

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 08 2009

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator
ROSETTA RESOURCES OPERATING LP3a. Address
717 Texas, Suite 2800, Houston, TX 770023b. Phone No. (include area code)
713 335-41044. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1200' FNL & 1511' FEL 1-24N-10W

5. Lease Serial No.

NMMN-112955

6. If Indian, Allottee or Tribe Name

N/A

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

N/A

8. Well Name and No.

TSAH TAH SWD #1

9. API Well No.

30-045-34282

10. Field and Pool, or Exploratory Area

SWD; ENTRADA

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Will change long string from that shown in October 6, 2009 Sundry.

Long string will be:

0' - 5,800': 23# J-55 LT&C

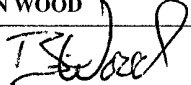
5,800' - 7,800': 26# J-55 LT&C

RCVD OCT 15 '09

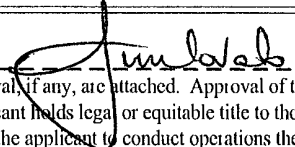
OIL CONS. DIV.

DIST. 3

cc: BLM, Hildreth

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) BRIAN WOOD (PHONE 505 466-8120)		Title CONSULTANT (FAX 505 466-9682)	
Signature 		Date 10/07/2009	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by 	Title Petr. Eng	Date 10/8/09
Conditions of approval, if any, are attached. Approval of this notice 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.		
Office		

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)

NMOC

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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Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	12'	+6,810'
Ojo Alamo sandstone	922'	934'	+5,888'
Kirtland shale	1,110'	1,122'	+5,700'
Top Fruitland coal	1,735'	1,747'	+5,075'
Lewis shale	1,895'	1,907'	+4,915'
Huerfano bentonite	2,060'	2,072'	+4,750'
LaVentana sandstone	2,590'	2,602'	+4,220'
Menefee sandstone	3,245'	3,257'	+3,565'
Point Lookout sandstone	4,240'	4,252'	+2,570'
Mancos Shale	4,450'	4,462'	+2,360'
Gallup sandstone	5,330'	5,342'	+1,480'
Greenhorn limestone	6,170'	6,182'	+640'
Dakota sandstone	6,280'	6,292'	+530'
Entrada sandstone	7,465'	7,477'	-655'
Total Depth (TD)	7,800'	7,812'	-990'

2. NOTABLE ZONES

Oil & Gas Zones

Fruitland
Pictured Cliffs
Gallup
Dakota

Water Zone

Nacimiento
Ojo Alamo
Entrada

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.

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Application will be made to the NMOCD for approval to dispose of produced water into the Entrada zone. Injection will not commence until after NMOCD approves the UIC application.

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 3,000 psi model is at the end of the Sundry.) BOP and choke manifold system will be installed and tested to $\geq 2,165$ 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. No annular preventer will be used.

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 (all cement product descriptions use BJ nomenclature)

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Interval</u>
12-1/4"	9-5/8"	36#	J-55	S T & C	New	0' - 320'
8-3/4"	7"	20#	J-55	L T & C	New	0' - 6,800'
8-3/4"	7"	23#	J-55	L T & C	New	6,800' - 7,800'

Surface casing will be cemented to the surface with ≈ 218 cubic feet (≈ 171 sacks) Class III with 1/4 pound per sack cellophane + 3% CaCl_2 + 51.2% fresh water. Yield = 1.28 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume: $\geq 100\%$ excess. Standard centralizers will be installed on each of the bottom three joints. Thread lock the guide shoe and bottom of float collar

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only. Will use API casing dope.

Production casing will be cemented to the surface in three stages with a total of $\approx 2,116.5$ cubic feet. Volume: $\geq 70\%$ excess.

Will install ≈ 22 (10 regular + 12 turbulent) centralizers. Will place 10 regular centralizers spaced on every other joint starting at the float collar. Will place 3 turbulent centralizers, at 120' intervals, above and below each DV tool.

First stage (≈ 860.7 cubic feet) of long string cement will have a float collar set at $\approx 7,758'$. Lead slurry (≈ 722.7 cubic feet) will consist of ≈ 365 sacks premium light high strength FM + 1/4 pound per sack cellophane + 0.3% CD-32 + 6.25 pounds per sack LCM-1 + 1% FL-52 + 97.5% fresh water mixed at 12.5 pounds per gallon and 1.98 cubic feet per sack. Tail slurry (≈ 138 cubic feet) will consist of ≈ 100 sacks Type III + 1% CaCl_2 + 1/4 pound per sack cellophane + 0.2% FL-52 + 58.9% fresh water mixed at 14.6 pounds per gallon and 1.38 cubic feet per sack.

Second stage (≈ 691.8 cubic feet) of long string cement will have a stage collar set at $\approx 4,500'$. Lead slurry (≈ 553.8 cubic feet) will consist of ≈ 260 sacks premium light FM + 3% CaCl_2 + 1/4 pound per sack cellophane + 5 pounds per sack LCM-1 + 0.4% FL-52 + 0.4% sodium metasilicate + 8% bentonite + 112.3% fresh water mixed at 12.1 pounds per gallon and 2.13 cubic feet per sack. Tail slurry (≈ 138 cubic feet) will consist of ≈ 100 sacks Type III + 1% CaCl_2 + 1/4 pound per sack cellophane + 0.2% FL-52 + 58.9% fresh water mixed at 14.6 pounds per gallon and 1.38 cubic feet per sack.

Third stage (≈ 564 cubic feet) of long string cement will have stage collar set at $\approx 2,000'$. Lead slurry (≈ 426 cubic feet) will consist of ≈ 200 sacks of premium light FM + 3% CaCl_2 + 1/4 pound per sack cellophane + 5 pounds per sack LCM-1 + 0.4% FL-52 + 0.4% sodium metasilicate + 8% bentonite + 112.3% fresh water mixed at 12.1 pounds per gallon and 2.13 cubic feet per sack. Tail slurry (≈ 138 cubic feet) will consist of ≈ 100 sacks Type III + 1%

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CaCl_2 + 1/4 pound per sack cellophane + 0.2% FL-52 + 58.9% fresh water mixed at 14.6 pounds per gallon and 1.38 cubic feet per sack.

5. MUD PROGRAM

A fresh water polymer mud system with a maximum weight of 9.5 pounds per gallon will be used. Weighting material will drill solids or, if the hole dictates, barite. 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. The following open hole logs will be run from TD to surface: SP, GR, Res., DPHI, and NPHI

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be $\approx 1,350$ psi. (However, given the wildcat nature of the well, a 0.433 psi per foot pressure gradient $\times 7,800'$ would result in a maximum bottom hole pressure of $\approx 3,377$ psi.)

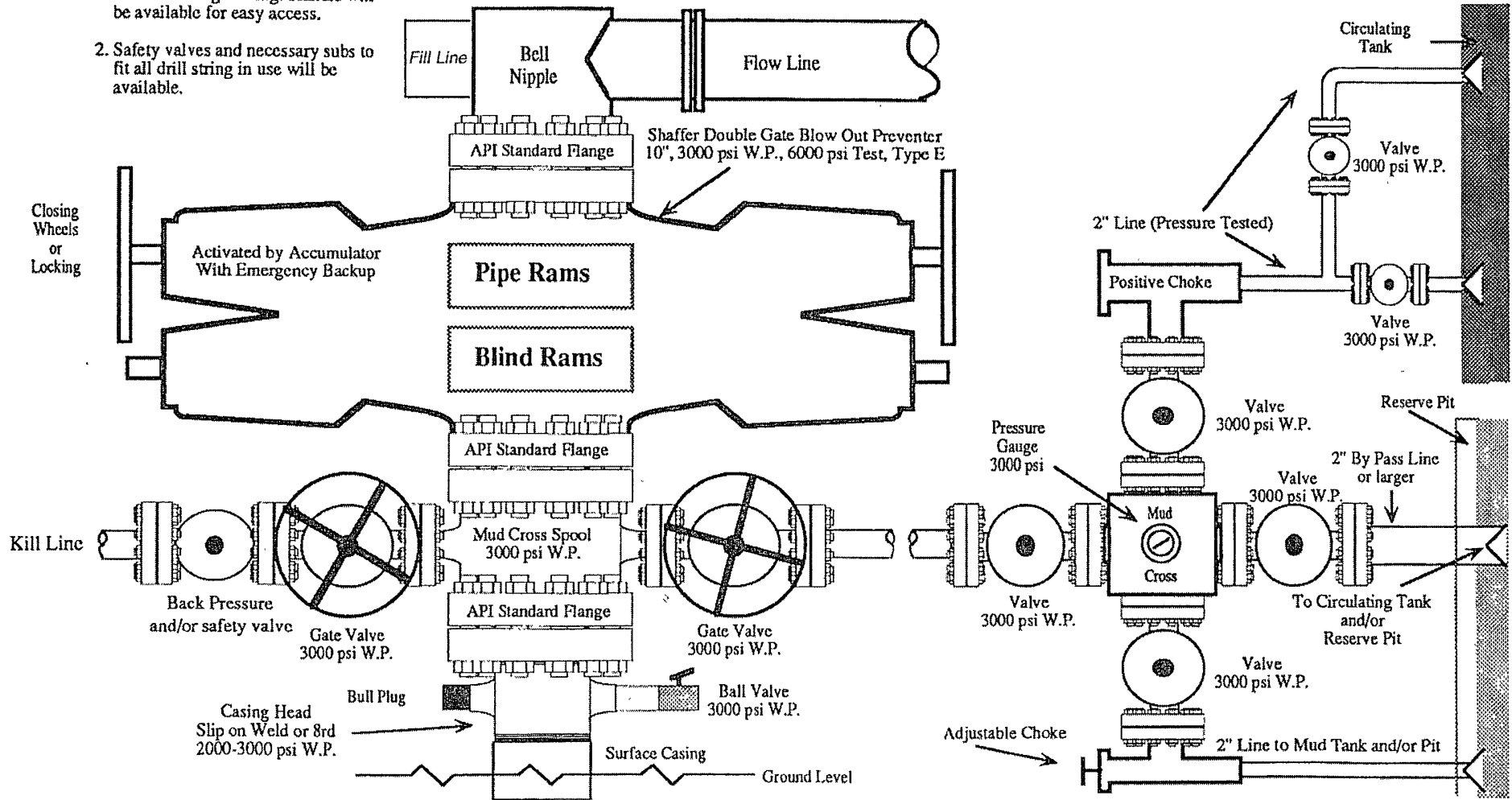
8. OTHER INFORMATION

The anticipated spud date is October 7, 2009. It is expected it will take ≈ 2 weeks to drill and ≈ 2 weeks to complete the well. Injection will not commence until OCD has approved the UIC application. There will be no change in the surface use plan from that described in the APD.

3,000 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.

change pool

Form C - 102

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

2007 APR 18 AM 11:24

☐ AMENDED REPORT

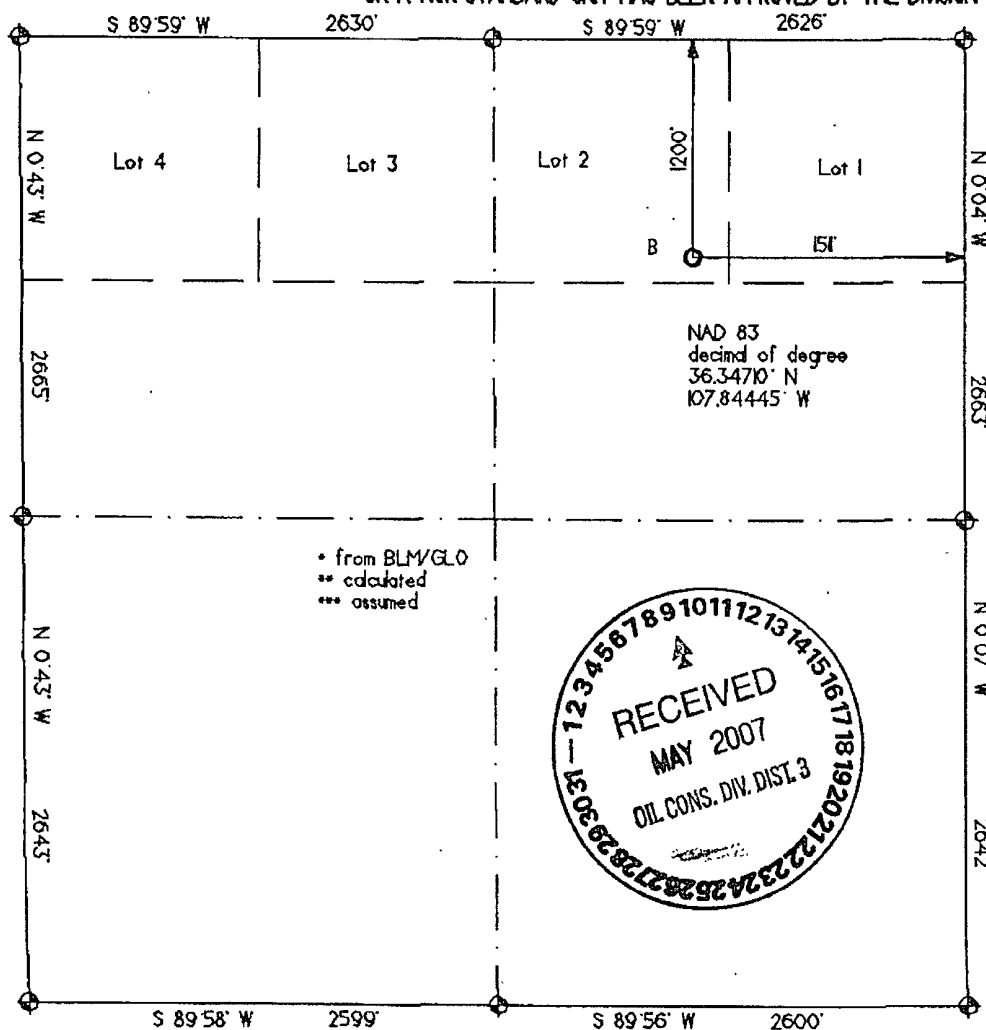
WELL LOCATION AND ACREAGE DEDICATION PLAT RECEIVED

APA Number 30-045-34282	Pool Code 96436	Pool Name SWD; ENTRADA	BLM ARMINGTON NM
Property Code 35715	Property Name TAHA TAH SWD		Well Number 1
OGRD No. 239235	Operator Name ROSETTA RESOURCES OPERATING, L.P.		Elevation 6810'

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

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



OPERATOR CERTIFICATION

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

Signature

B. Wood

Printed Name

BRIAN WOOD

Title

CONSULTANT

Date

SEPT. 30, 2009

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

GERALD S. HUDDLESTON
NEW MEXICO
6844
REGISTERED LAND SURVEYOR