Form 3160-3 (April 2004)			OMB No	APPROVED b. 1004-0137 March 31, 2007	
UNITED STATES  DEPARTMENT OF THE INTERIOR  BUREAU OF LAND MANAGEMENT [1] [1] [1]			5. Lease Serial No. NMNM-11295	· · · · · · · · · · · · · · · · · · ·	
APPLICATION FOR PERMIT TO DRILL OR REENTER			6. If Indian, Allotee or Tribe Name N/A		
la. Type of work: ✓ DRILL REENTER			7 If Unit or CA Agreement, Name and No. N/A		
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and Well No. TSAH TAH 11 #2		
2. Name of Operator  ROSETTA RESOURCES OPERATING			9. API Well No. 30-045- 34027		
3a. 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 GAS		
4. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface 1250' FNL & 1890' FWL  At proposed prod. zone SAME			11. Sec., T. R. M. or Blk. and Survey or Area  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. S	State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,250'	16. No. of acres in lease	17. Spacin	g Unit dedicated to this v	well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,915' (11 #1)	19. Proposed Depth 1,900'		BIA Bond No. on file STATE WIDE NMB	3000371	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,942' GL	22. Approximate date work will star 11/28/2006	rt*	23. Estimated duration 2 WEEKS	n	
	24. Attachments				·
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ttached to thi	s form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the Item 20 above).	he operation	ns unless covered by an	existing bond o	on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans as	may be require	d by the
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 10/23/200	06
Title	PHONE: (505) 466-8120	FAX	X: (505) 466-9682		
Approved by (Signature)	Name (Printed/Typed)			Date	3/07
Title Ageling AFM Menerals	Office			· · · · · · · · · · · · · · · · · · ·	
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	s legal or equitable title to those righ	ts in the sub	ject lease which would e	entitle the applica	antto
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)					<del></del>

<del>1/3</del>

NMOCD

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

State of New Mexico Energy, Minerals & Natural Resources Department Form C-10257 . 3 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 Pacheco, Santa Fe, NM 87505 OIL CONSERVATION DIVISION 2040 South Pacheco 101 24

Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies
Fee Lease - 3 Copies 8 ES

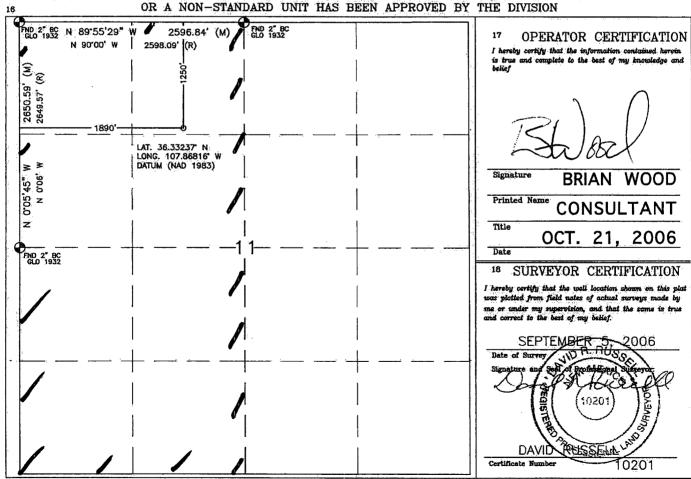
AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-3	1027 7	1629	BASIN FRUITLAND CO	AL GAS
Property Code	•		operty Name AH TAH 11	* Well Number
70GRID No. 239235		•	erator Name URCES OPERATING LP	* Elevation 6942*

<sup>10</sup> Surface Location III. or lot no Feet from the North/South line Section Township Range Lot Idn Feet from the East/West line 24N 10W 1250' NORTH 1890' WEST C 11 SAN JUAN <sup>11</sup> Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Feet from the North/South line | Feet from the Township East/West line County 12 Dedicated Acres is Joint or Infill 44 Consolidation Code 18 Order No. 320 Wa

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



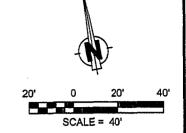
Sabmit 3 Copies To Appropriate District			7 O 102
Office	State of New Mexico Energy, Minerals and Natural Reso	urces	Form C-103 May 27, 2004
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II	•	WELL API NO. 340	רבכ
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVIS	ION 5. Indicate Type of Lease	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE	FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	6. <del>State</del> Oil & Gas Lease NMNM-112955	No.
87505	CES AND REPORTS ON WELLS	7. Lease Name or Unit A	greement Name
(DO NOT USE THIS FORM FOR PROPOS	ALS TO DRILL OR TO DEEPEN OR PLUG BACK T ATION FOR PERMIT" (FORM C-101) FOR SUCH		greement ivaine
	Gas Well 🗗 Other	8. Well Number #2	
2. Name of Operator ROSETTA RESOURCES INC.		9. OGRID Number 2392	35
3. Address of Operator 1200 17 <sup>th</sup> ST., SUITE 770, DENVE	R, CO 80202	10. Pool name or Wildca BASIN FRUITLAND CO	
4. Well Location			
Unit Letter: C	1250' FNL & 1890' FWL		
Section 11	Township 24 N Range 10		County
	11. Elevation (Show whether DR, RKB, RT 6,851' GL	G, GR, etc.)	A Company of the Comp
Pit of Below-grade Tank Application 19 on	Closure  ter: >100' Distance from nearest fresh water well: >	2 500? Dictance from pageset surface water:	500'
··· <del></del> ·		obls: Construction Material	300
	k Appropriate Box to Indicate Natur	•	
NOTICE OF IN		SUBSEQUENT REPORT	
PERFORM REMEDIAL WORK  TEMPORARILY ABANDON	_	DIAL WORK ☐ ALTEF ENCE DRILLING OPNS.☐ P AND	ING CASING 🖂
PULL OR ALTER CASING	<del>-</del> 1	G/CEMENT JOB	^ ⊔
_	_/	_	
OTHER: DRILLING PIT  13. Describe proposed or complete proposed or compl	eted operations. (Clearly state all pertinent d		ng estimated date of
starting any proposed work)	SEE RULE 1103. For Multiple Completio		
recompletion.			
I hereby certify that the information a has been/will be constructed or closed according	boyers true and complete to the best of my k	knowledge and belief. I further certify the or an (attached) alternative OCD-approved	at any pit or below-grade tan olan □.
SIGNATURE / SIGNATURE	TITLE: CONSULTA	· · · · · · · · · · · · · · · · · · ·	
Type or print name: BRIAN WOOD	E-mail address: brian@permitswest	.com Telephone No.: (505)	466-8120
For State Use Only	All DEPUTY OIL	& GAS INSPECTOR, DIST. & DATE	JAN 08 2007
APPROVED BY:	TITLE	DATE	ALSTA O O TOOL

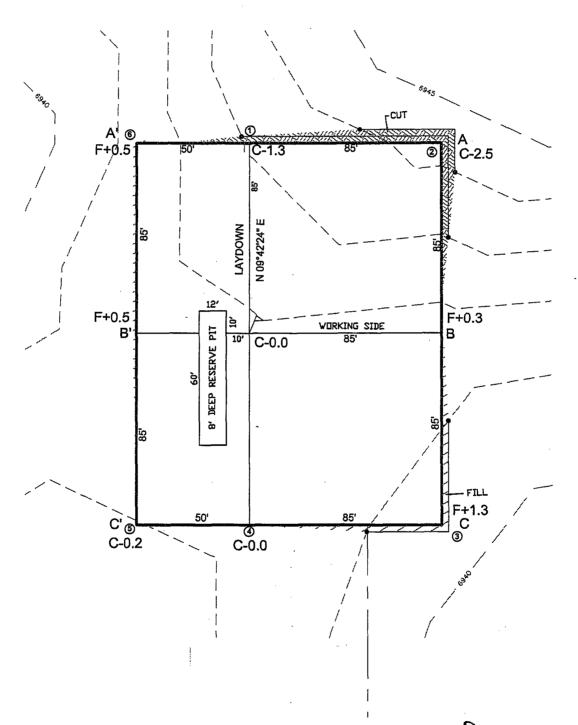
APPROVED BY:
Conditions of Approval (if any):

LATITUDE: 36.33237°N LONGITUDE: 107.86816°W DATUM: NAD 83

### **ROSETTA RESOURCES OPERATING LP**

TSAH TAH 11 #2
1250' FNL & 1890' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 11,
T24N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6942', NAVD 88
FINISHED PAD ELEVATION: 6941.8', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

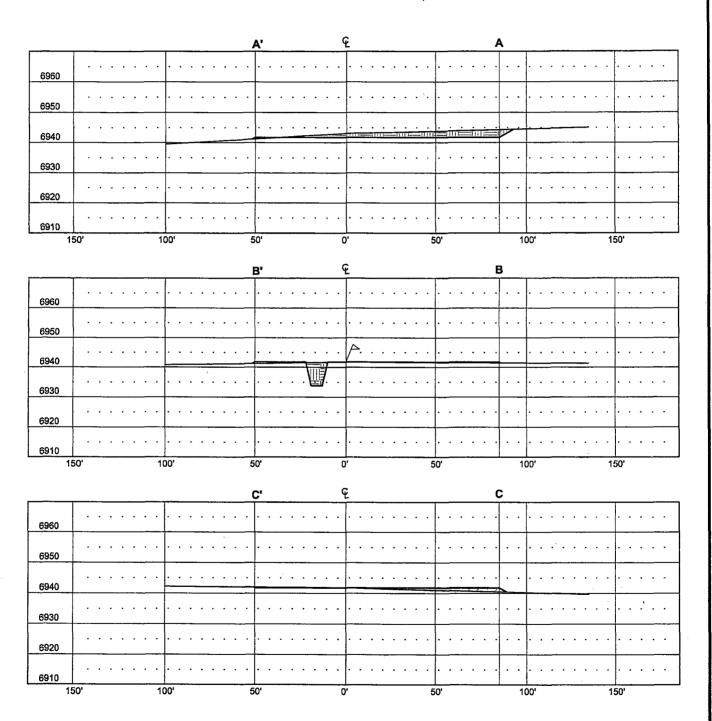
SCALE: 1" = 40' JOB No.: RRO010 DATE: 09/11/06



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

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SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6942', NAVD 88
FINISHED PAD ELEVATION: 6941.8', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: RR0010 DATE: 09/11/06





Russell Surveying 1409 W. Aztec Bivd. #5 Aztec, New Mexico 87410 (505) 334-8637 Rosetta Resources Operating LP Tsah Tah 11 #2 1250' FNL & 1890' FWL Sec. 11, T. 24 N., R. 10 W. San Juan County, New Mexico

# **Drilling Program**

### 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	5'	+6,942'
Fruitland	1,492'	1,497'	+5,450'
Pictured Cliffs	1,792'	1,797'	+5,150'
Lewis Shale	1,867'	1,872'	+5,075'
Total Depth (TD)	, 1,900'	1,905'	+5,034'

# 2. NOTABLE ZONES

Oil & Gas Zones	Water Zone	<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 #2 1250' FNL & 1890' FWL Sec. 11, T. 24 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

<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	LSST&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 cellophane + 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.

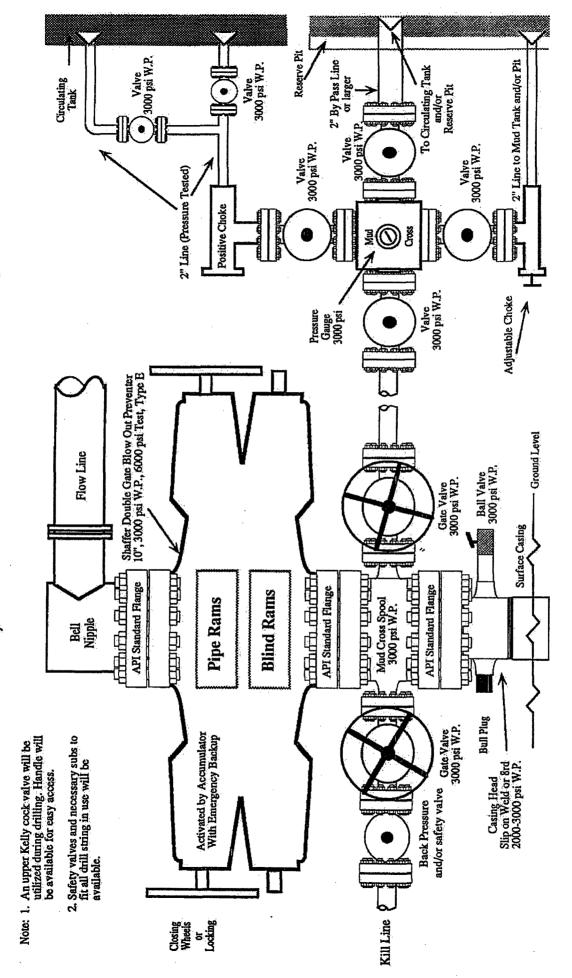
Production casing will be cemented to the surface with  $\approx 348$  cubic feet ( $\approx 295$  sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl<sub>2</sub>. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Five or more centralizers will be used. Volume = 75% excess.

# 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.



# 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.

Rosetta Resources Operating LP Tsah Tah 11 #2 1250' FNL & 1890' FWL Sec. 11, T. 24 N., R. 10 W. San Juan County, New Mexico

# 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  $\leq$ 760 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.

