## Pickford, Katherine, EMNRD

From:

Pickford, Katherine, EMNRD

Sent:

Tuesday, May 19, 2015 2:55 PM

To:

'Colvin, Toya'

Cc:

Powell, Brandon, EMNRD

Subject:

RE: Kernaghan B7 Gas Analysis

Thanks for the data, Toya.

There is a slight variation in the ethane content, pre- and post-deepening of the well. Please retest after 60 days of production and submit the analysis from that test.

Thanks,

Kate

**From:** Colvin, Toya [mailto:Toya.Colvin@bp.com]

**Sent:** Tuesday, May 19, 2015 2:28 PM **To:** Pickford, Katherine, EMNRD

**Subject:** Kernaghan B7 Gas Analysis

Good Afternoon Kate,

Attached is the Post – Deepening Work Gas Analysis & the below chart is the last 3 analysis performed on the subject well.

Effective Date	Dry BTU	Specific Gravity	CO2	CO	1800	<u>H2</u>	C1	C2	C3	IC4	NC4
4/7/2015 11:33:18 PM	719.0	0.8460	29.7060	0.0000	0.0000	0.0000	69.5720	0.6230	0.0420	0.0060	0.0020
11/4/2014 10:50:31 AM	719.0	0.8467	29.7060	0.0000	0.0000	0.0000	69.5720	0.6230	0.0420	0.0060	0.0020
4/25/2014[10:50:15.AM	739.0	0.8269	27.5590	0.0000	0.0000	0.0000	71.5300	0.6480	0.0410	0.0060	0.0020

Thank You,

## Pickford, Katherine, EMNRD

From:

Colvin, Toya <Toya.Colvin@bp.com>

Sent:

Tuesday, May 19, 2015 2:28 PM

To:

Pickford, Katherine, EMNRD

Subject:

Kernaghan B7 Gas Analysis

Attachments:

Kernaghan B7 5-2015.pdf

Good Afternoon Kate,

Attached is the Post – Deepening Work Gas Analysis & the below chart is the last 3 analysis performed on the subject well.

Effective Date	Dry BTU	Specific Gravity	CO2	CO	1812	H2	C1	C2	C3	IC4	NC4
4/7/2015 11:33:18 PM	719.0	0.8460	29.7060	0.0000	0.0000	0.0000	69.5720	0.6230	0.0420	0.0060	0.0020
11/4/2014 10:50:31 AM	719.0	0.8467	29.7060	0.0000	70.0000	0:0000	69:5720	0.6230	0.0420	0.0060	0.0020
4/25/2014 10:50:15 AM	739.0	0.8269	27:5590	0.0000	0.0000	0.0000	71.5300	0.6480	0.0410	0.0060	0.0020

Thank You,

Toya Colvin

## Toya Colvin

Regulatory Analyst BP America Production Company Lower 48 - San Juan South Three Eldridge Place, 12.181A (281) 366-7148

Effective Date	Day BLU	Specific Gravity	CO2	©	1112	H2	<u>©1</u>	œ	<b>C</b> 3	IC4	NC4	Ш	Nœ	Сq	N2	02	H2(0)	ARŒ
4/7/2015 11:33:18 PM	719.0	0,8460	29.7060	0.0000	0.0000	0.0000	69.5720	0.6230	0.0420	0.0060	0.0020	0.0000	0.0000	0.0040	0.0450	0.0000	0.0000	0.0000
1/4/2014 10:50:31 AM	719.0	0:8467	29.7060	0.0000	0.0000	0.0000	69.5720	0.6230	0:0420	0.0060	0.0020	0.0000	0.0000	0.0040	0.0450	0.0000	0.0000	0.0000
4/25/2014 10:50:15.AM	739.0	0.8269	27.5590	0.0000	0.0000	0.0000	71.5300	0.6480	0.0410	0.0060	0.0020	0.0000	0.0000	0.0140	0.2000	0.0000	0.0000	0.0000

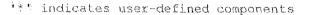
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## Analysis

Date-Time: 05/11/15 13:11 Analysis Time: 370 Cycle Time: Stream: 3 23 CO2 Mode: ANLY Cycle Start Time: Analyzer: 2350 GAS Strm Seq:1,3,5,7 Mode: ANLY Cycle Start Time: 13:04 Strm Seg:1,3,5,7

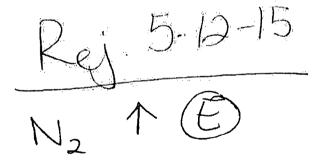
Company: Gas Analysis Service

Component	Mole	вти	Relative
Name	Percent	Gross	Density
NITROGEN	1.7486	0.00	0.0169
CARBON DIOXIDE	27.3835	0.00	0.4161
METHANE	70.1957	710.62	0.3888
ETHANE	0.6018	10.67	0.0062
PROPANE	0.0375	0.94	0.0006
i-BUTANE	70.0 PPM	0.23	0.0001
o-BUTANE	36.5 PPM	0.12	0.0001
i-PENTANE	0.0000.	0.00	0.0000
n-PENTANE	0.0000	0.00	0.0000
C6+ 47/35/17	0.0222	1.18	0.0007
TOTALS	100.0000	723.7.6	0.8296



Compressibility Factor (1/Z) @ 14.73000 PSIA 66.0 DEG.F= 1.00264

Base Pressures	.1	14.73000	
فالمناه فالمالي والمناه		. تقديق سائسانسانسانسان	
Gross Dry BTU	*****	725.67	Corrected/2
Gross SAT BTU	*****	713.05	Corrected/Z
Real Relative Densit	y Gas =	0.8314	
Unnormalized Mole Pe	ercent	100 380	



wer O -> 58#
NAT. GAS A NAT. GAS LIQ. A
د را السام المام الم
WELL NAME Kernaghon 18 /
FORMATION
STATE
SAMPLED BY KI Camp
TIME SAMPLED WIGHT
DATE SAMPLED 5/7/15
SAMPLING TEMP. 80.7 PRES. 59.1
CYLINDER NO
EVAC. CYL.   PURGE & FILL   OTHER
SAMPLE SOURCE Meter
METER NUMBER 5,296,2163
TEAM LEAD J. Gorkens
RTU NO. 1817
PURCHASER
DO NOT USE FOR SOUR GAS san juan reproduction 316-23