Form 3160 -3 (April 2004)

# UNITED STATES DEPARTMENT OF THE INTERIOR

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

5.	Lease Serial No.
٠,	NMNM-112957

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Ļ	NMNM-112957

BUREAU OF LAND MA	ANAGEMENT 01	om 1	UNMNM-112957		
APPLICATION FOR PERMIT TO	21838 F 1 11 ( )		6. If Indian, Allotec or	Tribe Name	
		FIVED	N/A		
Type of work: DRILL REEN	7. If Unit on CA Agreement, Name and				
o. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	ole Zone	8. Lease Name and Well TSAH TAH 33 #1		
Name of Operator ROSETTA RESOURCES INC.			9. API Well No. 30-045- 3 3	608	
Address 1200 17TH ST., SUITE 770 DENVER, CO 80202	3b. Phone No. (include area code) (720) 359-9144		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL		
4. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface 1378' FNL & 1620' FEL  At proposed prod. zone SAME			11. Sec., T. R. M. or Blk. and Survey or Area 33-25N-10W NMPM		
Distance in miles and direction from nearest town or post office*  25 AIR MILES SSW OF BLOOMFIELD			12. County or Parish SAN JUAN	13. State	
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 1,378'	16. No. of acres in lease 1,600.00	E2 /	17. Spacing Upit dedicated to this well  E2 3 2 A C		
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  2,078' (33 #4)	19. Proposed Depth 1,900'	Í	BIA Bond No. on file INVESTATE WIDE REBUSE		
Elevations (Show whether DF, KDB, RT, GL, etc.) 6,808' GL	tc.) 22 Approximate date work will star 04/01/2006		23. Estimated duration 2 WEEKS		
	24. Attachments				
following, completed in accordance with the requirements of On	shore Oil and Gas Order No.1, shall be a	ttached to th	is form:		
Well plat certified by a registered surveyor.  A Drilling Plan.  A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office).	Item 20 above).  Seem Lands, the 5. Operator certification is a second control of the se	cation specific inf	ons unless covered by an exi		
Signature / All 2	Name (Printed/Typed) BRIAN WOOD			te 02/18/2006	
CONSULTANT	PHONE: (505) 466-8120	FA	X: (505) 466-9682		
proved by (Signature) Manke Cost	Name (Printed/Typed)		Da	ate 4/18/8	
alle AFM	Office FZd			<u> </u>	
oplication approval does not warrant or certify that the applicant induct operations thereon. onditions of approval, if any, are attached.	holds legal or equitable title to those righ	nts in the sul	bject lease which would entit	le the applicant to	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it ates any false, fictitious or fraudulent statements or representation		willfully to 1	make to any department or a	gency of the United	

\*(Instructions on page 2)



# OL CONSERVATION DIVISION OF THE PARTIES AND THE PROPERTY OF THE PARTIES OF THE PA

2040 South Pacheco

RECEIVED

EARMINGTON NEW AMENDED REPORT Santa Fe. NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Pool Name 15-33600 71629 BASIN FRUITLAND COAL **Wal Number** Property Code Property Name 35624 TSAH TAH 33 **Bevation** OCRID No. Operator Name ·239235 6808 ROSETTA RESOURCES, INC. Surface Location County Feet from> North/South East/West UL or Lot Sec Tup. Lot lon Feet from> Rga G 33 25 N. EAST SAN JUAN 10 W. 1378 NORTH 1620 Bottom Hole Location & Different From Surface County Tup. Feet from North/South | Feet from > East/West U or Lot Sec Rga Lot lon Dedication Joint ? Order Na. Consolidation 320 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N 89'48' W . 2638 • N 89'48' W -2638 • OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and 1378 belief. Signature 1620 Printed Name **BRIAN WOOD** G Title **CONSULTANT NAD 27** decimal of degree Date FEB. 18, 2006 36.36004 N 107.897834 W SURVEYOR CERTIFICATION I hereby certify that the well location on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the • from BLM/GLO calculated ••• assumed some is true and correct to the best of my belief. ш Date of Survey

2638 ---

N 89'58' W

5

N 89'58' W \*\*\*

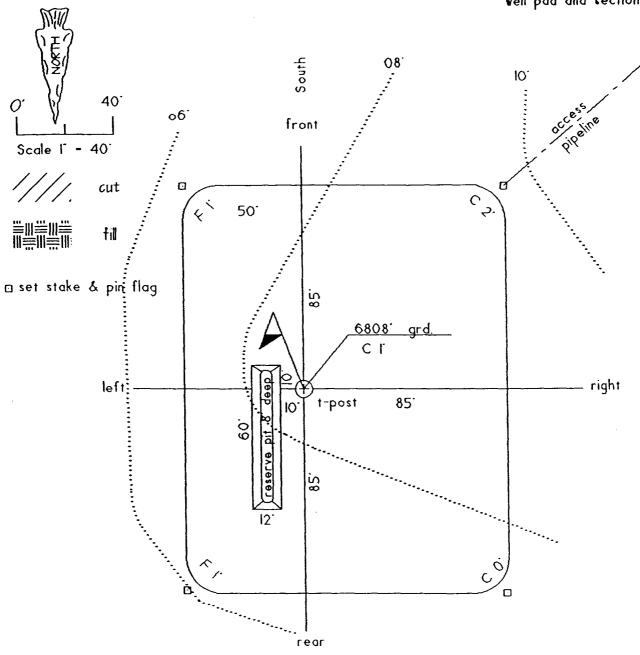
2637 •

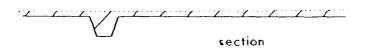
12/0Z/05 Signature and Sed 1600/ Professional Surveyor 6844

EREO LAHO

Submit 3 Copies To Appropriate District	State of New Mo	exico	Form C-103
Office District I	Energy, Minerals and Nati	ıral Resources	May 27, 2004 WELL API NO. 20 045 27/07
1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONCEDUATION	DIMICION	WELL API NO. 30-045-33608
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION 1220 South St. Fra		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505			NMNM-112957
SUNDRY NOTICE	ES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE *APPLICA'			TSAH TAH 33
PROPOSALS.)  1. Type of Well: Oil Well G	as Well 🛛 Other		8. Well Number #1
2. Name of Operator ROESTTA	RESOURCES INC.		9. OGRID Number
3. Address of Operator 1200 17TH DENVER,			10. Pool name or Wildcat BASIN FRUITLAND COAL GAS
4. Well Location			
	378 feet from the NOR	<del></del>	
Section 33	Township 25N R 11. Elevation (Show whether DF	ange 10W	NMPM County SAN JUAN
	6,808' GL	., MD, M, OM, etc.	
Pit or Below-grade Tank Application X or C		> 1000'	
Pit type <u>DRILLING</u> Depth to Groundwate			
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		onstruction Material
12. Check Ap	propriate Box to Indicate N	Nature of Notice,	Report or Other Data
NOTICE OF INT		1	SSEQUENT REPORT OF:
<del></del>	PLUG AND ABANDON   CHANGE PLANS	REMEDIAL WOR	RK ☐ ALTERING CASING ☐ ☐
	MULTIPLE COMPL	CASING/CEMEN	<del></del>
	r\(\nabla_1\)	OTUED.	
OTHER: DRILLING PIT  13. Describe proposed or complete	ed operations. (Clearly state all	oTHER:	nd give pertinent dates, including estimated date
of starting any proposed work			ttach wellbore diagram of proposed completion
or recompletion.			
I hereby certify that the information at grade tank has been/will be constructed and che	ove is true and complete to the losed according to NMOCD guidelines	Dest of my knowleds	ge and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE	TITLE_	CONSULTANT	
Type or print name BRIAN WOO	DD E-mail a	ddress: brian@pe	ermitswest.com Telephone No. 466-8120
APPROVED BY:  Conditions of Approval (if any):	TITLE	PUTY OIL & GAS IN	SPECTOR, DIST. #3 DATE APR 2 0 2006

Tsah Tah 33 # 1
well pad and section





Rosetta Resources Inc.
Tsah Tah 33 #1
1378' FNL & 1620' FEL.
Sec. 33, T. 25 N., R. 10 W.
San Juan County, New Mexico

## **Drilling Program**

### 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<b>Elevation</b>
Nacimiento	000'	5'	+6,808'
Fruitland	1,608'	1,608'	+5,200'
Pictured Cliffs	1,708'	1,708'	+5,100'
Lewis Shale	1,808'	1,808'	+5,000'
Total Depth (TD)*	1,900'	1,905'	+4,908'

### 2. NOTABLE ZONES

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

Water zones will be protected with casing, cement, and fresh water weighted mud. Fresh water encountered while 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 now 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 out the 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 Inc.
Tsah Tah 33 #1
1378' FNL & 1620' FEL
Sec. 33, T. 25 N., R. 10 W.
San Juan County, New Mexico

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

Hole Size	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Type</u>	Age	GL Setting Depth
8-5/8"	7"	23	K-55	ST&C	New	120'
6-3/4"	4-1/2"	10.5	J-55	LT&C	New	1,900'

Surface casing will be cemented to the surface with  $\approx 35$  cubic feet ( $\approx 30$  sacks) Class B with 1/4 pound per sack Flocele + 2% CaCl<sub>2</sub>. 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.

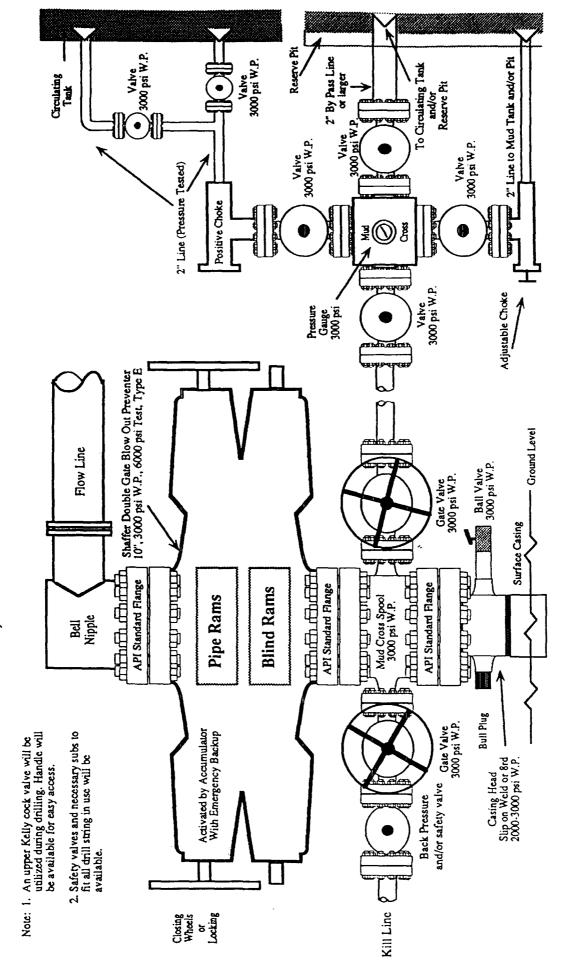
Production casing will be cemented to the surface with  $\approx$ 460 cubic feet ( $\approx$ 390 sacks) Class B with 1/4 pound per sack Flocele + 2% CaCl<sub>2</sub>. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 75% excess. Five or more centralizers will be used.

### 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.



# 2,000 PSI BOP SYSTEM



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.