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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

AUG 2 6 2008

Bureau of Lanu wanage maniff Indian, Allotee or Tribe Name

Lease Serial No. NMNM-114380

APPLICATION FOR PERWIT I	O DRILL OF	REEMPERTON F	rield Offi	æ _{N/A}		
la. Type of work:	7 If Unit or CA Agreement, Name and No. N/A					
lb. Type of Well: Oil Well Gas Well Other	✓ Sin	ngle ZoneMultip	ole Zone	8. Lease Name and Well No WEST BISTI 7 #1	0.	
2. Name of Operator ROSETTA RESOURCES OPERAT	ING LP			9. API Well No. 3477	9	
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202	ľ	. (include area code) 59-9144		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS		
4. Location of Well (Report location clearly and in accordance with At surface 1300' FNL & 1300' FEL	'i any State requirem	ents *)		11. Sec., T. R. M. or Blk. and Survey or Area		
At proposed prod. zone SAME				→ 7-25N-13W NMPM		
14. Distance in miles and direction from nearest town or post office* 20 AIR MILES SOUTH OF FARMINGTON, NM				12. County or Parish SAN JUAN	13. State NM	
15. Distance from proposed* location to nearest	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this well		
property or lease line, ft. (Also to nearest drig. unit line, if any) 1,300'	2,136.17		1	320 acres)		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed 19. Proposed 19. Proposed 19. Proposed 19. Proposed		l Depth		BIA Bond No. on file STATE WIDE NMB00037	71	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,395' GL	,	nate date work will star		23. Estimated duration 2 WEEKS		
	24. Attac				00' 8 VO	
The following, completed in accordance with the requirements of On			ttached to th		MG.DIV.	
 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). 	em Lands, the	Item 20 above). 5. Operator certific	ation specific info	ns unless covered by an existing primation and/or plans as may be	g bond on file (see	
25. Signature		(Printed/Typed)		Date		
Title		BRIAN WOOD			8/21/2008	
CONSULTANT	PHON	E: (505) 466-8120	FAX	K: (505) 466-9682		
Approved by (Signature) Mandeelw	Name	(Printed/Typed)		Date	10/34/09	
Title ATM	Office	FFO		-	(
Application approval does not warrant or certify that the applicant le conduct operations thereon. Conditions of approval, if any, are attached.	iolds legal or equit	table title to those right	ts in the sub	ject lease which would entitle th	ne applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations	a crime for any pe as to any matter w	erson knowingly and within its jurisdiction.				
*(Instructions on page 2) NOTIFY AZ			3. PR	COMPLETE C-144 MUST BE APPROVED BY THE NMOCD LOOP SYSTEM, BELOW (COPOSED ALTERNATIVE ME NMOCD PART 19.15.17, PR	FOR: A PIT, CLOSED GRADE TANK, OR THOD, PURSUANT T	
PRIOR TO C	CASING	& CEME	NI	CONSTRUCTION OF THE AB		

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4

NMOCD

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER **AUTHORIZATION REQUIRED FOR OPERATIONS** ON FEDERAL AND INDIAN LANDS

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

UL or lot no.

Α

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

East/West line

EAST

☐ AMENDED REPORT

County

SAN JUAN

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

Section

7

Township

25N

Range

Lot Idn

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-34	71629	⁶ Pool Name BASIN FRUITLAND COAL				
Property Code	, p	roperty Name G Well Number ST BISTI 7 1				
70GRID No. 239235		perator Name * Elevation OURCES OPERATING LP 6395'				
¹⁰ Surface Location						

13W 1300' NORTH 1300'

Feet from the

North/South line

Feet from the

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		20	13 Joint or	Infill	¹⁴ Consolidation C	Code	¹⁵ Order No.		`

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

						·
Ι.	FND 21/8" B	c N 89*57	7'36" W	5870.68' (M)		17 OPERATOR CERTIFICATION
	3	wesi	1	LAT. 36.41940' N LONG. 108.25574' W DATUM (NAD 1983)	2641.50' (M) 27Y3 dd	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom halo location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.
	4	5	6		0'00'23" E 6	Signature Date BRIAN WOOD Printed Name
				2	FND 2½" BC GLO 1911	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown 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.
	9	8	7	/		AUGUST 10, 2007 Date of Survey Signature and Seal of Professional Surveyor:
*	10	11	12			TOZOL TOZOL BOLDAN
	Log cope que man				,	DAVID RUSSELL Certificate Number 10201

Rosetta Resources Operating LP West Bisti 7 #1 1300' FNL & 1300' FEL Sec. 7, T. 25 N., R. 13 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,395'
Fruitland Formation	935'	940'	+5,460'
Pictured Cliffs	1,360'	1,365'	+5,035'
Lewis Shale	1,475'	1,480'	+4,920'
Total Depth (TD)	1,500'	1,505'	+4,895'

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 use when kelly is not in use.



Rosetta Resources Operating LP West Bisti 7 #1 1300' FNL & 1300' FEL Sec. 7, T. 25 N., R. 13 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	1,500'

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 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 ≈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

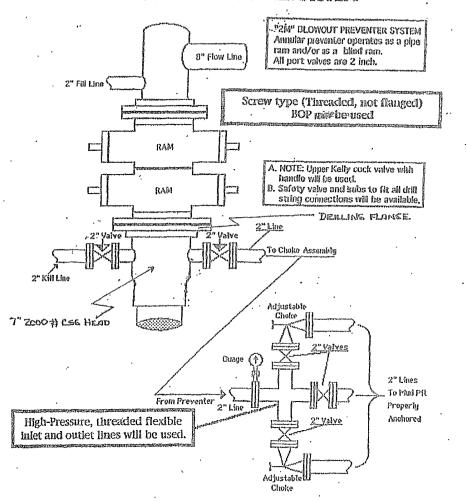
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 600 psi.

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 easing 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.

Pipe Rams:

Install the TIW 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 Kolly. 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.