DATE IN 3/17/97 SUSPENSE 4/7/97 ENGINEER BS LOGGED MV TYPE DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



ADMINISTRATIVE APPLICATION COVERSHEET
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [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 - Directional Drilling NSL NSP DD DSD MAR 17 1997
Check One Only for [B] and [C] [B] Commingling - Storage - Measurement DHC CTB PC OLS OLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[A] Working, Royalty or Overriding Royalty Interest Owners
[B] Soffset 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]
[F] Waivers are Attached
[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rul and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.
Note: Statement must be completed by an individual with supervisory capacity.

Peggy Bradfield	Sha Whiled	Regulatory/Compliance Administrator
Print or Type Name	Signature	Title

5-13-97 Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

March 12, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re:

San Juan 28-6 Unit #104M

790'FNL, 1815'FWL, Section 8, T-27-N, R-6-W, Rio Arriba County, NM

API # 30-039-25629

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is a new drill Mesa Verde/Dakota well for the 1997 Program.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Expected production curve for both Mesa Verde and Dakota;
- 4. Notification list of offset operators;
- Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10696 dated November 12, 1996.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

xc: Bureau of Land Management

DISTRICT I

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

DISTRICT II

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

DISTRICT III

SIGNATURE_

TYPE OR PRINT NAME __ Sean Woolverton___

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

__ YES ___ NO

PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil & Gas Company** Address San Juan 28-6 Unit 104M F 08-27-6 Rio Arriba Well No County Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more) OGRID NO. _14538___ __ Property Code _7462___ API NO_ 30-039-25629_ _Federal __X_ _ , State __ _(and/or) Fee The following facts are submitted in support of downhole commingling: Intermediate Zone Basin Dakota - 71599 Blanco Mesaverde - 72319 1. Pool Name and Pool Code will be supplied upon completion will be supplied upon completion 2. Top and Bottom of Pay Section (Perforations) 3. Type of production (Oil or Gas) 4. Method of Production (Flowing or Artificial Lift) flowing flowing (Current) a. 456 psi (see attachment) 5. Bottomhole Pressure a. 739 psi (see attachment) Oil Zones - Artificial Lift: Estimated Current Estimates Gas & Oil - Flowing: Measured Current (Original) b. 1274 psi (see attachment) b. 3221 psi (see attachment) b. All Gas Zones: Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content BTU 1173 **BTU 1083** shut in 7. Producing or Shut-In? shut in Production Marginal? (yes or no) If Shut-In and oil/gas/water rates of last production Date: Date: n/a Date: n/a Rates Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give data and oil/gas/water water of recent test (within 60 days) Date: n/a Date: Date: n/a Rates: Rates Gas: % Gas: 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) Oil: Oil: will be supplied upon completion will be supplied upon completion If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? Yes _ Yes XNo Will cross-flow occur? _x_ Yes _ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. _x_ Yes ____No (If No, attach explanation) 11. Will cross-flow occur? 12. Are all produced fluids from all commingled zones compatible with each other? __x_ Yes ___ No 13. Will the value of production be decreased by commingling? ___ Yes _X_ No (If Yes, attach explanation) 14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. _X_yes ___ No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). __Reference R-10696_attached_ 16. 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 all offset operators. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Sean Workerton____TITLE_Production_Engineer_____DATE___3/12/97_

__ TELEPHONE NO. (505) 326-9700_

#0. Hobbs, NM 88241-1980

State of New Mexico

Form C-102 Revised February 21, 1994

instructions on back

Submit to Appropriate District Office

State Lease - - Copies Fee Lease - 3 Copies

Drawer OD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztee, NM 87410

District IV

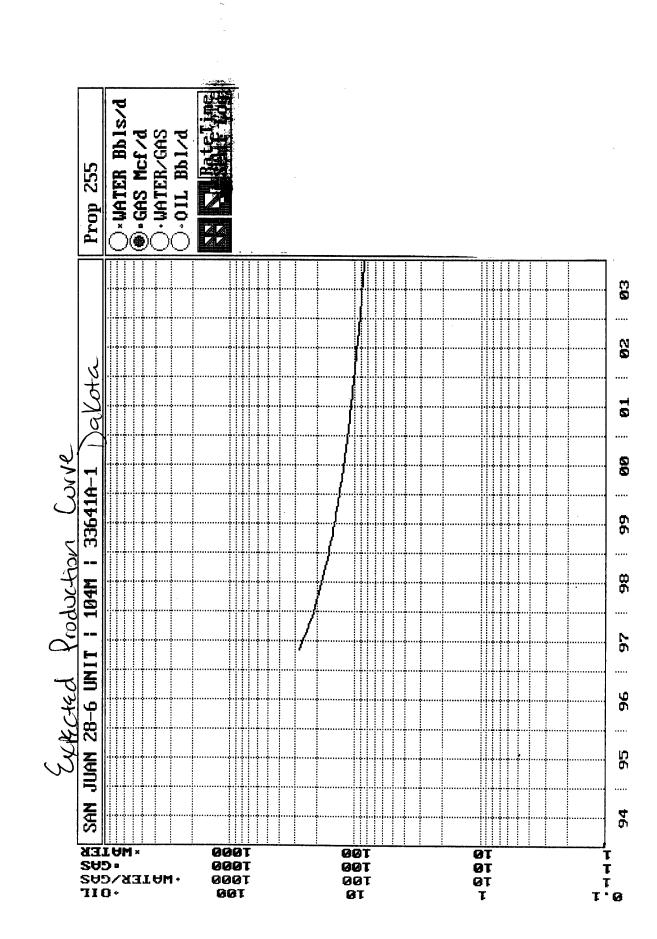
PO Box 2088. Santa Fe. NM 87504-2088

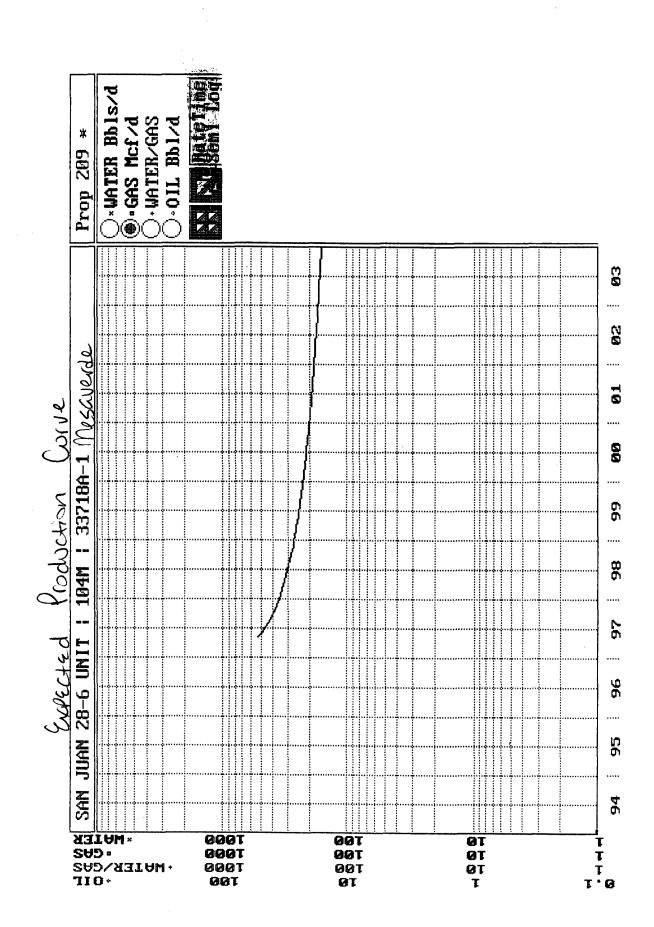
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Pool Name API Number 1 Pool Code 72319/71599 Blanco Mesaverde/Basin Dakota 30-039-· Well Number Property Code Property Name 104M 7462 San Juan 28-6 Unit OGRID No. Operator Name · Eleveuse BURLINGTON RESOURCES OIL & GAS COMPANY 6184' 14538 ¹⁰ Surface Location North/South line Feet from the East West tipe Range County UL or lot se. Township Lot Ida Feet from the 1815 8 C 27-N 6-W 790 North West R.A. 11 Bottom Hole Location If Different From Surface North/South line Feet from the East West use County Section Lot Ida Feet from the Townsain Range UL or lot no. Dedicated Acres 13 Joint or Infill | 14 Consolidation Code | 15 Order No. DK-W/320 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 5214.00 1815 NM-03583 Peggy Bradficold Regulatory Administrator Title Date ed from field notes of actual surveys s correct to the best of my belief. 11/7/96 Date of Survey NM-03582

5244 36'



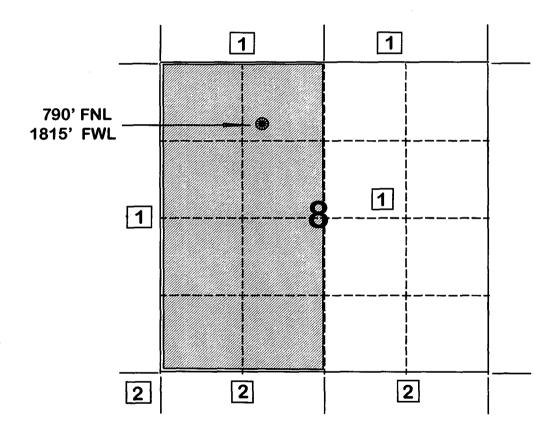


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #104M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 27 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company
- 2) UNOCAL Corp.1004 North Big Spring, Suite 300Midland, TX 79702

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.631
COND. OR MISC. (C/M)	С
%N2	0.18
%CO2	1.12
%H2S	- 0
DIAMETER (IN)	1.5
DEPTH (FT)	7312
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	630
BOTTOMHOLE PRESSURE (PSIA)	739.0

SAN JUAN 28-6 UNIT #104 DAKOTA -CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.631
COND. OR MISC. (C/M)	C
%N2	0.18
%CO2	1.12
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7312
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	
SURFACE PRESSURE (PSIA)	2701
	\
BOTTOMHOLE PRESSURE (PSIA)	3221.3

SAN JUAN 28-6 UNIT #104 DAKOTA - ORIGINAL

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.689
COND. OR MISC. (C/M)	<u>C</u>
%N2	0.27
%CO2	0.97
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5153
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	402
•	
BOTTOMHOLE PRESSURE (PSIA)	456.1

SAN JUAN 28-6 UNIT #53 MESAVERDE - CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.689
COND. OR MISC. (C/M)	C
%N2	0.27
%CO2	0.97
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5153
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1105
BOTTOMHOLE PRESSURE (PSIA)	1273.8

SAN JUAN 28-6 UNIT #53 MESAVERDE - ORIGINAL

Page No.: 5
Print Time: Tue Mar 04 08:51:21 1997
Property ID: 4036
Property Name: SAN JUAN 28-6 UNIT | 53 | 49689A-1 55 28-6 # 104m
Table Name: K:\ARIES\RR97PDP\TEST.DBF

Mesaverde off Set

DATE	CUM_GAS		
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07/23/74 04/23/76 05/10/78 06/16/80 05/01/93	1572134 1645183 1741593 1821951 1978071		- Current

Page No.: 1

Print Time: Tue Mar 04 08:30:33 1997

Property ID: 1824

Property Name: SAN JUAN 28-6 UNIT | 104 | 44078A-1 ST Z8-L # 104 M
Table Name: K:\ARIES\RR97PDP\TEST.DBF Dalcota Offset

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