

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 Final
Allocation

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

NOV 18 2014

Date: 9/29/2014
API No. 30-039-31126
DHC No. DHC3716AZ
Lease No. SF-077842
Federal

Well Name
San Juan 29-7 Unit

Well No.
#102B

Unit Letter	Section	Township	Range	Footage	County, State
Surf- F	15	T029N	R007W	1610' FNL & 1960' FWL	Rio Arriba County, New Mexico
BH- L	15	T029N	R007W	2577' FSL & 1312' FWL	

Completion Date 1/29/2013	Test Method HISTORICAL <input type="checkbox"/> FIELD TEST <input checked="" type="checkbox"/> PROJECTED <input type="checkbox"/> OTHER <input type="checkbox"/>
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FORMATION	GAS	PERCENT	CONDENSATE	PERCENT
MESAVERDE		71%		96%
DAKOTA		29%		4%

JUSTIFICATION OF ALLOCATION: Final 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 Howell</i>	11-14-14	Geo	564-7740
X <i>Erica Herring</i>	11.11.14	Engineer	505-326-9854
Erica Herring			
X <i>Shara Graham</i>	11/11/14	Engineering Tech.	505-326-9819
Shara Graham			

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

FINAL REPORT

WELL INFORMATION

LOCATION: NM029N07W015L Downhole
WELLNAME: San Juan 29-7 Unit 102B
API NUMBER: 3003931126
LEASE NUMBER: SF-077842
COUNTY/ STATE: Rio arriba, NM
FORMATIONS: MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)
DHC # APPROVAL: DHC3716AZ
ALLOCATION NUMBER: 3FINAL REPORT

OIL CONS. DIV DIST. 3

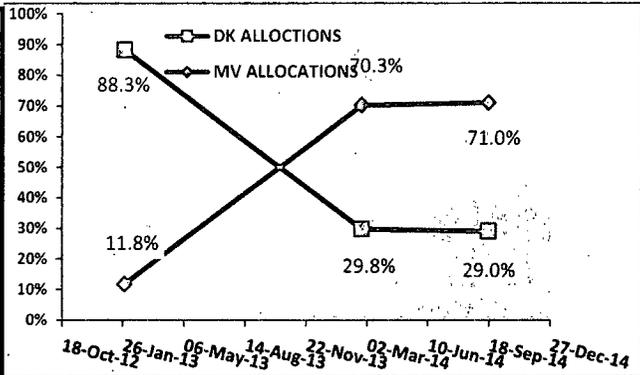
NOV 18 2014

FINAL REPORT

SAMPLE DATA

ANALYSIS FROM: Gas Analysis Service (Phone 505-5998998)
ANALYSIS REF NUMBER: CP140740 01/29/13

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.23		
CO2	1.24		
METHANE	84.66	85.9%	855.10
ETHANE	7.75	7.9%	137.11
PROPANE	3.27	3.32%	82.28
I-BUTANE	0.66	0.7%	21.36
N-BUTANE	0.90	0.9%	29.47
I-PENTANE	0.36	0.4%	14.32
N-PENTANE	0.25	0.3%	10.06
HEXANE PLUS	0.68	0.7%	35.74
	100.000		1200.30
HYDROCARBON	98.527		



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	82.47%	96.66%	10.05%	2.62%	4.37%	0.35%	1.95%	0.21%
Confidence ratio*	19.8		26.1		24.75		10.6	

*(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
		76.0%	24.0%	71%	29%	74%	26%	61%

Calculated using formulas below

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

CENTRAL MEMBER*	
CONF. RATIO	COMP.
26.1	C2
CM ALLOC	
MV	DK
71%	29%

*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	76.000%
C2	71.000%
C3	74.000%
C4	61.000%

OFFICIAL GAS ALLOC	
MV	DK
71.0%	29.0%
96%	4%

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

SIGNATURES

NAME	TITLE	DATE	SIGNATURE
_____	_____	_____	_____

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

LOCATION: NM029N07W015L Downhole
 WELLNAME: San Juan 29-7 Unit 102B
 API NUMBER: 3003931126
 LEASE NUMBER: SF-077842
 COUNTY/ STATE: Rio arriba, NM
 FORMATIONS: MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)
 DHC # APPROVAL: DHC3716AZ
 ALLOCATION NUMBER: 2

SAMPLE DATA

ANALYSIS FROM: Gas Analysis Service (Phone 505-5998998)
 ANALYSIS REF NUMBER: CP140174

SAMPLE DATE: 2/21/2014

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.278		
CO2	1.207		
METHANE	84.732	86.0%	856.64
ETHANE	7.754	7.9%	138.25
PROPANE	3.274	3.3%	84.21
I-BUTANE	0.654	0.7%	21.09
N-BUTANE	0.910	0.9%	29.35
I-PENTANE	0.350	0.4%	13.93
N-PENTANE	0.249	0.3%	9.91
HEXANE PLUS	0.592	0.6%	27.63
	100.000		1181.02
HYDROCARBON	98.515		

FROM LAB (MIXED GAS)

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
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Confidence ratio*	19.8		26.1		24.7		10.6	

*(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
		75%	25%	71%	29%	74%	26%	61%

Calculated using formulas below
 MV ALLOC= $\frac{DK_{endP-Mix}}{DK_{endP-MV_{endP}}}$
 DK ALLOC= $\frac{Mix-MV_{endP}}{DK_{endP-MV_{endP}}}$

87.6 CENTRAL MEMBER*

CONF RATIO	COMP
26.1	C2
CM ALLOC	
MV	DK
71%	29%

*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

15% Check	MV ALL
C1	75.00%
C2	71.00%
C3	74.00%
C4	61%

OFFICIAL GAS ALLOC	
MV	DK
70.3%	29.8%
OIL	OIL
96%	4%

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

SIGNATURES

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

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

LOCATION: NM029N07W015L Downhole
 WELLNAME: San Juan 29-7 Unit 102B
 API NUMBER: 3003931126
 LEASE NUMBER: SF-077842
 COUNTY/ STATE: Rio arriba, NM
 FORMATIONS: MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)
 DHC # APPROVAL: DHC3716AZ
 ALLOCATION NUMBER: 2

OIL CONS. DIV DIST. 3

NOV 18 2014

SAMPLE DATA

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SAMPLE DATE: 2/21/2014

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N-PENTANE	0.249	0.3%	9.91
HEXANE PLUS	0.592	0.6%	27.63
	100.000		1181.02
HYDROCARBON	98.515		

FROM LAB (MIXED GAS)

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
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Calculated using formulas below
 MV ALLOC= $\frac{DK_{endP-Mix} - DK_{endP-MVendP}}{DK_{endP-Mix} - DK_{endP-MVendP}}$
 DK ALLOC= $\frac{Mix - MV_{endP}}{DK_{endP-MVendP} - MV_{endP}}$

87.6 CENTRAL MEMBER*

CONF. RATIO	COMP.
26.1	C2
CM ALLOC	
MV	DK
71%	29%

*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

15% Check	MV ALL
C1	75.00%
C2	71.00%
C3	74.00%
C4	61%

OFFICIAL GAS ALLOC	
MV	DK
70.3%	29.8%
Oil	Oil
96%	4%

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

SIGNATURES

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

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

FINAL REPORT

WELL INFORMATION

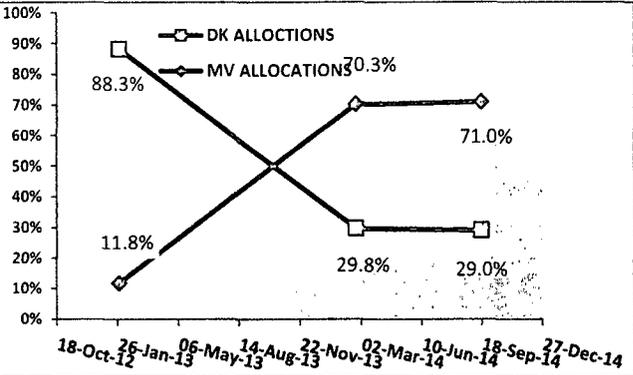
LOCATION: NM029N07W015L Downhole
WELLNAME: San Juan 29-7 Unit 102B
API NUMBER: 3003931126
LEASE NUMBER: SF-077842
COUNTY/ STATE: Rio arriba, NM
FORMATIONS: MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)
DHC # APPROVAL: DHC3716AZ
ALLOCATION NUMBER: 3FINAL REPORT

FINAL REPORT

SAMPLE DATA

ANALYSIS FROM: Gas Analysis Service (Phone 505-5998998)
ANALYSIS REF NUMBER: CP140740 01/29/13

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.23		
CO2	1.24		
METHANE	84.66	85.9%	855.10
ETHANE	7.75	7.9%	137.11
PROPANE	3.27	3.32%	82.28
I-BUTANE	0.66	0.7%	21.36
N-BUTANE	0.90	0.9%	29.47
I-PENTANE	0.36	0.4%	14.32
N-PENTANE	0.25	0.3%	10.06
HEXANE PLUS	0.68	0.7%	35.74
HYDROCARBON			1200.30
98.527			



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	82.47%	96.66%	10.05%	2.62%	4.37%	0.35%	1.95%	0.21%
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*(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
		76.0%	24.0%	71%	29%	74%	26%	61%

Calculated using formulas below

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

CENTRAL MEMBER*	
CONF RATIO	COMP
26.1	C2
CM ALLOC	
MV	DK
71%	29%

*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	76.000%
C2	71.000%
C3	74.000%
C4	61.000%

OFFICIAL GAS ALLOC	
MV	DK
71.0%	29.0%
Oil	Oil
96%	4%

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

SIGNATURES

NAME	TITLE	DATE	SIGNATURE

LOCATION: NM029N07W015L Downhole
WELLNAME: San Juan 29-7 Unit 102B
API NUMBER: 3003931126
LEASE NUMBER: SF-077842
COUNTY/ STATE: Rio arriba, NM
FORMATIONS: MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)
DHC # APPROVAL: DHC3716AZ
ALLOCATION NUMBER: 1

OIL CONS. DIV DIST. 3

NOV 18 2014

SAMPLE DATA

ANALYSIS FROM: Gas Analysis Service (Phone 505-5998998)
ANALYSIS REF NUMBER: CP130095

SAMPLE DATE: 1/29/2013			
COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	5.07		
CO2	1.52		
METHANE	88.37	94.6%	893.37
ETHANE	3.23	3.5%	57.59
PROPANE	0.82	0.9%	21.01
I-BUTANE	0.24	0.3%	7.68
N-BUTANE	0.21	0.2%	6.71
I-PENTANE	0.12	0.1%	4.78
N-PENTANE	0.06	0.1%	2.47
HEXANE PLUS	0.38	0.4%	17.59
	100.000		1011.20
HYDROCARBON	93.417		

FROM LAB (MIXED GA)

FROM STAND ALONE WELLS OR REAL TIME DATA

END POINTS INFORMATION

END POINTS INFORMATION	METHANE		ETHANE		PROPANE		TOTAL BUTANE	
	C1MV	C1DK	C2MV	C2DK	C3MV	C3DK	C4MV	C4DK
CONCENTRATION	82.47%	96.66%	10.05%	2.62%	4.37%	0.35%	1.95%	0.21%
Confidence ratio*	19.8		26.1		24.7		10.6	

*(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
		15%	85%	11%	89%	13%	87%	8%

Calculated using formulas below
 MV ALLOC= $\frac{DK_{endP-Mix}}{DK_{endP-MVendP}}$
 DK ALLOC= $\frac{Mix-MVPend}{DK_{endP-MVendP}}$

87.6 CENTRAL MEMBER*

CONF RATIO	COMP
26.1	C2
CM ALLOC	
MV	DK
11%	89%

*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

15% Check	MV ALL
C1	15%
C2	11%
C3	13%
C4	8%

OFFICIAL GAS ALLOC	
MV	DK
11.8%	88.3%
56%	44%

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

SIGNATURES

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