OGGED IN

DHC

PLR03328507521

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



		A	DMINISTR	ATIVE APPL	LICATI	ON CHECKL	.IST	
TH	IIS CHECKLIST	IS MAN		OMINISTRATIVE APPLICA JUIRE PROCESSING AT T			N RULES AND REGULATIONS	
Applic	I-SHQ] P()	-Stand Downh C-Pool [Y	lard Location] [N nole Commingling I Commingling] VFX-Waterflood E [SWD-Salt Wa	ISP-Non-Standard F [CTB-Lease Co [OLS - Off-Lease S Expansion] [PMX- hter Disposal] [IPI	Proration (ommingling Storage] -Pressure I-Injection	Unit] [SD-Simultane g] [PLC-Pool/Leas	se Commingling] easurement] nsion] 	
[1]	TYPE OF			neck Those Which Ang Unit - Simultaneon				
	Cl [E	3]		or [C] torage - Measureme CTB		□ OLS □ OLM	М	
	[C	C]		sal - Pressure Increas		ced Oil Recovery EOR PP	PR	
	[])]	Other: Specify					
[2]	NOTIFIC			TO: - Check Those yalty or Overriding		oply, or X Does Not terest Owners	Apply	
	[B	3]	Offset Opera	ators, Leaseholders of	or Surface	Owner		
	[C	c]	Application i	is One Which Requ	ires Publis	hed Legal Notice		
	[D)]	Notification a	and/or Concurrent A	Approval ber of Public Land	by BLM or SLO ls, State Land Office		
	[E	E]	For all of the	above, Proof of No	otification	or Publication is Atta	ached, and/or,	
	[F]	☐ Waivers are A	Attached				
[3]			URATE AND CO TON INDICATE		RMATIO	N REQUIRED TO	PROCESS THE TYPE	
	al is accura	i te and	complete to the l		ge. I also	understand that no a	cation for administrative action will be taken on this	
	Corley Type Name	Note: S	Statement must be co Signature	wy losley		Regulatory Anal Title corleyml@bp.co	vst 11/17/2003 Date	

<u> District I</u>

1625 N. French Drive, Hobbs, NM 88240

2000

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

Form C-107A Revised May 15,

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505 APPLICATION TYPE X Single Well

__ Establish Pre-Approved

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE
X Yes No

DD America Production	Company P.O. Pay 200	2 Houston TV 77252		
Operator Dryden LS		2 Houston, 1x //253 ddress I Section 21 T28N, R08W	San Juan	
Lease		-Section-Township-Range 15-07244 Lease Type: X F	County State Fee	
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name	Blanco Pictured Cliffs S.	Otero-Chacra (30)	Blanco Mesaverde	
Pool Code	72439	-82329-	72319	
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2192' – 223'	3121' - 3300	3818' – 4600'	
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing	
Bottomhole Pressure	270	425	499	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1294	1202.6	1256	
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	
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? Are all produced fluids from all commingled zones compatible with each other? Yes X No No Yes No Yes X No Y				
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 No No NMOCD Reference Case No. applicable to this well:				
Attachments: C-102 for each zone to be comm Production curve for each zone For zones with no production hi Data to support allocation methon Notification list of working, roy	ningled showing its spacing unit and a for at least one year. (If not available, istory, estimated production rates and	creage dedication. attach explanation.) supporting data. or uncommon interest cases.		
If application		OVED POOLS the following additional information wi	II be required:	
List of all operators within the proper	whole commingling within the proposed osed Pre-Approved Pools roposed Pre-Approved Pools were pro	• •		
I hereby certify that the informat	(3/1/	he best of my knowledge and belie	f. DATE <u>11/17/2003</u>	
TYPE OR PRINT NAME	Mary Corley	TELEPHONE NO. (_281		

______TELEPHONE NO. (<u>281</u>) <u>366-4491</u>

Dryden LS 3 API #: 30-045-07244

Frac Menefee, Add ChacraCompletion, and Trimingle Production

Procedure:

- 1. Check anchors. MIRU workover rig.
- 2. Check and record tubing, casing, and bradenhead pressures.
- 3. Blow down well. Kill with 2% KCL water ONLY if necessary.
- 4. Nipple down WH. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
- 5. RU slickline unit or wireline unit. RIH and set plugs (CIBP, tbg collar stop, or plug set in nipple) for isolation.
- 6. Tally OH with both strings and packer. Visually inspect tbg while POOH.

Contingency: If the 2-3/8" tubing is in poor condition, replace entire tubing string.

- 7. RIH w/ bit and scraper for 5-1/2" casing to PBTD at 4602'.
- 8. RIH with 5-1/2" CIBP and set at 4400'.
- 9. RIH with 3-1/8" casing guns. Perforate Menefee formation (correlate to GR log).

Menefee perforations, 2 spf (15 shots/ 30 holes): 4004, 4023, 4052, 4072, 4112, 4148, 4157, 4216, 4285, 4290, 4324, 4350, 4358, 4377, 4382

- 10. RIH w/ tapered 3-1/2 X 2-7/8 frac string and 5-1/2" packer. Set packer at 3950'.
- 11. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 5500 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 12. Release packer and POOH w/ frac string and packer.
- 13. RIH with 5-1/2" CIBP. Set CIBP at 3400'.
- 14. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

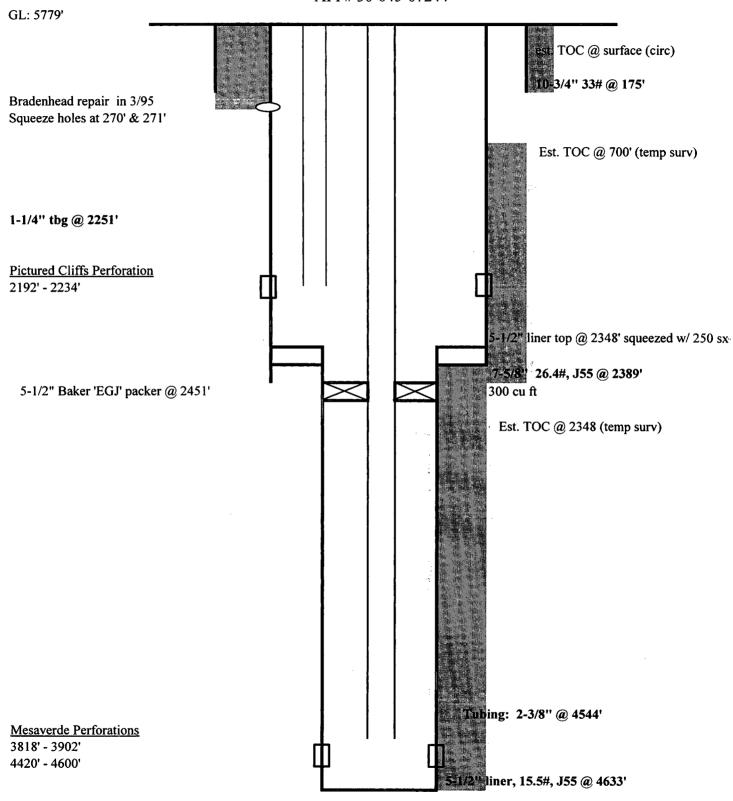
Chacra Perforations, 2 spf (20 shots/ 40 holes):

- 3121' 3126' (5')
- 3150' 3155' (5')
- 3235' 3239' (4')
- 3262' 3265' (3')
- 3297' 3300' (3')

- 15. RIH with 2-7/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at 2500'
- 16. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 5500 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 17. Flowback frac immediately.
- 18. Release packer and TOH with frac string and packer. LD frac string.
- 19. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 3300 and 4400'. C/O to PBTD at 4602'. Blow well dry at PBTD.
- 20. Rabbit tubing and RIH with 2-3/8" production tubing (with a muleshoe and X-nipple with blanking plug). Fill tubing with KCL water while RIH.
- 21. Land 2-3/8" production tubing at 4500'.
- 22. Pressure test tubing to 500 psi with rig pumps.
- 23. Swab down tubing with sandline.
- 24. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger. RD slickline unit.
- 25. ND BOP's. NU WH. Test well for air. Return well to production.

Dryden LS 3

Sec 21, T28N, R8W API # 30-045-07244



PBTD: 4602'

updated: 10/3/03 CFR

District I

1625 N. French Dr., Hobbs, NM 88240

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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 Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-07244	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000432	⁵ Property Name Dryden LS	⁶ Well Number
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	[°] Elevation 5779' GR

¹⁰ Surface Location

					Surface 1	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit M	21	28N	08W		990'	South	990'	West	San Juan
	Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
						<u> </u>	:		
12 Dedicated Acres		13 Joint o	r 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 LINIT HAS BEEN APPROVED BY THE DIVISION

NON-017MD1	ARD 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. Mary los ley Mary Corley
	Signature Mary Corley
	Printed Name Sr. Regulatory Analyst
	Title 11/17/2003
ļ,	Date
	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.
	00/00/1957
	Date of Survey
990'	Signature and Seal of Professional Surveyor:
,066	On File
[66]	Certificate Number

Allocation Method Dryden LS 3

BP America Production Company request permission to complete the subject well into the Otero Chacra and tri-mingle production downhole with the existing Blanco South Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure.

The interest owners are identical between these three Pools, therefore, no additional notification is required prior to downhole commingling approval.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs and Mesaverde Pools. This 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 are the future production decline estimates for the Pictured Cliffs & Mesaverde Pools.

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

Application has also been submitted to BLM on Form 3160-5, Federal Lease No. NM - 012200.

Pre Approved Pools:

Blanco-Mesaverde (72319) & South Blanco-Pictured Cliffs (72439) Pools Blanco-Mesaverde (72319) & Otero-Chacra (82329) Pools South Blanco-Pictured Cliffs (72439) & Otero-Chacra (82329) Pools

Dryden L5 3 Future Production Decline Estimate Pictured Cliffs Daily Rates

Month	Gas Volume
Jan-2002	5
Feb-2002	3
Mar-2002	4
Apr-2002	4
May-2002	5
Jun-2002	1
Jul-2002	0
Aug-2002	0
Sep-2002	2
Oct-2002	6
Nov-2002	5
Dec-2002	6
Jan-2003	2
Feb-2003	2
Mar-2003	4
Apr-2003	1
May-2003	1
Jun-2003	0
Jul-2003	0
Aug-2003	0
Sep-2003	0
Oct-2003	0
Nov-2003	0
Dec-2003	0
Jan-2004	0
Feb-2004	0
Mar-2004	0
Apr-2004	0
May-2004	0
Jun-2004	0
Jul-2004	0
Aug-2004	0
Sep-2004	0
Oct-2004	0
Nov-2004	0
Dec-2004	0

In(Qf/Qi) = -dt Qf= 1 Qi= 2 rate= 1 time= 4

dt= -0.693147181 decline= -0.173286795

Month	Gas Volume
Jan-2005	0
Feb-2005	0
Mar-2005	0
Apr-2005	0
May-2005	0
Jun-2005	0 0 0
Jul-2005	0
Aug-2005	0
Sep-2005	
Oct-2005	0
Nov-2005	0
Dec-2005	
Jan-2006	0
Feb-2006	0
Mar-2006	Ö
Apr-2006	0
May-2006	
Jun-2006	0
Jul-2006	0
Aug-2006	0
Sep-2006	0
Oct-2006	0
Nov-2006	0
Dec-2006	0
Jan-2007	0
Feb-2007	0
Mar-2007	0
May-2007	0 0 0 0 0 0 0
Jun-2007	0
Jul-2007	0
Aug-2007	0
Sep-2007	0
Oct-2007	0
Nov-2007	0
Dec-2007	0
Jan-2008	0

Month 5	Gas Volume
Feb-2008	0
Mar-2008	0
Apr-2008	0
May-2008	0
Jun-2008	0
Jul-2008	0
Aug-2008	0
Sep-2008	0
Oct-2008	0
Nov-2008	0
Dec-2008	0
Jan-2009	0
Feb-2009	0
Mar-2009	0
Apr-2009	0
May-2009	0
Jun-2009	0
Jul-2009	0
Aug-2009	0
Sep-2009	0
Oct-2009	0
Nov-2009	0
Dec-2009	0
Jan-2010	0
Feb-2010	0
Mar-2010	0
Apr-2010	0
May-2010	0
Jun-2010	0
Jul-2010	
Aug-2010	0
Sep-2010	0
Oct-2010	0
Nov-2010	0
Dec-2010	0
Jan-2011	0

Month	Gas Volume
Feb-2011	0
Mar-2011	0
Apr-2011	0
May-2011	0
Jun-2011	0
Jul-2011	0
Aug-2011	0
Sep-2011	0
Oct-2011	0
Nov-2011	0
Dec-2011	0
Jan-2012	0
Feb-2012	0
Mar-2012	0
Apr-2012	0
May-2012 Jun-2012	0
Jun-2012	0
Jul-2012	0
Aug-2012	0
Sep-2012 Oct-2012	0
Oct-2012	Ō
Nov-2012	0
Dec-2012 Jan-2013	0
Jan-2013	0
Feb-2013	0
I Mar-2013	0
Apr-2013	0
May-2013	0
Jun-2013	0
Jul-2013	0
Aug-2013	0
Sep-2013	0
Oct-2013	0
Nov-2013	0
Dec-2013	0
Jan-2014	0

Dryden LS 3 Future Production Decline Estimate Mesaverde Daily Rates

Month	Gas Volume
Jan-2002	
Feb-2002	
Mar-2002	
Apr-2002	
May-2002	
Jun-2002	
Jul-2002	
Aug-2002	
Sep-2002	
Oct-2002	
Nov-2002	82
Dec-2002	
Jan-2003	
Feb-2003	
Mar-2003	80
Apr-2003	
May-2003	
Jun-2003	
Jul-2003	66
Aug-2003	72
Sep-2003	65
Oct-2003	65
Nov-2003	64
Dec-2003	64
Jan-2004	63
Feb-2004	62
Mar-2004	62
Apr-2004	61
May-2004	61
Jun-2004	60
Jul-2004	59
Aug-2004	59
Sep-2004	58
Oct-2004	58
Nov-2004	57
Dec-2004	56

In(Qf/Qi) = -dt Qf= 80 Qi= 83 rate= 80 time= 5

dt= -0.036813973 decline= -0.58902357

	Gas Volume
Jan-2005	56
Feb-2005	55
Mar-2005	55
Apr-2005	54
May-2005	54
Jun-2005	53
Jul-2005	52
Aug-2005	52
Sep-2005	51
Oct-2005	51
Nov-2005	50
Dec-2005	49
Jan-2006	
Feb-2006	
Mar-2006	48
Apr-2006	47
May-2006	46
Jun-2006	
Jul-2006	
Aug-2006	
Sep-2006	44
Oct-2006	
Nov-2006	43
Dec-2006	42
Jan-2007	
Feb-2007	
Mar-2007	41
May-2007	40
Jun-2007	39
Jul-2007	39
Aug-2007	38
Sep-2007	38
Oct-2007	37
Nov-2007	36
Dec-2007	36
Jan-2008	35

Month	Gas Volume
Feb-2008	35
Mar-2008	34
Apr-2008	34
May-2008	33
Jun-2008	32
Jul-2008	32
Aug-2008	31
Sep-2008	31
Oct-2008	30
Nov-2008	29
Dec-2008	29
Jan-2009	28
Feb-2009	28
Mar-2009	27
Apr-2009	26
May-2009	26
Jun-2009	25
Jul-2009	25
Aug-2009	24
Sep-2009	23
Oct-2009	23
Nov-2009	22
Dec-2009	22
Jan-2010	21
Feb-2010	21
Mar-2010	20
Apr-2010	19
May-2010	19
Jun-2010	18
Jul-2010	18
Aug-2010	17
Sep-2010	16
Oct-2010	16
Nov-2010	15
Dec-2010	15
Jan-2011	14

Month	Gas Volume
Feb-2011	13
Mar-2011	13
Apr-2011	12
May-2011	12
Jun-2011	11
Jul-2011	11
Aug-2011	10
Sep-2011	9
Oct-2011	9 9 8
Nov-2011	8
Dec-2011	8
Jan-2012	7
Feb-2012	6
Mar-2012	6
Apr-2012	5 5
May-2012	5
Jun-2012	4 3 3 2 2
Jul-2012	3
Aug-2012	3
Sep-2012	2
Oct-2012	2
Nov-2012	1.
Dec-2012	1
Jan-2013	0
Feb-2013	0
Mar-2013	0
Apr-2013	0
May-2013	0
Jun-2013	0
Jul-2013	0
Aug-2013	0
Sep-2013	0
Oct-2013	0
Nov-2013	0
Dec-2013	0
Jan-2014	0