

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO. 30-045-23721
7. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
7. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☒

2. Name of Operator
BP America Production Company - Attn: Cherry Hlava

3. Address of Operator
P.O. Box 3092 Houston, TX 77253

4. Well Location

Unit Letter **I** : **1790** feet from the **South** line and **990** feet from the **East** line
Section **25** Township **28N** Range **08W** NMPM **San Juan** County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6212' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Complete into Chacra & DHC w/Existing MV** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

BP America Production Company requests permission to recomple the subject well into the Otero Chacra Pool and commingle production Downhole with the existing Blanco Mesaverde as per the attached procedure.

The Blanco Mesaverde (72319) and Otero Chacra (82329) Pools are Pre-Approved Pools for Downhole Commingling per NMOCD order R-11363. ~~The working and overriding royalty interest owners in the proposed commingled pools are the same, therefore no additional notification is required.~~ BLM has been notified via FORM 3160-5.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Mesaverde. That production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Chacra. Attached is the future production decline estimates for the Mesaverde. Commingling Production Downhole in the subject well from the proposed Pools with not reduce the value of the total remaining production.

DHC 2591AZ

RCVD MAY 1 07
OIL CONS. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Cherry Hlava* TITLE Regulatory Analyst DATE 04/30/07

Type or print name Cherry Hlava E-mail address: hlavacl@bp.com Telephone No. 281-366-0781 *4081*

For State Use Only

APPROVED BY: *[Signature]* TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3

Conditions of Approval (if any):

DATE MAY 01 2007

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-23721		² Pool Code 82329		³ Pool Name Otero Chacra	
⁴ Property Code 1000		⁵ Property Name Russell LS			⁶ Well Number 5A
⁷ OGRID No. 000778		⁸ Operator Name BP America Production Company			⁹ Elevation 6212'

¹⁰ Surface Location

UL or lot no. I	Section 25	Township 28N	Range 8W	Lot Idn	Feet from the 1790	North/South line South	Feet from the 990	East/West line East	County San Juan
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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 RCVD MAY1'07	County
¹² Dedicated Acres 160		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. OIL CONS. DIV. DIST. 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>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.</i> Cherry Hlava Signature _____ Date _____ Cherry Hlava 04/24/2007 Printed Name	
				¹⁸ SURVEYOR CERTIFICATION <i>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.</i> ON FILE Date of Survey _____ Signature and Seal of Professional Surveyor: 3950 Certificate Number	

B

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:	San Juan		
State:	New Mexico	Engr:	Richard Pomrenke
Horizon:	Mesaverde/Chacra	ph	(281) 366-1946
		fax	(281) 366-0700

Procedure:

1. 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 blind 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 1/2" 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 1/2" test packer on 2 3/8" tubing. Set Packer at +/-3000'
17. Pressure test 4 1/2" casing down tubing to 2000 psi surface pressure. Note with 2% KCl fluid in the hole, the 4 1/2" 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 device 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 1/2" x 2 3/8" packer. Configure packer assembly as 2 3/8" x 5 1/2" (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 1/4", 1/2" and 3/4" 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 1/2" 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 PBTB 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

GL: 6212'

History:

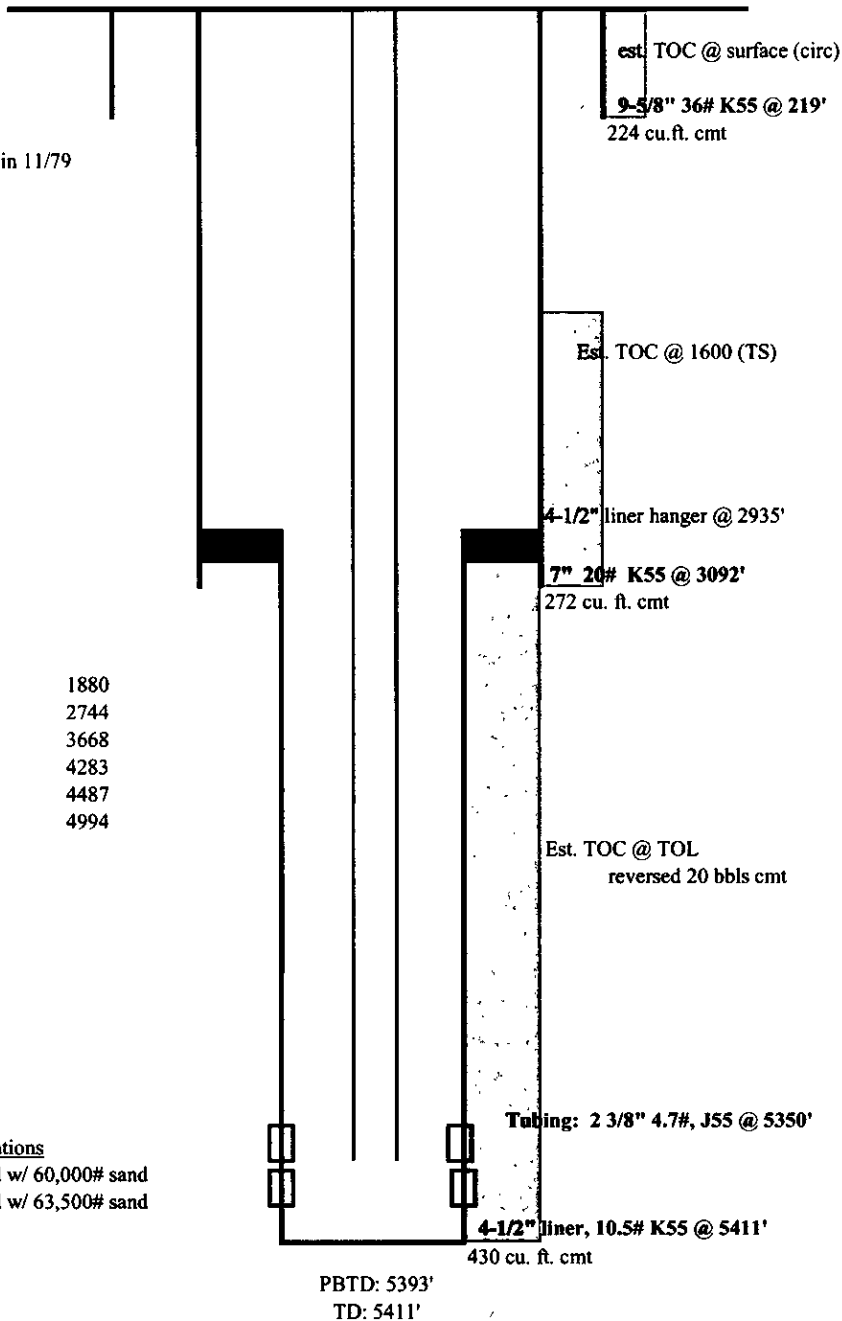
Completed as MV in 11/79

Formation Tops

Ojo Alamo	1880
PC	2744
Chacra	3668
CLFH	4283
MEN	4487
PT LK	4994

Mesaverde Perforations

4371-4927' Frac'd w/ 60,000# sand
4967-5350' Frac'd w/ 63,500# sand



updated: 10/13/06 JG

Russell A 5A											
MesaVerde Formation											
API #	3E+09										
Starting 1/98 thru 11/12											
Exponential Decline											
Qi =	107.7	mcf/d	Jan-07								
Qf =	75.0	mcf/d									
D =	5.95%	per year									
Starting 12/12 thru 4/34											
Exponential Decline											
Qi =	75.0	mcf/d	Dec-12								
Qf =	10.0	mcf/d									
D =	9.00%	per year									