

JUL 20 2015

Area: «TEAM»

<h1 style="margin: 0;">BURLINGTON</h1> <h2 style="margin: 0;">RESOURCES</h2> <h3 style="margin: 10px 0 0 0;">PRODUCTION ALLOCATION FORM</h3>					Distribution: BLM 4 Copies Regulatory Accounting Well File Revised: March 9, 2006		
Commingle Type SURFACE <input type="checkbox"/> DOWNHOLE <input checked="" type="checkbox"/>					Status PRELIMINARY <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> REVISED <input type="checkbox"/>		
Type of Completion NEW DRILL <input type="checkbox"/> RECOMPLETION <input type="checkbox"/> PAYADD <input type="checkbox"/> COMMINGLE <input checked="" type="checkbox"/>					Date: <b>10/1/2009</b> API No. <b>30-045-11222</b> DHC No. <b>DHC1384</b> Lease No. <b>FEE</b>		
Well Name <b>Culpepper Martin</b>					Well No. <b>#13</b>		
Unit Letter <b>N</b>	Section <b>29</b>	Township <b>T032N</b>	Range <b>R012W</b>	Footage <b>990' FSL &amp; 1760' FWL</b>	County, State <b>San Juan County, New Mexico</b>		
Completion Date		Test Method HISTORICAL <input type="checkbox"/> FIELD TEST <input checked="" type="checkbox"/> PROJECTED <input type="checkbox"/> OTHER <input type="checkbox"/>					
FORMATION <b>MESAVERDE</b>		GAS		PERCENT <b>81%</b>		CONDENSATE <b>7%</b>	
<b>DAKOTA</b>				<b>19%</b>		<b>93%</b>	
JUSTIFICATION OF ALLOCATION: <b>Final.</b> These percentages are based upon compositional gas analysis tests from the Mesaverde and Dakota formations. Zonal contributions have stabilized as the well has been commingled since 1997. No subsequent samples will be gathered. Condensate percentages are based upon the formation yields.							
APPROVED BY			DATE		TITLE		PHONE
X <i>Eph. Schofield</i>			7-14-15		Engineer		505-326-9826
Ephraim Schofield							

*PL 2*

# COMPOSITIONAL ALLOCATION FORM

**COMPANY: CONOCOPHILLIPS**

**FINAL REPORT**

**WELL INFORMATION**

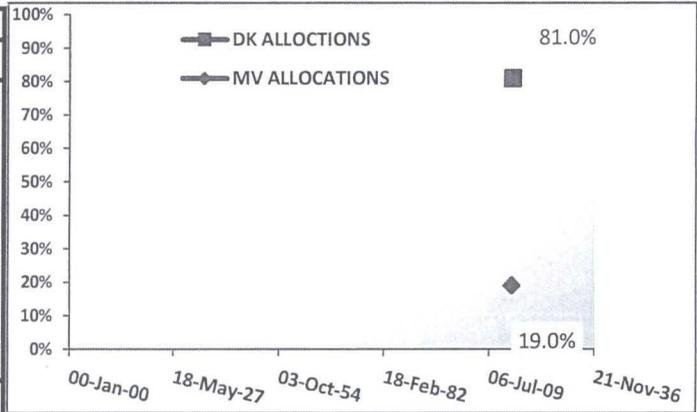
**LOCATION:** NM032N12W029N Downhole  
**WELLNAME:** Culpepper Martin 13  
**API NUMBER:** 3004511222  
**LEASE NUMBER:**  
**COUNTY/ STATE:** San Juan, NM  
**FORMATIONS:** MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)  
**DHC # APPROVAL:**  
**ALLOCATION NUMBER:** 1FINAL REPORT

**FINAL REPORT**

**SAMPLE DATA**

**ANALYSIS FROM:** Gas Analysis Service (Phone 505-5998998)  
**ANALYSIS REF NUMBER:** CP150307 06/18/15

SAMPLE DATE:	6/18/2015		
COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.29		
CO2	1.79		
METHANE	83.34	85.1%	841.78
ETHANE	9.31	9.5%	164.79
PROPANE	3.20	3.26%	80.41
I-BUTANE	0.58	0.6%	18.79
N-BUTANE	0.70	0.7%	22.68
I-PENTANE	0.27	0.3%	10.60
N-PENTANE	0.17	0.2%	6.65
HEXANE PLUS	0.37	0.4%	19.40
	100.000		1186.07
HYDROCARBON	97.923		



**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	82.04%	85.91%	10.13%	8.56%	4.41%	3.03%	2.05%	1.38%
Confidence ratio*	5.8		3.7		5.39		3.0	

\*(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*	21.0%	79.0%	Low Conf	Low Conf	17%	83%	Low Conf	Low Conf

\*Calculated using formulas below

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

CENTRAL MEMBER*	
CONF RATIO	COMP
5.8	C1
CM ALLOC	
MV	DK
21%	79%

\*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	21.000%
C2	
C3	17.000%
C4	

OFFICIAL GAS ALLOC	
MV	DK
19.0%	81.0%
Oil*	Oil*
7%	93%

\* Oil allocation based on Historical yields

\* If both are zero then Oil alloc= Gas alloc

**SIGNATURES**

NAME	TITLE	DATE	SIGNATURE
Ephraim Schofield	Reservoir Engineer	7-7-15	