nii CO	NS. DIV DIS	ST. 3							Distribution: BLM 4 Copies	
Q125 U	u 29 2014	BURI	LING	TO	M				Regulatory Accounting Well File	
J.	RESOURCES RECENTED									
	Status									
	FINAL X									
					Faii	illumber Fe	old Off	<sup>C</sup> ŘEVIS	SED	
	Commingle Type  SURFACE DOWNHOLE   Date: 7/18/14									
Type of Con		HOLE 🔼						API N	o. 30-045-35262	
		OMPLETIO	N 🔲 PAYA	ADD [	COMMIN	IGLE 🗌		DHC 1	No. <b>DHC3645AZ</b>	
	•							Lease	No. SF-078135	
								,	Federal	
Well Name					- Lu - U - V			Well N	Vo.	
Huerfanito		[ m 1:	n	Γ			<u></u> _	#98N	G.	
Unit Letter Surf- I	Section 35	Township T027N	Range R009W	167	Footage <b>5' FSL &amp; 28</b>				unty, State uan County,	
BH-	33	102/11	IXUUJYY	107		) J. P. P. L.			w Mexico	
Completion	Date	Test Method	i			,				
4/10/2	0.1.2	HISTORIC	AT FIE	וד ח ז	EST 🔀 PRO	JECTED I	ПОТ	нев Г	7	
4/19/2	W12		ar Lin	וו עום		JECTED		11121C [	<b>.</b>	
		II KANAM				指导作到			AND STATE OF	
FOR	MATION		GAS	PE	ERCENT	COND	ENSA	ΓΕ	PERCENT	
MES	AVERDE		,		96%				98%	
DA.	AKOTA				4%				2%	
									·	
									on compositional	
									s. Subsequent olits will keep	
									upon the formation	
yields.	··	antary 515 111010				F				
	<b>·新疆教</b>		的學家學			出版表示	W. L.	大批议	<b>的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>	
APPROVE	DBY		DATE				PHO			
- John Michigan	Mv 1/		7-25-1	,	6eo				7740	
X A	2		//23/	14	Engineer			505-	599-4081	
Steve Rea	ad ,									
x/ha	10 A	(chom	7/14/1	g-	Engineering	g Tech.		505-	326-9819	
Shara Gra	Shara Graham									

NMOCD

ji.

			'composit	IONAL /	ALLOCATION	JEODM			
		A Street Control of the Street	Like Landania	TONAL A	Secretaria de la Contractor			Property of the second	
COMPANY	CONOC	OPHILLIPS	<b>3</b> .			FINALIR			
WELL INFORM	ATION //								
LOCATION:		NM027N09W0	351	Downhole					
WELLNAME:		Huerfanito 981	N	•			•		
API NUMBER:		3004535262							
LEASE NUMBE	ER:	SF-078135				<u> </u>			
COUNTY/ STA	TE	San Juan, NM				₩ .			
FORMATIONS		•	CO MESAVERD	E/BASIN DA	AKOTA)	1.7			
DHC # APPRO		DHC3645AZ							
ALLOCATION	NUMBER	8FINAL REPO	PRT			FINAL REPORT			
SAMPLE DATA	THORAG.				a a salah a sa				
ANALYSIS FRO	OM:	Gas Analysis	Service (Phone 5	05-5998998)	1				
ANALYSIS REI	F NUMBER:		CP140519	04/18/12	100% ¬				
SAMPLE DATE	<b>:</b> :	6/16/2014			90%	-□-DK ALLOCTIC	ONS	96.0%	
COMPO	DNENT	MOLE %	NORM HC %	BTU	80% -	── MV ALLOCAT			• • •
NITRO	OGEN	1.44			u i	A ALLOCA	nons	90.0%	
CC	)2	0.80			70% -	<sup>59</sup> 71.5%	F		
METH	IANE	75.76	77.5%	765.14		71.5% 46.0%	: <b>/</b>		1
ETH/	ANE	10.59	10.8%	187.42	50% 1 41.	5% 5 <b>4·0%</b>	N .		
PROF		6.18	6.32%	155.39	40% 32.5% 47.5%	28.5%			i
I-BUT		1.21	1.2%	39.21	30% -				
N-BU		1.81	1.9%	59.09	20% -		30.0%	10.0%	
I-PEN		0.66	0.7%	26.56	10% -			100	,
N-PEN		0.50	0.5%	19.96	0%	<del></del>		4.0%	6
HEXANI	E PLUS	1.06	1.1%	56.03	01-Anr 10-Jul	1.18-Oct-26-Jan-06-N	14-Au 22-N	03-M-19-Jun 18	S-Sen -
		100.000	······	1331.39	41.12	- 15 - ct-15 - 1413	.ah-13.ae-13	-A-13 - al - 14 - 11-12	4-cp-14
HYDROC	CARBON	97.764			J				
END POINTS I	NFORMATION	And I have			FROM STANI	D ALONE WELLS O	R REAL TIME I	DATA REPORTED	
END POINTS II	NFORMATION	ME	THANE	E	THANE	PROPA	ANE	TOTAL	BUTANE
		C1MV	C1DK	C2MV	C2DK	C3MV	C3DK	C4MV	C4DK
CONCENTRAT	TOTAL PROPERTY OF THE PARTY OF	,79.08%	84.09%	10.65%	9.29%	6.44%	3.67%	2.72%	1.80%
Confidence rati			7.7		3.0	7.94	1	THE MANAGEMENT	32 30
*(Endpoints diff		· ·							
If red, Mem	ber Conf ratio	too low to be u	sed for allocation	purposes					
		MV	DK	MV	DK	· MV	DK	MV	DK
Allocations*		132.0%	-32.0%	Low Conf	Low Conf	96%	4%	LowConf	Low Con
	edataci	isholomile	sibolow · · · ·	<b>新爱</b>					
MV ALLOC=	DKendP-Mix	k/DKendP-MV	'endP			CENTRAL N	/IEMBER*	FI .	
DK ALLOC=	Mix-MVPen	d / DKendP-M\	VendP	ugmannar attendiden		7.9	C3		
	<u> </u>					CM AL			
:						MV 96%	DK 4%		
					! Central Membe!			⊪ onfidence Rat	io)
ALLOCATION	CALCULATIO	N. at Young							
					S WITHIN THE C s and Neg Discar		BER WILL B	E USED FOR	THE AVER
	•		ESTINIA	TION (Zero	· ·		a		
		15% Check	MV ALL			BAS ALLOC			
		C1			MV	DK			
		CO			06.00/	A 00/	П		

· OIII

98%

DATE

СЗ

C4

NAME

SIGNATURES

96.000%

TITLE

OIP.

2%

\* Oil allocation based on Historical yields.

SIGNATURE

If both are zero then Oil alloc= Gas alloc

Downhole

### **COMPANY: CONOCOPHILLIPS**

WELL INFORMATION

NM027N09W035I

LOCATION: 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

SAMPLE DATA **ANALYSIS FROM:** 

Gas Analysis Service (Phone 505-5998998)

ANALYSIS REF NUMBER:

CP140401

THE THE PARTY OF T		<del>0</del>	
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)

FROM STAND ALONE WELLS OR REAL TIME DATA

END POINTS INFORMATION	MET	HANE	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	THE RESERVE	0'	7.9	9	THE STREET	3:2°0" 2 7 7 7

<sup>\*(</sup>Endpoints diff / Observed Variance)

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

	MV	DK	M∨	DK	MV	DK	MV	DK
Allocations*	114%	-14%	Low Conf.	Low Conf	90%	10%	Low Conf	Low Conf

MV ALLOC=

DKendP-Mix / DKendP-MVendP

\*Celegration of parties below

DK ALLOC=

Mix-MVPend / DKendP-MVendP

**CENTRAL MEMBER\*** 

CONFRATIO	GOIND+
7.9	C3
CM AL	LOC
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%						
	OIP						
96%	4%						

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

SIGNATURES

NAME

TITLE

DATE

# 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

SAMPLEDATA

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	METHANE		ETH	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	7.7		0.00	7.9	9	13/44/2003	2	

<sup>\*(</sup>Endpoints diff / Observed Variance)

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

	MV	DK	MV	DK	M∨	DK	MV	DK
Allocations*	97%	3%	Low Conf	Low Conf	70%	30%	Low Conf	Low Conf.
Gellaule (ed	achiel (ound) a	jejow ,	A CO				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

MV ALLOC=

DK ALLOC=

DKendP-Mix / DKendP-MVendP Mix-MVPend / DKendP-MVendP

**CENTRAL MEMBER\*** 87.6

CONFRATIO	· comp
7.9	C3
CMAL	LOC
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 ALLOG						
MV	DK					
70.0%	30.0%					
OIP .	<b>O</b> IF					
86%	14%					

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

SIGNATURES

NAME

TITLE

DATE

Downhole

# **COMPANY: CONOCOPHILLIPS**

### WELL INFORMATION.

LOCATION: NM027N09W035I

WELLNAME: Huerfanito 98N

API NUMBER: 3004535262 LEASE NUMBER: SF-078135

COUNTY/ STATE Rio arriba, NM

MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA) **FORMATIONS** 

DHC # APPROVAL DHC3645AZ

ALLOCATION NUMBER

### SAMPLE DATA ANALYSIS FROM:

Gas Analysis Service (Phone 505-5998998)

**ANALYSIS REF NUMBER:** CP130643

ANALIGIO NEI HOMBEIT		01 1000-10	
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	METHANE		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	THE RESERVE	0: 3 6 7	7.	9	Single Confession	325434

<sup>\*(</sup>Endpoints diff / Observed Variance)

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

<u> </u>		MV	DK	MV	DK	MV	DK	MV	DK
Allocations*		72%	28%	Low Conf	Low Conf	46%	54%	Low Conf	Low Conf
PC	aritatiiriyyin		pelom,	act !					

**MV ALLOC=** 

DKendP-Mix / DKendP-MVendP

**DK ALLOC=** 

Mix-MVPend / DKendP-MVendP

#### **CENTRAL MEMBER\***

CONFRATIO.	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		

TITLE

OFFICIAL GAS ALLOC							
MV DK							
46.0%	54.0%						
	THE COLD						
69%	31%						

\* Oil allocation based on Historical yields

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

SIGNATURES

NAME

DATE

## **COMPANY: CONOCOPHILLIPS**

WELLINFORMATION

 NM027N09W035I Huerfanito 98N Downhole

API NUMBER: LEASE NUMBER: 3004535262 SF-078135

COUNTY/ STATE

Rio arriba, NM

FORMATIONS

MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)

DHC # APPROVAL

DHC3645AZ

ALLOCATION NUMBER

5 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	ME <sup>-</sup>	ΓHANE	ETH	IANE	PROF	PANE	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	BURNET SE	0.44	7.	9	THE PERSON	2 4 4 6 6 6 6

<sup>\*(</sup>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
reclarizaci i is			14.1		<u> </u>			

MV ALLOC=

DKendP-Mix / DKendP-MVendP

DK ALLOC=

Mix-MVPend / DKendP-MVendP

CENTRAL MEMBER\*

" CONFRAMO	· 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%							
C : OF :	<b>OP</b>							
87%	13%							

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

GREET RESIDENCE SPACES

SIGNATURES

NAME

TITLE

DATE

Downhole

# **COMPANY: CONOCOPHILLIPS**

WELL INFORMATION .....

NM027N09W035I

LOCATION: 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

SAMPLE DATA ... ANALYSIS FROM:

Gas Analysis Service (Phone 505-5998998)

ANALYSIS REF NUMBER:

CP120715

ANALISIS KET NUMBER.	CF 1207 13				
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		<u> </u>		

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		ETH	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	7.7			7.9	)		120000	

<sup>\*(</sup>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

MV ALLOC=

DK ALLOC=

Control of the Mix - Mix

CENTRAL	MEMBER*
---------	---------

CONFRAGIO	COMP.					
7.9	C3					
CM ALLOC						
MV	DK					
57%	43%					

<sup>\*</sup>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 C	SAS ALLOC
MV	DK
58.5%	41.5%
OP	THOUP ?
79%	21%

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

SIGNATURES

NAME

TITLE

DATE

Downhole

# **COMPANY: CONOCOPHILLIPS**

WELLINFORMATION

NM027N09W035I

LOCATION: WELLNAME:

Huerfanito 98N

API NUMBER:

3004535262 SF-078135

LEASE NUMBER: COUNTY/ STATE

Rio arriba, NM

FORMATIONS

MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)

DHC # APPROVAL

DHC3645AZ

ALLOCATION NUMBER

SAMPLE DATA ANALYSIS FROM:

and the second s 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

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	7.7	PROPERTY R	OPPRESENT TO	7.9	9		12

<sup>\*(</sup>Endpoints diff / Observed Variance)

if red. Member Confiratio 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
Reclarated us	de dimino on	low)	, <sup>3</sup> t					

DKendP-Mix / DKendP-MVendP

DK ALLOC=

MV ALLOC=

Mix-MVPend / DKendP-MVendP

**CENTRAL MEMBER\*** 

CONTRATIO				
7.9	C3			
CM ALLOC				
M∨	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%			
OIF	<b>@</b> [[?'			
70%	30%			

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

SIGNATURES

DATE

SIGNATURE

NAME

TITLE

Downhole

# **COMPANY: CONOCOPHILLIPS**

# WELLINFORMATION

LOCATION: WELLNAME: NM027N09W035I

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

#### SAMPLE DATA ANALYSIS FROM:

Gas Analysis Service (Phone 505-5998998)

**ANALYSIS REF NUMBER:** 

CP120191

7(17)210101127 770112271		01 120 101	
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 <sup>į</sup>	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

### END POINTS INFORMATION

FROM STAND ALONE WELLS OR REAL TIME DATA

END POINTS INFORMATION	METHANE		ETHANE		PROPANE		TOTAL BUTANE	
END POINTS INFORMATION	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	7.7		0.00	7.9	9	No. 10 Personal Property of the	22.

<sup>\*(</sup>Endpoints diff / Observed Variance)

If red. Member Confiratio 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

MV ALLOC=

DKendP-Mix / DKendP-MVendP

DK ALLOC=

Mix-MVPend / DKendP-MVendP

Woled estimation and the control of the control of

**CENTRAL MEMBER\*** 

<b>RONFRATIO</b>	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 O	AS ALLOC
MV	DK
11.0%	89.0%
	· · · · OIF
24%	76%

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

\* SIGNATURES TITLE DATE **SIGNATURE** NAME

PRODUCTION ALLOCATION FORM  PRODUCTION ALLOCATION FORM  PRESCURCES  PRODUCTION ALLOCATION FORM  PRELIMINARY Status PRELIMINARY FINAL REVISED 6th Allocat  Commingle Type SURFACE DOWNHOLE Type of Completion NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A Lease No. E-5184-49	ory ting File 006		
PRODUCTION ALLOCATION FORM  PRELIMINARY Status PRELIMINARY FINAL REVISED 6th Allocate  Commingle Type SURFACE DOWNHOLE Type of Completion NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A Lease No. E-5184-49	File 006		
PRODUCTION ALLOCATION FORM  Status PRELIMINARY  FINAL ☐ REVISED   Commingle Type SURFACE ☐ DOWNHOLE   Type of Completion NEW DRILL ☐ RECOMPLETION ☐ PAYADD ☐ COMMINGLE ☐  DHC No. DHC3741A Lease No. E-5184-49	on		
PRODUCTION ALLOCATION FORM  PRELIMINARY ☐ FINAL ☐ REVISED ☐ 6 <sup>th</sup> Allocat  Commingle Type SURFACE ☐ DOWNHOLE ☐ Type of Completion NEW DRILL ☐ RECOMPLETION ☐ PAYADD ☐ COMMINGLE ☐ DHC No. DHC3741A Lease No. E-5184-49			
FINAL REVISED 6th Allocate REVISED Date: 12/09/2014  SURFACE DOWNHOLE API No. 30-039-31161  NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A  Lease No. E-5184-49			
Commingle Type SURFACE DOWNHOLE API No. 30-039-31161 Type of Completion NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A Lease No. E-5184-49			
SURFACE DOWNHOLE API No. 30-039-31161 Type of Completion NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A Lease No. E-5184-49	Z		
Type of Completion  NEW DRILL RECOMPLETION PAYADD COMMINGLE  DHC No. DHC3741A  Lease No. E-5184-49	Z		
NEW DRILL RECOMPLETION PAYADD COMMINGLE DHC No. DHC3741A Lease No. E-5184-49	z		
Lease No. E-5184-49			
State	State		
Well Name Well No.			
San Juan 29-7 Unit #93C	ĺ		
Unit Letter   Section   Township   Range   Footage   County, State			
Surf-J 2 T029N R007W 2636' FSL & 2206' FEL Rio Arriba County,			
BH-F   2   T029N   R007W   2009' FNL & 1907' FWL   New Mexico			
Completion Date Test Method			
6/25/2013 HISTORICAL ☐ FIELD TEST ☒ PROJECTED ☐ OTHER ☐	}		
FORMATION GAS PERCENT CONDENSATE PERCENT			
MESAVERDE 49% 86%			
DAKOTA 51% 14%			
	$\dashv$		
HIGHEICATION OF ALLOCATION FIGURES.			
JUSTIFICATION OF ALLOCATION: <b>Fifth Allocation:</b> 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 format	on		
yields.			
APPROVED BY DATE TITLE PHONE			
X Engineer 505-326-9826			
Ephraim Schofield			
X Engineering Tech. 505-326-9520			
David C. Valdez			