Form 3160 -3 (April 2004) RECEIVED

SEP 1 0 2008

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

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT OF Land Management

5.	Lease Serial No.
	NMNM-114380

7 If Unit or CA Agreement, Name and No. N/A 8. Lease Name and Well No. WEST BISTI 6 #4 9 API Well No. 30-045-34788 10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS 11. Sec., T. R. M. or Blk. and Survey or Area
Zone WEST BISTI 6 #4 9 API Well No. 34-788 10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS
30-045- 347/88 10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS
BASIN FRUITLAND COAL GAS
11. Sec., T. R. M. or Blk. and Survey or Area
₱ 6-25N-13W NMPM
12 County or Parish 13. State SAN JUAN NM
LOTS 1 & 2, S2NE4, and SE4 (= 319.67 acres)
BLM/BIA Bond No. on file BLM STATE WIDE NMB000371
23. Estimated duration 2 WEEKS
RCVD MAY 21 '10 hed to this form:
operations unless covered by an existing bond on file (see DIST. 3 cific information and/or plans as may be required by the
Date 09/06/2008
FAX: (505) 466-9682
Date /17/202
n the subject lease which would entitle the applicant to
!

*(Instructions on page 2)

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".

NMOCD 17

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENTS

ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER **AUTHORIZATION REQUIRED FOR OPERATIONS**

ON FEDERAL AND INDIAN LANDS
A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19:15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS. 1625 N. French Dr., Hobbs, N.M. 68240

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

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

OIL CONSERVATION DIVISION VED 1220 South St. Francis_Dr. 1 0 2008 Santa Fe, NM 87505. 7 1 0 2008

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

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

Bureau of Land Management

☐ AMENDED REPORT

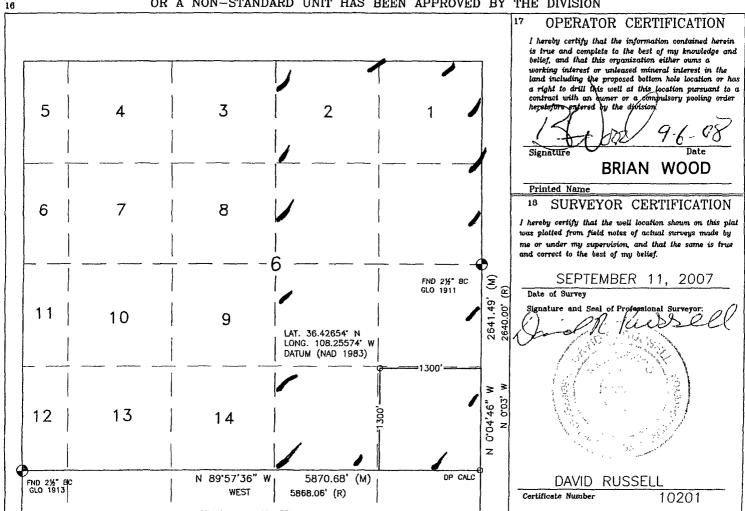
WELL LOCATION AND ACREAGESIDEDICATION PLAT

% 71629	BASIN FRUITLAND CO	IAL
		⁶ Well Number
· WES	ST BISTI 6	• 4
⁸ Ope	rator Name	^o Elevation
. ROSETTA RESOL	JRCES OPERATING LP	6409'
-	• WES	Property Name WEST BISTI 6 Operator Name ROSETTA RESOURCES OPERATING LP

	P P	Section 6	Township 25N	Kange 13W	Lot idn	1300'	North/South line SOUTH	feet from the 1300'	East/West line EAST	SAN JUAN
_	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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 18 Joint or Infill			infil)	14 Consolidation C	ode.	15 Order No.	5 Ondan No.		
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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 6 #4 1300' FSL & 1300' FEL Sec. 6, T. 25 N., R. 13 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	Elevation
Nacimiento	0'	5'	+6,409'
Fruitland Coal	1,309' ່	1,314'	+5,100'
Pictured Cliffs	1,409'	1,414'	+5,000'
Lewis Shale	1,534'	1,539'	+4,875'
Total Depth (TD)	1,600'	1,605'	+4,809'

2. NOTABLE ZONES

Oil & Gas Zones	<u>Water Zone</u>	Coal Zone
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.



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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	1,600'

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.

Production casing will be cemented to the surface with ≈ 289 cubic feet (≈ 245 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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PAGE 4

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

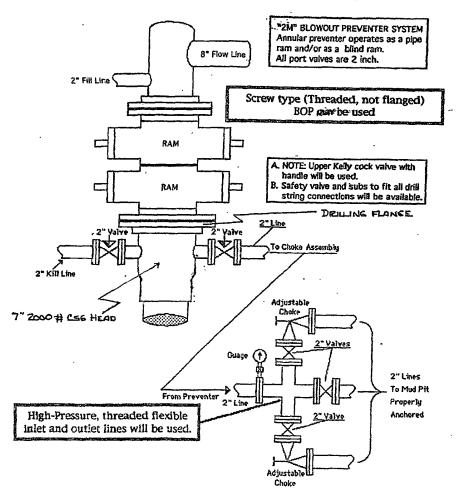
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be \leq 640 psi.

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.

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 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.