Submit 3 Copies To Appropriate District	State of N	ew Mexico		Form C-10	02		
Office							
District I	Energy, Millierais ar	nd Natural Resources	WELL API NO.	Revised March 25, 19	1 99		
1625 N. French Dr., Hobbs, NM 88240 District II) 04E 20C0E			
811 South First, Artesia, NM 88210	OIL CONSERVA	ATION DIVISION		0-045-30625			
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South S	St. Francis Dr.	5. Indicate Type STATE	of Lease FEE			
District IV	Santa Fe,	NM 87505		Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM				2400 110.			
87505 SLINDRY NOT	ICES AND REPORTS ON	WELLS	7 Long Nous	- I I . 'A A			
(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPE	N OR PENGBACK TO A	7. Lease Name o	r Unit Agreement Name	e:		
DIFFERENT RESERVOIR. USE "APPLIC		Mudge LS					
PROPOSALS.) 1. Type of Well:	, i		•	naage 20			
Oil Well Gas Well	X Other	CC 2002					
2. Name of Operator	Pi Other		8. Well No.				
BP America Production Company	Attn: Mary Corley		o. Wen ito.	24M			
3. Address of Operator		4.1	9. Pool name or		_		
P.O. Box 3092 Houston, TX 77253			Basin Dakota & B	anco Mesaverde			
4. Well Location		Burne alas					
Unit Letter 2370 feet from the South line and 780 feet from the East line							
Unit LetterI	2370 leet from the Sot	in line and /80 fe	et from the <u>East</u>	line			
Section 33	Township 32N Rai	nge 11W N	MPM San Juan	County			
	10. Elevation (Show whe			County			
6092' GR							
11. Check A	appropriate Box to Indicate	cate Nature of Notice,	Report or Other	Data			
NOTICE OF IN		SUE	SEQUENT RE	PORT OF:			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	RK 🗆	ALTERING CASING			
TEMPORARILY ABANDON	CHANGE PLANS		RILLING OPNS.	PLUG AND	_		
PULL OR ALTER CASING	MULTIPLE [CASING TEST A	ND \square	ABANDONMENT	ш		
	COMPLETION	CEMENT JOB					
OTHER: Downhole Commingle	×	OTHER:					
12. Describe proposed or complet	ed operations. (Clearly state	all pertinent details, and	give pertinent dates	including estimated dat	te.		
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.							
On 04/09/2001, BP America Producti	on Company submitted an ap	plication for permit to drill	and complete the su	bject well into the Basin	ļ.		
Dakota, produce the well for approximately 30 days to establish a production rate, add the Blanco Mesaverde and commingle production							
Downhole. The completion into the Dakota is expected to be completed on 09/27/2002. We anticipate completion of the Mesaverde (per							
the attached procedure) 30 days after the completion of the Dakota.							
The Basin Dakota (71599) & the Blanco Mesaverde (72319) Pools are Pre-Approved for Downhole Commingling per NMOCD Order R							
11363. The working and overriding royalty interest owners in the proposed commingled pools are not identical. All interest owners were							
notified of our intent to Downhole co	mmingle and the proposed a	llocation method on April	11, 2001.				
Draduation is meanward to be allowed		144 114 4					
Production is proposed to be allocat and complete into the Mesaverde. The state of	ea basea on a fixea percenta he deliverability test will be n	ge. We will perform a deliver	erability test on the	Dakota, isolate the zone			
the total well stream to establish the	Mesaverde rate.	enomied on the combined	zones and Dakota ra	te will be subtracted from	m		
Commingling Production Downhole	in the subject well from the p	roposed pools with not rec	luce the value of the	total remaining			
production. $\bigwedge \mathcal{A}_{\mathcal{C}}$	900AZ			·			
I hereby certify that the information	above is true and complete	to the best of my knowled	lge and belief.		_		
SIGNATURE Many Office		E Sr. Regulatory Analys		09/23/2002			
Type or print name Mary Corley			ephone No. 281-366				
(This space for State use)	AND THE PARK HAVERN				_		
Outras		DELAILA WIT S BYZ IL	THE SECOND SECOND	SEP 2 1 70	כחו		
APPPROVED BY Conditions of approval, if any:	TI	TLE		_DATE	_		
conditions of approval, it any:							

Mesa Verde/Dakota Infill Drilling Well Completion Procedure

Well Name

Mudge LS 24M

Version

1.0

Date

Summary of Objectives

- 1. Perforate and frac (N2 foam) the Point Lookout Formation
- 2. Perforate and frac (N2 foam) the Menefee Formation
- 3. Perforate and frac (N2 Foam) the CliffHouse Formation
- 4. Clean out frac and test
- 5. Run completion
- 6. Put the well on line

Pertinent Information

Location	33-32N-11W	Horizon	Mesa Verde
County	San Juan	API Number	30-045-30610
State	New Mexico	Engineer	Marney Pietrobon
Well Flac		Phone #	281-366-7609
SAP Number	X3- 003ZD	Mobile #	713-444-0017

Safety Observations and Issues

- 1. Equipment taking to site will be handled with extreme care to reduce any potential hazard for the environment.
- 2. A safety meeting will be held at the beginning of the job. The site and surrounding area will be kept clean and tidy throughout all operations with appropriate warning signs will be placed around work area.
- 3. Risk Assessment to be performed.

Completion Procedure

- 1. Prepare the location and fence off the pits. Meet with Schlumberger to determine number of frac tanks required and the layout of the site.

 Location and final spotting of equipment should not cause any hazards on site.
- 2. Hold morning meeting, perform and discuss the Risk Assessment (JHA) with FMC (Wellhead Company) and rig crews.
- 3. Check and record tubing and casing pressures
- 4. Notify FMC (Wellhead Company) of frac date and conduct Risk Assessment (JHA) identifying major uncertainties i.e. dropped objects potentials
- 5. Blowdown well, if necessary kill well with 2% KCL
- 6. Nipple down wellhead, nipple up and pressure test BOP's.
- 7. Tag for fill. Tally out of hole and lay-down tubing. 2 3/8" production tubing is currently set at 7391'
- 8. RIH with bit and scraper, clean out to TD
- 9. RIH with tubing-set CIBP. Set CIBP at **5500**'. Load hole with 2% KCL and pressure test casing to 1500 psi.

FIRST MESAVERDE STAGE

10. Rig- up Schlumberger equipment & and prepare for perforating operation. Pick up and RIH with gun assembly. Perforate the Mesa Verde *(reservoir sections are known as the Point Lookout)* with 2 SPF, 120° phasing as follows:

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5379', 5357', 5342', 5332', 5320', 5308', 5296', 5288', 5281', 5262', 5234', 5224', 5205', 5199', 5187', 5179', 5172'
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1 SPF

5152', 5144', 5133', 5126', 5120', 5101', 5090' 2SPF

5079', 5072', 5064', 5057'.

- **11.** POOH with wireline and guns, check for 100% firing rate. Report to Houston on the percentage fire rate of the guns used.
- **12.** On day prior to frac rig-up EZ Drill plug/perf guns for 2nd stage piggyback. Lay plug/gun assembly down.
- **13.** Hold Risk Assessment (JHA) meeting prior to frac job.

14. Rig-up Dowell-Schlumberger equipment and pressure test all lines. Frac the Mesa Verde (reservoir sections are known as the Point Look out) per Dowell procedure, lead frac with 500 gal of 15% HCL.

SECOND STAGE MESA VERDE

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- 15. Hold Morning meeting and discuss Risk Assessment (JHA) with crews
- **16.** Rig-up Schlumberger (wireline) equipment and prepare for perforating operations. Pick up and RIH with plug/gun assembly & set EZ Drill plug at **5014** ft. Perforate the Mesa Verde (second reservoir section is known as the Menefee formation) the with 2 SPF, 120° phasing as follows:

4974', 4968', 4952', 4942', 4931', 4924', 4920', 4907', 4886', 4881', 4871', 4867', 4852', 4833', 4825', 4795', 4776', 4753', 4746', 4741', 4736'

- 17. POOH with plug/gun assembly and check firing rate of guns.
- **18.** Frac the second Mesa Verde section (*known as the Menefee Formation*) as per Dowell procedure, lead frac with 500 gal. 15% HCL.
 - Dowell Schlumberger Electronic (ASCII file) frac file to be sent next day to Houston & paper copy sent by the following Friday. Paper copies should include priceout sheet.

THIRD STAGE MESA VERDE

- 19. Hold Morning meeting and discuss Risk Assessment (JHA) with crews
- **20.** Rig-up Schlumberger (wireline) equipment and prepare for perforating operations. Pick up and RIH with plug/gun assembly & set EZ Drill plug at **4731**ft. Perforate the Mesa Verde (third reservoir section is known as the Cliff House formation) the with **1 SPF**, 120° phasing as follows:

4695', 4686', 4666', 4658', 4641', 4630', 4612', 4607', 4590', 4572', 4560', 4549', 4546', 4542'

2 SPF

4532', 4528', 4505', 4483', 4477', 4472', 4464', 4453', 4447', 4418', 4414', 4404', 4391', 4378', 4368', 4360', 4354', 4344', 4331', 4318'.

- 21. POOH with plug/gun assembly and check firing rate of guns.
- **22.** Frac the third Mesa Verde section (*known as the Cliff House Formation*) as per Dowell procedure, lead frac with 500 gal. 15% HCL.
 - Dowell Schlumberger Electronic (ASCII file) frac file to be sent next day to Houston & paper copy sent by the following Friday. Paper copies should include priceout sheet.
- 23. Rig-down Dowell & Schlumberger equipment.

- 24. Flowback well overnight.
- 25. Hold Morning Meeting and discuss Risk Assessment (JHA) with crews
- **26.** Rig-Up Service Rig and RIH 2 3/8" production tubing with bit. Clean out fill and drill through BP set at 5014', 4731' and 5500'.
- 27. If fill exists, POOH with tubing and bit, rig—up air unit to bail, continue to bail until fill is 30 ft below bottom perforations (~ xxxx'). If no fill is evident POOH with tubing and bit. Stand tubing in Derrick. Retrieve bit
- **28.** Pick up and run 2 3/8" production tubing with 'F' landing nipple. Land tubing at 7391'.
- 29. Run in slowly with tubing, noting the up and down weight of the string. Land tubing in Hanger. Send appropriate information to Mary Corley (281-366-4491) to file the C-104
- **30.** Rig-Up wireline unit and set plug in the 'F' nipple. Nipple down BOP's, install Xmas tree and test to 3000 psi. If wellhead tests ok, retrieve plug, if not check seals on wellhead and re-test.
- 31. RDMO Service rig
- **32.** Install flowline and test
- 33. Turn well to commingled MV/DK production.

Mudge LS #24M

Sec33, T321N R11W

API: 30-045-30625

