Submit 3 Copies To Appropriate District State of New Mex	ico Form C-103	
Office District I Energy, Minerals and Natura	al Resources Revised March 25, 1999	
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.	
District II 811 South First, Artesia, NM 88210 OIL CONSERVATION	DIVISION 30-045-30960 5 Indicate Trans of Large	
District III 2040 South Pache	5. Indicate Type of Lease STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV Santa Fe, NM 875	6. State Oil & Gas Lease No.	
2040 South Pacheco, Santa Fe, NM 87505 NMSF-03356		
SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A Name Name or Unit Agreement		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH		
PROPOSALS.)		
1. Type of Well: Oil Well ☐ Gas Well ☒ Other:		
2. Name of Operator: Devon Energy Production Co. L.P. 8. Well No.		
77A		
Address of Operator: Pool name or Wildcat:		
20 North Broadway, Oklahoma City, OK 73 Attn: Diane Busch	102 Basin-Dakota	
Attil. Dialie Buscii		
3. Well Location 2		
Hait Latter Co. 1200 for formatic New L. 1000 C. (C. d. W.).		
Unit Letter 6: 1390 feet from the North line and 1030 feet from the West line.		
Section: 15 Township 31N Range 7V	V NMPM County San Juan	
10. Elevation (Show whether DR,		
6588' GR		
11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data		
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK ALTERING CASING	
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT	
	CASING TEST AND	
COMPLETION	CEMENT JOB	
OTHER: Down hole commingle	OTHER:	
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.		
Approval is requested to isolate the Basin-Dakota pool, perforate, frac, and test the Blanco-Mesaverde pool, then downhole		
commingle production from both zones. Please refer to attached exhibits.		
$A : (A : C \rightarrow P A \rightarrow A \rightarrow$		
<u>UHC 933AZ</u>		
I hereby certify that the information above is true and complete to the best of my knowledge and belief.		
SIGNATURE X Limb Buch TITLE Sr. Operations Technician DATE 10/03/02		
SIGNATURE		
Type or print name Diane Busch Tele	ephone No. (405) 228-4362	
(This space for State use)		
A DODD OVER DAY		
APPPROVED BY		

ATTACHMENTS TO APPLICATION TO DOWNHOLE COMMINGLE

The following information is being provided as supporting data for application to downhole commingle production from the following well:

Well: NEBU #77A

Location: SW NW, Sec. 15, T31N, R7W

San Juan County, New Mexico

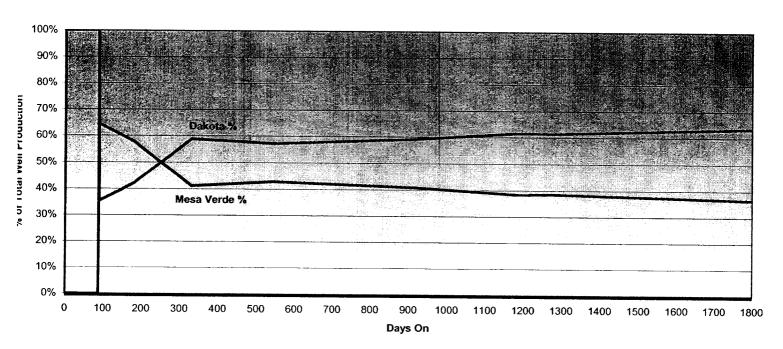
- 1. The Division order that establishes the two subject pools as pre-approved pools for commingling is Case No. 12346, Order No. R-11363.
- 2. The pools to be commingled are the Blanco-Mesaverde (72319) and the Basin-Dakota (71599).
- 3. The subject well is presently completed in the Basin-Dakota pool, the perforated interval being 7971-8138'. Perforations in the Blanco-Mesaverde are as follows: 4506', 4507', 4508', 4529', 4530', 4657', 4666', 4667', 4668', 4678', 4679', 4682', 4683', 4734', 4735', 4736', 4737', 5194', 5498', 5534', 5535', 5536', 5550', 5551', 5552', 5582', 5583', 5584', 5592', 5593', 5594', 5595', 5596', 5758', 5759', 5760', 5768', 5772', 5781', 5782', 5787', 5798.
- 4. Commingling will not reduce the value of the total remaining production in this well. Produced waters from both the Basin-Dakota and the Blanco-Mesaverde have been found to be compatible, with no evidence of scaling problems on tubulars, or of precipitate fill in the wellbore. The increased volume of gas flowing up the tubing will facilitate the well's ability to unload itself, thus increasing production and reducing potential operational problems.
- 5. Notice has been sent to all interest owners in the spacing unit by certified mail (return receipt) of Devon Energy's intent to downhole commingle production. A copy of this notice and a list of all interest owners is attached.
- 6. A copy of this notice of intent to downhole commingle has been sent to the Bureau of Land Management.

Method of Allocation

Devon Energy recommends the following procedure to allocate downhole commingled production between the Basin-Dakota and the Blanco-Mesaverde pools within the Northeast Blanco Unit:

- 1. The Basin-Dakota formation will be completed and flow tested for 30 –90 days to establish a stabilized rate and trend.
- 2. The Blanco-Mesaverde formation will be completed following the Dakota flow test and flow tested for 5 10 days to establish the initial production rate.
- 3. The two pools will be downhole commingled. Total well production will flow through common surface facilities and total produced gas will be measured using a conventional orifice plate meter tube.
- 4. Production will be allocated between the Mesa Verde and Dakota intervals by applying the variable percentage schedule to the daily total well production.

The Variable Percentage Schedule was derived using Mesa Verde and Dakota production type curves. These type curves were generated by normalizing production data from surrounding wells. The variable percentage schedule is required due to the dissimilar nature of the decline trends exhibited by the Mesa Verde and Dakota. Figure 1 depicts a typical Mesa Verde – Dakota production allocation. The actual percentages will vary from well to well, depending on well productivity.



Typical MV - DK Downhole Commingle Production % Schedule

Figure 1

The Basin-Dakota type curve was generated from normalized production of 40 offsetting Basin-Dakota producers. The Basin-Dakota type curve clearly defines the decline rate for the life of a well. Comparison of this type curve with the production schedule obtained by using flow test data demonstrates the reliability of this method for projecting production. (See Figure 2) The curve covers a three and one half year period with a variance in cumulative normalized production of only 165 MCF.

Dakota Type Curve

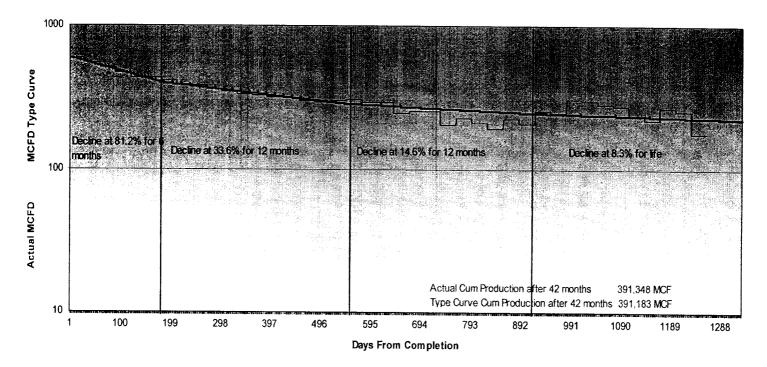


Figure 2

The Blanco – Mesa Verde type curve was generated from normalized production of 12 offsetting Blanco-Mesa Verde producers. Comparison of this type curve with the production schedule obtained by using flow test data demonstrates the reliability of this method for projecting production. (See Figure 3) The curve covers a four year period with a variance in cumulative normalized production of only 3,382 MCF.

Mesa Verde Type Curve

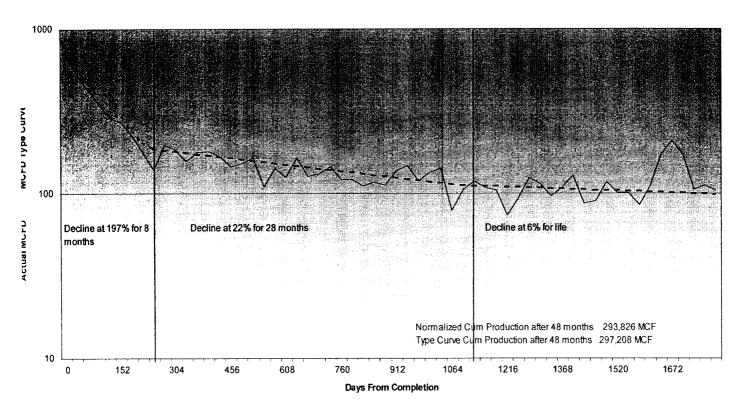


Figure 3