

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  
 June 19, 2008

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

WELL API NO. 30-045-23306
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Eskeenalwood Gas Com <i>B</i>
8. Well Number <i>B1</i>
9. OGRID Number 0778
10. Pool name or Wildcat <i>Basin Dakota</i> / Otero Chacra
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

**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**

3. Address of Operator  
**P.O. Box 3092 Houston, Tx 77253-3092**

4. Well Location  
 Unit Letter A : 990 feet from the FNL line and 990 feet from the FEL line  
 Section 25 Township 28N Range 09W NMPM County San Juan

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	<b>RCVD NOV 5 '08</b>
DOWNHOLE COMMINGLE <input checked="" type="checkbox"/>			<b>OIL CONS. DIV.</b>
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	<b>DIST. 3</b>

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 respectfully request permission to complete into the Otero Chacra (82329) formation and downhole commingle with the existing Dakota formation. The Dakota (71599) & Chacra (82329) are Pre-Approved pools for downhole commingling per NMOCDD order R-11363. The working and overriding royalty interest owners in the proposed pools are identical and therefore no further notification is required.**

**Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Basin Dakota. 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. The DK decline will be filed with the subsequent sundry.**

**Commingling production downhole in the subject well from the proposed pools will not reduce the value of the total remaining production.**

BLM Notified on Form 3160-5 lease 14-20-603-779

*DHC 2955 AZ*

Spud Date:

Rig Release Date:

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

SIGNATURE *Kristen Holder* TITLE Regulatory Analyst DATE 11/04/08

Type or print name Kristen Holder E-mail address: \_\_\_\_\_ PHONE: 281-504-0921

**For State Use Only**

APPROVED BY: *[Signature]* TITLE Deputy Oil & Gas Inspector, District #3 DATE NOV 10 2008

Conditions of Approval (if any):

*B 11/7*

# **SJ Basin Recompletion Procedure**

**30-045-23306**

**Well Name:** Eskeenalwood GC B1  
**Date:** October 30, 2008  
**Location:** Sec 25 T28N R09W  
**Engr:** Matt Mientka (Phone 281.366.5721)

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**Objective: Recomplete well to include Chacra formation and downhole commingle with Dakota.**

1. TOH with completion.
2. Set CIBP to isolate DK.
3. Perforate and frac Chacra
4. Clean out to TD and land tubing.
5. Return well to production, downhole commingle Chacra and Dakota

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**Well History:**

This well has been producing from the Dakota since 1979. The 2-3/8" tubing is landed at 6494' and the well is currently running with a plunger. Today the well produces approximately 45 mcf/d.

The objective is to recomplete this well to include the Chacra sand and commingle with the existing Dakota production. The job scope is to perforate and fracture stimulate the Chacra formation, clean out to TD, and commingle production. The anticipated uplift is 150 mcf/d. A cast iron bridge plug will be set at 5000' to isolate the Dakota throughout the recompletion.

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**Pertinent Information:** Gas BTU content for this well is above 950. Therefore, venting and flaring document needs to be followed.

**Notes :**

Casing data : 4 1/2" production casing, 11.6# K-55 @ 6600' (75% of burst is 4012 psi)

PBTD: 6570'

Vertical well

Well site will require inspection and possible clearing for rig and fracture treatment

Isolation tool (stinger) required for stimulation treatment

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**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. Pressure test lubricator and equipment. RIH and remove plunger equipment. 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. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.
6. Blow down well. Kill with 2% KCL water ONLY if necessary.
7. 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.**
8. Nipple down Wellhead. NU 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.
9. 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.
10. TOH with 2-3/8" production tubing currently set at 6494'. Using approved "Under Balance Well Control Tripping Procedure". Visually inspect tubing while POOH, note any signs of pitting or corrosion and please document with pictures. Strap tubing out of hole. Recover isolation plugs from tubing.
11. TIH with 4-1/2" bit and scraper. 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 and scrape pipe to 5000' POOH. Lay down bit and scraper.
12. Pick up CIBP and TIH. Set plug at +/- 5000'. Pressure test bridge plug to ensure it is holding. Fill casing w/ 2% KCl. POOH.
13. RU E-line equipment. Pressure test lubricator and equipment.
14. **Log well w/ CBL from 5000' to surface.** Contact engineer after determining TOC in 4 1/2" casing to discuss perforation placement or need for remedial cement squeeze if cement coverage is inadequate for the pay-add or if integrity of casing appears sub-par. Contact operations geologist, Mark Durio, for final perf interval selection from the RST.
15. Pressure test 4 1/2" casing to ~3200 psi downhole pressure, ~1000 psi at surface. Pick up packer and isolate any leaks if necessary.
16. 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. 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.

17. RIH with **3-1/8" HEG Casing Gun at 4 SPF 120 deg phasing.**

**Perforated intervals will be:  
Verify final perf intervals with engineer/geologist.**

18. POOH with perforating gun
19. Hold Risk Assessment (JHA) meeting prior to initiating pumping services.
20. RU 10,000 psi frac isolation equipment (Stinger Isolation Tool).
21. RU service company frac equipment.
22. Pressure test iron to Stinger frac valve at 5000 psi for 10 minutes. Function test treating line check valve during the prime and pressure test operation.
23. The frac is expected to pump at approximately 3000 psi. Maximum allowable treating pressure will be **3200 psi**.
24. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line.
25. Flowback frac immediately. Flow well through choke manifold on 1/8", 1/4", 1/2", and 3/4" chokes slowly increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.
26. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from Air Company).
27. TIH w/ tubing and bit for 4-1/2" casing. Cleanout fill. Drill out CIBP set at 5000'. Cleanout to PBTD at 6570'. Blow well dry.
28. RIH with 2-3/8" production tubing (with wireline entry guide, F-nipple with plug, 4 ft pup, X-nipple with plug).
29. Land 2-3/8" production tubing at +/- 6454' or depth determined from logs. Lock down 2-3/8" tubing hanger and bonnet.
30. 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 BOP's and installation of wellhead will be performed under a dispensation for one (1) barrier on the backside.**
31. 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.

32. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs. Set tubing stop for plunger and communicate plunger equipment status to IC room personnel.
33. RD WL unit.
34. Test well for air. Hook up well to surface facilities and return well to production and downhole commingle Mesa Verde and Dakota.

***Matthew Mientka***

Production Engineer

Office: 281-366-5721

Email: [Matt.mientka@bp.com](mailto:Matt.mientka@bp.com)

**Wellbore Diagram:**



**WELL NAME:** Eskeenalwood GC #B1  
**LOCATION:** 990' FNL x 990' FEL Unit A  
**SEC/TWN/RNG:** 25 T28N R09W  
**COUNTY, ST:** San Juan Co., NM  
**WELL TYPE:** Gas  
**BP WI:** 100.0% NRI: 87.5%  

BCPD	BWPD	MCFD
		3,116

**SPUD DATE:** 02/01/79  
**RIG REL:** 03/03/79  
**COMP DATE:** 03/20/79  
**FORMATION:** Dakota  
**API#:** 3004523306

**INTERMEDIATE CASING DESIGN**

7" K-55 20 #/ft  
 SET @ 2350'  
**CEMENT W/** 375 sx Class 'B' 50.50 Poz, 6% gel,  
 0.5% Fluid loss add and 10#/sx Gelsonite  
**TAIL IN W/** 100 sx Class 'B' Neat, w/ 2% CaCl

**PRODUCTION CASING DESIGN**

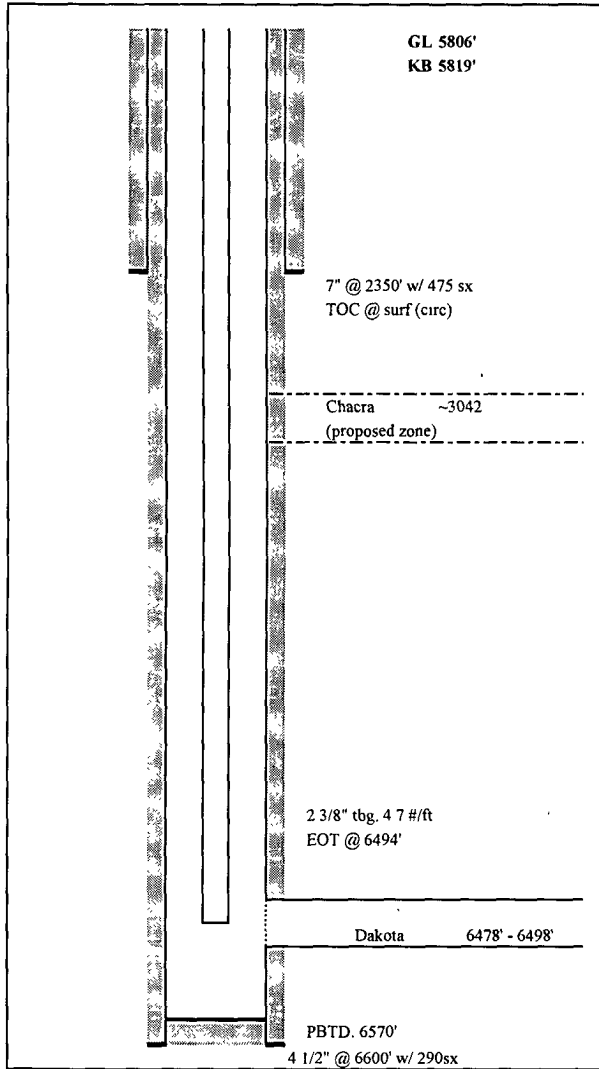
4 1/2" K-55 11 6#/ft  
 SET @ 6600'  
**CEMENT W/** 190 sx Class 'B' 50.50 Poz, 6% gel,  
 0.8% Fluid loss add., 2# tuf plug  
**TAIL IN W/** 100 sx Class 'B' Neat, w/ 8% Fluid loss add  
**CMT TOP @** Surface  
**DETER. BY** Circ

**PERF. DATA:**      **SPF**      **FORM.**  
 6478' - 6498'      2      Dakota

**TUBING DATA**

2 3/8" J-55 4 7 #/ft  
 SET @ 6,494  
**PACKER**  
**S.N ID / @**

**Eskeenalwood GC #B1**



**FRAC JOB:** (1) - 36,050# w/ 56,000 gal 2% KCL, surf, 25ppt aqueal and 146929 SCF N2

**NOTES:** 03-2005, wireline tagged broken plunger in the hole @ 6473'  
 MV was changed out and plunger was left in hole. 04-2005, successfully fished broken plunger. New plunger installed.

**Prepared By:** Matt Mientka  
**Date:** 24-Jul-07

District I

1625 N French Dr , Hobbs, NM 88240  
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District II

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District III

1000 Rio Brazos Rd , Aztec, NM 87410  
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District IV

1220 S St Francis Dr , Santa Fe, NM 87505  
Phone (505) 476-3470 Fax (505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**

**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-102  
Permit 84577

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <b>30-045-23306</b>	2 Pool Code 82329	3 Pool Name OTERO CHACRA (GAS)
4 Property Code 478	5 Property Name ESKEENALWOOD GAS COM B	6 Well No 001
7 OGRID No 778	8 Operator Name BP AMERICA PRODUCTION COMPANY	9. Elevation 5806

**10. Surface Location**

UL - Lot A	Section 25	Township 28N	Range 09W	Lot Idn	Feet From 990	N/S Line N	Feet From 990	E/W Line E	County SAN JUAN
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**11. Bottom Hole Location If Different From Surface**

UL - Lot	Section 25	Township 28N	Range 09W	Lot Idn	Feet From 990	N/S Line N	Feet From 990	E/W Line E	County SAN JUAN
12 Dedicated Acres 160.00		13 Joint or Infill		14 Consolidation 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**

	<p><b>OPERATOR CERTIFICATION</b></p> <p><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(s) 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></p> <p>E-Signed By: <i>Kristin Holden</i> Title: <i>Regulatory Analyst</i> Date: <i>11/4/08</i></p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p><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></p> <p>Surveyed By: Fred Kerr Date of Survey: 11/30/1978 Certificate Number: 3950</p>

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-124  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

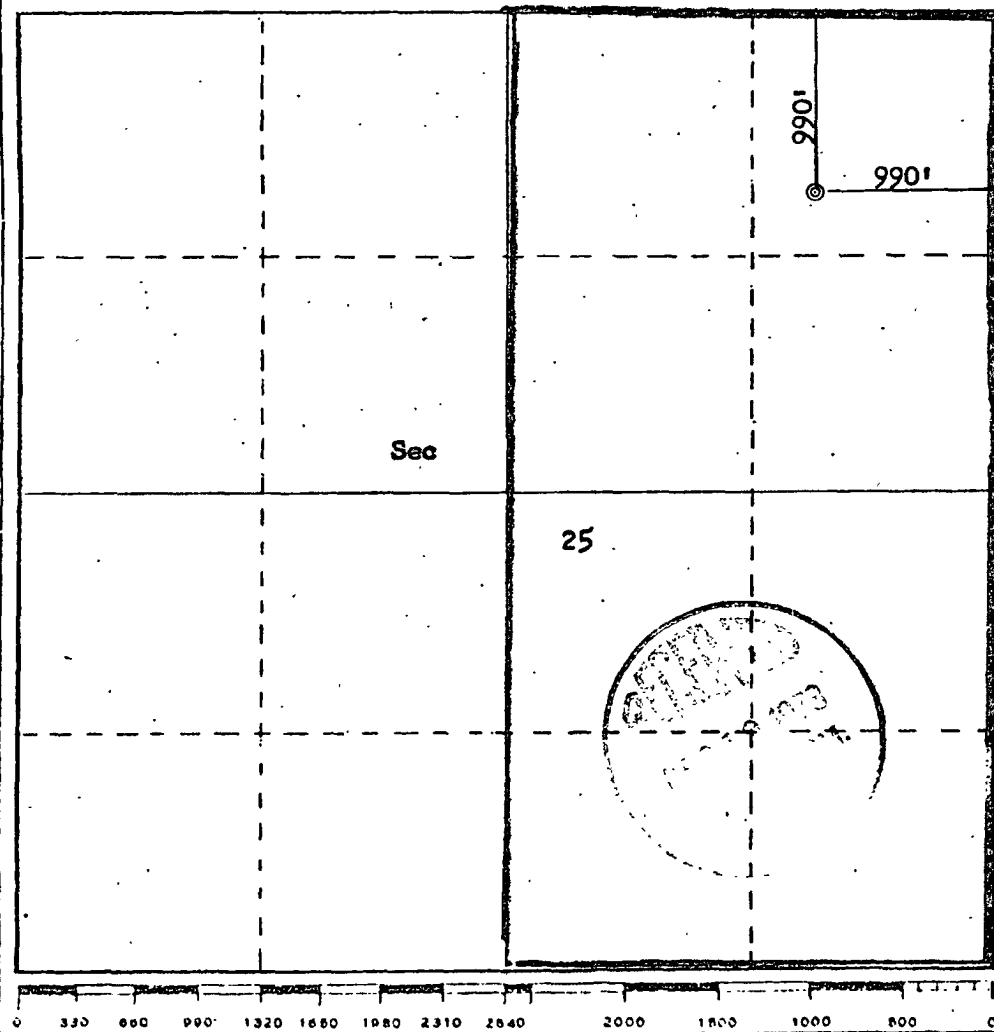
Operator <b>AMOCO PRODUCTION COMPANY</b>		Lease <b>ESKEENALWOOD GAS COM "B"</b>		Well No. <b>1</b>
Unit Letter <b>A</b>	Section <b>25</b>	Township <b>28N</b>	Range <b>9W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>990</b> feet from the <b>North</b> line and <b>990</b> feet from the <b>East</b> line				
Ground Level Elev. <b>5806</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b>	Dedicated Acreage <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

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

*J. L. Krupka*  
Name  
**J. L. KRUPKA**  
Position  
**DISTRICT ENGINEER**  
Company  
**AMOCO PRODUCTION COMPANY**  
Date  
**DECEMBER 6, 1978**

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 knowledge and belief.

Date Surveyed  
**November 30, 1978**

REGISTERED SURVEYOR  
STATE OF NEW MEXICO  
*Fred B. Kerr, Jr.*  
3950  
**FRED B. KERR, JR.**