Area: «TEAM»

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Revised: March 9, 2006

PRODUCTION ALLOCATION FORM

Status
PRELIMINARY ☐
FINAL ☒
REVISED

Date: **7/18/14**

Commingle Type
SURFACE ☐ DOWNHOLE ☒

Type of Completion
NEW DRILL ☒ RECOMPLETION ☐ PAYADD ☐ COMMINGLE ☐

API No. **30-045-35262**
DHC No. **DHC3645AZ**
Lease No. **SF-078135**
Federal

Well Name
Huerfanito Unit

Well No.
#98N

Unit Letter	Section	Township	Range	Footage	County, State
Surf- I **BH-**	**35**	**T027N**	**R009W**	**1675' FSL & 285' FEL**	**San Juan County, New Mexico**

Completion Date
4/19/2012

Test Method
HISTORICAL ☐ FIELD TEST ☒ PROJECTED ☐ OTHER ☐

FORMATION	GAS	PERCENT	CONDENSATE	PERCENT
MESAVERDE		**96%**		**98%**
DAKOTA		**4%**		**2%**

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
Joe Hewitt	7-25-14	Geo	564-7740
X	7/23/14	Engineer	505-599-4081
Steve Read			
X Shara Graham	7/14/18	Engineering Tech.	505-326-9819
Shara Graham			

NMOCD

10

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS — FINAL REPORT

WELL INFORMATION

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	San Juan, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	8FINAL REPORT	FINAL REPORT

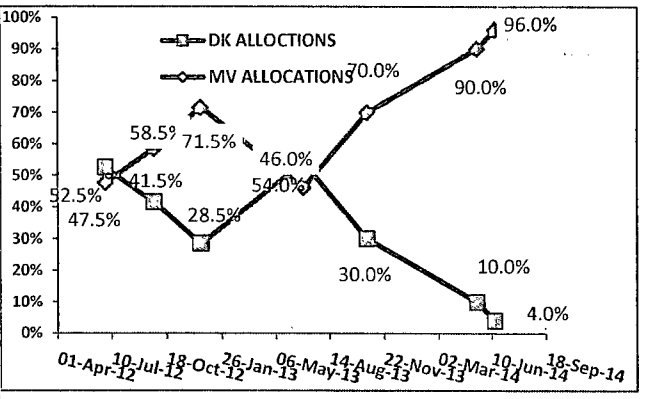
SAMPLE DATA

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

ANALYSIS REF NUMBER: CP140519 04/18/12

SAMPLE DATE: 6/16/2014

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.44		
CO2	0.80		
METHANE	75.76	77.5%	765.14
ETHANE	10.59	10.8%	187.42
PROPANE	6.18	6.32%	155.39
I-BUTANE	1.21	1.2%	39.21
N-BUTANE	1.81	1.9%	59.09
I-PENTANE	0.66	0.7%	26.56
N-PENTANE	0.50	0.5%	19.96
HEXANE PLUS	1.06	1.1%	56.03
	100.000		1331.39
HYDROCARBON	97.764		



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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.94		3.2	

*(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*	132.0%	-32.0%	Low Conf	Low Conf	96%	4%	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
7.9	C3
CM ALLOC	
MV	DK
96%	4%

*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	
C2	
C3	96.000%
C4	

OFFICIAL GAS ALLOC	
MV	DK
96.0%	4.0%
Oil*	Oil*
98%	2%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	7	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP140401

SAMPLE DATE: 5/14/2014

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.562		
CO2	0.810		
METHANE	76.497	78.4%	773.38
ETHANE	10.597	10.9%	188.94
PROPANE	6.024	6.2%	154.94
I-BUTANE	1.141	1.2%	36.80
N-BUTANE	1.641	1.7%	52.92
I-PENTANE	0.543	0.6%	21.62
N-PENTANE	0.382	0.4%	15.21
HEXANE PLUS	0.803	0.8%	37.48
	100.000		1281.29
HYDROCARBON	97.628		

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
CONCENTRATION	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	114%	-14%	Low Conf	Low Conf	90%	10%	Low Conf	Low Conf

*Calculated using formulas below

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

87.6 CENTRAL MEMBER*

CONF RATIO	COMP
7.9	C3

CM ALLOC	
MV	DK
90%	10%

*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	
C2	
C3	90.00%
C4	

OFFICIAL GAS ALLOC	
MV	DK
90.0%	10.0%
Oil*	Oil*
96%	4%

* Oil allocation based on Historical yields

* If both are zero then Oil alloc= Gas alloc

SIGNATURES

NAME	TITLE	DATE	SIGNATURE

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	6	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP130847

SAMPLE DATE: 10/22/2013

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.58		
CO2	0.89		
METHANE	77.26	79.2%	781.06
ETHANE	10.15	10.4%	181.01
PROPANE	5.46	5.6%	140.35
I-BUTANE	1.15	1.2%	36.96
N-BUTANE	1.61	1.6%	51.76
I-PENTANE	0.63	0.6%	25.00
N-PENTANE	0.46	0.5%	18.23
HEXANE PLUS	0.83	0.8%	38.50
	100.000		1272.88
HYDROCARBON	97.527		

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	97%	3%	Low Conf	Low Conf	70%	30%	Low Conf	Low Conf.

Calculated using formulas below

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

87.6 CENTRAL MEMBER*

CONF RATIO	COMP
7.9	C3
CM ALLOC	
MV	DK
70%	30%

*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	
C2	
C3	70%
C4	

OFFICIAL GAS ALLOC	
MV	DK
70.0%	30.0%
OIL*	OIL*
86%	14%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	5	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP130643

SAMPLE DATE: 6/25/2013

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.69		
CO2	1.00		
METHANE	78.32	80.5%	791.79
ETHANE	9.74	10.0%	173.63
PROPANE	4.82	4.9%	123.84
I-BUTANE	1.08	1.1%	34.93
N-BUTANE	1.39	1.4%	44.89
I-PENTANE	0.61	0.6%	24.28
N-PENTANE	0.44	0.4%	17.36
HEXANE PLUS	0.92	0.9%	42.94
	100.000		1253.66
HYDROCARBON	97.312		

FROM LAB (MIXED GAS)

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	72%	28%	Low Conf	Low Conf	46%	54%	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
7.9	C3
CM ALLOC	
MV	DK
46%	54%

*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	
C2	
C3	46%
C4	

OFFICIAL GAS ALLOC	
MV	DK
46.0%	54.0%
Oil*	Oil*
69%	31%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	4	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP121029

SAMPLE DATE: 12/19/2012

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.62		
CO2	0.64		
METHANE	78.69	80.5%	795.60
ETHANE	10.56	10.8%	188.27
PROPANE	5.54	5.7%	142.57
I-BUTANE	1.09	1.1%	35.06
N-BUTANE	1.10	1.1%	35.57
I-PENTANE	0.34	0.3%	13.38
N-PENTANE	0.19	0.2%	7.72
HEXANE PLUS	0.22	0.9%	10.45
	100.000		1228.61
HYDROCARBON	97.740		

FROM LAB (MIXED GAS)

FROM STAND ALONE WELLS OR REAL TIME DATA

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	71%	29%	Low Conf	Low Conf	72%	28%	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
7.9	C3
CM ALLOC	
MV	DK
72%	28%

*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	71%
C2	
C3	72%
C4	

OFFICIAL GAS ALLOC	
MV	DK
71.5%	28.5%
OIL	OIL
87%	13%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	3	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP120715

SAMPLE DATE: 9/25/2012

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	1.93		
CO2	0.78		
METHANE	78.91	81.1%	797.74
ETHANE	10.12	10.4%	180.44
PROPANE	5.10	5.2%	131.22
I-BUTANE	1.04	1.1%	33.48
N-BUTANE	1.12	1.2%	36.15
I-PENTANE	0.37	0.4%	14.77
N-PENTANE	0.23	0.2%	9.16
HEXANE PLUS	0.41	0.4%	19.09
	100.000		1222.04
HYDROCARBON	97.297		

FROM LAB (MIXED GAS)

FROM STAND ALONE WELLS OR REAL TIME DATA

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	60%	40%	Low Conf	Low Conf	57%	43%	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
7.9	C3
CM ALLOC	
MV	DK
57%	43%

*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	60%
C2	
C3	57%
C4	

OFFICIAL GAS ALLOC	
MV	DK
58.5%	41.5%
OIP	OIP
79%	21%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	2	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP120509

SAMPLE DATE: 6/28/2012

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	5.34		
CO2	0.89		
METHANE	76.32	81.4%	771.61
ETHANE	9.50	10.1%	169.33
PROPANE	4.50	4.8%	115.69
I-BUTANE	0.97	1.0%	31.22
N-BUTANE	1.08	1.1%	34.77
I-PENTANE	0.44	0.5%	17.44
N-PENTANE	0.28	0.3%	11.31
HEXANE PLUS	0.68	0.7%	31.64
	100.000		1182.99
HYDROCARBON	93.762		

FROM LAB (MIXED GAS)

FROM STAND ALONE WELLS OR REAL TIME DATA

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	54%	46%	Low Conf	Low Conf	41%	59%	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
7.9	C3
CM ALLOC	
MV	DK
41%	59%

*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	54%
C2	
C3	41%
C4	

OFFICIAL GAS ALLOC	
MV	DK
47.5%	52.5%
Oil*	Oil*
70%	30%

* 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

LOCATION:	NM027N09W035I	Downhole
WELLNAME:	Huerfanito 98N	
API NUMBER:	3004535262	
LEASE NUMBER:	SF-078135	
COUNTY/ STATE	Rio arriba, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3645AZ	
ALLOCATION NUMBER	1	

SAMPLE DATA

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

ANALYSIS REF NUMBER: CP120191

SAMPLE DATE:	4/18/2012		
COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	18.50		
CO2	1.03		
METHANE	67.01	83.3%	677.47
ETHANE	7.74	9.6%	138.08
PROPANE	3.08	3.8%	79.14
I-BUTANE	0.68	0.8%	22.03
N-BUTANE	0.80	1.0%	25.93
I-PENTANE	0.36	0.4%	14.41
N-PENTANE	0.23	0.3%	9.20
HEXANE PLUS	0.56	0.7%	26.23
	100.000		992.48
HYDROCARBON	80.473		

FROM LAB (MIXED GAS)

FROM STAND ALONE WELLS OR REAL TIME DATA

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	79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence ratio*	7.7		3.0		7.9		3.2	

*(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*	16%	84%	Low Conf	Low Conf	6%	94%	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
7.9	C3
CM ALLOC	
MV	DK
6%	94%

*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	16%
C2	
C3	6%
C4	

OFFICIAL GAS ALLOC	
MV	DK
11.0%	89.0%
OIL	OIL
24%	76%

* Oil allocation based on Historical yields

* If both are zero then Oil alloc= Gas alloc

SIGNATURES

NAME	TITLE	DATE	SIGNATURE

Area: «TEAM»

OIL CONS. DIV DIST. 3

DEC 10 2014

BURLINGTON RESOURCES

PRODUCTION ALLOCATION FORM

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Accounting
Well File
Revised: March 9, 2006

Status
PRELIMINARY ☒
FINAL ☐
REVISED ☒ 6th Allocation

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

Date: 12/09/2014

API No. **30-039-31161**
DHC No. **DHC3741AZ**
Lease No. **E-5184-49**
State

Well Name
San Juan 29-7 Unit

Well No.
#93C

Unit Letter	Section	Township	Range	Footage	County, State
Surf- J	**2**	**T029N**	**R007W**	**2636' FSL & 2206' FEL**	**Rio Arriba County, New Mexico**
BH- F	**2**	**T029N**	**R007W**	**2009' FNL & 1907' FWL**	

Completion Date
6/25/2013

Test Method
HISTORICAL ☐ FIELD TEST ☒ PROJECTED ☐ OTHER ☐

FORMATION	GAS	PERCENT	CONDENSATE	PERCENT
MESAVERDE		**49%**		**86%**
DAKOTA		**51%**		**14%**

JUSTIFICATION OF ALLOCATION: **Fifth 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.

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