DATE IN 09. March. 07	SUSPENSE	ENGINEER W. Jones	LOGGED IN 09. March. 07	TYPE DHC	APP NO. pCLP0707125720

ABOVE THIS LINE FOR DIVISION USE ONLY

3864

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

2007 MAR 9 AM 10 38

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Cherry Hlava	Cherry Hlava	Regulatory Analyst	03/09/2007
Print or Type Name	Signature	Title	Date

hlavacl@bp.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
Pools
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-107A
Revised May 15, 2000

APPLICATION TYPE
_X_ Single Well
___ Establish Pre-Approved

EXISTING WELLBORE
_X_ Yes ___ No

APPLICATION FOR DOWNHOLE COMMINGLING

DHC-3864

BP America Production Company Operator — **P. O. Box 3092 Houston, TX 77253** Address

Tapp LS 3 Lease — **Unit L Section 15 T28N, R08W** Unit Letter-Section-Township-Range — **San Juan** County

OGRID No. **000778** Property Code **001161** API No. **30-045-07425** Lease Type: **X** Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE South Pool	INTERMEDIATE ZONE ✓	LOWER ZONE ✓
Pool Name	**Blanco Pictured Cliffs**	**Otero Chacra**	**Blanco Mesaverde**
Pool Code	~~72359~~ 72439	82329 ✓	72319 ✓
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	**2316' – 2406'**	**To Be Determined**	**3982' – 4650'**
Method of Production (Flowing or Artificial Lift)	**Artificial Lift**	**Artificial Lift**	**Artificial Lift**
Bottomhole Pressure	**425**	**439**	**590**
Oil Gravity or Gas BTU (Degree API or Gas BTU)	**1252**	**975**	**1252**
Producing, Shut-In or New Zone	**Producing**	**New Zone**	**Producing**
Date and Oil/Gas/Water Rates of Last Production.	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Allocation Percentage	Oil % Gas %	Oil % Gas %	Oil % Gas %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes_X_ No_____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes_____ No_____

Are all produced fluids from all commingled zones compatible with each other? Yes_X_ No_____

Will commingling decrease the value of production? Yes_____ No_X_

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes_X_ No_____

NMOCD Reference Case No. applicable to this well: _____

Attachments:
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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 **12/29/2006**

TYPE OR PRINT NAME **Cherry Hlava** TELEPHONE NO. **(281) 366-4081**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-07425	82329	Otero Chacra

[4] Property Code	[5] Property Name	[6] Well Number
001161	Tapp LS	3

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	5849'

[10] Surface Location

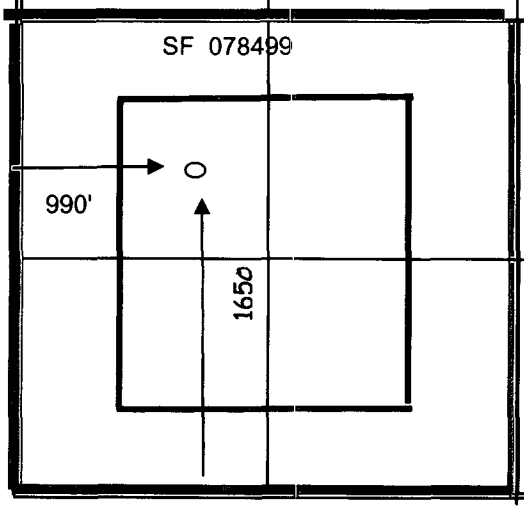
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
L	15	28N	08W		990	West	1650	South	San Juan

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
160			

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.

Signature: Cherry Hlava

Printed Name: Cherry Hlava

Title: Regulatory Analyst

Date: 12/28/2006

[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.

On File

Date of Survey

Signature and Seal of Professional Surveyor:

Fred B Kerr 3950

Certificate Number

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, 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

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

Form C-103
Revised March 25, 1999

WELL API NO. 30-045-07425

5. Indicate Type of Lease STATE FEE

6. 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.)

7. Lease Name or Unit Agreement Name: **Tapp LS**
(Also filed on BLM Form 3160-5 Federal Lease SF - 079319)

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

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

8. Well No. **3**

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

9. Pool name or Wildcat **Chacra/Blanco Mesaverde/PC**

4. Well Location

Unit Letter **L** **990** feet from the **West** line and **1650** feet from the **South** line

Section **15** Township **28N** Range **08W** NMPM **San Juan** County

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐	
OTHER: **Downhole Tri-Commingle** ☒		OTHER: ☐	

12. 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 recompilation.

BP America Production Company request permission to add the Otero Chacra, and commingle production downhole with the existing Blanco Pictured Cliffs & Blanco Mesaverde Pools as per the attached procedure.

The Blanco Pictured Cliffs (72359) & the Blanco Mesaverde (72319) Pools are Pre-Approved Pools for Downhole Commingling per NMOCD order R-11363.

The working, overriding, and royalty interest owners in the proposed commingled pools are identical; therefore, no notification of this application need be submitted via certified mail.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the PC & MV pools. Please see the attached decline production.

Commingling Production Downhole in the subject well from the proposed Pools with not reduce the value of the total remaining production.

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 **03/09/2007**

Type or print name **Cherry Hlava** Telephone No. **281-366-4081**

(This space for State use)

APPPROVED BY _____ TITLE _____ DATE _____

Conditions of approval, if any:

Tapp LS 3												
Pictured Cliffs Formation												
API # 30-045-07425												
Starting 1/04 thru 8/21												
Exponential Decline												
Qi = 30.45 mcfd		1-Jul-2006										
Qf = 2.34 mcfd												
D = 12.72% per year												
Date	Gas Rate mcf/d	Gas Volume MMSCF		Date	Gas Rate mcf/d	Gas Volume MMSCF		Date	Gas Rate mcf/d		Date	Gas Rate mcf/d
Jan-06	31	1		Dec-09	19	1		Nov-13	11		Oct-17	7
Feb-06	29	1		Jan-10	19	1		Dec-13	11		Nov-17	6
Mar-06	16	1		Feb-10	19	1		Jan-14	11		Dec-17	6
Apr-06	19	1		Mar-10	18	1		Feb-14	11		Jan-18	6
May-06	31	1		Apr-10	18	1		Mar-14	11		Feb-18	6
Jun-06	33	1		May-10	18	1		Apr-14	11		Mar-18	6
Jul-06	30	1		Jun-10	18	1		May-14	10		Apr-18	6
Aug-06	30	1		Jul-10	18	1		Jun-14	10		May-18	6
Sep-06	30	1		Aug-10	17	1		Jul-14	10		Jun-18	6
Oct-06	29	1		Sep-10	17	1		Aug-14	10		Jul-18	6
Nov-06	29	1		Oct-10	17	1		Sep-14	10		Aug-18	6
Dec-06	29	1		Nov-10	17	1		Oct-14	10		Sep-18	6
Jan-07	28	1		Dec-10	17	1		Nov-14	10		Oct-18	6
Feb-07	28	1		Jan-11	16	1		Dec-14	10		Nov-18	6
Mar-07	28	1		Feb-11	16	0		Jan-15	10		Dec-18	6
Apr-07	27	1		Mar-11	16	1		Feb-15	9		Jan-19	6
May-07	27	1		Apr-11	16	0		Mar-15	9		Feb-19	5
Jun-07	27	1		May-11	16	0		Apr-15	9		Mar-19	5
Jul-07	26	1		Jun-11	16	0		May-15	9		Apr-19	5
Aug-07	26	1		Jul-11	15	0		Jun-15	9		May-19	5
Sep-07	26	1		Aug-11	15	0		Jul-15	9		Jun-19	5
Oct-07	26	1		Sep-11	15	0		Aug-15	9		Jul-19	5
Nov-07	25	1		Oct-11	15	0		Sep-15	9		Aug-19	5
Dec-07	25	1		Nov-11	15	0		Oct-15	9		Sep-19	5
Jan-08	25	1		Dec-11	14	0		Nov-15	9		Oct-19	5
Feb-08	24	1		Jan-12	14	0		Dec-15	8		Nov-19	5
Mar-08	24	1		Feb-12	14	0		Jan-16	8		Dec-19	5
Apr-08	24	1		Mar-12	14	0		Feb-16	8		Jan-20	5
May-08	24	1		Apr-12	14	0		Mar-16	8		Feb-20	5
Jun-08	23	1		May-12	14	0		Apr-16	8		Mar-20	5
Jul-08	23	1		Jun-12	14	0		May-16	8		Apr-20	5
Aug-08	23	1		Jul-12	13	0		Jun-16	8		May-20	5
Sep-08	22	1		Aug-12	13	0		Jul-16	8		Jun-20	5
Oct-08	22	1		Sep-12	13	0		Aug-16	8		Jul-20	5
Nov-08	22	1		Oct-12	13	0		Sep-16	8		Aug-20	4
Dec-08	22	1		Nov-12	13	0		Oct-16	7		Sep-20	4
Jan-09	22	1		Dec-12	13	0		Nov-16	7		Oct-20	4
Feb-09	21	1		Jan-13	13	0		Dec-16	7		Nov-20	4
Mar-09	21	1		Feb-13	12	0		Jan-17	7		Dec-20	4
Apr-09	21	1		Mar-13	12	0		Feb-17	7		Jan-21	4
May-09	21	1		Apr-13	12	0		Mar-17	7		Feb-21	4
Jun-09	20	1		May-13	12	0		Apr-17	7		Mar-21	4
Jul-09	20	1		Jun-13	12	0		May-17	7		Apr-21	4
Aug-09	20	1		Jul-13	12	0		Jun-17	7		May-21	4
Sep-09	20	1		Aug-13	12	0		Jul-17	7		Jun-21	4
Oct-09	19	1		Sep-13	11	0		Aug-17	7		Jul-21	4
Nov-09	19	1		Oct-13	11	0		Sep-17	7		Aug-21	4

Tapp LS 3
MesaVerde Formation
API # 30-045-07425

Starting 1/04 thru 12/21
Exponential Decline
Qi = 117.3 mcfd 1-Jul-2006
Qf = 9 mcfd
D = 12.72% per year

Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF
Jan-06	116	4	Jan-10	72	2	Jan-14	42	1	Jan-18	24	1
Feb-06	110	3	Feb-10	72	2	Feb-14	42	1	Feb-18	24	1
Mar-06	59	2	Mar-10	71	2	Mar-14	41	1	Mar-18	24	1
Apr-06	70	2	Apr-10	70	2	Apr-14	41	1	Apr-18	24	1
May-06	118	4	May-10	69	2	May-14	40	1	May-18	23	1
Jun-06	122	4	Jun-10	68	2	Jun-14	40	1	Jun-18	23	1
Jul-06	117	4	Jul-10	68	2	Jul-14	39	1	Jul-18	23	1
Aug-06	115	4	Aug-10	67	2	Aug-14	39	1	Aug-18	23	1
Sep-06	114	3	Sep-10	66	2	Sep-14	38	1	Sep-18	22	1
Oct-06	113	3	Oct-10	65	2	Oct-14	38	1	Oct-18	22	1
Nov-06	111	3	Nov-10	65	2	Nov-14	38	1	Nov-18	22	1
Dec-06	110	3	Dec-10	64	2	Dec-14	37	1	Dec-18	22	1
Jan-07	109	3	Jan-11	63	2	Jan-15	37	1	Jan-19	21	1
Feb-07	108	3	Feb-11	63	2	Feb-15	36	1	Feb-19	21	1
Mar-07	107	3	Mar-11	62	2	Mar-15	36	1	Mar-19	21	1
Apr-07	105	3	Apr-11	61	2	Apr-15	35	1	Apr-19	21	1
May-07	104	3	May-11	60	2	May-15	35	1	May-19	20	1
Jun-07	103	3	Jun-11	60	2	Jun-15	35	1	Jun-19	20	1
Jul-07	102	3	Jul-11	59	2	Jul-15	34	1	Jul-19	20	1
Aug-07	101	3	Aug-11	58	2	Aug-15	34	1	Aug-19	20	1
Sep-07	100	3	Sep-11	58	2	Sep-15	34	1	Sep-19	19	1
Oct-07	98	3	Oct-11	57	2	Oct-15	33	1	Oct-19	19	1
Nov-07	97	3	Nov-11	56	2	Nov-15	33	1	Nov-19	19	1
Dec-07	96	3	Dec-11	56	2	Dec-15	32	1	Dec-19	19	1
Jan-08	95	3	Jan-12	55	2	Jan-16	32	1	Jan-20	19	1
Feb-08	94	3	Feb-12	54	2	Feb-16	32	1	Feb-20	18	1
Mar-08	93	3	Mar-12	54	2	Mar-16	31	1	Mar-20	18	1
Apr-08	92	3	Apr-12	53	2	Apr-16	31	1	Apr-20	18	1
May-08	91	3	May-12	53	2	May-16	31	1	May-20	18	1
Jun-08	90	3	Jun-12	52	2	Jun-16	30	1	Jun-20	18	1
Jul-08	89	3	Jul-12	51	2	Jul-16	30	1	Jul-20	17	1
Aug-08	88	3	Aug-12	51	2	Aug-16	29	1	Aug-20	17	1
Sep-08	87	3	Sep-12	50	2	Sep-16	29	1	Sep-20	17	1
Oct-08	86	3	Oct-12	50	2	Oct-16	29	1	Oct-20	17	1
Nov-08	85	3	Nov-12	49	1	Nov-16	29	1	Nov-20	17	1
Dec-08	84	3	Dec-12	49	2	Dec-16	28	1	Dec-20	16	1
Jan-09	83	3	Jan-13	48	1	Jan-17	28	1	Jan-21	16	1
Feb-09	82	2	Feb-13	48	1	Feb-17	28	1	Feb-21	16	0
Mar-09	81	3	Mar-13	47	1	Mar-17	27	1	Mar-21	16	0
Apr-09	80	2	Apr-13	47	1	Apr-17	27	1	Apr-21	16	0
May-09	79	2	May-13	46	1	May-17	27	1	May-21	16	0
Jun-09	78	2	Jun-13	46	1	Jun-17	26	1	Jun-21	15	0
Jul-09	78	2	Jul-13	45	1	Jul-17	26	1	Jul-21	15	0
Aug-09	77	2	Aug-13	44	1	Aug-17	26	1	Aug-21	15	0
Sep-09	76	2	Sep-13	44	1	Sep-17	26	1	Sep-21	15	0
Oct-09	75	2	Oct-13	43	1	Oct-17	25	1	Oct-21	15	0
Nov-09	74	2	Nov-13	43	1	Nov-17	25	1	Nov-21	14	0
Dec-09	73	2	Dec-13	43	1	Dec-17	25	1	Dec-21	14	0

SJ Basin Chacra Pay Add Procedure

Well Name: **Tapp LS 3**
Date: **February 27, 2007**
Repair Type: **Payadd**

Objective: Perforate and frac Chacra, and downhole tri-mingle PC, Chacra, and Mesaverde

1. TOH with completion.
2. Perforate and fracture Chacra.
3. Land tbg and return well to production.
4. Downhole tri-mingle PC, Chacra, and Mesaverde.

Location:	T28N-R8W-Sec15	API #:	30-045-07425
County:	San Juan		
State:	New Mexico	Engr:	Richard Pomrenke
Horizon:	Mesaverde/Chacra/PC	ph	(281) 366-5023
		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 both tubing strings.

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, shut-in pipe rams, remove stripping rubber. Strip tubing hanger OOH. Re-install stripping rubber.

10. TOH 2 3/8" production tubing currently set at 4450'. Using approved "Under Balance Well Control Tripping Procedure".

11. TIH w/ 5-1/2" 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 bind rams. RIH to PBTD at 4,659'. POOH.

12. **Set bridge plug at +/-3,800'.** Fill casing w/ 2%KCl from the bottom to PC (2400').

13. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from 3,800' to TOL @ 2425'. Contact Jesse Gracia after determining TOC in 5 ½" liner to discuss packer placement or remedial cement squeeze.

14. Replace wellhead if needed.

15. TIH with 2 7/8" x 5 ½" test packer on 3 ½" tubing. Set Packer at +/-2480'

16. Pressure test 5 ½" casing down tubing to 2000 psi surface pressure. Note with 2% KCl fluid in the hole, the 5 ½" casing will be tested to approximately 3100 psi.

17. TOH w/ tubing and packer.

18. 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.

19. RIH with 3-1/8" casing guns w/lubricator and perforate Chacra formation.

    Approximately 3250 - 3450' (Exact depth to be determined from RST Log.)

20. TIH w/ 3-1/2" N-80 frac string with one jt of 2 7/8" N-80 and 5 ½" x 2 7/8" packer. Configure packer assembly as 2 7/8" x 5 ½ (full bore); 2 7/8 downhole shutoff valve. This assembly will be made up and pressure tested in the packer service shop.

21. RU 10,000 psi isolation tool (use full bore tool to reduce turbulence and chance for washout). Space out and land frac string.

22. Close shutoff valve. Load tubing and pressure test to approximately 1500 psi with rig pumps. RU test pump and pressure test tubing to 5000 psi for 10-15 minutes. Set packer at 2380'.

23. RU Schlumberger frac equipment. Purge pumps and pressure test iron to frac valve at 6000 psi. Set pump trips at 5000 psi. Set PRV at 5100-5200 psi. Treat well at a maximum of 5000 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. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures less than 5,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

25. Flowback frac immediately. Flow well through choke manifold on ¼", ½" and ¾" 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. Release packer. TOH w/ 3 ½:" frac string and packer.

27. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 5 1/2" casing. Cleanout fill to BP set at +/-3,800'.

28. RIH w/ frac string and 2 7/8" x 5 ½" packer. Set packer at +/- 2480' and **perform flow test on Chacra and document in DIMS.**

29. Release packer. TOH w/ 3 ½" frac string and packer.

30. TIH w/ tubing and bit for 5-1/2" casing. Drill out BP set at 3,800'. Cleanout to PBTD at 4,659'.

31. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).

32. Land 2-3/8" production tubing at +/-4,450'. Lock down 2 3/8" tubing hanger and bonnet.

33. 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.**

34. 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.

35. 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.

36. RD slickline unit.

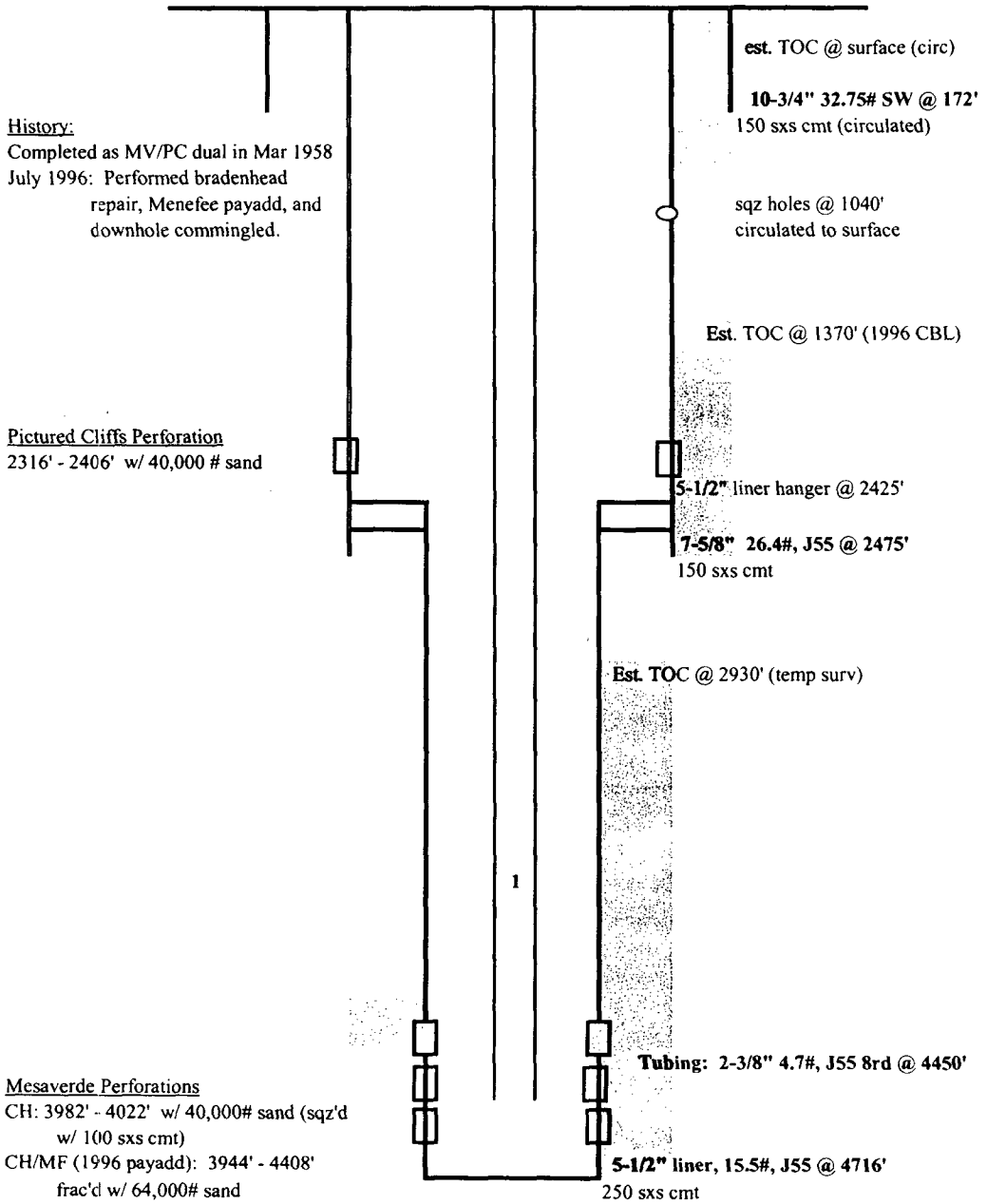
37. Test well for air. Return well to production and downhole tri-mingle PC, Chacra and Mesaverde.

Tapp LS #3

Sec 15, T28N, R8W

GR: 5839'

API # 30-045-07425



NOTES:

1) Slickline broach run in Sept 2002 was unable to work past 3352'.

updated: 11/28/06 JG