

JAN 13 2010

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7 If Unit or CA Agreement, Name and No. N/A <i>Neub CA</i>	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8 Lease Name and Well No. BLACKIE 25 #4	
2. Name of Operator ROSETTA RESOURCES OPERATING LP		9. API Well No. 30-045-35091	
3a. Address 717 TEXAS AVE., SUITE 2800 HOUSTON, TX 77002		3b. Phone No. (include area code) (713) 335-4104	
4. Location of Well (Report location clearly and in accordance with any State requirements*) At surface 1605' FSL & 1175' FEL At proposed prod. zone SAME		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS	
14. Distance in miles and direction from nearest town or post office* 13 AIR MILES WNW OF NAGEEZI, NM		11 Sec, T, R, M or Blk. and Survey or Area 25-24N-11W NMPM	
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 1035'		12. County or Parish SAN JUAN	
16. No. of acres in lease 160		13 State NM	
17. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A		16. No. of acres in lease 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A		17 Spacing Unit dedicated to this well E2 (= 320 acres)	
19. Proposed Depth 1,150'		20. BLM/BIA Bond No. on file BIA NATIONWIDE RLB0011613	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,466' GL		22. Approximate date work will start* 03/31/2010	
23. Estimated duration 2 WEEKS		24. Attachments DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED OTHER FORM REQUIREMENTS*	

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

12/17/2009

FAX: (505) 466-9682

Office

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.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

MAR 3 1 2010

NMCCD

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

French Dr., Santa Fe, NM 87505

District II
1301 W Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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

New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St Francis Dr.
Santa Fe, NM 87505

Revised October 12, 2009

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35091		² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 38090	⁵ Property Name BLACKIE 25		⁶ Well Number 4
⁷ GRID No. 239235	⁸ Operator Name ROSETTA RESOURCES OPERATING LP		⁹ Elevation 6466'

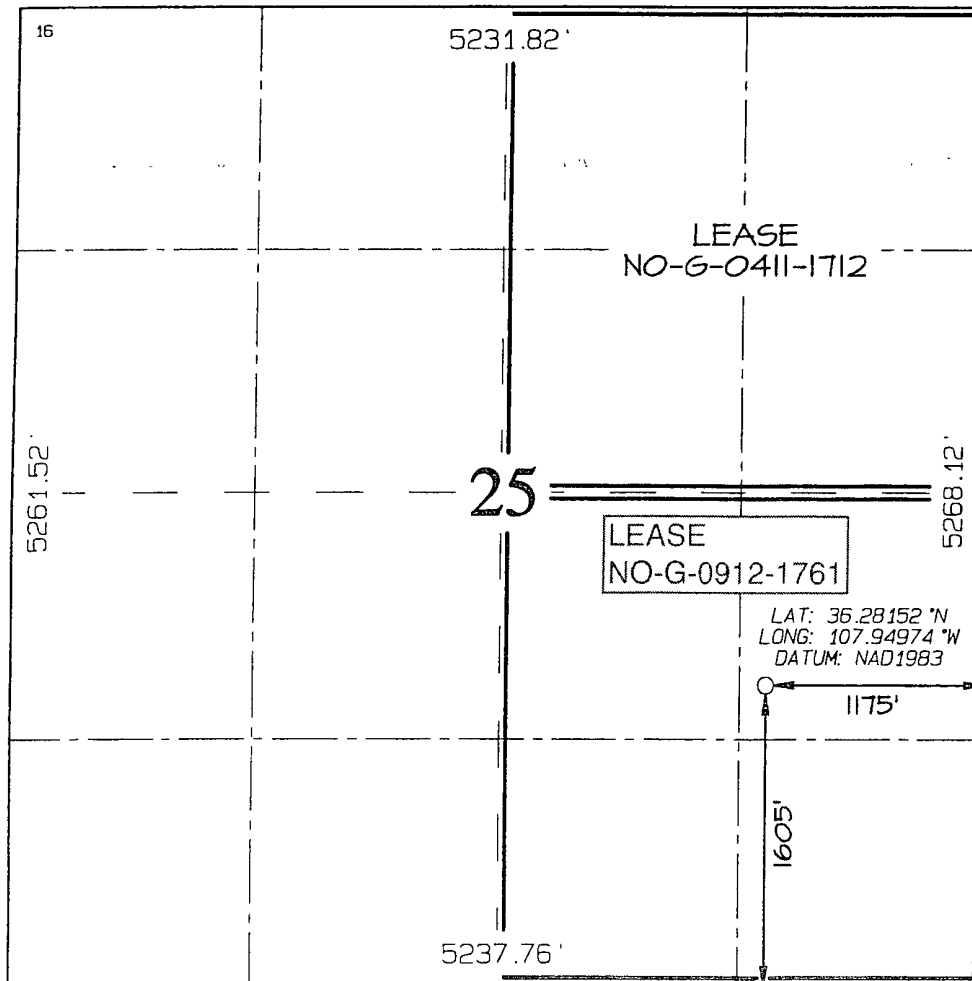
¹⁰ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	24N	11W		1605	SOUTH	1175	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
¹² Dedicated Acres 320.0 Acres - (E/2)					¹³ Joint or Infill	¹⁴ Consolidation Code C	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



¹⁷ OPERATOR CERTIFICATION

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-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

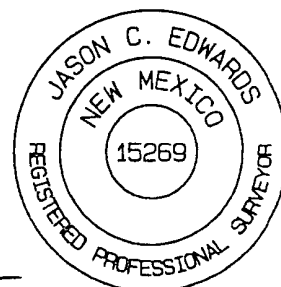
Brian Wood 12-17-09
Signature Date
BRIAN WOOD
Printed Name

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.

Date of Survey: JULY 7, 2009

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269

Rosetta Resources Operating LP
Blackie 25 #4
1605' FSL & 1175' FEL
Sec. 25, T. 24 N., R. 11 W.
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Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,466'
Ojo Alamo	36'	41'	+6,430'
Kirtland	111'	116'	+6,355'
Fruitland Coal	686'	691'	+5,780'
Pictured Cliffs	941'	946'	+5,525'
Total Depth (TD)	1,150'	1,155'	+5,316'

2. NOTABLE ZONES

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

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

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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>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
8-3/4"	7"	23#	J-55	S T & C	New	120'
6-1/4"	4-1/2"	10.5#	J-55	L S S T & C	New	1,150'

Surface casing will be cemented to the surface with ≈ 35 cubic feet (≈ 30 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . 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 ≈ 206 cubic feet (≈ 175 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Three 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 ≤ 460 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈ 10 days to drill and complete the well.

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.

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.

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 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 the test fails 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.

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.

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.

***2" BLOWOUT PREVENTER SYSTEM**
Annular preventer operates as a pipe ram and/or as a blind ram.
All port valves are 2 inch.

Screw type (Threaded, not flanged) BOP may be used

A. NOTE: Upper Kelly cock valve with handle will be used.
B. Safety valve and subs to fit all drill string connections will be available.

DRILLING FLANGE

8" Flow Line
2" Fill Line
RAM
RAM
2" Valve
2" Kill Line
7" 2000 # C56 HEAD
2" Line
To Choke Assembly
Adjustable Choke
2" Valves
Quage
From Preventer
2" Line
Adjustable Choke
2" Lines To Mud Pit Properly Anchored

High-Pressure, threaded flexible inlet and outlet lines will be used.