

DATE IN 8/27/07	SUSPENSE	W. Jones ENGINEER	LOGGED IN 8/28/07	TYPE DHC 3949	APP NO. P TDS0724051560
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ABOVE THIS LINE FOR DIVISION USE ONLY

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 _____

[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.

Toya Colvin

Print or Type Name

Signature

Toya Colvin

Regulatory Analyst

Title

8/17/07

Date

Toya.Colvin@bp.com

e-mail Address

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District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
____ Single Well
____ Establish Pre-Approved Pools
EXISTING WELLBORE
Yes ____ No ____

APPLICATION FOR DOWNHOLE COMMINGLING

BP America Production Company
Operator

P.O. Box 3092 Houston, TX 77253
Address

GOOCH 2M
Lease

Unit C Section 29 T28N, R08W
Well No. Unit Letter-Section-Township-Range

San Juan
County

OGRID No. 000778 Property Code 001212 API No. 30-045-24936 Lease Type: X Federal ____ State ____ Fee ____

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Otero Chacra	Blanco Mesaverde	Basin Dakota
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	To Be Determined	4170' - 4720'	6570' - 6708'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	370	375	375
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1280	1286	1286
Producing, Shut-In or New Zone	New Zone	Producing	Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % %	Oil Gas % %	Oil Gas % %

ADDITIONAL DATA

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

Yes X No ____
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 Toya Colvin TITLE Regulatory Analyst DATE 08/17/07

TYPE OR PRINT NAME Toya Colvin TELEPHONE NO. (281) 366-7148

E-MAIL ADDRESS Toya.Colvin@bp.com

Gooch #2M Payadd Procedure
Sec 29, T28N, R8W
API #: 30-045-24936

1. Check anchors. MIRU workover rig.
2. If necessary, kill with 2% KCL water. Nipple down WH. NU BOPs.
3. Tag for fill and tally OH with 2-3/8" production tubing currently set at 6603'. Visually inspect tubing while POOH.
4. TIH with bit and scraper for 4 1/2" casing to 6722'.
5. TIH with tubing-set RBP. Set RBP at 3500'. Load hole with 2% KCL.
6. Pressure test casing to 2500 psi. Unset RBP and POH.
7. RIH with CBP and set at 3500'. Run CBL and perforate using 3-1/8" casing guns (2 SPF 120 deg phasing) with Schlumberger's select-fire charge 3160'-3190' and 3270'-3290'.
8. RU frac equipment. Use Slick Water 2% KCL-N2 foam in fracture stimulation.
9. Frac Chacra according to pump schedule.
10. Flowback frac fluid immediately.
11. TIH with tubing and notched collar. Cleanout fill to 3500'. Blow well dry.
12. Test Chacra Zone for 8 hours.
13. POOH with tubing and pick up bit and drill bridge plug at 3500' and cleanout to PBTD of 6722'.
14. ND BOP's. NU WH. Test well for air. Return well to production. as down hole commingle Dakota, Mesa Verde, and Chacra.

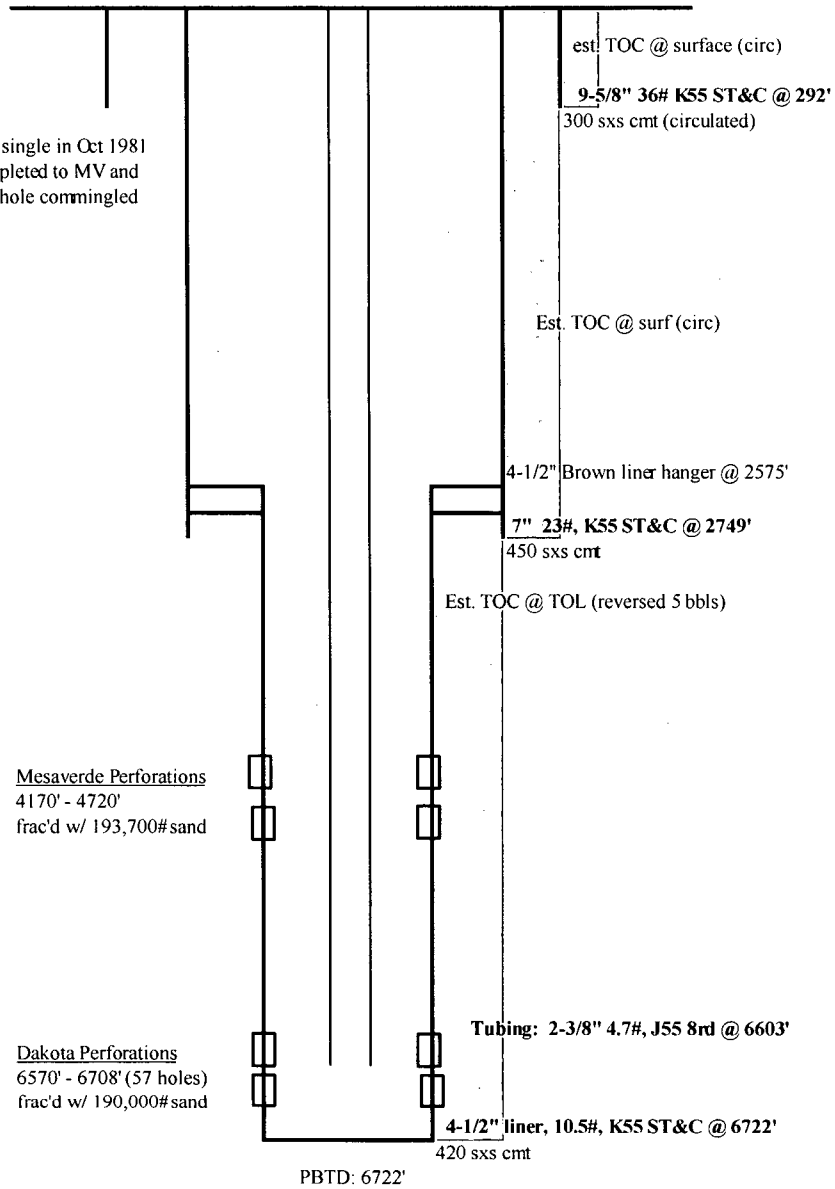
Gooch #2M

Sec 29, T28N, R8W
API # 30-045-24936

GL: 5870'

History:

Completed as DK single in Oct 1981
Dec 1994- Recompleted to MV and
downhole commingled



District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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 24484

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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 20-045-24936	2. Pool Code 82329	3. Pool Name OTERO CHACRA (GAS)
4. Property Code 608	5. Property Name GOOCH	6. Well No. 002M
7. OGRID No. 778	8. Operator Name BP AMERICA PRODUCTION COMPANY	9. Elevation

10. Surface Location

UL - Lot C	Section 29	Township 28N	Range 08W	Lot Idn	Feet From 1100	N/S Line N	Feet From 1800	E/W Line W	County SAN JUAN
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
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

	OPERATOR CERTIFICATION	
	<p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>E-Signed By: <i>Jaepa Coon</i></p> <p>Title: <i>Regulatory Analyst</i></p> <p>Date: <i>8/17/07</i></p>	
	SURVEYOR CERTIFICATION	
	<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:</p> <p>Date of Survey: <i>8/8/1980</i></p> <p>Certificate Number: <i>3950</i></p>	

Gooch 2M								
Dakota Formation								
API #	3004524936							
Starting 1/96 thru 3/09								
Exponential Decline								
Qi =	24.4	mcf/d	1-Jan-2007					
Qf =	23.4	mcf/d						
D =	1.78%	per year						
Starting 4/09 thru 08/36								
Exponential Decline								
Qi =	23.4	mcf/d						
Qf =	1.8	mcf/d						
D =	9.00%	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
Jan-07	24.38	0.76	Aug-09	22.48	0.70	Mar-12	17.57	0.55
Feb-07	24.34	0.68	Sep-09	22.30	0.67	Apr-12	17.43	0.52
Mar-07	24.31	0.75	Oct-09	22.12	0.69	May-12	17.29	0.54
Apr-07	24.27	0.73	Nov-09	21.95	0.66	Jun-12	17.16	0.52
May-07	24.23	0.75	Dec-09	21.78	0.68	Jul-12	17.02	0.53
Jun-07	24.20	0.73	Jan-10	21.60	0.67	Aug-12	16.89	0.52
Jul-07	24.16	0.75	Feb-10	21.44	0.60	Sep-12	16.76	0.50
Aug-07	24.12	0.75	Mar-10	21.28	0.66	Oct-12	16.63	0.52
Sep-07	24.09	0.72	Apr-10	21.11	0.63	Nov-12	16.50	0.50
Oct-07	24.05	0.75	May-10	20.94	0.65	Dec-12	16.37	0.51
Nov-07	24.02	0.72	Jun-10	20.78	0.62	Jan-13	16.28	0.51
Dec-07	23.98	0.74	Jul-10	20.62	0.64	Feb-13	16.16	0.45
Jan-08	23.88	0.74	Aug-10	20.45	0.63	Mar-13	16.03	0.50
Feb-08	23.84	0.69	Sep-10	20.29	0.61	Apr-13	15.91	0.48
Mar-08	23.81	0.74	Oct-10	20.13	0.62	May-13	15.78	0.49
Apr-08	23.77	0.71	Nov-10	19.98	0.60	Jun-13	15.66	0.47
May-08	23.74	0.74	Dec-10	19.82	0.61	Jul-13	15.54	0.48
Jun-08	23.70	0.71	Jan-11	19.66	0.61	Aug-13	15.41	0.48
Jul-08	23.67	0.73	Feb-11	19.51	0.55	Sep-13	15.29	0.46
Aug-08	23.63	0.73	Mar-11	19.36	0.60	Oct-13	15.17	0.47
Sep-08	23.59	0.71	Apr-11	19.21	0.58	Nov-13	15.05	0.45
Oct-08	23.56	0.73	May-11	19.06	0.59	Dec-13	14.93	0.46
Nov-08	23.52	0.71	Jun-11	18.91	0.57	Jan-14	14.82	0.46
Dec-08	23.49	0.73	Jul-11	18.76	0.58	Feb-14	14.70	0.41
Jan-09	23.52	0.73	Aug-11	18.61	0.58	Mar-14	14.59	0.45
Feb-09	23.48	0.66	Sep-11	18.47	0.55	Apr-14	14.48	0.43
Mar-09	23.38	0.73	Oct-11	18.32	0.57	May-14	14.36	0.45
Apr-09	23.20	0.70	Nov-11	18.18	0.55	Jun-14	14.25	0.43
May-09	23.02	0.71	Dec-11	18.03	0.56	Jul-14	14.14	0.44
Jun-09	22.84	0.69	Jan-12	17.84	0.55	Aug-14	14.03	0.44
Jul-09	22.66	0.70	Feb-12	17.70	0.51	Sep-14	13.92	0.42

Gooch 2M									
MesaVerde Formation									
API #	3004524936								
Starting 1/96 thru 11/12									
Exponential Decline									
Qi =	93.1	mcf/d	1-Jan-2007						
Qf =	75.0	mcf/d							
D =	3.60%	per year							
Starting 12/12 thru 08/36									
Exponential Decline									
Qi =	75.0	mcf/d							
Qf =	8.0	mcf/d							
D =	9.00%	per year							
	Gas	Rate	Gas		Gas	Gas		Gas	Gas
Date		mcf/d	Volume	Date	Rate	Volume	Date	Rate	Volume
			MMSCF		mcf/d	MMSCF		mcf/d	MMSCF
Jan-07	93.05		2.88	Aug-09	84.64	2.62	Mar-12	76.78	2.38
Feb-07	92.77		2.60	Sep-09	84.38	2.53	Apr-12	76.55	2.30
Mar-07	92.50		2.87	Oct-09	84.13	2.61	May-12	76.31	2.37
Apr-07	92.21		2.77	Nov-09	83.87	2.52	Jun-12	76.08	2.28
May-07	91.93		2.85	Dec-09	83.61	2.59	Jul-12	75.85	2.35
Jun-07	91.65		2.75	Jan-10	83.35	2.58	Aug-12	75.61	2.34
Jul-07	91.37		2.83	Feb-10	83.10	2.33	Sep-12	75.38	2.26
Aug-07	91.09		2.82	Mar-10	82.86	2.57	Oct-12	75.15	2.33
Sep-07	90.81		2.72	Apr-10	82.60	2.48	Nov-12	74.92	2.25
Oct-07	90.53		2.81	May-10	82.35	2.55	Dec-12	74.45	2.31
Nov-07	90.25		2.71	Jun-10	82.10	2.46	Jan-13	74.06	2.30
Dec-07	89.98		2.79	Jul-10	81.85	2.54	Feb-13	73.50	2.06
Jan-08	89.45		2.77	Aug-10	81.59	2.53	Mar-13	72.94	2.26
Feb-08	89.18		2.59	Sep-10	81.34	2.44	Apr-13	72.37	2.17
Mar-08	88.91		2.76	Oct-10	81.10	2.51	May-13	71.80	2.23
Apr-08	88.64		2.66	Nov-10	80.85	2.43	Jun-13	71.24	2.14
May-08	88.37		2.74	Dec-10	80.60	2.50	Jul-13	70.68	2.19
Jun-08	88.10		2.64	Jan-11	80.35	2.49	Aug-13	70.12	2.17
Jul-08	87.83		2.72	Feb-11	80.11	2.24	Sep-13	69.57	2.09
Aug-08	87.56		2.71	Mar-11	79.87	2.48	Oct-13	69.02	2.14
Sep-08	87.29		2.62	Apr-11	79.63	2.39	Nov-13	68.48	2.05
Oct-08	87.03		2.70	May-11	79.39	2.46	Dec-13	67.94	2.11
Nov-08	86.76		2.60	Jun-11	79.14	2.37	Jan-14	67.40	2.09
Dec-08	86.50		2.68	Jul-11	78.90	2.45	Feb-14	66.89	1.87
Jan-09	86.47		2.68	Aug-11	78.66	2.44	Mar-14	66.38	2.06
Feb-09	86.21		2.41	Sep-11	78.41	2.35	Apr-14	65.86	1.98
Mar-09	85.95		2.67	Oct-11	78.17	2.42	May-14	65.34	2.03
Apr-09	85.69		2.57	Nov-11	77.94	2.34	Jun-14	64.83	1.95
May-09	85.43		2.65	Dec-11	77.70	2.41	Jul-14	64.32	1.99
Jun-09	85.17		2.56	Jan-12	77.24	2.40	Aug-14	63.81	1.98
Jul-09	84.91		2.63	Feb-12	77.01	2.23	Sep-14	63.30	1.90