DISTRICT

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-107-A New 3-12-96

DISTRICT II

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS: _X_ Administrative ___Hearing

DISTRICT III

811 South First St., Artesia, NM 88210-2835

EXISTING WELLBORE

Burlington Resources Oil & Gas (<u> </u>	Box 4289, Farmington, NM 874	1 99	
lewberry (note: DHC-1855 iss	<u> </u>	P 04-31N-12W	San Juan	
ease	Well No. Unit Li	tr Sec - Twp - Rge Spa	County acing Unit Lease Types: (check 1 or more)	
GRID NO14538 Property Code	7360 API NO30-045-2	29568Fe dera lx	, State, (and/or) Fee	
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone	
Pool Name and Pool Code	Blanco Mesaverde - 72319	Wildcat Mancos	Basin Dakota - 71599	
Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	5728-5812'	7052-7220'	
3. Type of production (Oil or Gas)	gas	Oil/gas	gas	
4. Method of Production (Flowing or Artificial Lift)	flowing	pumping	flowing	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 551 psi (see attachment)	a. 1100 psi (see attachment)	a. 853 psi (see attachment)	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1244 psi (see attachment)	b. 1100 psi (see attachment	b. 2531 psi (see attachment)	
6. Oil Gravity (API) or Gas BTU Content	BTU 1227	46° API @ 62°	BTU 1161	
7. Producing or Shut-In?	shut in	producing	shut in	
Production Marginal? (yes or no)	no Significant de la companya de la	yes	yes	
If Shut-In and oil/gas/water rates of last production	Date: n/a	Date: n/a Rates:	Date: n/a Rates:	
Note: For new zones with no production history, pplicant shall be required to attach production estimates and supporting data	O F.		,	
' If Producing, give data and oil/gas/water water of recent test within 60 days)	Date: n/a Rates:	Date: 11/23/98 Rates: 138 MCFD/20 BOPD/2 BWPD	Date: n/a Rates:	
B. Fixed Percentage Allocation	Oil: Gas:	Oil: Gas:	Oll.	
Formula -% for each zone (total of %'s to equal 100%)	% % will be supplied upon completion	Oil: Gas: % will be supplied upon completion	Oil: Gas: % will be supplied upon completion	
. Will cross-flow occur? x Y	yalty interests identical in all comr g, and royalty interests been notifie en written notice of the proposed o	mingled zones? ed by certified mail? downhole commingling?	Yes _x_No _x_YesNo _x_YesNo	
. Are all produced fluids from all col				
. Will the value of production be dec	creased by commingling? Yes	s _X_ No (If Yes, attach expla	anation)	
. If this well is on, or communitized Land Management has been notified	d with, state or federal lands, eithered in writing of this application>	er the Commissioner of Public K_Yes No	Lands or the United States Bure	
. NMOCD Reference Cases for Rule				
	be commingled showing its spacing ach zone for at least one year. (If reduction history, estimated production method or formula. If set operators. (Ing. overriding, and royalty interested, data, or documents required to			
nereby certify that the informat	ion above is true and comple	te to the best of my knowled	dge and belief.	
GNATURE	TITLE: Prod	uction Engineer DAT	E: 12-15-98	

" Hobbs. NM 88241-1980

II ... awer 00. Artesia. \M 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Departing

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

State Lease - 4 Cobies Fee Lease - 3 Cobies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				'Pool Code	9	'Pool Name					
30-045-	29568	8 72319/71599 Blanco Mesaverde/Wildca					t Mancos/	Basin Dak			
*Property Co	de		Property Name					, Mt	ell Number		
7360			NEWBERRY 12M						12M		
'OGRID No.			*Operator Name 'Elevation								
14538	i	BURLINGTON RESOURCES OIL & GAS COMPANY 6104					6104				
¹⁰ Surface Location											
UL or lot no. S	Section	CHURLIND	Pange	Lot lan	Feet from the	North/South line	Feet from the	East/West line	County		
P	4	31N	12W		970	South	1125	East	SAN JUAN		
¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	TOMPSENSO	Fange	Lot Idn	Feet from the	North/South lane	Feet from the	East/West line	County		
		_							·		
MV-57320, Man-160 Coreolisation Code Coreolisation Code											
DK-E/320.37											

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE EEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION							
. 72	2640.	66		2646	. 60 '	.4	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
269.84	4	3	2		1	345.7	
151		<u> </u>					Signature Staa hield
84.		1			SF-	90	Peggy Bracfield Printed Name
1302.	 		FEE		078120A	1326.	Regulatory Administrator Title 6-23-98
			4				Date
					SF-		Increby certify that the well location anown on this olat was plotted from tield notes of actual surveys made by me or under my supervision and that the same is thus and connect to the best of my belief.
		FEE	' FEE		078120A		
. 89	I					. 20 '	DECEMBER 10, 1997 Date of Survey Supreme are seed of the first former.
2605.					1125	2653	Date of Survey Superure and Seal of C. T. T. D.
		AMOCO	AMOC	0	. 026	C	2 6857
		52	68.58 ·				Cer(t1f1cate

Definition of Terms Used in Analysis and Plots

STP Surface treating pressures (psi)

HESBHP Service company calculated bottomhole treating pressures (psi)

TASBHP ProTechnics bottomhole pressures recorded in tool memory (psi)

TASSurfBHP ProTechnics bottomhole pressures transmitted to the surface (psi)

TASBHT ProTechnics bottomhole temperatures recorded in tool memory (degF)

TASSurfBHT ProTechnics bottomhole temperatures transmitted to the surface (degF)

SL/Rate Service company surface slurry injection rate (bpm)

Interpretation of TAS Data and Analysis of Test

- 1. Bottomhole pressure and temperature data transmitted to the surface were consistent with those stored downhole in TAS tool memory.
- 2. Based on the shut-in prior to the frac treatment, static reservoir pressure and reservoir temperature at a sensor depth of 5,721 ft were approximately 1,100 psi and 170° F, respectively.
- 3. The service company calculated bottomhole pressures were consistently lower than the TAS measured bottomhole pressures, ostensibly due to high estimated friction pressures.
- 4. The service company calculated bottomhole pressures near the end of the treatment suggest that a screenout was imminent, while the TAS measured bottomhole pressures do not indicate an imminent screenout.
- 5. The ascending TAS measured bottomhole pressures up through the middle of the proppant ramp suggest high near-wellbore friction.

ProTechnics, a Core Laboratories Company, does not warrant the accuracy of any interpretation or conclusions based on the data contained herein. ProTechnics will not be liable for direct or indirect losses as a result of the use of the data or interpretation in this report.

This report is based on the pressure and temperature data recorded by ProTechnics's Telemetry Acquisition System. All well and treatment information was supplied by the operator or service company.

ProTechnics, October 1998

DATE: December 14,1998 NAME: NEWBERRY 12M FORM: GALLUP LOCATION UNIT: P SEC: 4 32 TWN: 31N N RNG: 12W	⊢ <u>r</u> s n	LEGEND COMPLETION DATE WELL NAME MCF/D-CUM(MMF) BOP/D-CUM(MMB0)
[34]	[3]	[10]
[33]	[4]	[6]
[32]	[5]	[8]

Conoco Inc. Attn: Lori Thorpe 10 Desta Drive, Suite 100W Midland, TX 79705

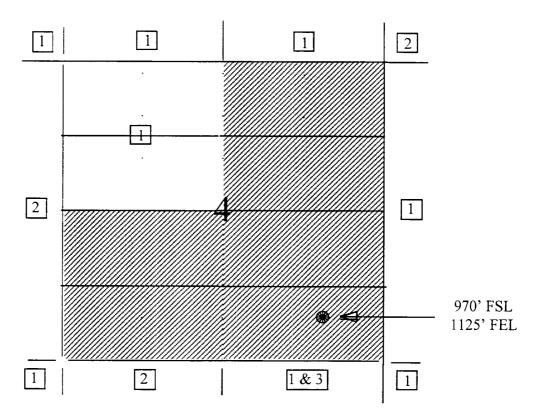
Cross Timbers Oil Company Attn: Vaughn Vennerberg 810 Houston Street, Suite 2000 Fort Worth, TX 76102-6298

BURLINGTON RESOURCES OIL AND GAS COMPANY

Newberry #12M OFFSET OPERATOR \ OWNER PLAT Downhole Commingle

Mesaverde (S/2) / Mancos (SE/4) / Dakota (E/2) Formations Well

Township 31 North, Range 12 West



- 1) Burlington Resources
- 2) Amoco Production Company c/o Bruce Zimney PO Box 800 Denver, CO 80201
- Conoco Inc.
 Desta Drive, Suite 100 W
 Midland, TX 79705-4500