| Subrifit 3 Copies To Appropriate District Office | State of New Me | exico | Form C-103 | | | |
|--|--|--|--|--|--|--|
| District I | Energy, Minerals and Natu | ıral Resources | May 27, 2004 | | | |
| 1625 N. French Dr., Hobbs, NM 88240 District II | | , | WELL API NO. 30-045-23721 | | | |
| 1301 W. Grand Ave., Artesia, NM 88210 | OIL CONSERVATION | | 7. Indicate Type of Lease | | | |
| <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 | 1220 South St. Fran | | STATE FEE | | | |
| District IV | Santa Fe, NM 8' | 7505 | 7. State Oil & Gas Lease No. | | | |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | | | | | | |
| | CES AND REPORTS ON WELLS | 3 7 | . Lease Name or Unit Agreement Name | | | |
| (DO NOT USE THIS FORM FOR PROPOS | SALS TO DRILL OR TO DEEPEN OR PL | UG BACK TO A | _ | | | |
| DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.) | CATION FOR PERMIT" (FORM C-101) F | | Russell LS . Well Number | | | |
| 1. Type of Well: Oil Well 🔲 C | Gas Well 🛛 Other 🔲 | ľ | 5A | | | |
| 2. Name of Operator | | 9 | OGRID Number | | | |
| BP America Production Compan | y - Attn: Cherry Hlava | | 000778 | | | |
| 3. Address of Operator P.O. Box 3092 Houston, TX 773 | 252 | 1 | O. Pool name or Wildcat Blanco Mesaverde/Otero Chacra | | | |
| | 255 | | Sianco Mesaverde/Otero Chacra | | | |
| 4. Well Location | Office from the South line and | 000 5.45 | the East 1ive | | | |
| | 90 feet from the South line and | | <u> </u> | | | |
| Section 25 | 11 Flourian (Chammbathan DD | | an Juan County | | | |
| | 6212' | GR | | | | |
| Pit or Below-grade Tank Application on | r Closure 🗀 | | But to any 12 min and 12 feet and advantage of the same solved and the fit than a see "fair the fit for the d | | | |
| Pit type Depth to Groundwater | Distance from nearest fresh water | well Distance | e from nearest surface water | | | |
| Pit Liner Thickness: mil B | | | | | | |
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| 12. Check A | Appropriate Box to Indicate N | ature of Notice, Re | eport or Other Data | | | |
| NOTICE OF IN | TENTION TO: | SUBSE | EQUENT REPORT OF: | | | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ☐ ALTERING CASING ☐ | | | |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILL | ING OPNS.□ P AND A □ | | | |
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| PULL OR ALTER CASING | MULTIPLE COMPL. | CASING/CEMENT J | OB | | | |
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District I

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

| District IV | | Santa Fe, NM 87505 | | | | | | | | | |
|-----------------------|---------------------------------|--------------------|--------------|-----------|-------------------------|------------------------|---------------|------------------------|--------------------------|--|--|
| 1220 S. St. Franci | is Dr., Santa I | Fe, NM 87505 | | | | | | ☐ AM | ENDED REPORT | | |
| | | W | ELL LC | CATIO! | N AND ACR | EAGE DEDICA | ATION PLAT | Γ | | | |
| API Number Pool Code | | | | | e | ³ Pool Name | | | | | |
| 30 | 30-045-23721 82329 Otero Chacra | | | | | | | | | | |
| ⁴ Property | Code | | | | ⁵ Property N | lame | | • | ⁶ Well Number | | |
| 1000 | 1000 Russell LS | | | | | | 5A | | | | |
| OGRID ' | No. | | | | 8 Operator N | lame | | | · Elevation | | |
| 000778 | 8 | j J | | BP A | America Produc | tion Company | | | 6212' | | |
| | | | | | ¹⁰ Surface I | ocation | | • | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | 1 | North/South line | Feet from the | East/West line | County | | |
| I | 25 | 28N | 8W | ' | 1790 | South | 990 | East | San Juan | | |
| | | | 11 Bc | ottom Ho | le 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 RCVD | MAY1'07 County | | |
| TZ Dedicated Acr | res 13 Joint c | or Infill 14 C | onsolidation | Code 15 O | order No. | • | • | OIL C | ONS. DIV. | | |
| 160 | | | | 1 | | | | D | IST. 3 | | |

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.

| 16 | | | 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. |
|----|--|-------|--|
| | | | Cherry Hlava Signature Date Cherry Hlava 04/24/2007 Printed Name |
| | | 990' | 18SURVEYOR 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. ON FILE Date of Survey |
| | | 1790' | Signature and Seal of Professional Surveyor: 3950 Certificate Number |

San Juan Basin Downhole Commingling Procedure

Well Name: Russell A 5A
Date: April 23, 2007
Repair Type: Recompletion

Objective: Perforate and frac Chacra, and downhole co-mingle Chacra, and Mesaverde

1. TOH with completion.

2. Perforate and fracture Chacra.

3. Land tbg and return well to production.

4. Downhole co-mingle Chacra, and Mesaverde.

Location:

T28N-R8W-Sec25

API #: 30-045-23721

County: State:

San Juan

New Mexico

Engr: Richard Pomrenke

Horizon:

Mesaverde/Chacra

ph (281) 366-1946

fax (281) 366-0700

Procedure:

- Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other
 operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for
 equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting,
 critical location, check anchors. Check ID wellhead, if earth pit is required have One
 Call made 48 hours prior to digging.
- 2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and Scheduling to ready location for rig.
- 3. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in tubing string.
- 4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
- 5. If bradenhead pressure is observed and does not blow down, we will perform a bradenhead repair after identifying TOC in the 7" casing.
- 6. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.
- 7. Blow down well. Kill with 2% KCL water ONLY if necessary.

- 8. Check all casing strings to ensure no pressure exist on any annulus. The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.
- 9. Nipple down Wellhead. NU 2 3/8" BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
- 10. Install stripping rubber, pull tubing hanger up above pipe rams, and shut pipe rams.

 Remove stripping rubber. Strip tubing hanger out of hole. Re-install stripping rubber.
- 11. TOH with 2-3/8" production tubing currently set at 5350'. Using approved "Under Balance Well Control Tripping Procedure".
- 12. TIH w/ 4 1/2" scrapers. Check the distance between the top of the blind rams and the length of the bottom hole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening bind rams. RIH to PBTD at 5,393'. POOH.
- 13. Set composite bridge plug at 4,300°. Fill casing w/ 2%KCl.
- 14. RU E-line equipment. Pressure test lubricator and equipment. Log well with CBL from 4,300' to surface. If the TOC in the 4 ½" liner is below the TOL, contact engineer to discuss. Upload CBL into Schlumberger system as soon as possible.
- 15. Replace Wellhead if needed.
- 16. TIH with 2 3/8" x 4 ½" test packer on 2 3/8" tubing. Set Packer at +/-3000'
- 17. Pressure test 4 ½" casing down tubing to 2000 psi surface pressure. Note with 2% KCl fluid in the hole, the 4 ½" casing will be tested to approximately 3900 psi.
- 18. Prior to coming out of hole with packer and tubing, spot 400 gallons (9.5 bbls) of 15% HCL from 4000' to 3400'. TOH w/ tubing and packer. Note: Attempt to schedule perforating the same day as acid spotting.
- 19. TOH w/ tubing and packer.
- 20. Prepare for explosive operations. Follow Schlumberger Explosive SOP including radio silence, suspension of welding operations, and isolation of electrical devices from the work area. Perform Pre-job Safety Meeting to review JSA and procedures. Meeting should address the VDR (vehicle data recorder) System that Bp people have installed on their vehicles. They must be shut off at the 300 foot sign by hitting 00 and then the enter button, and then wait for about 5 minutes for the unit to turn off. When the green light goes out, call the control center at 326-9475. This number is on a pickup list in the Optimizer room and should be your first point of contact followed by the front desk then the weekend pager. Verify the unit is not transmitting. You then can drive to location and park, but do not to exceed 10 Miles/hr. Note: 20 MPH will turn unit back on. If someone has On Star on their vehicle they cannot enter closer than 300 foot. On Star cannot be

turned off. PLEASE take special caution. This is in conjunction with all cell phones, pagers, radios and any electronic devise that transmits a signal.

21. RIH with 3-3/8" High Shot Density casing gun loaded with Power Jet charges at 4 SPF 60 Degree Phasing w/lubricator and perforate Chacra formation.

3650-3900 at 4 SPF 60° Phasing.

Exact depths to be determined after fracture treatment modeling completed.

- 22. TIH w/ 3-1/2" N-80 frac string with 2 jt of 2 3/8" N-80 and 4 ½" x 2 3/8" packer. Configure packer assembly as 2 3/8" x 5 ½ (full bore); 2 3/8 down hole shutoff valve. This assembly will be made up and pressure tested in the packer service shop.
- 23. RU 10,000 psi Stinger Isolation Tool (use full bore tool to reduce turbulence and chance for washout). Space out and land frac string at +/- 3000' and set packer.
- 24. Prior to closing the Shut-off valve, establish injection into well and pump minimum of 60 bbls 2%KCl after tubing fill-up. This will thoroughly displace acid to formation and insure that perforations are open. Close shutoff valve. Load tubing and pressure test to approximately 1500 psi with rig pumps. RU test pump and pressure test tubing to 7000 psi for 10-15 minutes.
- 25. RU frac equipment. Purge pumps and pressure test iron to frac valve at 8000 psi. Set pump trips at 5800-6000 psi. Set PRV at 6500 psi. Treat well at a maximum of 5800 psi.
- 26. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line.
- 27. Maintain surface pressures less than 5,800 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 28. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to service company schedule.
- 29. Flowback frac immediately. Flow well through choke manifold on ¼", ½" and ¾" chokes increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.
- 30. Release packer. TOH w/ 3 ½" x 2 3/8" frac string and packer.
- 31. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 4-1/2" casing. Cleanout fill to top of BP set at 4,300'. Perform 8-12 hr well test on Chacra and document well test in DIMS. Contact Cherry Hlava (281-366-4081) after DIMS has been updated.

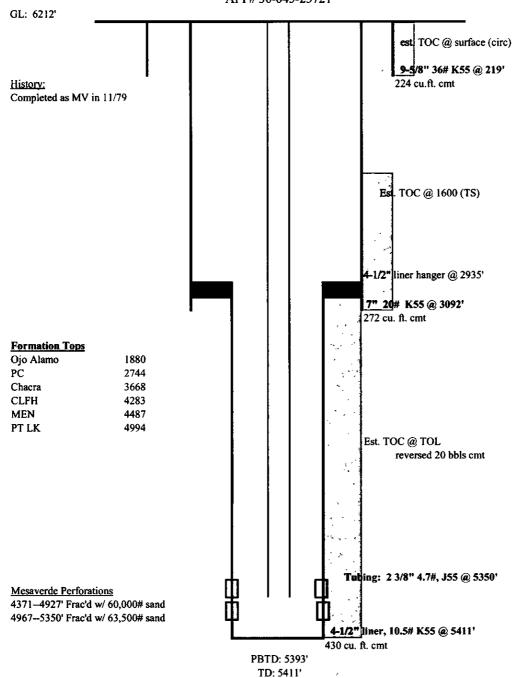
- 32. Cleanout fill and BP set at 4,300'. Cleanout to PBTD at 5,393'. Blow well dry.
- 33. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
- 34. Land 2-3/8" production tubing at +/- 5,300'. Lock down hanger and tubing bonnet.
- 35. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.
- 36. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
- 37. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
- 38. RD slickline unit.
- 39. Test well for air. Return well to production and downhole co-mingle Chacra and Mesaverde.

Richard W. Pomrenke

Production Engineer-Consultant Capital Deployment Well Work WL 19.113 281-366-5023 office 281 455 8449 cell

Russell A 5A

Sec 25, T28N, R8W API # 30-045-23721



NOTES:

updated: 10/13/06 JG

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| MesaVerde | | | <u> </u> | .* | • | | | | | | |
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| Jan-07 | 107.47 | 3.33 | Jul-09 | 92.21 | 2.86 | Jan-12 Feb-12 | 78.85 | 2.44 | Jul-14 | 64.26 | 1.99 |
| Feb-07 | 106.94 | 2.99 | Aug-09 | 91.73 | 2.84 | | 78.46 | 2.28 | Aug-14 | 63.75 | 1.98 |
| Mar-07 | 106.41 | | Sep-09 | 91.26 | 2.74 | Mar-12 | 78.06 77.67 | 2.42 2.33 | Sep-14 | 63.25 62.75 | 1.90 1.95 |
| Apr-07 | 105.87 | 3.18 | Oct-09 | 90.79 | 2.81 | Apr-12 | 77.27 | | Oct-14 | | |
| May-07 | 105.33 | | Nov-09 | 90.33 | 2.71 | May-12 | | 2.40 | Nov-14 | 62.26 61.77 | 1.87 |
| Jun-07 | 104.79 | | Dec-09 | 89.86 | 2.79 2.77 | Jun-12 Jul-12 | 76.88 76.48 | 2.31 | Dec-14 | 61.27 | 1.91 1.90 |
| Jul-07 | 104.25 | | Jan-10 | 89.40 | | | | | Jan-15 | | |
| Aug-07 | 103.71 | | Feb-10 | 88.95 88.51 | 2.49 | Aug-12 | 76.09 75.70 | 2.36 2.27 | Feb-15 Mar-15 | 60.81 60.35 | 1.70 1.87 |
| Sep-07 | 103.18 | | Mar-10 | | 2.74 | Sep-12 | 75.70 75.31 | | | .59.87 | |
| Oct-07 Nov-07 | 102.65 102.13 | 3.16 | Apr-10 | 88.06 87.61 | 2.64 2.72 | Oct-12 Nov-12 | 74.92 | 2.33 2.25 | Apr-15 May-15 | 59.40 | 1.80 1.84 |
| Dec-07 | 102.13 | | May-10 Jun-10 | 87.16 | 2.72 | Dec-12 | 74.92 | 2.23 | Jun-15 | 59.40 58.94 | 1.77 |
| Jan-08 | 100.80 | | Jul-10 | 86.72 | 2.69 | Jan-13 | 73.99 | 2.29 | Jul-15 | 58.47 | 1.81 |
| Feb-08 | 100.30 | 2.91 | Aug-10 | 86.27 | 2.67 | Feb-13 | 73.43 | 2.06 | Aug-15 | 58.01 | 1.80 |
| Mar-08 | 99.79 | 3.09 | Sep-10 | 85.82 | 2.57 | Mar-13 | 72.87 | 2.26 | Sep-15 | 57.55 | 1.73 |
| Apr-08 | 99.28 | | Oct-10 | 85.39 | 2.65 | Apr-13 | 72.30 | 2.17 | Oct-15 | 57.10 | 1.77 |
| May-08 | 98.77 | 3.06 | Nov-10 | 84.95 | 2.55 | May-13 | 71.74 | 2.22 | Nov-15 | 56.65 | 1.70 |
| Jun-08 | 98.27 | 2.95 | Dec-10 | 84.51 | 2.62 | Jun-13 | 71.17 | 2.14 | Dec-15 | 56.21 | 1.74 |
| Jul-08 | 97.77 | 3.03 | Jan-11 | 84.07 | 2.61 | Jul-13 | 70.61 | 2.19 | Jan-16 | 55.61 | 1.72 |
| 4 00 | 27.00 | | Feb-11 | 83.66 | 2.34 | | | 2.17 | Feb-16 | 55.18 | 1.60 |
| Aug-08 Sep-08 | 96.77 | | Mar-11 | 83.24 | 2.58 | Sep-13 | 69.50 | 2.09 | Mar-16 | 54.76 | 1.70 |
| Oct-08 | 96.27 | | Apr-11 | 82.82 | 2.48 | Oct-13 | 68.95 | 2.14 | Apr-16 | 54.33 | 1.63 |
| Nov-08 | 95.78 | | May-11 | 82.40 | 2.55 | Nov-13 | | 2.05 | May-16 | 53.90 | 1.67 |
| Dec-08 | 95.29 | | Jun-11 | 81.97 | 2.46 | Dec-13 | 67.88 | 2.10 | Jun-16 | 53.48 | 1.60 |
| Jan-09 | 95.06 | | Jul-11 | 81.55 | 2.53 | Jan-14 | 67.33 | 2.09 | Jul-16 | 53.06 | 1.64 |
| Feb-09 | 94.59 | | Aug-11 | 81.13 | 2.52 | Feb-14 | 66.82 | 1.87 | Aug-16 | 52.64 | 1.63 |
| Mar-09 | 94.12 | | Sep-11 | 80.72 | 2.42 | Mar-14 | 66.32 | 2.06 | Sep-16 | 52.23 | 1.57 |
| Apr-09 | 93.64 | | Oct-11 | 80.30 | 2.49 | Apr-14 | 65.80 | 1.97 | Oct-16 | 51.82 | 1.61 |
| May-09 | 93.16 | | Nov-11 | 79.89 | 2.40 | May-14 | 65.28 | 2.02 | Nov-16 | 51.41 | 1.54 |
| Jun-09 | 92.68 | | Dec-11 | 79.48 | 2.46 | Jun-14 | 64.77 | 1.94 | Dec-16 | 51.01 | 1.58 |
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