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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau th St. Francis Drive Santa Fe NM 87505



		20 South St. Francis Drive, Santa Fe, NM 87303
		ADMINISTRATIVE APPLICATION CHECKLIST
T	HIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[DHC-Dow	
[1]		PPLICATION - Check Those Which Apply for [A]
	[A]	Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
		k 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 BOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT	TION 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]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION INDICATED ABOVE.
	val is accurate a	TION: I hereby certify that the information submitted with this application for administrative and complete to the best of my knowledge. I also understand that no action will be taken on this equired information and notifications are submitted to the Division.
		Statement must be completed by an individual with managerial and/or supervisory capacity.
	Corley	Sr. Regulatory Analyst 12/10/2004
rint o	r Type Name	Signature Title Date corleyml@bp.com e-mail Address

District I

1625 N. French Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15,

2000

District II

811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Ro

Pools **District IV**

2040 South Pacheco, Santa Fe, NM 87505

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

BP America Production Company P. O. Box 3092 Houston, TX 77253 Operator Address						
Operator Address Pritchard 4A Unit F Section 31 T29N, R08W San Juan						
Lease Well No. Unit Letter-Section-Township-Range County						
OGRID No. <u>000778</u> Property	Code <u>000959</u> API No. <u>30-04</u>	5-22497 Lease Type: X F	ederal State Fee			
DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE						
Pool Name	Blanco Pictured Cliffs	*Otero Chacra	Blanco Mesaverde			
Pool Code	72359	-82329 G/905	72319			
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	To Be Determined	To Be Determined	4119' – 4921'			
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift			
Bottomhole Pressure	425	430	590			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1164	1210	1226			
Producing, Shut-In or						
New Zone	New Zone	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 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? 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 ST. Regulatory Analyst DATE 12/07/2004						
TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491						

Allocation Method Pritchard 4A

BP America Production Company request permission to complete the subject well into both the Blanco Pictured Cliffs and Otero Chacra Pools and tricommingle production downhole with the existing Blanco Mesaverde Pool 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 a fixed percentage. It is our intent to isolate the Mesaverde, complete into the Chacra, flow back well to stabilize production and perform deliverability test then isolate the Chacra complete into the Pictured Cliffs, flow back well to stabilize production and perform deliverability test. A combined stream test will then be performed to determine the flow rate for production from the Mesaverde Pool.

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. SF - 077123

Pre Approved Pools:

Blanco-Mesaverde (72319) & Blanco Pictured Cliffs (72359) Pools Blanco-Mesaverde (72319) & Otero-Chacra (82329) Pools Blanco Pictured Cliffs (72359) & Otero-Chacra (82329) Pools

Pritchard 4A API #: 30-045-22497

Complete Into the Pictured Cliffs & Chacra Formations & Downhole Commingle Production with the Existing Mesaverde Formation November 17, 2004

Procedure:

- 1. Check anchors. Check ID wellhead, if earth pit is required have One Call made 48 hours prior to digging.
- 2. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
- 3. RU slickline unit or wireline unit. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation.
- 4. MIRU workover rig.
- 5. Blow down well. Kill with 2% KCL water ONLY if necessary. Check all casing strings to ensure no pressure exist on any annulus.
- 6. 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.
- 7. Pull tubing hanger and shut pipe rams and install stripping rubber.
- 8. TOH with 2-3/8" production tubing currently set at 4,822' using approved "Under Balance Well Control Tripping Procedure".

Contingency: If the tubing is in poor condition, replace entire tubing string.

- 9. TIH with bit and scraper for 4-1/2" casing to PBTD at 5,020' with approved barriers. Check the distance between the top of the blind ram 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.
- 10. Set CIBP at +/- 4,100' to isolate Mesaverde. Ensure BP is not set in casing collar.
- 11. Load hole w/ 2% KCl and pressure test casing to 2,500 psi w/ rig pumps
- 12. RU E-line and run CBL from PBTD' to surface. Confirm that top of cement is at liner top and above 2,000' if not, contact engineer to discuss cement squeeze. RIH with 3-1/8" casing guns (Lubricator required).
- 13. Perforate Chacra formation (correlate to GR log). RDWL and lubricator. Chacra perforations, 4 spf (15 shots/ 60 holes):

- 14. NU Wellhead Isolation tool Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 3000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

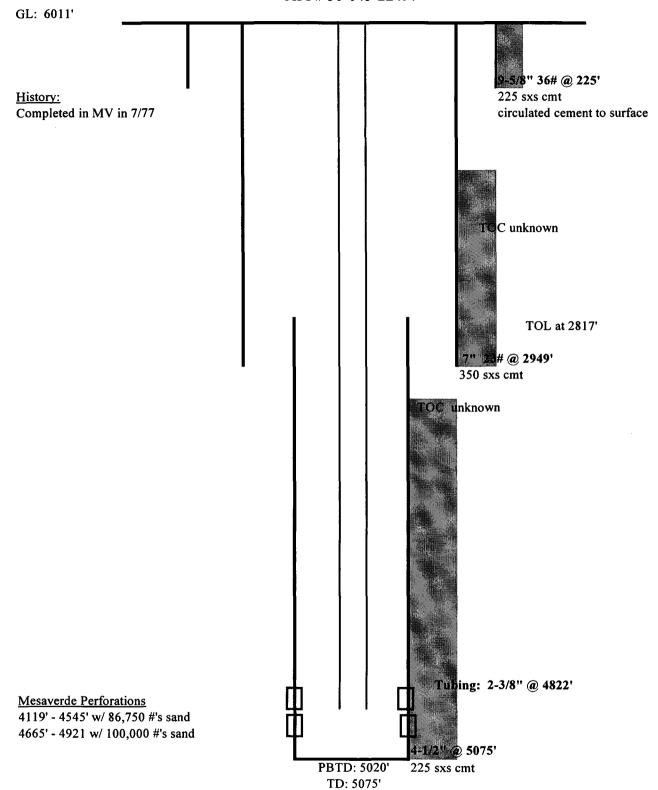
- 15. Remove Isolation Tool, Flowback frac immediately. Flow well through the 3" line and into the choke manifold until well dies or stabilizes.
- 16. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit. Cleanout fill to top of CIBP and flow test well for minimum of 12 hours. Report flow test data on DIMS report.
- 17. TIH with bit and scraper for 7" casing to 2,800' with approved barriers. Check the distance between the top of the blind ram 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.
- 18. Set retrievable bridge plug w/ 10' of sand at +/- 2,700' to isolate Mesaverde and liner top. Ensure BP is not set in casing collar.
- 19. RIH with 3-1/8" casing guns (Lubricator required). Perforate Pictured Cliffs formation (correlate to GR log). RDWL and lubricator.

<u>Pictured Cliffs perforations</u>, 4 spf (15 shots/ 60 holes): ******

- 20. NU Wellhead Isolation tool Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 3000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 21. Remove Isolation Tool, Flowback frac immediately. Flow well through the 3" line and into the choke manifold until well dies or stabilizes.
- 22. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit. Cleanout fill and pull bridge plug set at 2,700'.
- 23. TIH w/ tubing and bit for 4-1/2" casing. Drill out CIBP at 4,100' and cleanout fill to PBTD at 5,020'. Blow well dry at PBTD. Reference Under Balanced Well Control Tripping Procedure.
- 24. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
- 25. Land 2-3/8" production tubing with hanger, lock down hanger at +/-4,875'.
- 26. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Check all casing string for pressure.
- 27. ND BOP's. NU WH. Test well for air. Return well to production and downhole co-mingle Chacra, and Mesaverde.
- 28. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. RD slickline unit.

Pritchard 4 A

Sec 31, T29N, R8W API # 30-045-22497



Formation tops:

Pictured Cliffs 2450 Lewis Shale 2580 Cliff House 4116 Menefee 4218 Point Lookout 4662

updated: 8/25/04 CFR

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

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

Revised August 15, 2000

Form C-102

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-22497	² Pool Code 82329	³ Pool Nai Otero Ch	
⁴ Property Code 000959		⁵ Property Name Pritchard	
⁷ OGRID No. 000778	BP Ameri	⁹ Elevation 6011' GR	
		Surface Location	

UL or lot no. Section Township Range Lot Idn Feet from North/South Feet from East/West County West Unit F 31 29N **08W** 1830 North 1705 San Juan

11 Bottom Hole Location If Different From Surface

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 120.49		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

		17 OPERATOR CERTIFICATION
		I hereby certify that the information contained
		herein is true and complete to the best of my
1830'		knowledge and belief.
		Signature Mary Corley
1705'	410'	Printed Name Sr. Regulatory Analyst
		Title 12/02/2004
		Date
		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.
		2/6/1977
		Date of Survey
		Signature and Seal of Professional Surveyor:
		James P Leese 1463
		Certificate Number