RECEIVED

Form 3160-3 (April 2004)	MAY 2 9 20	08	FORM APPRO OMB No. 1004 Expires March 3			
DEPARTMENT OF THE	UNITED STATES DEPARTMENT OF THE INTERIORE of Land Management BUREAU OF LAND MANAGEMEN Farmington Field Office					
. ,	APPLICATION FOR PERMIT TO DRILL OR REENTER			6. If Indian, Allotee or Tribe Name N/A		
la. Type of work: DRILL REENTI	ER		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 N WEST BISTI 18 #3		_	
2. Name of Operator ROSETTA RESOURCES OPERATIN	IG LP		9. API Well No. 30-045- 3472	14		
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202	3b. Phone No. (include area code) (720) 359-9144		10. Field and Pool, or Explo BASIN FRUITLA!	•	_	
Location of Well (Report location clearly and in accordance with an At surface 1370' FNL & 1300' FEL At proposed prod. zone SAME	ny State requirements.*)		11. Sec., T. R. M. or Blk.and 18-25N-13W NMP		_	
14. Distance in miles and direction from nearest town or post office* 21 AIR MILES S OF FARMINGTON, NM			12. County or Parish SAN JUAN	13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 1,300'	16. No. of acres in lease 2,136.17		acing Unit dedicated to this well 2 (320 acres)			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,370' (18 #4)	19. Proposed Depth 1,500'		LM/BIA Bond No. on file LM STATE WIDE NMB000371			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,387' GL	22 Approximate date work will sta 08/01/2008	rt*	23. Estimated duration 2 WEEKS		_	
	24. Attachments					
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). Signature 	4. Bond to cover t Item 20 above). Lands, the 5. Operator certific	he operation cation specific info	ormation and/or plans as may	be required by the		
Title CONSULTANT	PHONE: (505) 466-8120	FAX	K: (505) 466-9682	03/20/2003	_	
Approved by (Signatury) Man Ces Cosces	Name (Printed/Typed)		Date	2/23/8		
Title ATM	Office F.J.	Ó		70 51		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	ts in the sub	ject lease which would entitle	the applicant to		
	crime for any person knowingly and	willfully to n	, ,	,		
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	to any matter within its jurisdiction.			CHILDRED A RECORD A		
States any false, fictitious or fraudulent statements or representations as	ZTEC OCD 24		APPROVAL OR AC N DOES NOT RELIE TOR FROM OBTAIN PRIZATION REQUIE DERAL AND INDIAN	EVE THE LESS NING ANY O' RED FOR OPE	SEE A	

HIN 2 5 2009

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

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

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

1000 Rlo Brazos Rd., Aztec, N.M. 87410

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DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 68210

State of New Mexico Energy, Minerals & Natural Resources Department

Pool Code

11 Bottom Hole

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

OIL CONSERVATION DIVISIONMAY 29 2008

1220 South St. Francis Dr.

Santa Fe, NM 87505Bureau of Land Management Farmington Field Office

☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

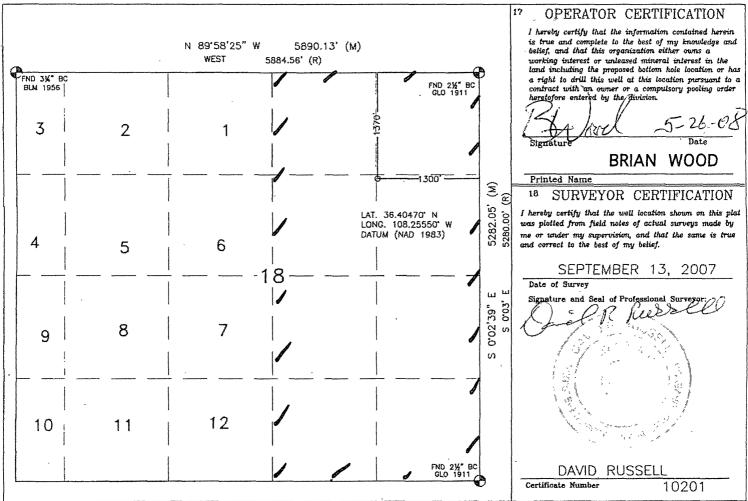
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-34724		4 7	1629		. BASIN FRUITLAND COAL					
Property C			⁵ Property Name				4.1	Well Number		
.37	729		• WEST BISTI 18						• 1	
OGRID No).	······································	Operator Name						⁶ Elevation	
239	235	ROSETTA RESOURCES OPERATING LP						6387'		
					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	
Н	18	25N	13W		1370'	NORTH	1300'	EAST	SAN JUAN	

Feet from the North/South line Feet from the UL or lot no. Section Township Range Lot Idn East/West line County 12 Dedicated Acres 18 Joint or Infill 14 Consolidation Code 15 Order No. 32062

Location If Different From Surface

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



Rosetta Resources Operating LP West Bisti 18 #1 1370' FNL & 1300' FEL Sec. 18, T. 25 N., R. 13 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	KB Depth	<u>Elevation</u>
Nacimiento	0'	5'	+6,387'
Kirtland Shale	662'	667'	+5,725'
Fruitland Coal	1,237'	1,242'	+5,150'
Pictured Cliffs	1,287'	1,292'	+5,100'
Lewis Shale	1,392'	1,397'	+4,995'
Total Depth (TD)	1,500'	1,505'	+4,887'

2. NOTABLE ZONES

Oil & Gas Zones	<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



Rosetta Resources Operating LP West Bisti 18 #1 1370' FNL & 1300' FEL Sec. 18, T. 25 N., R. 13 W. San Juan County, New Mexico

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>	Type	<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	1,500'

Surface casing will be cemented to the surface with ≈ 35 cubic feet (≈ 30 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. 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 eentralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Will use API casing dope.

ioint

Production casing will be cemented to the surface with ≈ 271 cubic feet (≈ 230 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. 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.



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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

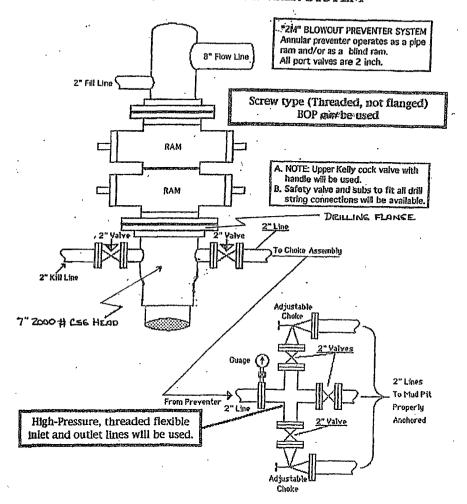
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 600 psi.

8. OTHER INFORMATION

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



"2M" BLOWOUT PREVENTER SYSTEM



Chihuahua Rig #201 BOP Testing Procedure.

Refer to the attached diagram for the bradenhead and BOP configuration. No mud cross will be utilized. The choke manifold will be connected to one side of the bradenhead. Connect the third-party testing company's test truck to the opposite side of the bradenhead.

Kill Line Valve:

Connect the test truck to the kill line valve and pressure test the valve to 250 psig low and 1,000 psig high. Test each pressure for 10 minutes.

Blind Rams

Close the blind rams and open the bradenhead valve to the choke manifold. Have all three of the choke manifold valves closed. Pressure test the blind rams, casing, bradenhead, and choke manifold to 250 psig low and 1,000 psig high. Test each pressure for 30 minutes. A successful test will not have more than a 10% drop during the 30 minute test period.

If the test is successful proceed with the pipe ram test.

If the test is not successful, open the blind rams and install the test plug at the bottom of the bradenhead (the test plug seal is below the two valves on the bradenhead). Close the bradenhead valve to the choke manifold. Pressure test the blind rams and bradenhead to 250 psig low and 1,000 psig high. Open the bradenhead valve to the choke manifold and repeat the test. If theses test fail with no obvious leaks at either the blind rams or the choke manifold, remove the test plug and run a 7" packer into the first joint of casing and repeat both tests. Use caution when pulling the test plug if pressure is trapped below the plug. Recommend closing the pipe rams and opening the bradenhead valve to the choke manifold before trying to pull the test plug.

Pine Rams:

Install the TTW valve on the bottom of one joint of drill pipe. Run the one joint into the well and close the pipe rams. Chain down the joint of drill pipe but leave the top of the pipe open. With the bradenhead valve open and the test truck still connected to the other side of the bradenhead, test the pipe rams to 250 psig low and 1,000 psig high. Hold each pressure for 30 min with no more than a 10% drop during the test period.

Upper Kelly Cock:

Install the TIW valve to the bottom of the Kelly. Install the test truck to the TIW Valve. With the TIW valve closed, pressure test the TIW valve to 250 psig low and 1,000 psig high for 10 minutes. Open and the TIW valve and close the upper Kelly cock. Pressure test the Kelly and upper Kelly cock to 250 psig low and 1,000 psig high. Hold each pressure for 10 minutes with 0% drop during the test.