Area: «TEAM»

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PRODUCTION ALLOCATION FORM

Status
PRELIMINARY ☒
FINAL ☐
REVISED ☒ 5th
Allocation

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

Date: **9/11/2015**

API No. **30-045-35121**
DHC No. **DHC3590AZ**
Lease No. **SF-079937**
Federal

KP

Well Name
Turner Hughes

Well No.
#16N

Unit Letter	Section	Township	Range	Footage	County, State
C	**11**	**T027N**	**R009W**	**1245' FNL & 1965' FWL**	**San Juan County, New Mexico**

Completion Date
3/16/2012

Test Method
HISTORICAL ☐ FIELD TEST ☒ PROJECTED ☐ OTHER ☐

FORMATION	GAS	PERCENT	CONDENSATE	PERCENT
MESAVERDE		**23%**		**19%**
DAKOTA		**77%**		**81%**

JUSTIFICATION OF ALLOCATION: **5th 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. This well was Completed 3/16/2012, but not First Delivered until 7-29-2014.

APPROVED BY	DATE	TITLE	PHONE
William Tambekou	9/28/2015	Petroleum Engineer	505-564-7746
X [signature]	9/11/15	Engineer	505-326-9826
Ephraim Schofield			

NMOCD

2
pc

COMPOSITIONAL ALLOCATION FORM

COMPANY: CONOCOPHILLIPS

WELL INFORMATION

LOCATION:	NM027N09W011C	Downhole
WELLNAME:	Turner Hughes 16N	
API NUMBER:	3004535121	
LEASE NUMBER:	SF-079937	
COUNTY/ STATE	San Juan, NM	
FORMATIONS	MV/DK (BLANCO MESAVERDE/ BASIN DAKOTA)	
DHC # APPROVAL	DHC3590AZ	
ALLOCATION NUMBER	5	

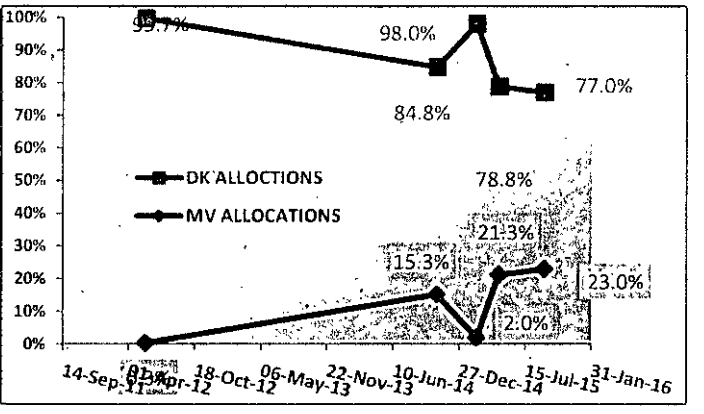
SAMPLE DATA

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

ANALYSIS REF NUMBER: CP150505 **05/22/12**

SAMPLE DATE: 9/11/2015

COMPONENT	MOLE %	NORM HC %	BTU
NITROGEN	0.99		
CO2	1.24		
METHANE	82.50	84.4%	833.21
ETHANE	8.26	8.5%	146.22
PROPANE	3.67	3.75%	92.21
I-BUTANE	0.77	0.8%	25.00
N-BUTANE	1.10	1.1%	35.73
I-PENTANE	0.44	0.5%	17.64
N-PENTANE	0.31	0.3%	12.59
HEXANE PLUS	0.73	0.7%	38.59
	100.000		1223.67
HYDROCARBON	97.774		



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	73.79%	88.41%	12.81%	7.37%	8.13%	2.21%	3.61%	1.08%
Confidence ratio*	22.5		12.0		16.61		7.6	

*(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*	28.0%	72.0%	20%	80%	26%	74%	19%	81%

***Calculated using formulas below**

MV ALLOC= DKendP-Mix / DKendP-MVendP

DK ALLOC= Mix-MVPend / DKendP-MVendP

CENTRAL MEMBER*

CONF RATIO	COMP
22.5	C1
CM ALLOC	
MV	DK
28%	72%

*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	28.000%
C2	20.000%
C3	26.000%
C4	19.000%

OFFICIAL GAS ALLOC	
MV	DK
23.0%	77.0%
Oil*	Oil*
19%	81%

* Oil allocation based on Historical yields

* If both are zero then Oil alloc= Gas alloc

SIGNATURES

NAME	TITLE	DATE	SIGNATURE
Ephraim Schofield	Reservoir Engineer	9/11/15	