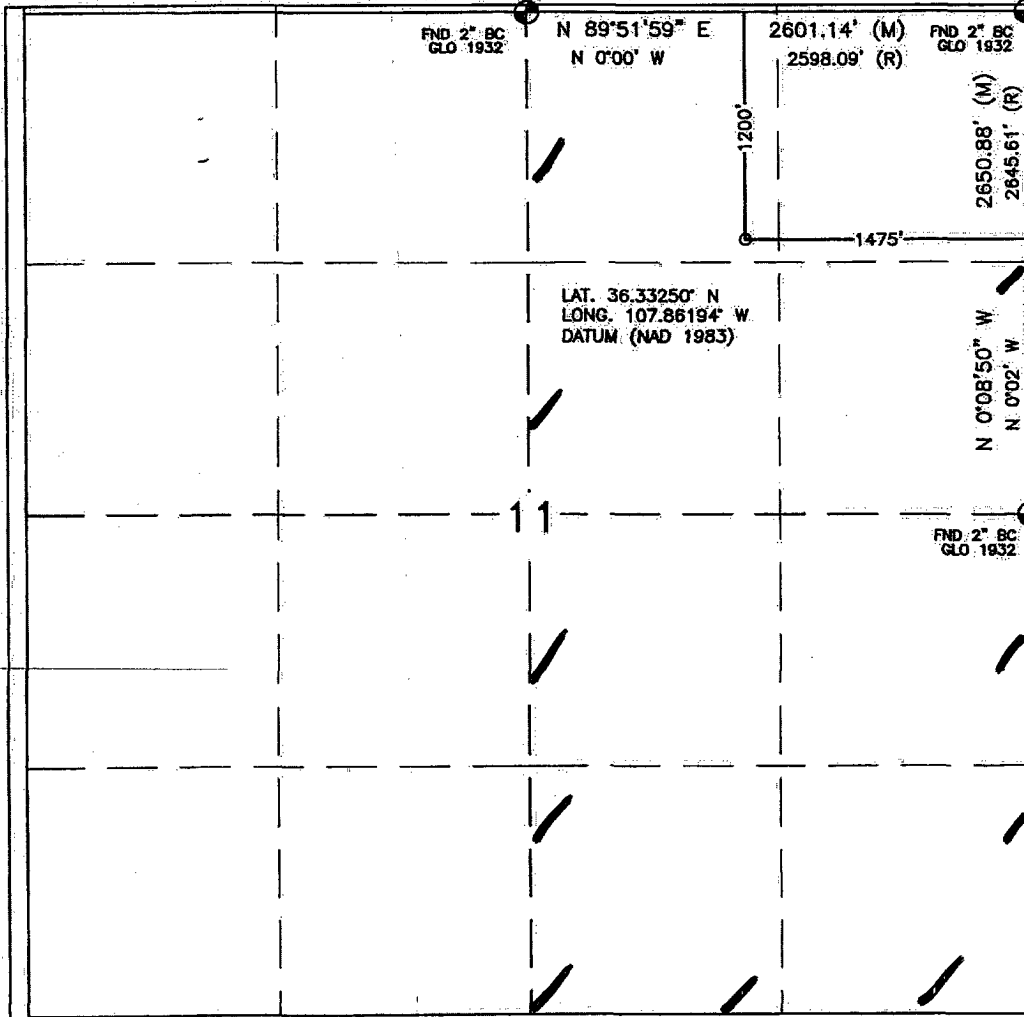
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
B	11	24N	10W		1200'	NORTH	1475'	EAST	SAN JUAN

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
Dedicated Acres 320			Joint or Infill C		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

16



17 OPERATOR CERTIFICATION

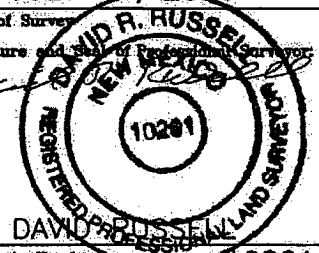
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature Brian Wood
Printed Name **BRIAN WOOD**
Title **CONSULTANT**
Date **SEPT. 4, 2006**

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 **JULY 14, 2006**
Signature David R. Russell
Certificate Number **10201**



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

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

Form C-103
May 27, 2004

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- 33928
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 INC.		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 11
4. Well Location Unit Letter: B 1200' FNL & 1475' FEL Section 11 Township 24 N Range 10 W NMPM SAN JUAN County		8. Well Number #1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,934' GL		9. OGRID Number 239235
Pit of Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		
Pit type: <u>DRILLING</u> Depth to Groundwater: <u>>50'</u> Distance from nearest fresh water well: <u>>1,000'</u> Distance from nearest surface water: <u>>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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: DRILLING PIT ☒

OTHER: ☐

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: SEPTEMBER 4, 2006

Type or print name: BRIAN WOOD

E-mail address: brian@permitswest.com

Telephone No.: (505) 466-8120

For State Use Only

DEPUTY OIL & GAS INSPECTOR, DIST.

OCT 26 2006

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

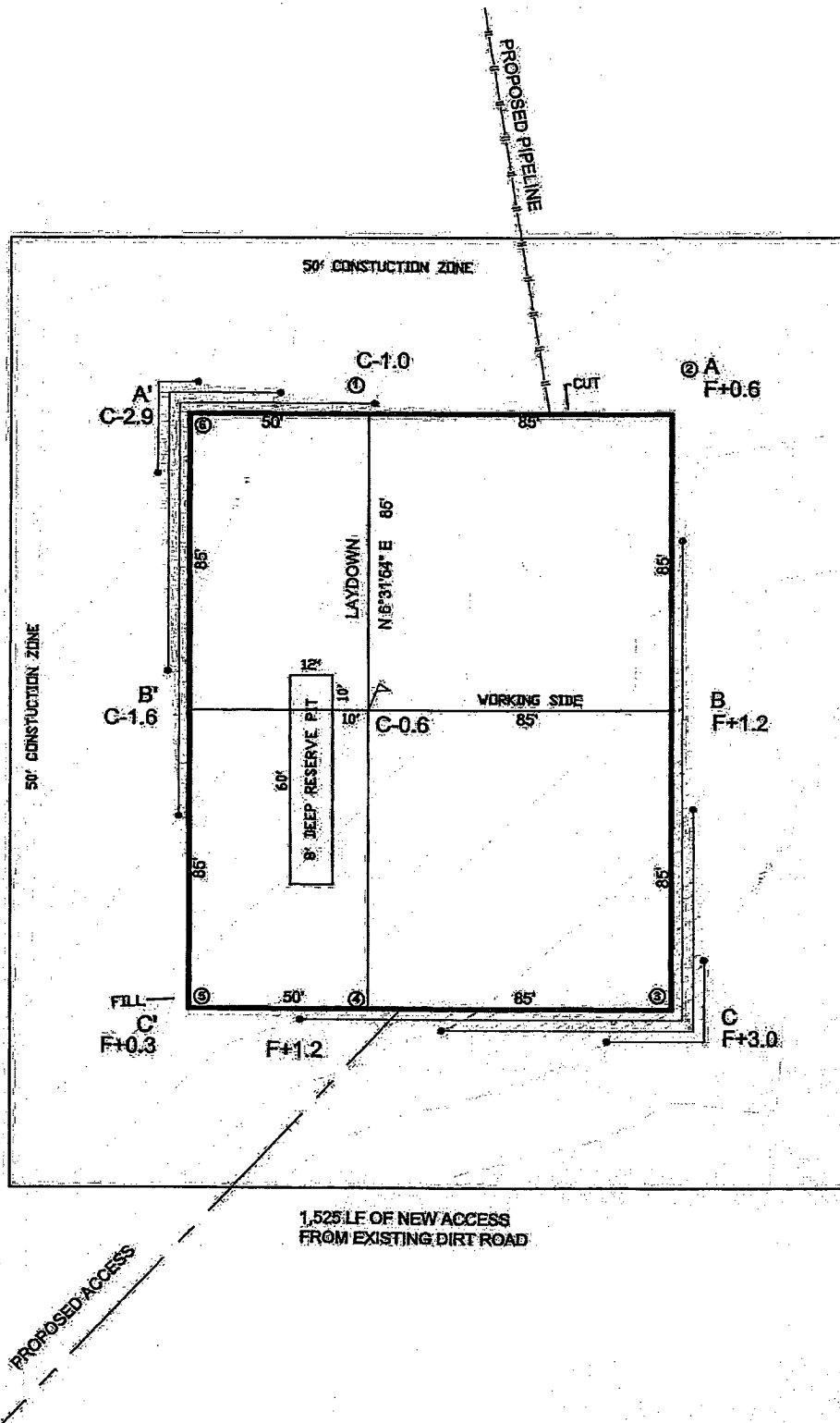
LATITUDE: 36.33250°N
LONGITUDE: 107.86194°W
DATUM: NAD 83

ROSETTA RESOURCES OPERATING LP

TSAH TAH 11 #1
1200' FNL & 1475' FEL
LOCATED IN THE NW/4 NE/4 OF
SECTION 11, T24N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6834', NAVD 88
FINISHED PAD ELEVATION: 6933', NAVD 88



20' 0' 20' 40'
SCALE = 40'



1 FOOT CONTOUR INTERVAL SHOWN
SCALE: 1" = 40'
JOB No.: RRO007
DATE: 07/17/06



Russell Surveying
1409 W. Aztec Blvd. #5
Aztec, New Mexico 87410
(505) 334-8637

ROSETTA RESOURCES OPERATING LP

TSAH TAH 11 #1

1200' FNL & 1475' FEL

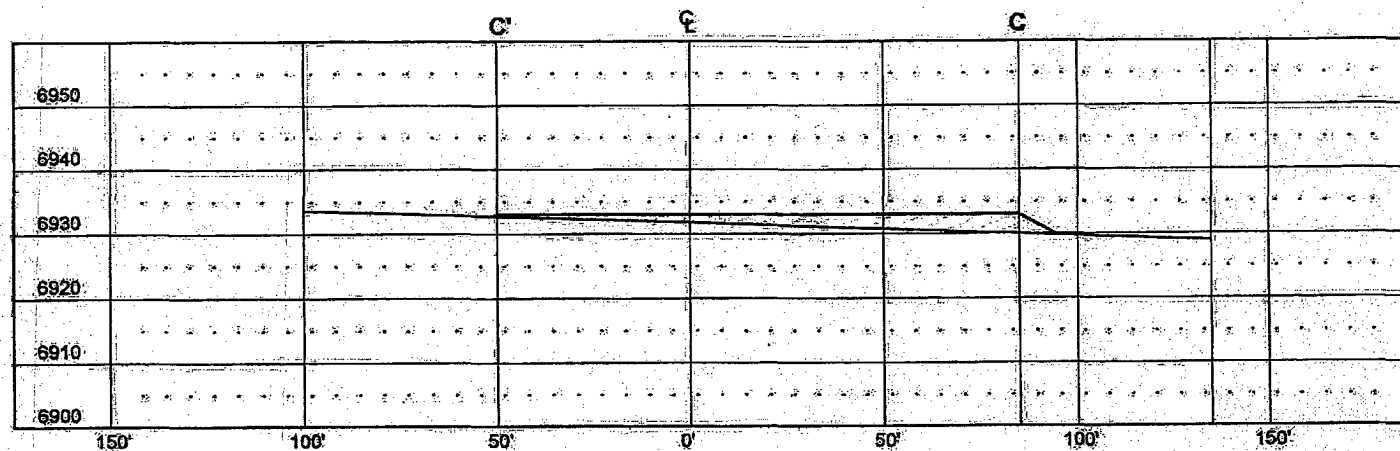
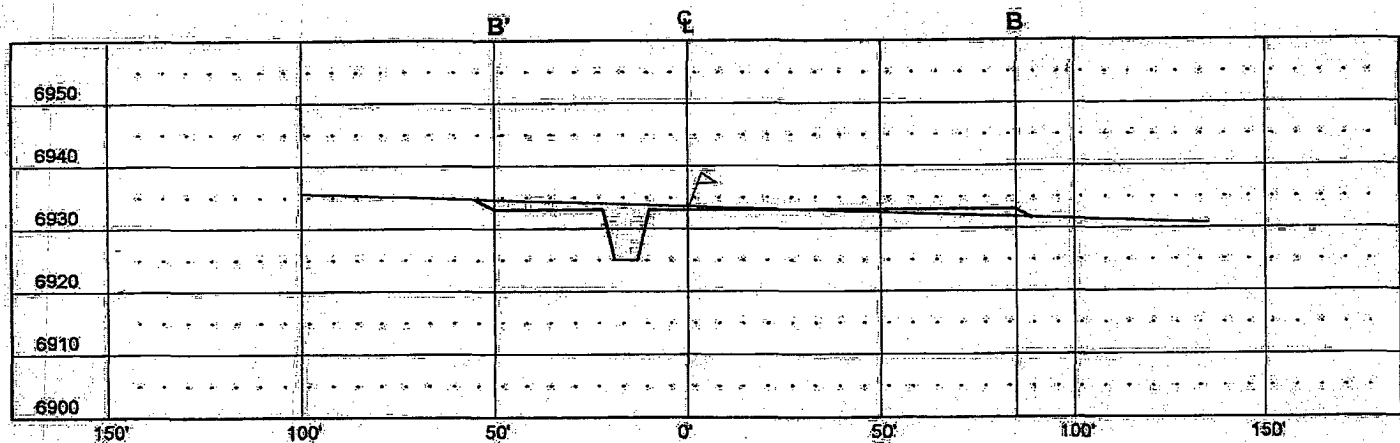
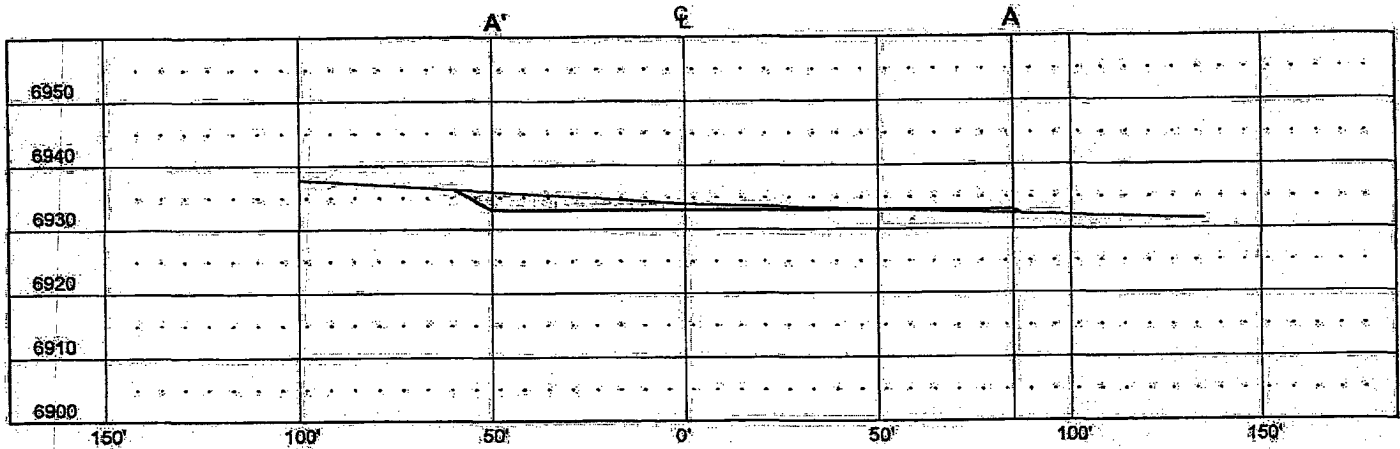
LOCATED IN THE NW/4 NE/4 OF

SECTION 11, T24N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6834', NAVD 88

FINISHED PAD ELEVATION: 6933', NAVD 88



VERT. SCALE: 1" = 30'
 HORZ. SCALE: 1" = 50'
 JOB No.: RRO007
 DATE: 07/17/06



Russell Surveying
 1409 W. Aztec Blvd. #5
 Aztec, New Mexico 87410
 (505) 334-8637

Rosetta Resources Operating LP
Tsah Tah 11 #1
1200' FNL & 1475' FEL
Sec. 11, 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'	+6,934'
Fruitland Coal	1,534'	1,539'	+5,400'
Pictured Cliffs	1,804'	1,809'	+5,130'
Lewis Shale	1,874'	1,879'	+5,060'
Total Depth (TD)	1,900'	1,905'	+5,034'

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 11 #1
1200' FNL & 1475' FEL
Sec. 11, 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	ST & C	New	120'
6-1/4"	4-1/2"	10.5#	J-55	LS ST & 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 ≈ 348 cubic feet (≈ 295 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 11 #1
1200' FNL & 1475' FEL
Sec. 11, 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 ≤ 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.