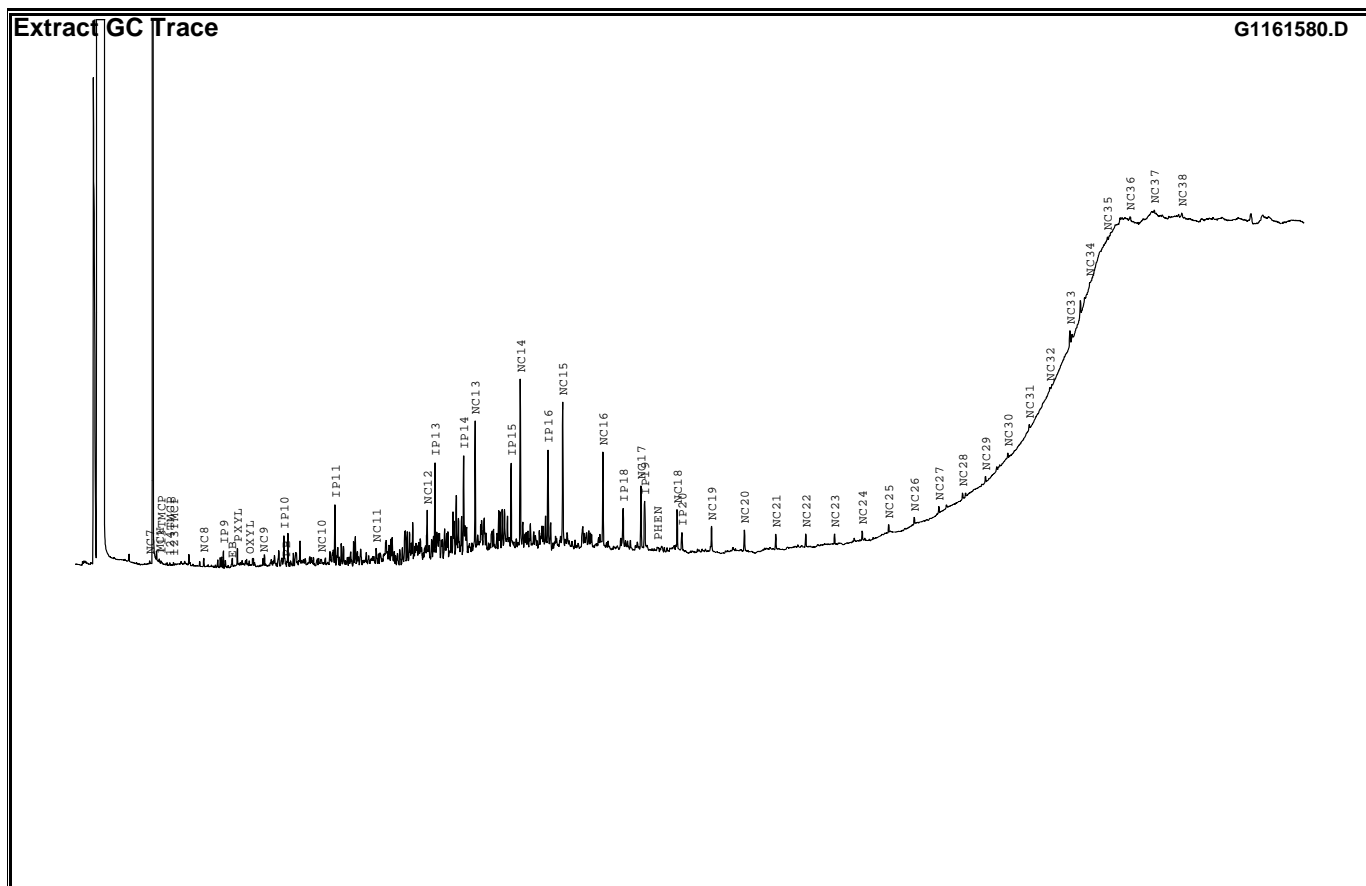


received 12/02/2016  
Facility 755188



## EXTRACT GC

Company:	Dolan Integration Group	Client ID:	DIG-010042
Country:		Project #:	BH-93609
Basin:		Lab ID:	6124119465
Lease:		Sample Type:	Oil
Block:		Sampling Point:	
Field:		Formation:	
Well Name:	ID: 755188	Geologic Age:	
Latitude:	0	Top Depth:	
Longitude:	0	Bottom Depth:	
Preparation:	CS2 48hr Extraction	GC Method:	G02G



EGC parameters	
Pristane/Phytane	2.20
Pristane/ $nC_{17}$	0.96
Phytane/ $nC_{18}$	0.65
$nC_{18}/(nC_{18}+nC_{19})$	0.61
$nC_{17}/(nC_{17}+nC_{29})$	0.90
CPI Hunt <sup>4</sup>	1.14
Normal Paraffins	13.6
Isoprenoids	8.4
Cycloparaffins	0.3
Branched (iso-) Paraffins	
BTX aromatics	0.3
Resolved unknowns	77.2

Thompson <sup>1</sup>	
A. BZ/ $nC_6$	
B. TOL/ $nC_7$	
C. $(nC_6+nC_7)/(CH+MCH)$	0.58
I. Isoheptane Value	
F. $nC_7/MCH$	0.58
U. CH/MCP	
R. $nC_7/2MH$	
S. $nC_8/22DMB$	
H. Heptane Value	36.81
MCH/ $nC_7$	1.72
mpXYL/ $nC_8$	2.43

Mango <sup>2</sup>	
P <sub>1</sub>	36.81
P <sub>2</sub>	
P <sub>3</sub>	
5N <sub>1</sub>	
N <sub>2</sub>	
6N <sub>1</sub>	63.19
K <sub>1</sub>	
K <sub>2</sub>	
5N <sub>1</sub> /6N <sub>1</sub>	
P <sub>3</sub> /N <sub>2</sub>	
ln(24DMP/23DMP)	

Halpern <sup>3</sup>	
Tr <sub>1</sub>	
Tr <sub>2</sub>	
Tr <sub>3</sub>	
Tr <sub>4</sub>	
Tr <sub>5</sub>	
Tr <sub>7</sub>	
Tr <sub>8</sub>	
C <sub>1</sub>	
C <sub>2</sub>	
C <sub>3</sub>	
C <sub>4</sub>	
C <sub>5</sub>	

<sup>1</sup>Thompson, K.F.M., 1983.GCA:V.47, p.303. <sup>2</sup>Mango, F.D., 1994.GCA: V.58, p.895. <sup>3</sup>Halpern, H.I., 1995, AAPG Bull.: V.79, p.801. <sup>4</sup>Hunt, 1979

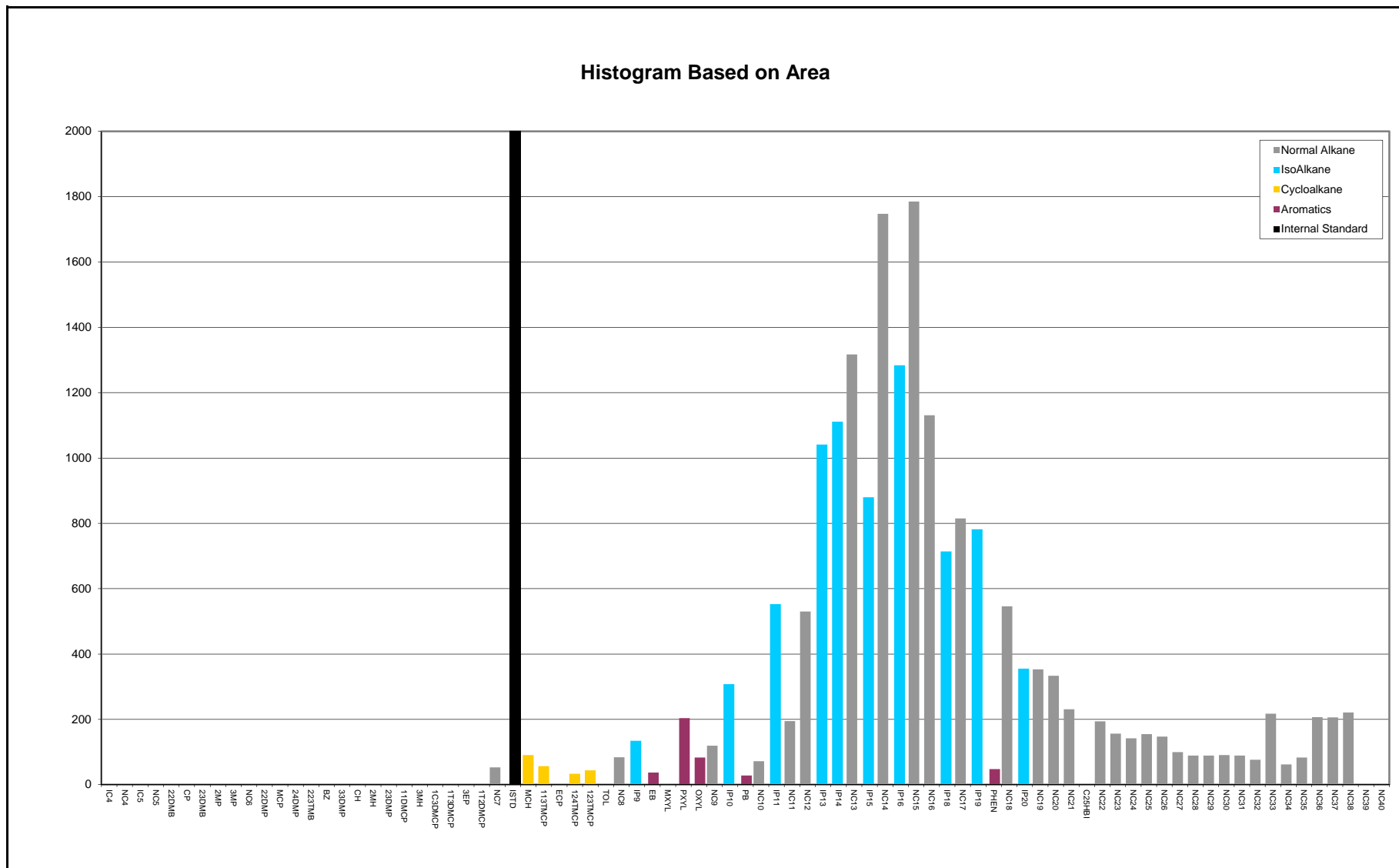
<b>Company:</b>	<b>Dolan Integration Group</b>	<b>Client ID:</b>	<b>DIC-010042</b>
<b>Well Name:</b>	<b>DIC-010042</b>	<b>Project #:</b>	<b>BH-93609</b>
<b>Depth:</b>	<b>-</b>	<b>Lab ID:</b>	<b>6124119465</b>
<b>Sampling Point:</b>		<b>File Name:</b>	<b>G1161580.D</b>

Peak Label	Compound Name	Ret. Time	Area	Height	ppm* (Area)	ppm* (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7	10.135	53	14	0.08	0.04
ISTD	Internal Standard	10.438	69002	31763	101.67	101.67
MCH	Methylcyclohexane	11.061	91	21	0.13	0.07
113TMCP	1,1,3,-Trimethylcyclopentane	11.231	57	15	0.09	0.05
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane	12.079	33	10	0.05	0.03
123TMCP	1,2,3-Trimethylcyclopentane	12.445	44	12	0.07	0.04
TOL	Toluene					
NC8	Normal Alkane C8	15.367	84	27	0.12	0.09
IP9	Isoprenoid C9	17.251	134	50	0.20	0.16
EB	Ethyl-benzene	18.027	37	12	0.05	0.04
MXYL	<i>m</i> -xylene					
PXYL	<i>p</i> -xylene	18.603	204	57	0.30	0.18
OXYL	<i>o</i> -xylene	19.741	83	21	0.12	0.07
NC9	Normal Alkane C9	21.081	119	27	0.18	0.09
IP10	Isoprenoid C10	23.093	308	90	0.45	0.29
PB	Propyl-benzene	23.275	28	12	0.04	0.04
NC10	Normal Alkane C10	26.700	72	21	0.11	0.07
IP11	Isoprenoid C11	28.015	553	175	0.82	0.56
NC11	Normal Alkane C11	31.984	195	49	0.29	0.16
NC12	Normal Alkane C12	36.917	530	146	0.78	0.47
IP13	Isoprenoid C13	37.665	1041	278	1.53	0.89
IP14	Isoprenoid C14	40.434	1111	283	1.64	0.91
NC13	Normal Alkane C13	41.541	1317	376	1.94	1.20
IP15	Isoprenoid C15	45.005	880	249	1.30	0.80
NC14	Normal Alkane C14	45.889	1747	489	2.57	1.57



<b>Company:</b>	<b>Dolan Integration Group</b>
<b>Well Name:</b>	<b>DIC-010042</b>
<b>Depth:</b>	<b>-</b>
<b>Sampling Point:</b>	

<b>Client ID:</b>	<b>DIC-010042</b>
<b>Project #:</b>	<b>BH-93609</b>
<b>Lab ID:</b>	<b>6124119465</b>
<b>File Name:</b>	<b>G1161580.D</b>



Parameter	Formula
<b>WGC Parameters</b>	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
nC <sub>18</sub> /(nC <sub>18</sub> +nC <sub>19</sub> )	NC18/(NC18+NC19)
nC <sub>17</sub> /(nC <sub>17</sub> +nC <sub>29</sub> )	NC17/(NC17+NC29)
CPI Hunt <sup>4</sup>	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
Normal Paraffins	$100*(NC4+NC5+NC6+NC7+NC8+NC9+NC10+NC11+NC12+NC13+NC14+NC15+NC16+NC17+NC18+NC19+NC20+NC21+NC22+NC23+NC24+NC25+NC26+NC27+NC28+NC29+NC30+NC31+NC32+NC33+NC34+NC35+NC36+NC37+NC38+NC39+NC40+NC41)/TOTAL\_RESOLVED$
Isoprenoids	$100*(IP9+IP10+IP11+IP13+IP14+IP15+IP16+IP18+IP19+IP20+C25HBI)/TOTAL\_RESOLVED$
Cycloparaffins	$100*(CP+MCP+CH+11DMCP+1T3DMCP+1T2DMCP+MCH+113TMCP+ECP+124TMCP+123TMCP+1C3DMCP+1C2DMCP)/TOTAL\_RESOLVED$
Branched (iso-) Paraffins	$100*(IC4+IC5+22DMB+23DMB+2MP+3MP+22DMP+24DMP+223TMB+33DMP+2MH+23DMP+3MH+3EP)/TOTAL\_RESOLVED$
BTX aromatics	$100*(BZ+TOL+MXYL+PXYL+OXYL)/TOTAL\_RESOLVED$ (*OXYL added 05/21/2007)
<b>Thompson<sup>1</sup></b>	
BZ/nC6	BZ/NC6
TOL/nC7	TOL/NC7
(nC6+nC7)/(CH+MCH)	(NC6+NC7)/(CH+MCH)
Isoheptane Value	$(2MH+3MH)/(1C3DMCP+1T3DMCP+1T2DMCP)$
nC7/MCH	NC7/MCH
CH/MCP	CH/MCP
nC7/2MH	NC7/2MH
nC6/22DMB	NC6/22DMB
Heptane Value	$100*NC7/(CH+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+1T2DMCP+MCH+NC7)$
MCH/nC7	MCH/NC7
mpXYL/nC8	(MXYL+PXYL)/NC8
<b>Mango<sup>2</sup></b>	
P1	$100*NC7/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
P2	$100*(2MH+3MH)/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
P3	$100*(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
5N1	$100*(ECP+1T2DMCP)/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
N2	$100*(11DMCP+1C3DMCP+1T3DMCP)/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
6N1	$100*(MCH+TOL)/(22DMP+24DMP+223TMB+33DMP+2MH+23DMP+11DMCP+3MH+1C3DMCP+1T3DMCP+3EP+1T2DMCP+NC7+MCH+ECP+TOL)$
K1	$(2MH+23DMP)/(3MH+24DMP)$
K2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
<b>Halpern<sup>3</sup></b>	
Tr1	TOL/11DMCP
Tr2	NC7/11DMCP
Tr3	3MH/11DMCP
Tr4	2MH/11DMCP
Tr5	$(2MH+3MH)/11DMCP$
Tr7	1T3DMCP/11DMCP
Tr8	$(2MH+3MH)/(22DMP+23DMP+24DMP+33DMP+3EP)$
C1	$22DMP/(22DMP+23DMP+24DMP+33DMP+3EP)$
C2	$23DMP/(22DMP+23DMP+24DMP+33DMP+3EP)$
C3	$24DMP/(22DMP+23DMP+24DMP+33DMP+3EP)$
C4	$33DMP/(22DMP+23DMP+24DMP+33DMP+3EP)$
C5	$3EP/(22DMP+23DMP+24DMP+33DMP+3EP)$



1	2	3	4	5	6
INFO	Name	Range Start	Range End	Add Next sample into next	Sample display distance
PAGE	SUMMARY	A1	BE174	workbook	
PAGE	Histogram	A1	I43	workbook	
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7	8	9	10	11
Max samples in one page	Tick			