

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 APR 15

158 Lead Sheet #4
NMNM-112955

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

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

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

9. API Well No.
30-045- 34282

10. Field and Pool, or Exploratory
SWD; MESA VERDE

11. Sec., T. R. M. or Blk. and Survey or Area
"B" 1-24N-10W NMPM

12. County or Parish
SAN JUAN

13. State
NM

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

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface 1200' FNL & 1511' FEL
At proposed prod. zone SAME

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

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) 191'

16. No. of acres in lease
1,761.69

17. Spacing Unit dedicated to this well
N/A

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 332' (1 #1)

19. Proposed Depth
4,600'

20. BLM/BIA Bond No. on file
BLM STATE WIDE NMB000371

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6,810' GL

22. Approximate date work will start*
07/15/2007

23. Estimated duration
3 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

Name (Printed/Typed)
BRIAN WOOD

Date
04/15/2007

Title
CONSULTANT

PHONE: (505) 466-8120

FAX: (505) 466-9682

Approved by (Signature)

Name (Printed/Typed)

Date

Title

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)

must have SWD order

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOCD

3 5/10

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



State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

2007 APR 18 AM 11:24

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT RECEIVED

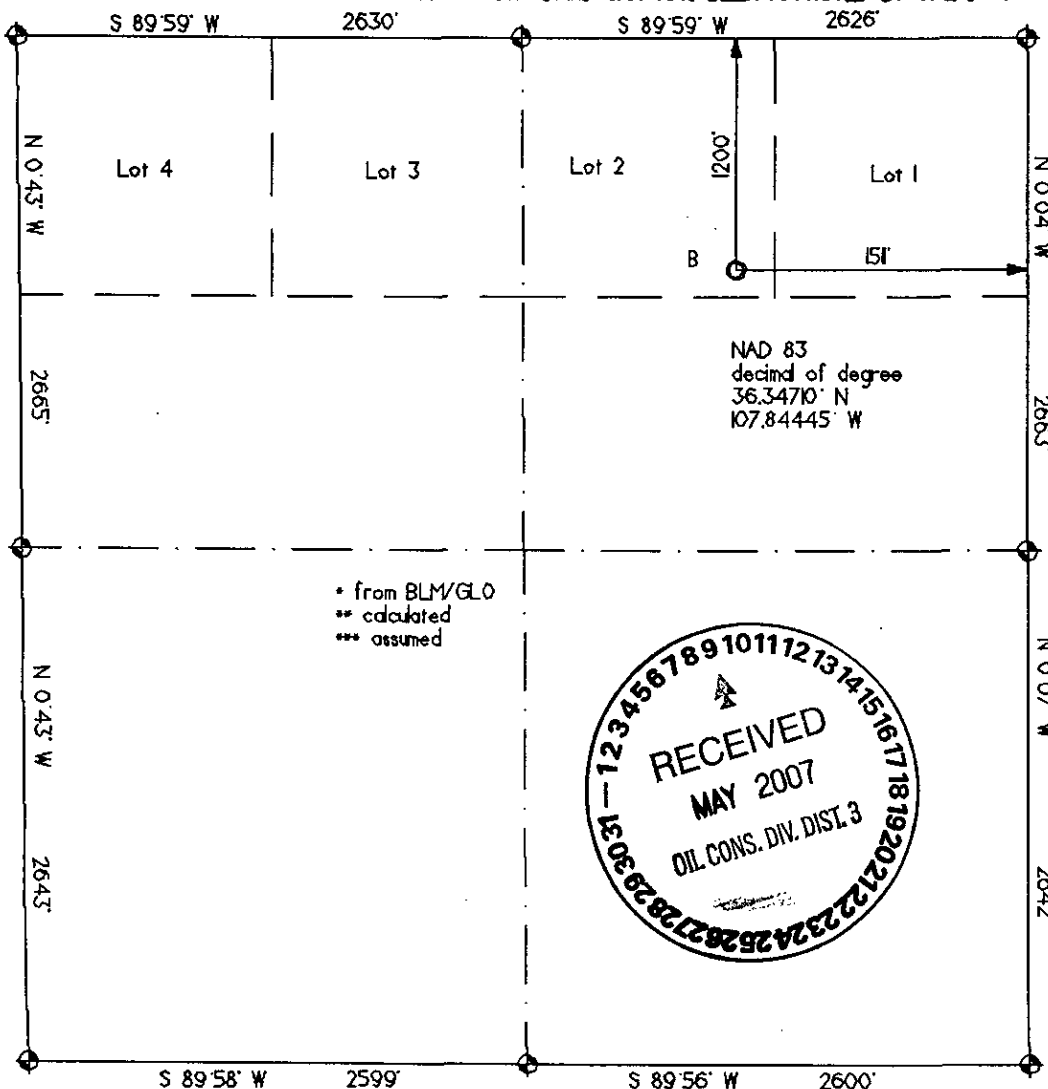
APA Number 30-045-34282	Pool Code 96160	Pool Name SWD; MESA VERDE
Property Code 35715	Property Name TAHA TAH SWD	Well Number 1
GRID No. 239235	Operator Name ROSETTA RESOURCES OPERATING, L.P.	Elevation 6810'

Surface Location									
UL or Lot B	Sec. 1	Twp. 24 N.	Rge. 10 W.	Lot Ltr. (2)	Feet from 1200'	North/South NORTH	Feet from 151'	East/West EAST	County SAN JUAN

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Ltr.	Feet from	North/South	Feet from	East/West	County

Dedication	Joint ?	Consolidation	Order No.
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NO ALLOWABLE WILL 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.	
Signature	<i>Brian Wood</i>
Printed Name	BRIAN WOOD
Title	CONSULTANT
Date	APR. 15, 2007
SURVEYOR CERTIFICATION	
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	09/28/06
Signature and Seal of Professional Surveyor	<i>Gerard Ruddlestone</i>

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

WELL API NO. 30-045- **34282**

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
NMNM-112955

7. Lease Name or Unit Agreement Name

TSAH TAH SWD

8. Well Number #1

9. OGRID Number 239235

10. Pool name or Wildcat
SWD; MESA VERDE

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.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other WATER DISPOSAL WELL

2. Name of Operator
ROSETTA RESOURCES OPERATING LP

3. Address of Operator
1200 17th ST., SUITE 770, DENVER, CO 80202

4. Well Location

Unit Letter: LOT 2

1200' FNL & 1511' FEL

Section 1

Township 24 N

Range 10 W

NMPM

SAN JUAN

County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6,810' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type: DRILLING Depth to Groundwater: >100' Distance from nearest fresh water well: >1,000' Distance from nearest surface water: <200'

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: APRIL 15, 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, DIST. 4

DATE: 5/10/07

Conditions of Approval (if any):

8

Tsah Tah SWD # 1
well pad & section

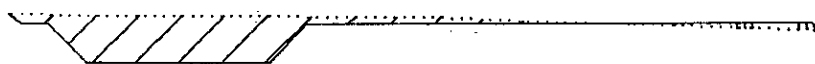
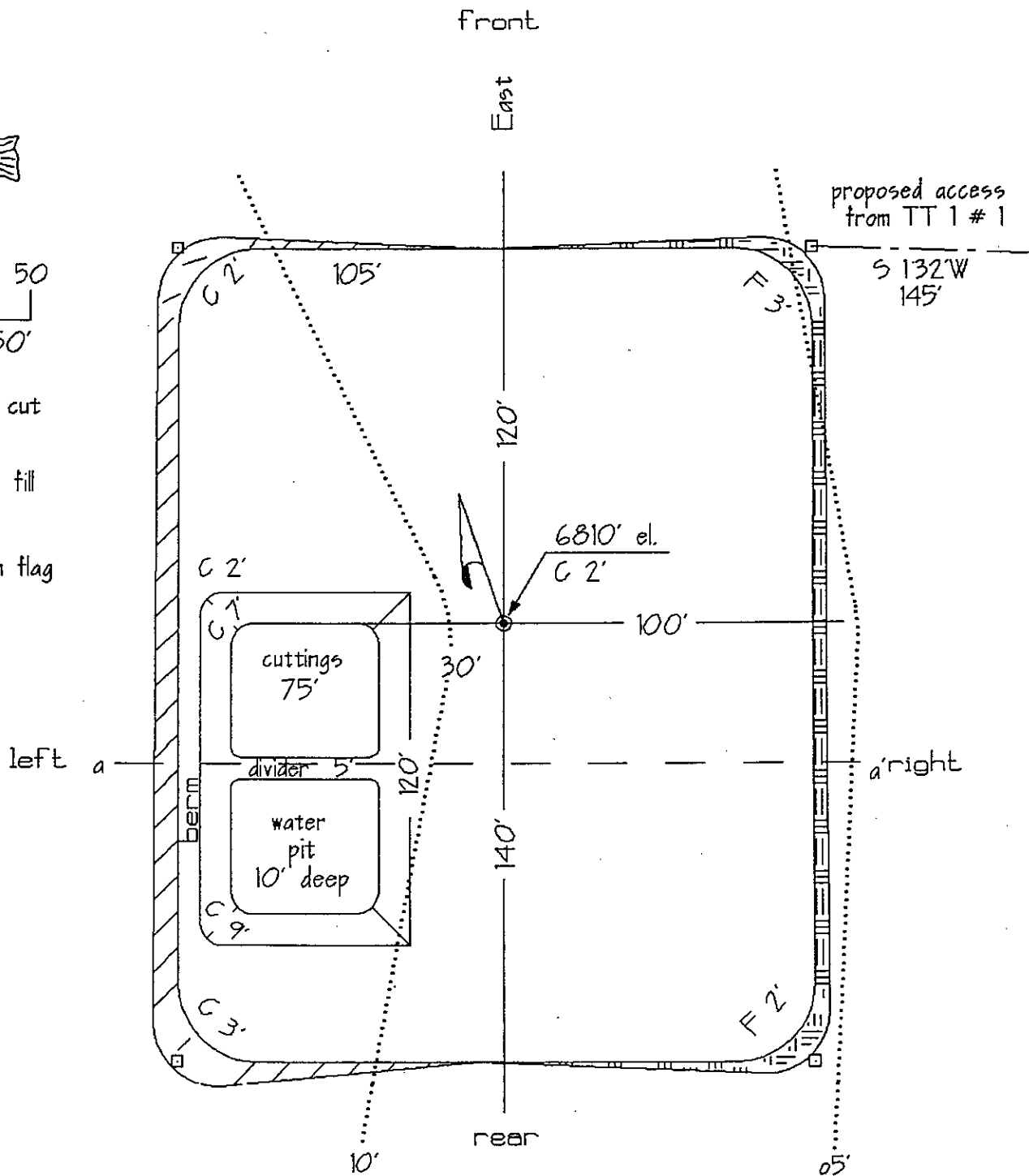


0' 50'
Scale 1" = 50'

cut

fill

□ set stake/pin flag



a

Cross section

a'

Rosetta Resources Operating LP
Tsah Tah SWD #1
1200' FNL & 1511' FEL
Sec. 1, 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'	10'	+6,810'
Ojo Alamo Sandstone	820'	830'	+5,990'
Kirtland Shale	910'	920'	+5,900'
Fruitland Coal	1,660'	1,670'	+5,150'
Pictured Cliffs Sandstone	1,710'	1,760'	+5,100'
Lewis Shale	1,810'	1,820'	+5,000'
Cliff House Sandstone	2,180'	2,190'	+4,630'
La Ventana Tongue	2,580'	2,590'	+4,230'
Menefee	3,295'	3,305'	+3,515'
Point Lookout	4,185'	4,195'	+2,625'
Mancos Shale	4,510'	4,520'	+2,300'
Total Depth (TD)	4,600'	4,610'	+2,210'

2. NOTABLE ZONES

Oil & Gas Zones

Fruitland
Pictured Cliffs

Water Zone

Nacimiento
Ojo Alamo

Coal Zone

Fruitland

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.

Application will be made to the NMOCD for approval to dispose of produced water into the La Ventana, Menefee, and Point Lookout zones.

Rosetta Resources Operating LP
Tsah Tah SWD #1
1200' FNL & 1511' FEL
Sec. 1, T. 24 N., R. 10 W.
San Juan County, New Mexico

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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.

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.

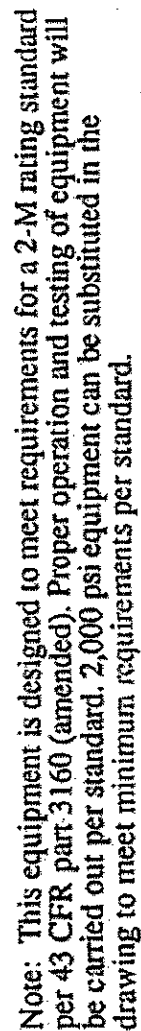
4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth</u>
12-1/4"	8-5/8"	24#	J-55	S T & C	New	200'
7-7/8"	5-1/2"	15.5#	J-55	S T & C	New	4,600'

Surface casing will be cemented to the surface with ≈ 165 cubic feet (≈ 140 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.6 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.

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.



Rosetta Resources Operating LP
Tsah Tah SWD #1
1200' FNL & 1511' FEL
Sec. 1, T. 24 N., R. 10 W.
San Juan County, New Mexico

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Production casing will be cemented to the surface with $\approx 1,600$ cubic feet and ≈ 10 centralizers will be used. Volume = 100% excess. Lead with $\approx 1,482$ cubic feet (≈ 720 sacks) Class B with 2% SMS + 1/4 pound per sack cellophane + 5 pounds per sack gilsonite. Lead yield = 2.06 cubic feet per sack. Lead weight = 12.6 pounds per gallon. Tail with ≈ 118 cubic feet (≈ 100 sacks) Class B with 1/4 pound per sack cellophane + 5 pounds per sack gilsonite + 2% CaCl_2 . Tail yield = 1.18 cubic feet per sack. Tail weight = 15.6 pounds per gallon.

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.

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 $\leq 1,975$ psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈ 1 week to drill and ≈ 2 weeks to complete the well.