

# BURLINGTON RESOURCES

NOV 13 2014

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Revised: March 9, 2006

## PRODUCTION ALLOCATION FORM

OIL CONS. DIV DIST. 3

Commingle Type

SURFACE ☐ DOWNHOLE ☒

Type of Completion

NEW DRILL ☒ RECOMPLETION ☐ PAYADD ☐ COMMINGLE ☐

NOV 18 2014

Status

PRELIMINARY ☒FINAL ☐REVISED ☒ 6<sup>th</sup> Allocation

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

Surf- D

Section

27

Township

T028N

Range

R005W

Footage

190' FNL &amp; 15' FWL

County, State

Rio Arriba County,  
New Mexico

Completion Date

5/31/2013

Test Method

HISTORICAL ☐ FIELD TEST ☒ PROJECTED ☐ OTHER ☐

FORMATION

MESAVERDE

GAS

PERCENT

37%

CONDENSATE

PERCENT

49%

DAKOTA

63%

51%

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

Joe Smith

11-14-14

Geo

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Engineering Tech.

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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**

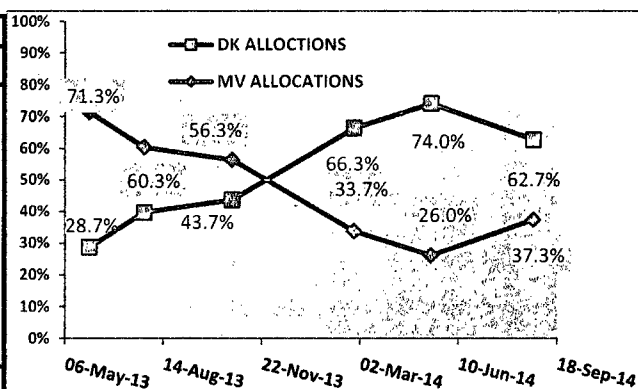
**NOV 18 2014**

**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

	MV	DK	MV	DK	MV	DK	MV	DK
Allocations*	39.0%	61.0%	31%	69%	42%	58%	18%	82%

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

OFFICIAL GAS ALLOC	
MV	DK
37.3%	62.7%
Oil	Oil
49%	51%

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

**SIGNATURES**

NAME	TITLE	DATE	SIGNATURE
_____	_____	_____	_____
_____	_____	_____	_____