

# BURLINGTON RESOURCES

NOV 13 2014

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Well File

Revised: March 9, 2006

## PRODUCTION ALLOCATION FORM

OIL CONS. DIV DIST. 3

Status  
PRELIMINARY   
FINAL   
REVISED  6<sup>th</sup> Allocation

Commingle Type  
SURFACE  DOWNHOLE   
Type of Completion  
NEW DRILL  RECOMPLETION  PAYADD  COMMINGLE

NOV 18 2014

Date: 9/16/14  
API No. 30-039-31153  
DHC No. DHC3738AZ  
Lease No. SF-079520  
**Federal**

Well Name  
**San Juan 28-5 Unit**

Well No.  
#77P

Unit Letter <b>Surf- D</b>	Section <b>27</b>	Township <b>T028N</b>	Range <b>R005W</b>	Footage <b>190' FNL &amp; 15' FWL</b>	County, State <b>Rio Arriba County, New Mexico</b>
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Completion Date: **5/31/2013**  
Test Method: HISTORICAL  FIELD TEST  PROJECTED  OTHER

FORMATION	GAS	PERCENT	CONDENSATE	PERCENT
<b>MESAVERDE</b>		<b>37%</b>		<b>49%</b>
<b>DAKOTA</b>		<b>63%</b>		<b>51%</b>

**JUSTIFICATION OF ALLOCATION: Sixth Allocation:** These percentages are based upon compositional gas analysis tests from the Mesaverde and Dakota formations during completion operations. Subsequent allocations will be submitted every three months after the first delivery date. Allocation splits will keep changing until the gas analysis mole fractions stabilize. Condensate percentages are based upon the formation yields.

APPROVED BY	DATE	TITLE	PHONE
<i>Joe Smith</i>	<i>11-14-14</i>	<i>Geo</i>	<i>564-7740</i>
X <i>Erica Herring</i>	<i>11-11-14</i>	Engineer	505-326-9854
Erica Herring			
X <i>Shara Graham</i>	<i>11/11/14</i>	Engineering Tech.	505-326-9819
Shara Graham			

# COMPOSITIONAL ALLOCATION FORM

**COMPANY: CONOCOPHILLIPS**

**WELL INFORMATION**

**LOCATION:** NM028N05W027D Downhole  
**WELLNAME:** San Juan 28-5 Unit 77P  
**API NUMBER:** 3003931153  
**LEASE NUMBER:** SF-079520  
**COUNTY/ STATE:** Rio arriba, NM  
**FORMATIONS:** MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)  
**DHC # APPROVAL:** DHC3738AZ  
**ALLOCATION NUMBER:** 6

**OIL CONS. DIV DIST. 3**

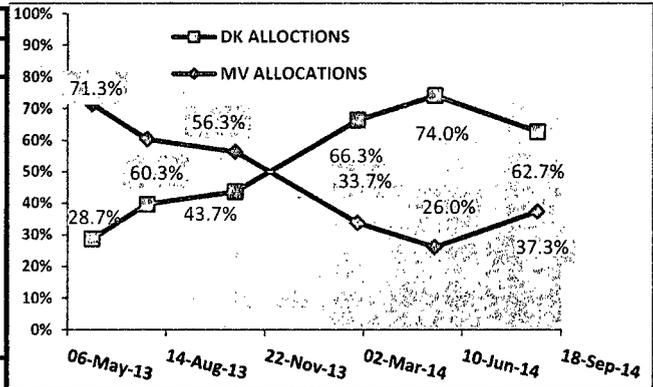
**NOV 18 2014**

**SAMPLE DATA**

**ANALYSIS FROM:** Gas Analysis Service (Phone 505-5998998)  
**ANALYSIS REF NUMBER:** CP140728 05/31/13

**SAMPLE DATE:** 8/25/2014

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.27		
CO2	1.18		
METHANE	86.42	87.7%	872.84
ETHANE	7.24	7.3%	128.17
PROPANE	2.62	2.66%	65.97
I-BUTANE	0.55	0.6%	17.72
N-BUTANE	0.70	0.7%	22.74
I-PENTANE	0.29	0.3%	11.52
N-PENTANE	0.19	0.2%	7.70
HEXANE PLUS	0.54	0.5%	28.57
	100.000		1169.90
HYDROCARBON	98.548		



**END POINTS INFORMATION**

FROM STAND ALONE WELLS OR REAL TIME DATA

END POINTS INFORMATION	METHANE		ETHANE		PROPANE		TOTAL BUTANE	
	C1MV	C1DK	C2MV	C2DK	C3MV	C3DK	C4MV	C4DK
CONCENTRATION	84.10%	89.95%	9.20%	6.53%	3.94%	1.73%	1.77%	0.84%
Confidence ratio*	8.4		7.5		11.31		5.3	

\*(Endpoints diff / Observed Variance)

If red, Member Conf ratio too low to be used for allocation purposes

Allocations*	MV	DK	MV	DK	MV	DK	MV	DK
		39.0%	61.0%	31%	69%	42%	58%	18%

Calculated using formulas below

**MV ALLOC=** DKendP-Mix / DKendP-MVendP  
**DK ALLOC=** Mix-MVPend / DKendP-MVendP

**CENTRAL MEMBER\***

CONF RATIO	COMP
11.3	C3
<b>CM ALLOC</b>	
MV	DK
42%	58%

\*Central Member (Component with higher Confidence Ratio)

**ALLOCATION CALCULATION**

ONLY THOSE COMPONENTS WHOSE ALLOCATIONS ARE 15% POINTS WITHIN THE CENTRAL MEMBER WILL BE USED FOR THE AVERAGE ESTIMATION (Zeros and Neg Discarded)

15% Check

C1	MV ALL	39.000%
C2		31.000%
C3		42.000%
C4		

**OFFICIAL GAS ALLOC**

MV	DK
37.3%	62.7%
Oil	Gas
49%	51%

\* Oil allocation based on Historical yields  
\* If both are zero then Oil alloc= Gas alloc

**SIGNATURES**

NAME	TITLE	DATE	SIGNATURE
_____	_____	_____	_____