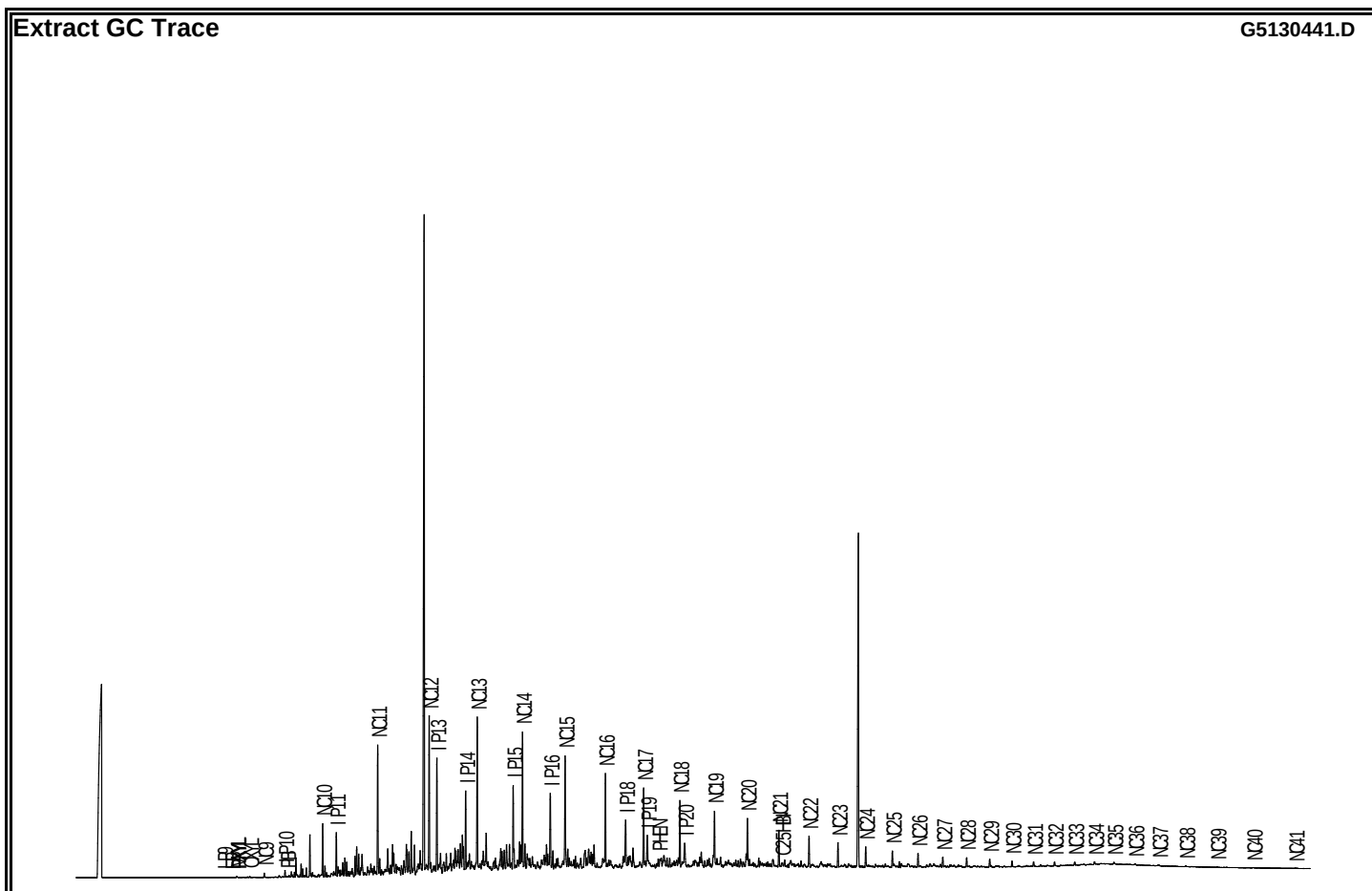


Company:	ConocoPhillips	Client ID:	CA003359
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313640
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1716.10 M
Longitude:	-127.0085	Bottom Depth:	1716.10 M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	1.10
Pristane/ nC_{17}	0.63
Phytane/ nC_{18}	0.70
$nC_{18}/(nC_{18}+nC_{19})$	0.53
$nC_{17}/(nC_{17}+nC_{29})$	0.89
CPI Hunt ⁴	1.01
Normal Paraffins	17.4
Isoprenoids	7.5
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	0.0
Resolved unknowns	74.8

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

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
In(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

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

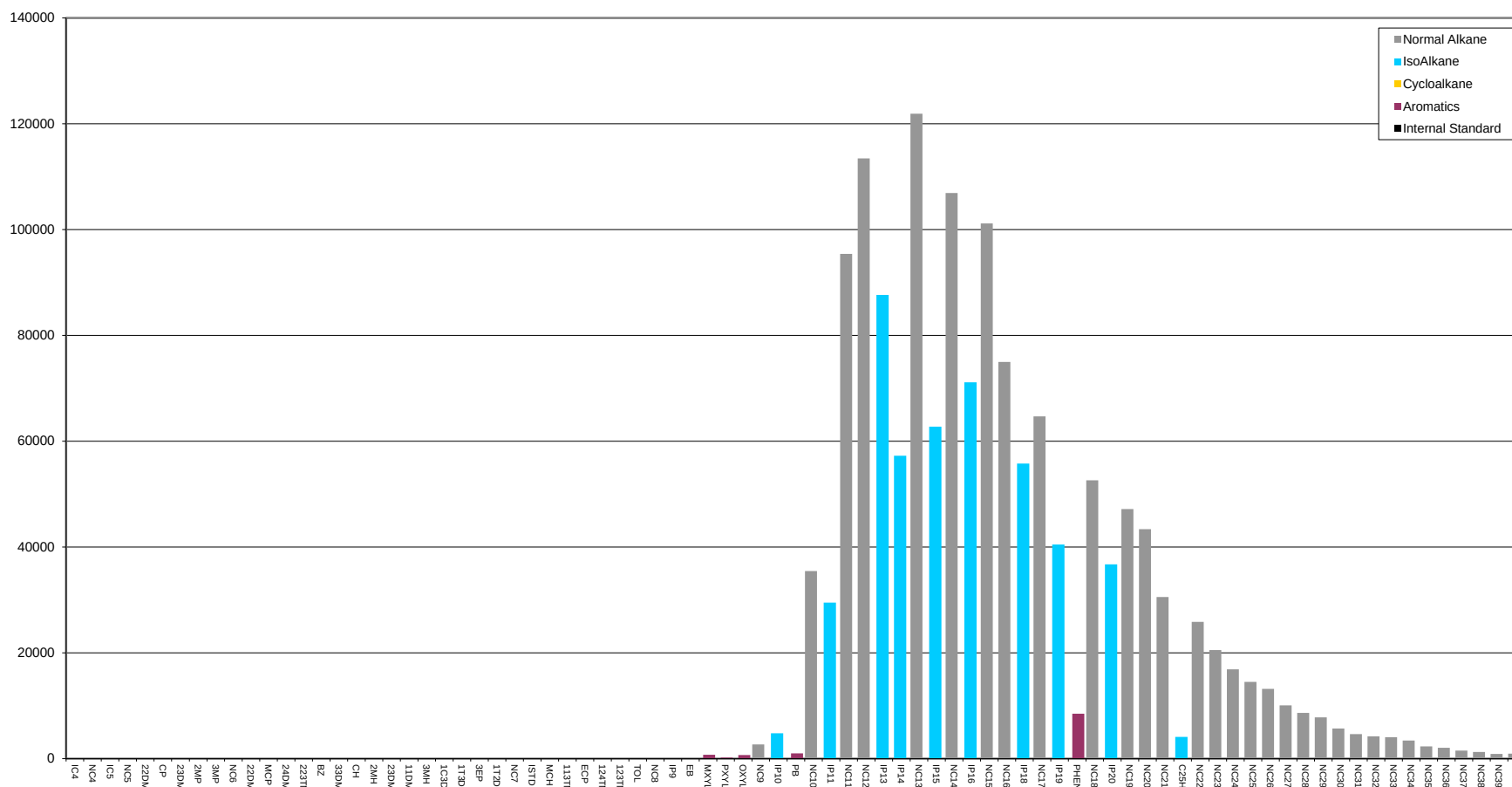
Company:	ConocoPhillips	Client ID:	CA003359
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1716.10 - 1716.10 M	Lab ID:	CP313640
Sampling Point:		File Name:	G5130441.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9	17.200	42	13		
EB	Ethyl-benzene	17.914	25	9		
MXYL	<i>m</i> -xylene	18.410	770	278		
PXYL	<i>p</i> -xylene	18.474	218	81		
OXYL	<i>o</i> -xylene	19.666	692	225		
NC9	Normal Alkane C9	21.065	2726	962		
IP10	Isoprenoid C10	23.052	4824	1598		
PB	Propyl-benzene	23.228	1036	283		
NC10	Normal Alkane C10	26.670	35445	12068		
IP11	Isoprenoid C11	27.975	29515	10036		
NC11	Normal Alkane C11	31.949	95420	29515		
NC12	Normal Alkane C12	36.894	113434	35613		
IP13	Isoprenoid C13	37.634	87640	26005		
IP14	Isoprenoid C14	40.396	57257	18272		
NC13	Normal Alkane C13	41.509	121899	34880		
IP15	Isoprenoid C15	44.959	62755	19172		
NC14	Normal Alkane C14	45.851	106898	31183		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1716.10 - 1716.10 M
Sampling Point:

Client ID: CA003359
Project #: BH-63684
Lab ID: CP313640
File Name: G5130441.D

Histogram Based on Area

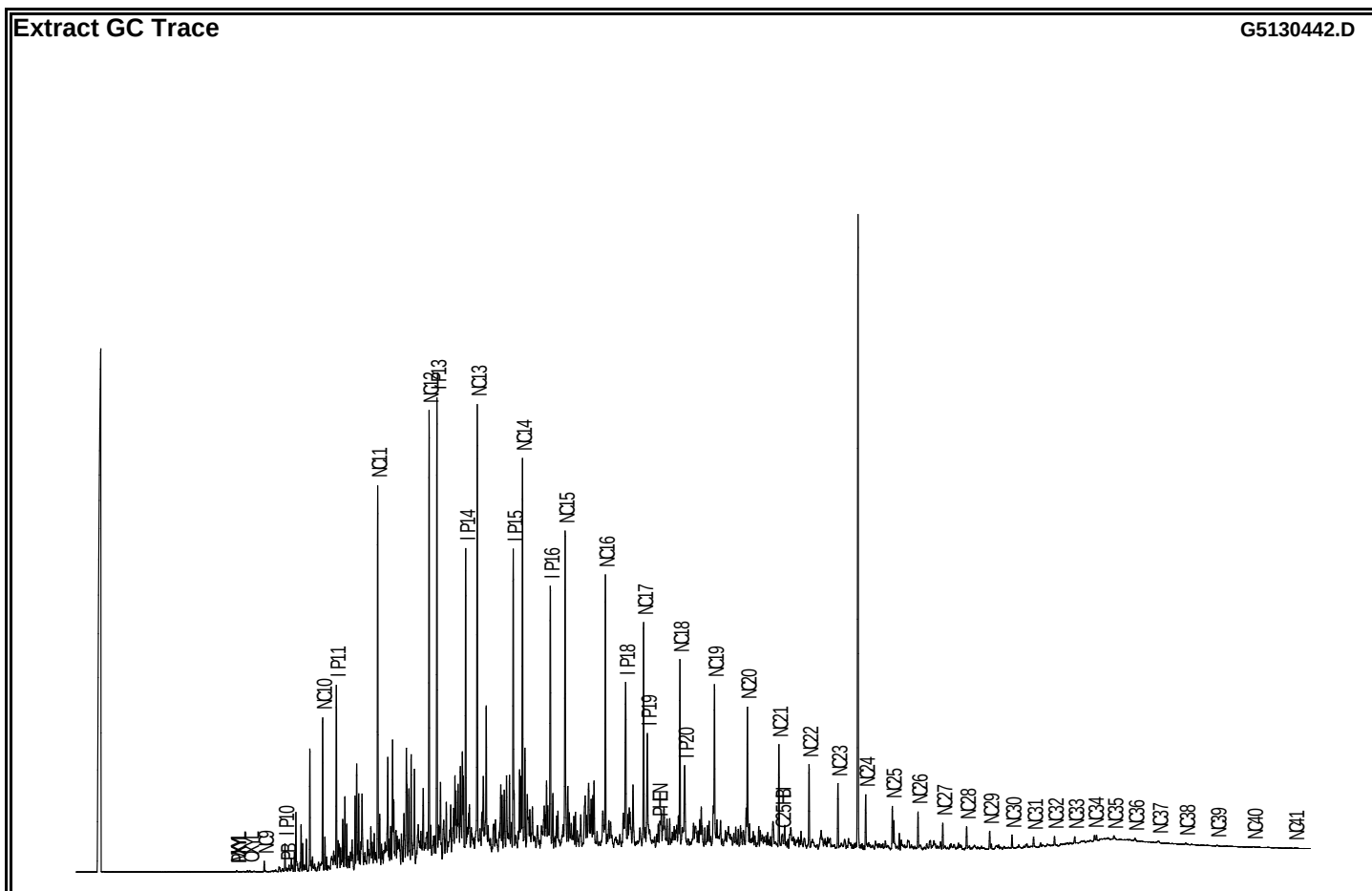


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	$ln(24DMP/23DMP)$
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003360
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313641
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1740.60 M
Longitude:	-127.0085	Bottom Depth:	1740.60 M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	1.19
Pristane/ <i>n</i> C ₁₇	0.75
Phytane/ <i>n</i> C ₁₈	0.79
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.52
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	0.91
CPI Hunt ⁴	1.00
Normal Paraffins	18.7
Isoprenoids	10.4
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	0.0
Resolved unknowns	70.8

Thompson ¹	
A.	BZ/ <i>n</i> C ₆
B.	TOL/ <i>n</i> C ₇
C.	(<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)
I.	Isoheptane Value
F.	<i>n</i> C ₇ /MCH
U.	CH/MCP
R.	<i>n</i> C ₇ /2MH
S.	<i>n</i> C ₆ /22DMB
H.	Heptane Value
	MCH/ <i>n</i> C ₇
	mpXYL/ <i>n</i> C ₈

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
ln(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

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

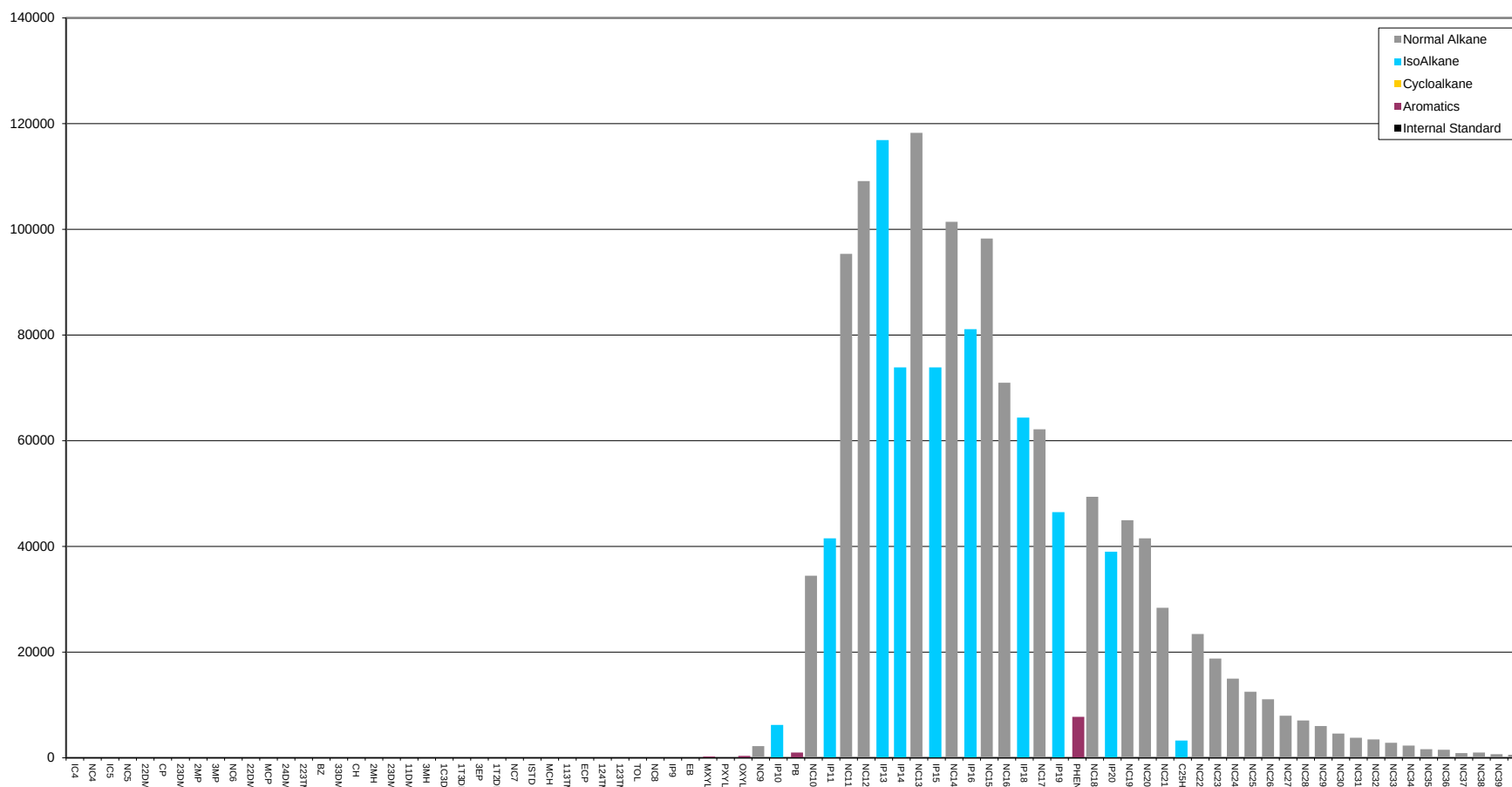
Company:	ConocoPhillips	Client ID:	CA003360
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1740.60 - 1740.60 M	Lab ID:	CP313641
Sampling Point:		File Name:	G5130442.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
EB	Ethyl-benzene					
MXYL	<i>m</i> -xylene	18.406	304	105		
PXYL	<i>p</i> -xylene	18.469	85	30		
OXYL	<i>o</i> -xylene	19.663	360	108		
NC9	Normal Alkane C9	21.060	2248	795		
IP10	Isoprenoid C10	23.049	6223	2080		
PB	Propyl-benzene	23.226	1018	264		
NC10	Normal Alkane C10	26.668	34450	11520		
IP11	Isoprenoid C11	27.977	41552	13903		
NC11	Normal Alkane C11	31.949	95372	28666		
NC12	Normal Alkane C12	36.886	109150	33844		
IP13	Isoprenoid C13	37.637	116880	34670		
IP14	Isoprenoid C14	40.398	73866	23133		
NC13	Normal Alkane C13	41.508	118262	33781		
IP15	Isoprenoid C15	44.961	73856	22694		
NC14	Normal Alkane C14	45.851	101445	29460		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1740.60 - 1740.60 M
Sampling Point:

Client ID: CA003360
Project #: BH-63684
Lab ID: CP313641
File Name: G5130442.D

Histogram Based on Area

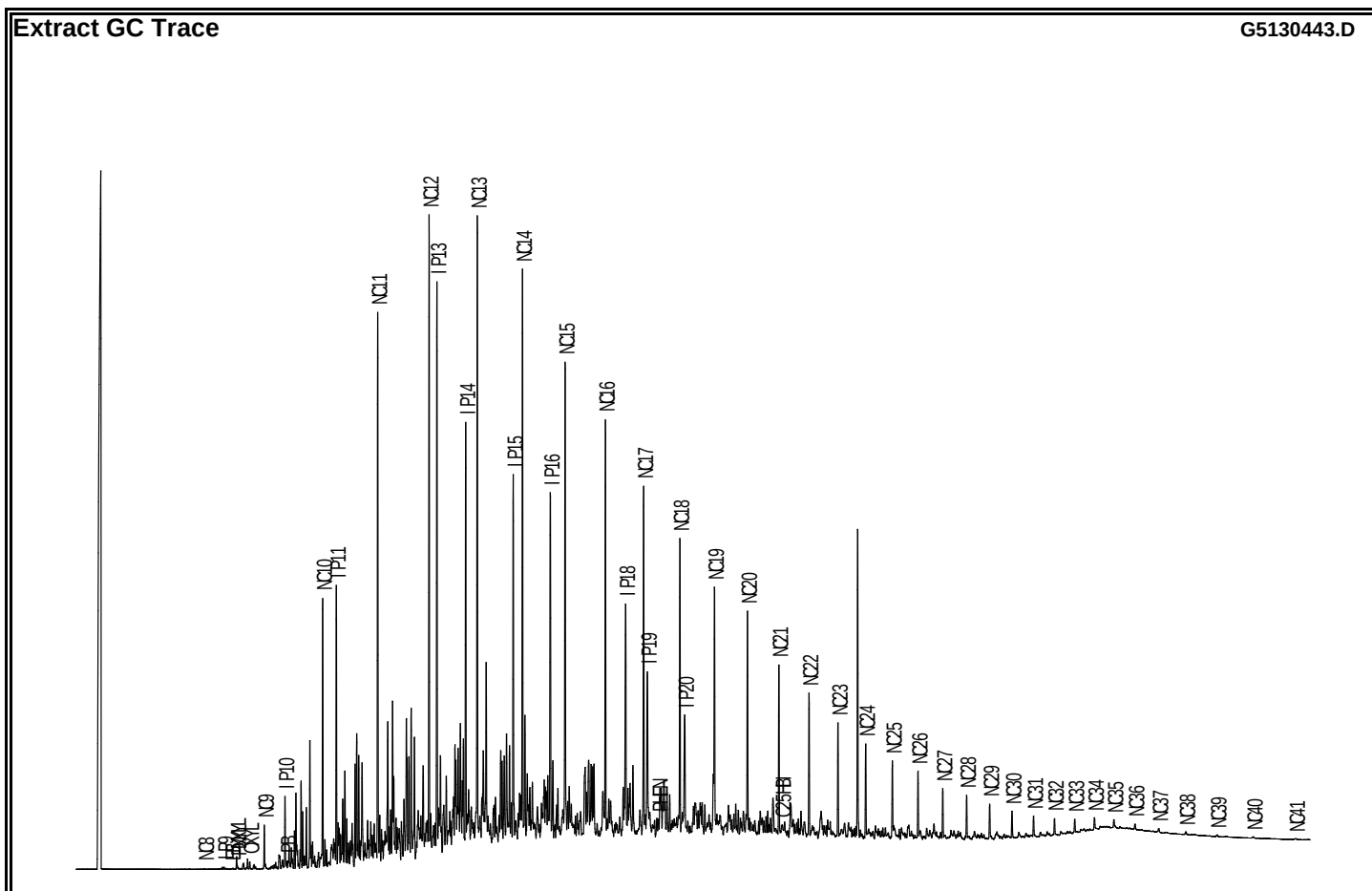


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	$ln(24DMP/23DMP)$
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003361
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313642
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1767.00 M
Longitude:	-127.0085	Bottom Depth:	1767.00 M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	1.24
Pristane/ <i>n</i> C ₁₇	0.72
Phytane/ <i>n</i> C ₁₈	0.70
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.54
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₀)	0.89
CPI Hunt ⁴	1.02
Normal Paraffins	21.8
Isoprenoids	10.9
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	0.1
Resolved unknowns	67.2

Thompson ¹	
A. BZ/ <i>n</i> C ₆	
B. TOL/ <i>n</i> C ₇	
C. (<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)	
I. Isoheptane Value	
F. <i>n</i> C ₇ /MCH	
U. CH/MCP	
R. <i>n</i> C ₇ /2MH	
S. <i>n</i> C ₆ /22DMB	
H. Heptane Value	
MCH/ <i>n</i> C ₇	
mpXYL/ <i>n</i> C ₈	29.10

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
ln(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

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

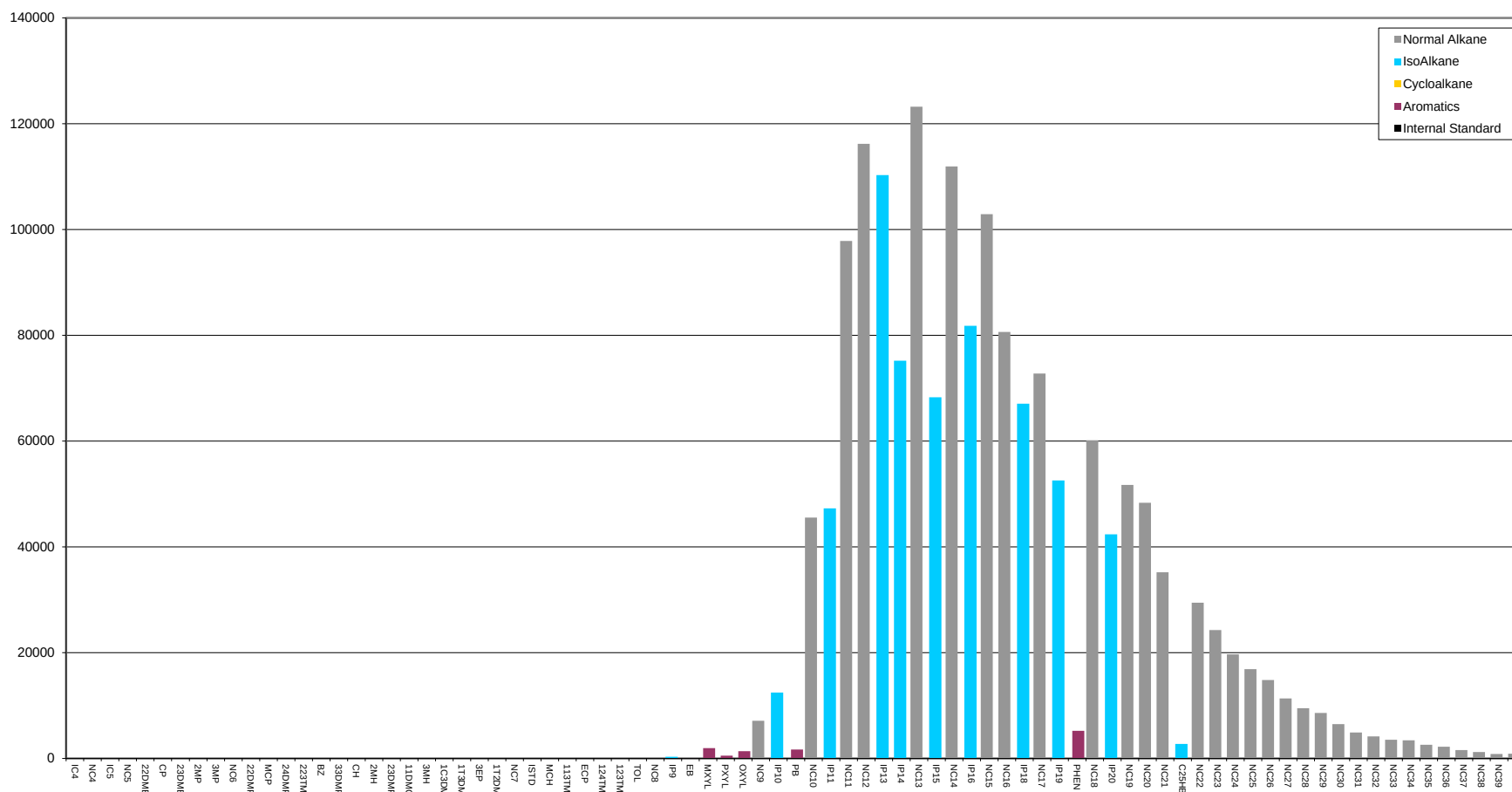
Company:	ConocoPhillips	Client ID:	CA003361
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1767.00 - 1767.00 M	Lab ID:	CP313642
Sampling Point:		File Name:	G5130443.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8	15.318	86	29		
IP9	Isoprenoid C9	17.196	328	118		
EB	Ethyl-benzene	17.907	79	25		
MXYL	<i>m</i> -xylene	18.403	1951	708		
PXYL	<i>p</i> -xylene	18.467	552	205		
OXYL	<i>o</i> -xylene	19.663	1410	416		
NC9	Normal Alkane C9	21.062	7123	2487		
IP10	Isoprenoid C10	23.052	12489	4092		
PB	Propyl-benzene	23.229	1679	432		
NC10	Normal Alkane C10	26.671	45534	15281		
IP11	Isoprenoid C11	27.978	47297	15975		
NC11	Normal Alkane C11	31.951	97835	31254		
NC12	Normal Alkane C12	36.889	116195	36289		
IP13	Isoprenoid C13	37.635	110302	32380		
IP14	Isoprenoid C14	40.399	75194	24120		
NC13	Normal Alkane C13	41.510	123201	35782		
IP15	Isoprenoid C15	44.961	68282	20867		
NC14	Normal Alkane C14	45.852	111919	32406		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1767.00 - 1767.00 M
Sampling Point:

Client ID: CA003361
Project #: BH-63684
Lab ID: CP313642
File Name: G5130443.D

Histogram Based on Area

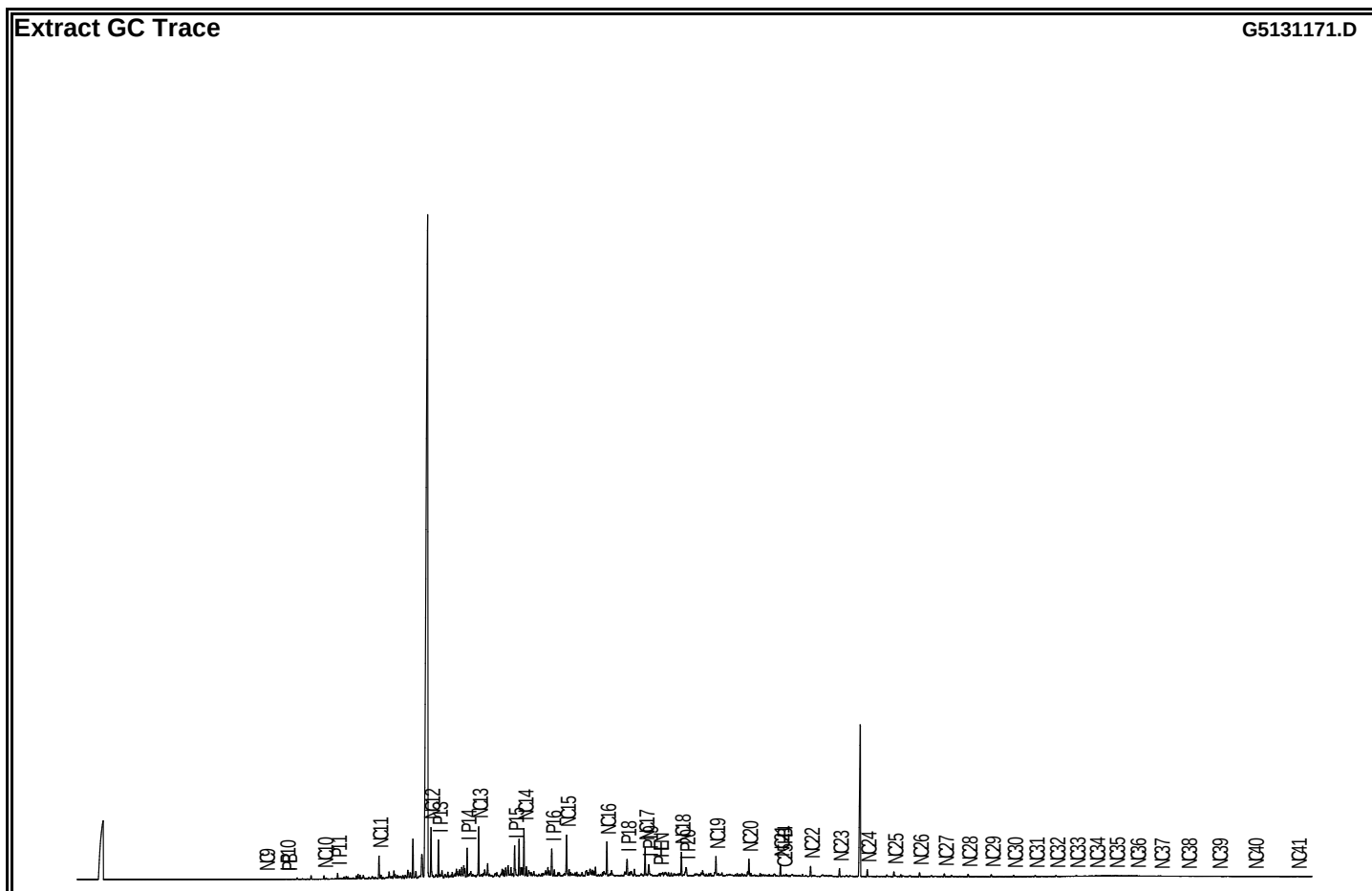


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003729
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315958
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1751.21 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	1.12
Pristane/ <i>n</i> C ₁₇	0.62
Phytane/ <i>n</i> C ₁₈	0.67
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.54
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	0.92
CPI Hunt ⁴	0.95
Normal Paraffins	9.9
Isoprenoids	4.7
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	85.3

Thompson ¹	
A.	BZ/ <i>n</i> C ₆
B.	TOL/ <i>n</i> C ₇
C.	(<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)
I.	Isoheptane Value
F.	<i>n</i> C ₇ /MCH
U.	CH/MCP
R.	<i>n</i> C ₇ /2MH
S.	<i>n</i> C ₆ /22DMB
H.	Heptane Value
	MCH/ <i>n</i> C ₇
	mpXYL/ <i>n</i> C ₈

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
In(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

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

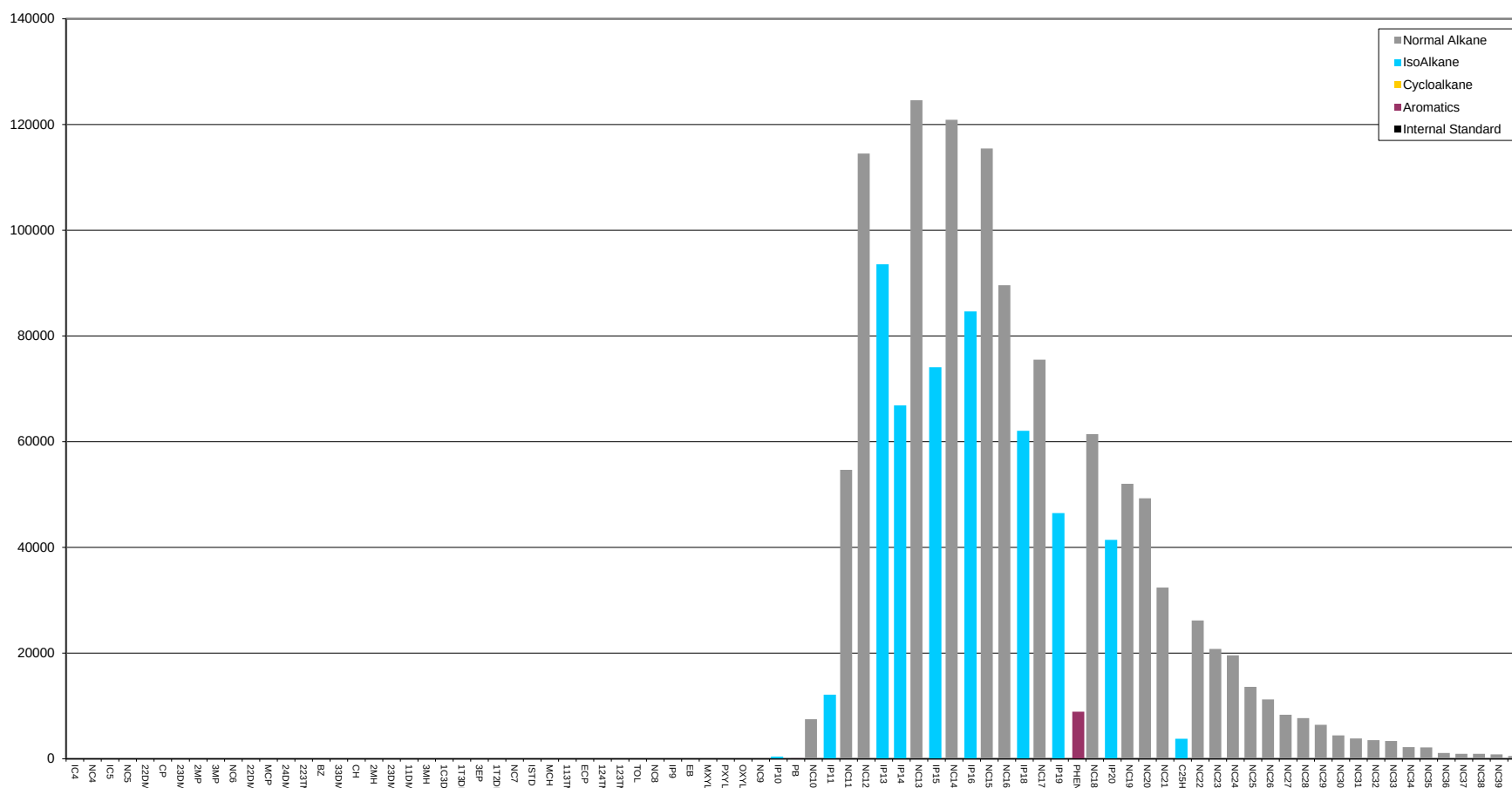
Company:	ConocoPhillips	Client ID:	CA003729
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1751.21 - M	Lab ID:	CP315958
Sampling Point:	OTHER	File Name:	G5131171.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
EB	Ethyl-benzene					
MXYL	<i>m</i> -xylene					
PXYL	<i>p</i> -xylene					
OXYL	<i>o</i> -xylene					
NC9	Normal Alkane C9	21.080	86	26		
IP10	Isoprenoid C10	23.068	428	129		
PB	Propyl-benzene	23.234	105	29		
NC10	Normal Alkane C10	26.678	7482	2516		
IP11	Isoprenoid C11	27.986	12174	4153		
NC11	Normal Alkane C11	31.955	54665	16554		
NC12	Normal Alkane C12	36.948	114517	36735		
IP13	Isoprenoid C13	37.662	93554	27337		
IP14	Isoprenoid C14	40.412	66845	21105		
NC13	Normal Alkane C13	41.522	124602	36513		
IP15	Isoprenoid C15	44.971	74117	22393		
NC14	Normal Alkane C14	45.864	120881	34955		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1751.21 - M
Sampling Point: OTHER

Client ID: CA003729
Project #: BH-63173
Lab ID: CP315958
File Name: G5131171.D

Histogram Based on Area

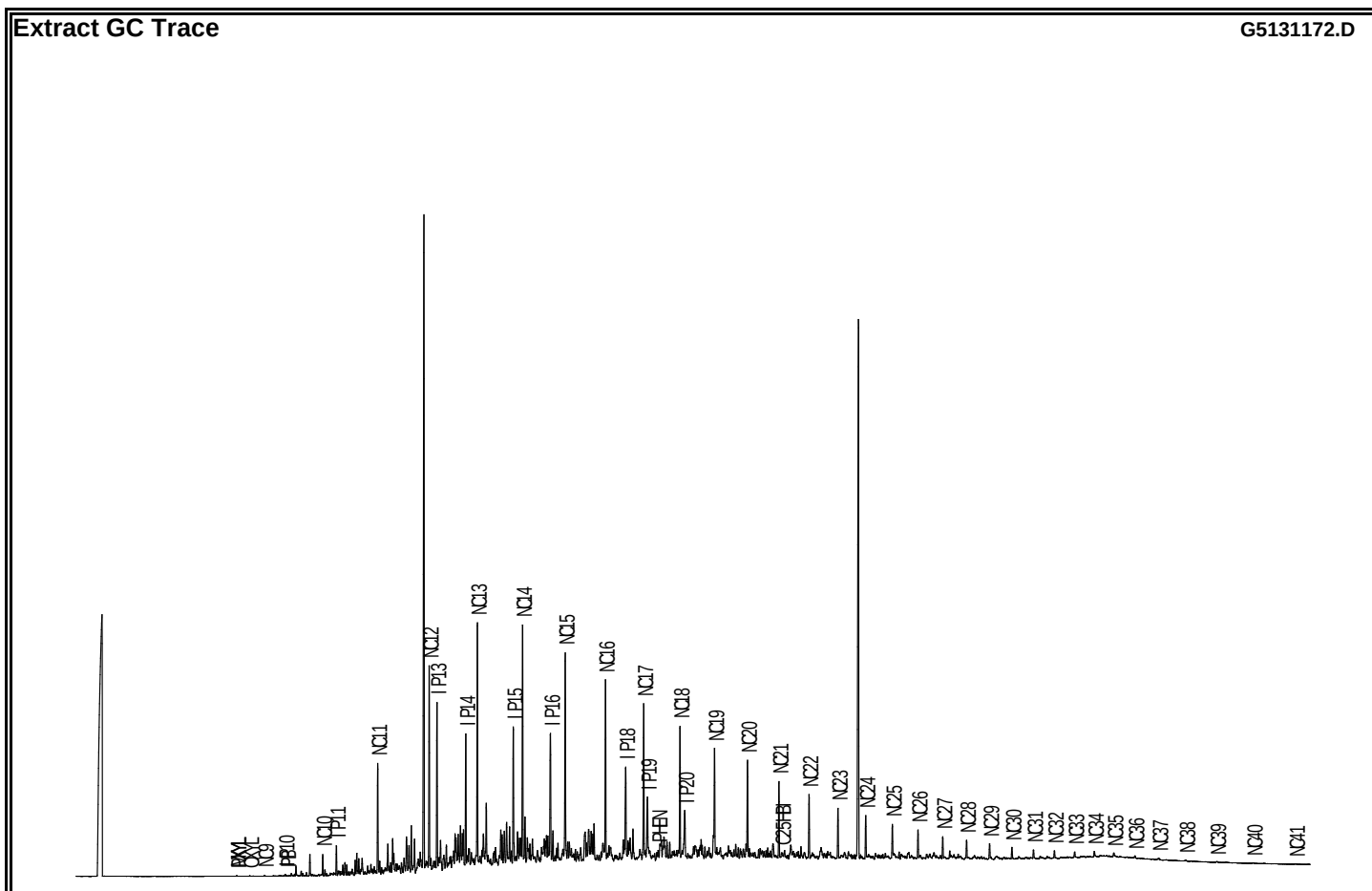


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003730
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315959
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1777.20 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:		GC Method:	G02G



EGC parameters	Thompson ¹	Mango ²	Halpern ³
Pristane/Phytane	A. BZ/ <i>n</i> C ₆	P ₁	Tr ₁
Pristane/ <i>n</i> C ₁₇	B. TOL/ <i>n</i> C ₇	P ₂	Tr ₂
Phytane/ <i>n</i> C ₁₈	C. (<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)	P ₃	Tr ₃
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	I. Isoheptane Value	5N ₁	Tr ₄
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	F. <i>n</i> C ₇ /MCH	N ₂	Tr ₅
CPI Hunt ⁴	U. CH/MCP	6N ₁	Tr ₇
Normal Paraffins	R. <i>n</i> C ₇ /2MH	K ₁	Tr ₈
Isoprenoids	S. <i>n</i> C ₆ /22DMB	K ₂	C ₁
Cycloparaffins	H. Heptane Value	5N ₁ /6N ₁	C ₂
Branched (iso-) Paraffins	MCH/ <i>n</i> C ₇	P ₃ /N ₂	C ₃
BTX aromatics	mpXYL/ <i>n</i> C ₈	ln(24DMP/23DMP)	C ₄
Resolved unknowns			C ₅

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

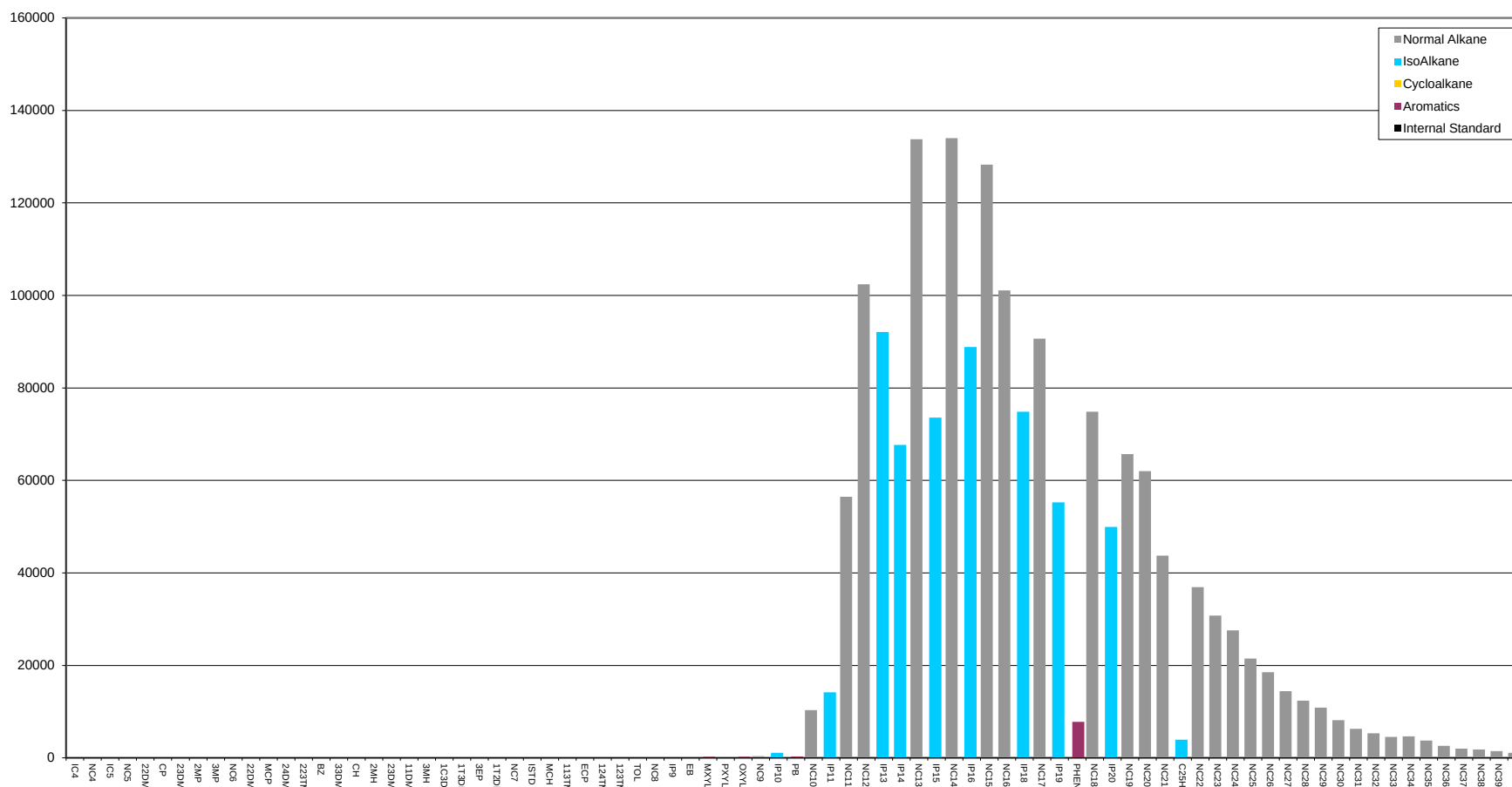
Company:	ConocoPhillips	Client ID:	CA003730
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1777.20 - M	Lab ID:	CP315959
Sampling Point:	OTHER	File Name:	G5131172.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
EB	Ethyl-benzene					
MXYL	<i>m</i> -xylene	18.411	264	91		
PXYL	<i>p</i> -xylene	18.473	77	27		
OXYL	<i>o</i> -xylene	19.666	244	77		
NC9	Normal Alkane C9	21.078	368	125		
IP10	Isoprenoid C10	23.066	1102	306		
PB	Propyl-benzene	23.234	298	86		
NC10	Normal Alkane C10	26.676	10347	3442		
IP11	Isoprenoid C11	27.984	14167	4824		
NC11	Normal Alkane C11	31.952	56454	17810		
NC12	Normal Alkane C12	36.897	102421	32993		
IP13	Isoprenoid C13	37.643	92084	26976		
IP14	Isoprenoid C14	40.407	67678	21508		
NC13	Normal Alkane C13	41.518	133731	39071		
IP15	Isoprenoid C15	44.968	73585	22084		
NC14	Normal Alkane C14	45.863	133988	38278		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1777.20 - M
Sampling Point: OTHER

Client ID: CA003730
Project #: BH-63173
Lab ID: CP315959
File Name: G5131172.D

Histogram Based on Area

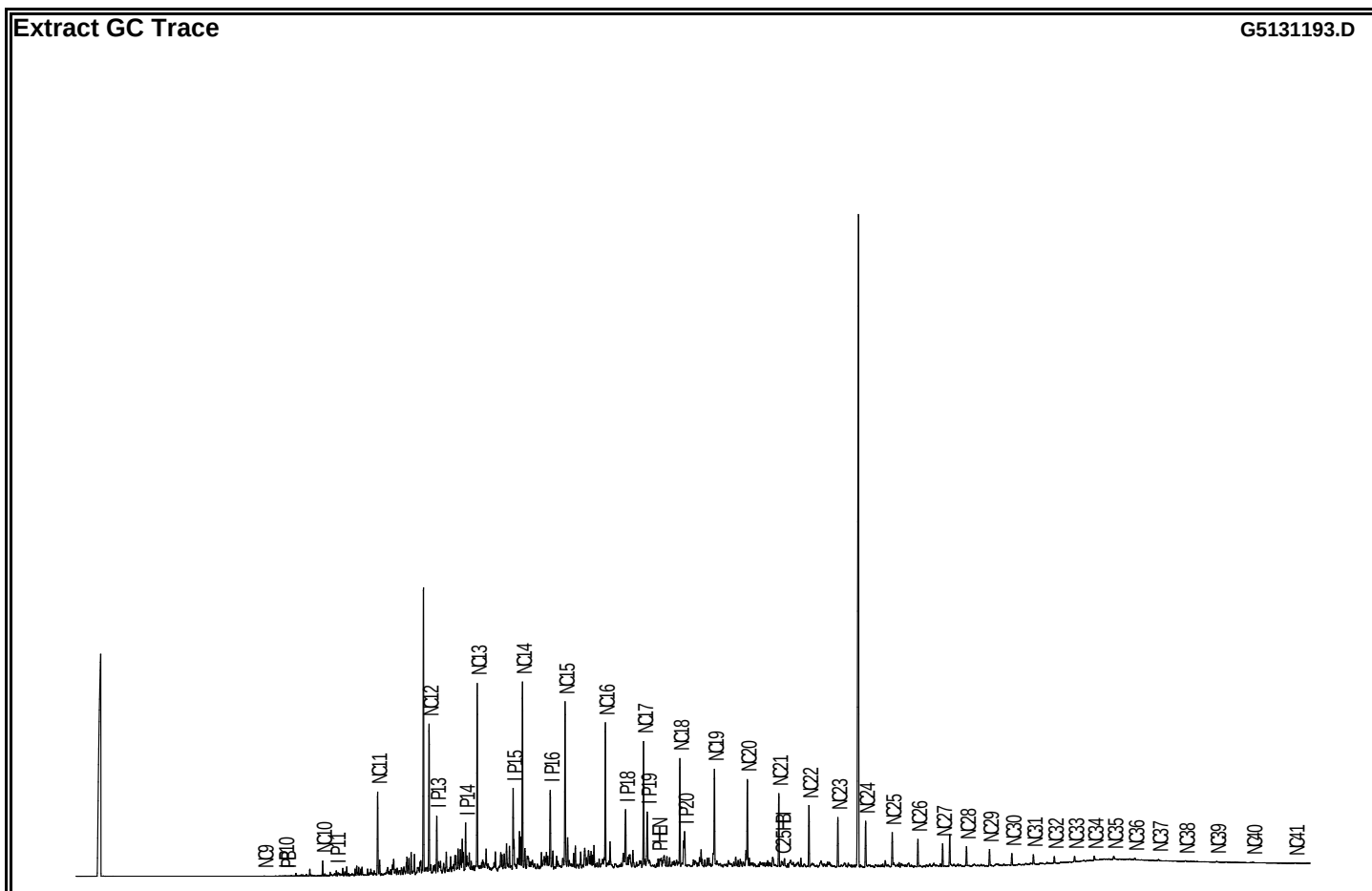


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003727
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315956
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	UPPER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1661.80 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	1.52
Pristane/ <i>n</i> C ₁₇	0.64
Phytane/ <i>n</i> C ₁₈	0.50
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.52
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	0.87
CPI Hunt ⁴	0.99
Normal Paraffins	24.6
Isoprenoids	7.0
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	68.3

Thompson ¹	
A.	BZ/ <i>n</i> C ₆
B.	TOL/ <i>n</i> C ₇
C.	(<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)
I.	Isoheptane Value
F.	<i>n</i> C ₇ /MCH
U.	CH/MCP
R.	<i>n</i> C ₇ /2MH
S.	<i>n</i> C ₆ /22DMB
H.	Heptane Value
	MCH/ <i>n</i> C ₇
	mpXYL/ <i>n</i> C ₈

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
In(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

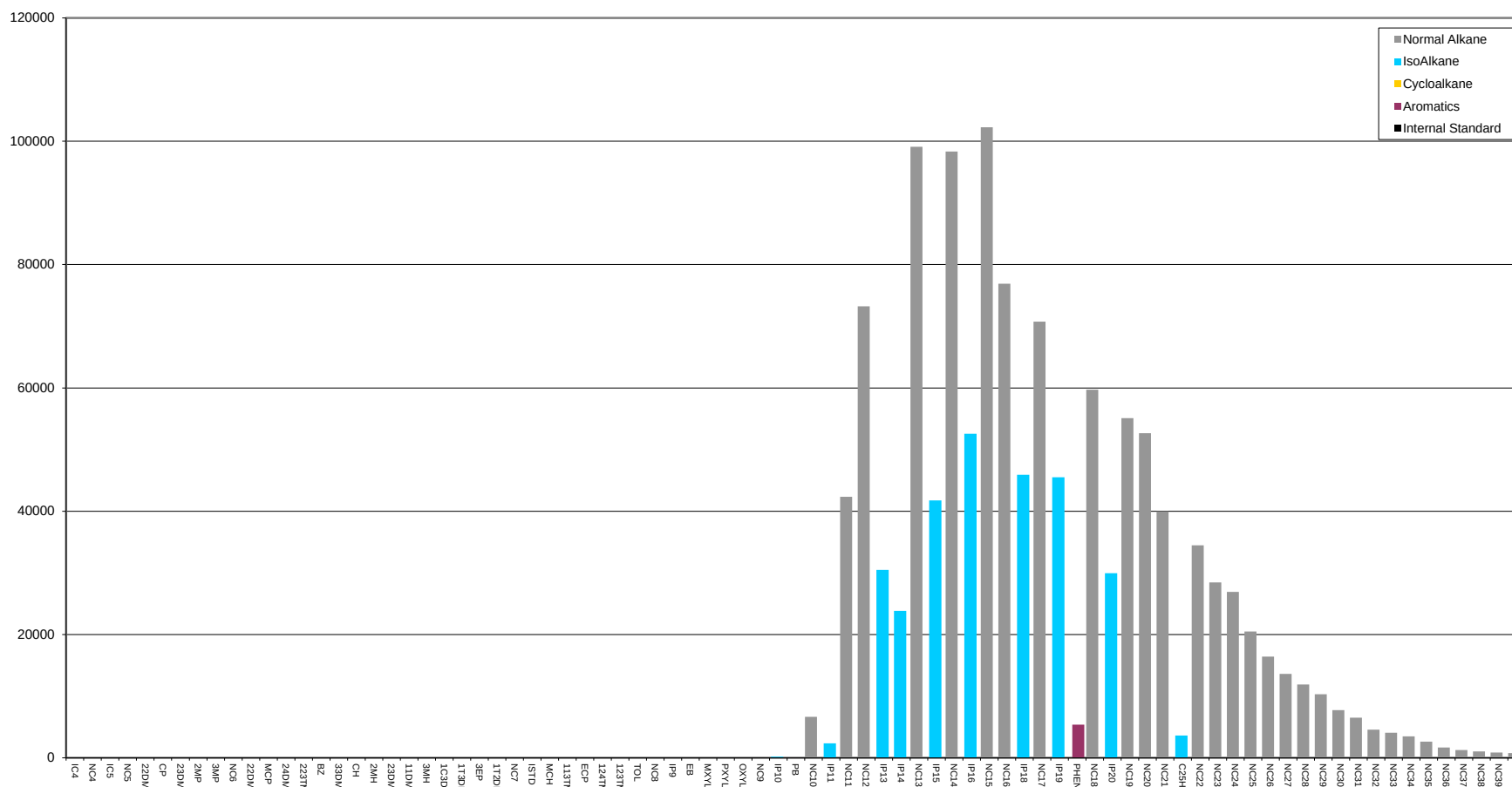
Company:	ConocoPhillips	Client ID:	CA003727
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1661.80 - M	Lab ID:	CP315956
Sampling Point:	OTHER	File Name:	G5131193.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
EB	Ethyl-benzene					
MXYL	<i>m</i> -xylene					
PXYL	<i>p</i> -xylene					
OXYL	<i>o</i> -xylene					
NC9	Normal Alkane C9	21.066	93	31		
IP10	Isoprenoid C10	23.057	183	50		
PB	Propyl-benzene	23.229	49	14		
NC10	Normal Alkane C10	26.668	6675	2332		
IP11	Isoprenoid C11	27.975	2377	800		
NC11	Normal Alkane C11	31.944	42336	13007		
NC12	Normal Alkane C12	36.883	73220	23324		
IP13	Isoprenoid C13	37.624	30516	8929		
IP14	Isoprenoid C14	40.390	23857	7657		
NC13	Normal Alkane C13	41.505	99088	29391		
IP15	Isoprenoid C15	44.953	41739	12754		
NC14	Normal Alkane C14	45.849	98321	29340		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1661.80 - M
Sampling Point: OTHER

Client ID: CA003727
Project #: BH-63173
Lab ID: CP315956
File Name: G5131193.D

Histogram Based on Area

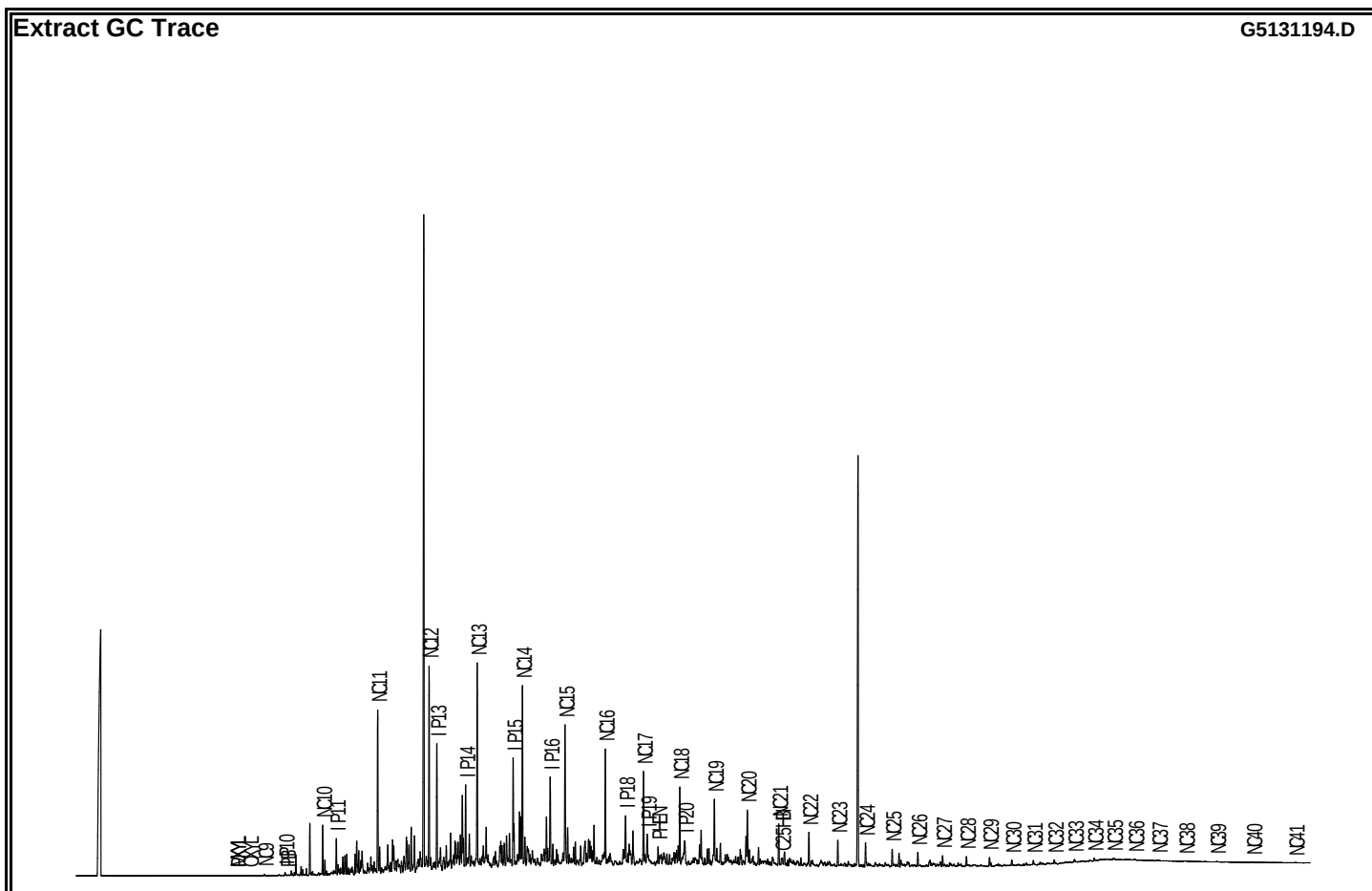


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003728
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315957
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1701.27 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:		GC Method:	G02G



EGC parameters	
Pristane/Phytane	0.97
Pristane/ <i>n</i> C ₁₇	0.50
Phytane/ <i>n</i> C ₁₈	0.64
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.51
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	0.90
CPI Hunt ⁴	0.97
Normal Paraffins	18.0
Isoprenoids	6.9
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	0.0
Resolved unknowns	74.9

Thompson ¹	
A.	BZ/ <i>n</i> C ₆
B.	TOL/ <i>n</i> C ₇
C.	(<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)
I.	Isoheptane Value
F.	<i>n</i> C ₇ /MCH
U.	CH/MCP
R.	<i>n</i> C ₇ /2MH
S.	<i>n</i> C ₆ /22DMB
H.	Heptane Value
	MCH/ <i>n</i> C ₇
	mpXYL/ <i>n</i> C ₈

Mango ²	
P ₁	
P ₂	
P ₃	
5N ₁	
N ₂	
6N ₁	
K ₁	
K ₂	
5N ₁ /6N ₁	
P ₃ /N ₂	
In(24DMP/23DMP)	

Halpern ³	
Tr ₁	
Tr ₂	
Tr ₃	
Tr ₄	
Tr ₅	
Tr ₇	
Tr ₈	
C ₁	
C ₂	
C ₃	
C ₄	
C ₅	

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

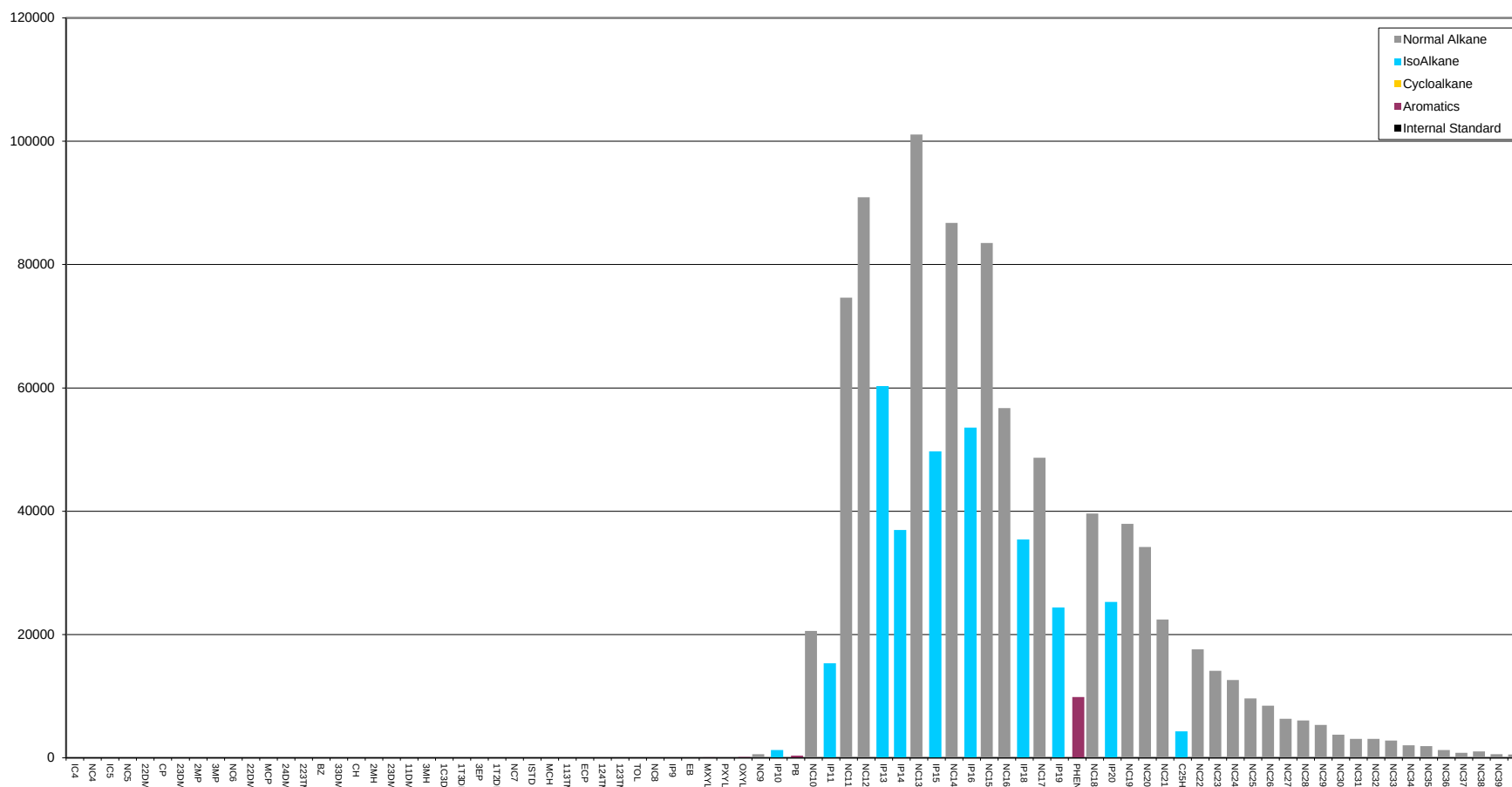
Company:	ConocoPhillips	Client ID:	CA003728
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1701.27 - M	Lab ID:	CP315957
Sampling Point:	OTHER	File Name:	G5131194.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (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					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
EB	Ethyl-benzene					
MXYL	<i>m</i> -xylene	18.395	119	38		
PXYL	<i>p</i> -xylene	18.453	37	14		
OXYL	<i>o</i> -xylene	19.652	149	48		
NC9	Normal Alkane C9	21.066	588	204		
IP10	Isoprenoid C10	23.055	1297	426		
PB	Propyl-benzene	23.220	394	109		
NC10	Normal Alkane C10	26.670	20611	7078		
IP11	Isoprenoid C11	27.976	15326	5166		
NC11	Normal Alkane C11	31.950	74646	23148		
NC12	Normal Alkane C12	36.887	90908	29060		
IP13	Isoprenoid C13	37.629	60309	17959		
IP14	Isoprenoid C14	40.393	36964	11898		
NC13	Normal Alkane C13	41.505	101083	29015		
IP15	Isoprenoid C15	44.954	49710	15456		
NC14	Normal Alkane C14	45.845	86764	25575		

Company: ConocoPhillips
Well Name: COPRC LOON CREEK O-06
Depth: 1701.27 - M
Sampling Point: OTHER

Client ID: CA003728
Project #: BH-63173
Lab ID: CP315957
File Name: G5131194.D

Histogram Based on Area

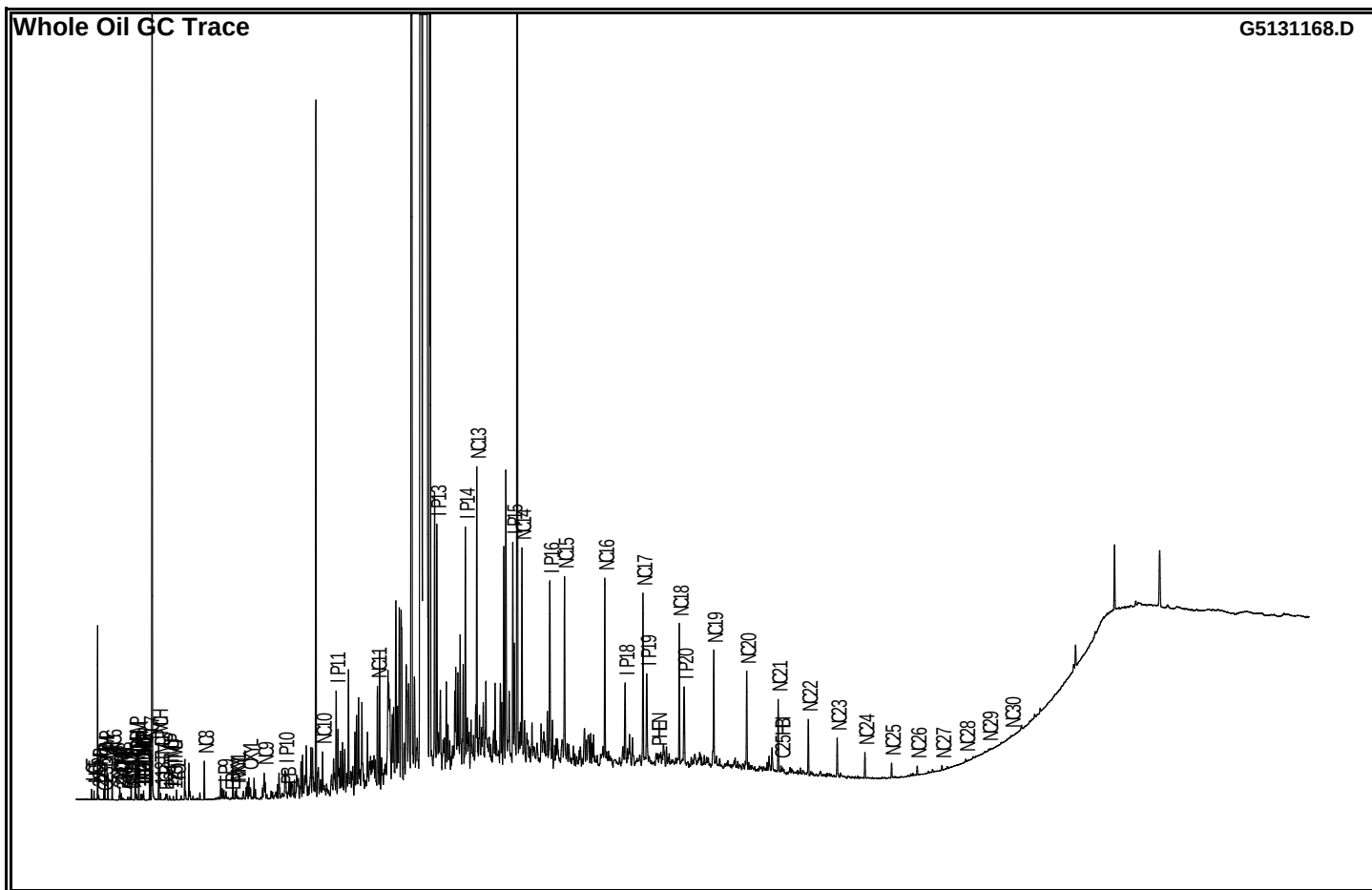


Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
ln(24DMP/23DMP)	ln(24DMP/23DMP)
Halpern³	
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	
FILE				GC_EXT_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003319
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP312614
Lease:	MACKENZIE PLAIN	Sample Type:	MUD
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	
Latitude:	65.09764	Top Depth:	682.00 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:		GC Method:	G02G



WGC parameters	
Pristane/Phytane	1.11
Pristane/ <i>n</i> C ₁₇	0.84
Phytane/ <i>n</i> C ₁₈	0.93
<i>n</i> C ₁₈ /(<i>n</i> C ₁₈ + <i>n</i> C ₁₉)	0.54
<i>n</i> C ₁₇ /(<i>n</i> C ₁₇ + <i>n</i> C ₂₉)	0.99
CPI Hunt ⁴	1.08
Normal Paraffins	0.9
Isoprenoids	0.4
Cycloparaffins	0.0
Branched (iso-) Paraffins	0.0
BTX aromatics	0.0
Resolved unknowns	98.7

Thompson ¹	
A. BZ/ <i>n</i> C ₆	0.12
B. TOL/ <i>n</i> C ₇	0.24
C. (<i>n</i> C ₆ + <i>n</i> C ₇)/(CH+MCH)	1.08
I. Isoheptane Value	3.12
F. <i>n</i> C ₇ /MCH	0.84
U. CH/MCP	1.21
R. <i>n</i> C ₇ /2MH	1.59
S. <i>n</i> C ₆ /22DMB	8.37
H. Heptane Value	22.58
MCH/ <i>n</i> C ₇	1.19
mpXYL/ <i>n</i> C ₈	0.37

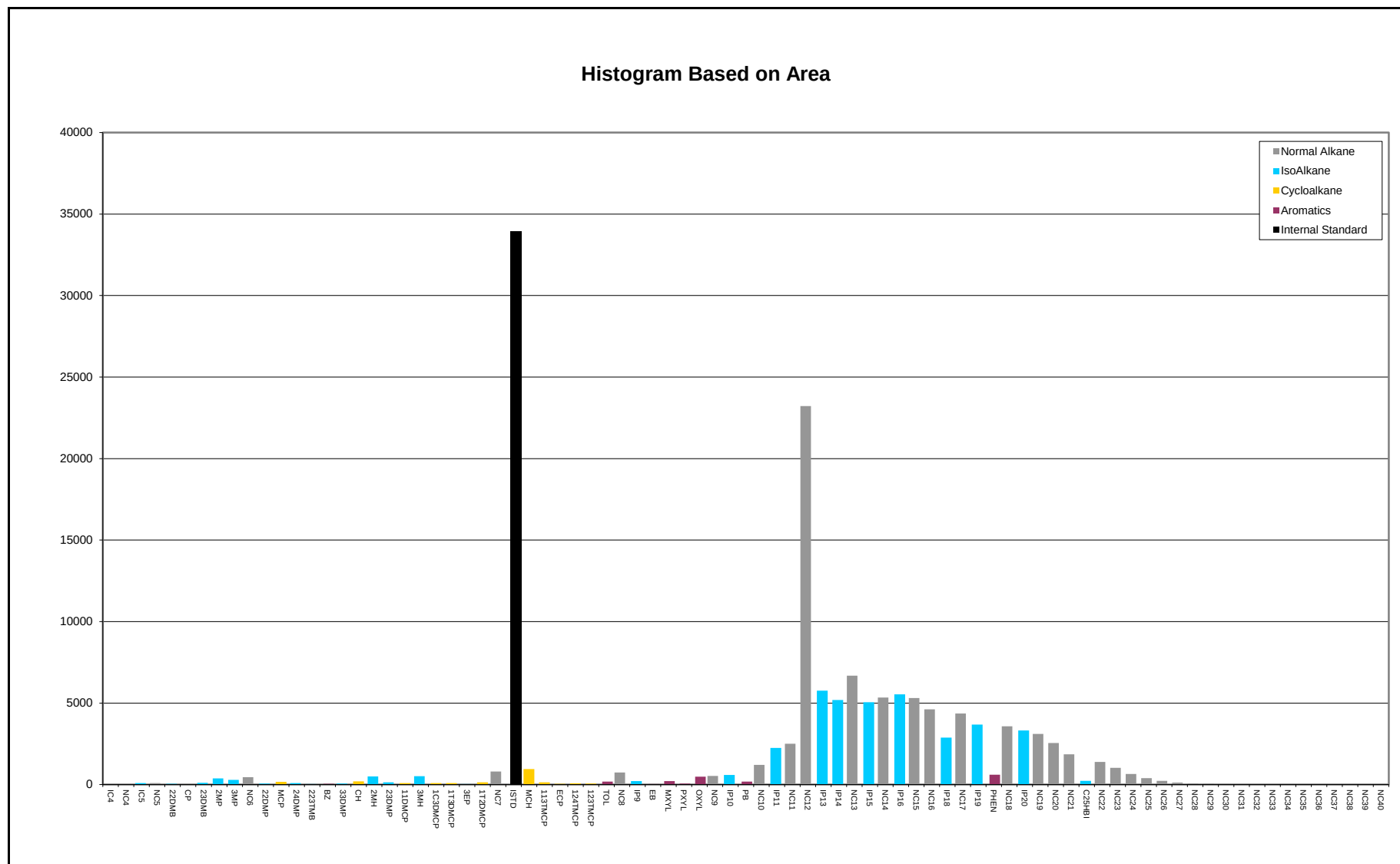
Mango ²	
P ₁	20.75
P ₂	26.63
P ₃	10.98
5N ₁	4.77
N ₂	7.25
6N ₁	29.61
K ₁	1.05
K ₂	0.79
5N ₁ /6N ₁	0.16
P ₃ /N ₂	1.51
ln(24DMP/23DMP)	-0.43

Halpern ³	
Tr ₁	2.05
Tr ₂	8.71
Tr ₃	5.70
Tr ₄	5.48
Tr ₅	11.17
Tr ₇	0.97
Tr ₈	2.66
C ₁	0.15
C ₂	0.36
C ₃	0.23
C ₄	0.15
C ₅	0.10

Company:	ConocoPhillips	Client ID:	CA003319
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	682.00 - M	Lab ID:	CP312614
Sampling Point:		File Name:	G5131168.D

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5	4.484	91	72	0.01	0.02
NC5	Normal Alkane C5	4.724	87	62	0.01	0.01
22DMB	2,2-Dimethylbutane	5.175	54	31	0.01	0.01
CP	Cyclopentane	5.632	11	8	0.00	0.00
23DMB	2,3-Dimethylbutane	5.676	107	69	0.01	0.02
2MP	2-Methylpentane	5.758	382	253	0.04	0.06
3MP	3-Methylpentane	6.056	288	179	0.03	0.04
NC6	Normal Alkane C6	6.467	452	273	0.05	0.06
22DMP	2,2-Dimethylpentane	7.142	59	32	0.01	0.01
MCP	Methylcyclopentane	7.200	170	91	0.02	0.02
24DMP	2,4-Dimethylpentane	7.336	90	46	0.01	0.01
223TMB	2,2,3-Trimethylbutane	7.492	37	16	0.00	0.00
BZ	Benzene	7.956	53	21	0.01	0.01
33DMP	3,3-Dimethylpentane	8.175	59	22	0.01	0.01
CH	Cyclohexane	8.290	205	93	0.02	0.02
2MH	2-Methylhexane	8.676	504	247	0.05	0.06
23DMP	2,3-Dimethylpentane	8.727	139	70	0.01	0.02
11DMCP	1,1-Dimethylcyclopentane	8.817	92	39	0.01	0.01
3MH	3-Methylhexane	9.019	524	244	0.05	0.06
1C3DMCP	1-cis-3-Dimethylcyclopentane	9.254	99	43	0.01	0.01
1T3DMCP	1-trans-3-Dimethylcyclopentane	9.368	89	39	0.01	0.01
3EP	3-Ethylpentane	9.455	40	22	0.00	0.01
1T2DMCP	1-trans-2-Dimethylcyclopentane	9.483	141	65	0.02	0.02
NC7	Normal Alkane C7	10.080	801	363	0.08	0.08
ISTD	Internal Standard	10.301	33915	15435	3.49	3.49
MCH	Methylcyclohexane	10.935	954	392	0.10	0.09
113TMCP	1,1,3-Trimethylcyclopentane	11.112	146	49	0.02	0.01
ECP	Ethylcyclopentane	11.515	43	15	0.00	0.00
124TMCP	1,2,4-Trimethylcyclopentane	11.968	75	30	0.01	0.01
123TMCP	1,2,3-Trimethylcyclopentane	12.340	62	25	0.01	0.01
TOL	Toluene	12.646	189	69	0.02	0.02
NC8	Normal Alkane C8	15.316	737	266	0.08	0.06
IP9	Isoprenoid C9	17.199	214	66	0.02	0.02
EB	Ethyl-benzene	17.897	40	13	0.00	0.00
MXYL	<i>m</i> -xylene	18.395	211	73	0.02	0.02
PXYL	<i>p</i> -xylene	18.458	65	23	0.01	0.01
OXYL	<i>o</i> -xylene	19.600	481	148	0.05	0.03
NC9	Normal Alkane C9	21.070	532	178	0.06	0.04
IP10	Isoprenoid C10	23.063	597	193	0.06	0.04
PB	Propyl-benzene	23.237	183	48	0.02	0.01
NC10	Normal Alkane C10	26.679	1206	310	0.12	0.07
IP11	Isoprenoid C11	27.985	2246	721	0.23	0.16
NC11	Normal Alkane C11	31.949	2505	718	0.26	0.16
NC12	Normal Alkane C12	36.964	23217	8285	2.39	1.87
IP13	Isoprenoid C13	37.656	5760	1715	0.59	0.39
IP14	Isoprenoid C14	40.398	5187	1663	0.53	0.38
NC13	Normal Alkane C13	41.497	6689	2071	0.69	0.47
IP15	Isoprenoid C15	44.954	5051	1535	0.52	0.35
NC14	Normal Alkane C14	45.836	5341	1501	0.55	0.34

Client ID:	CA003319
Project #:	BH-63173
Lab ID:	CP312614
File Name:	G5131168.D



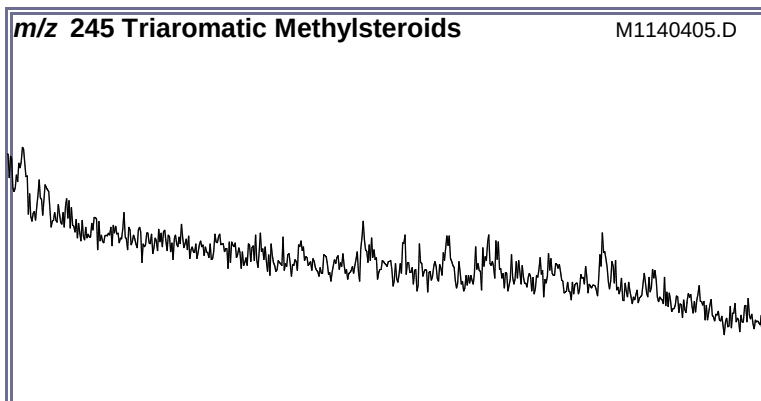
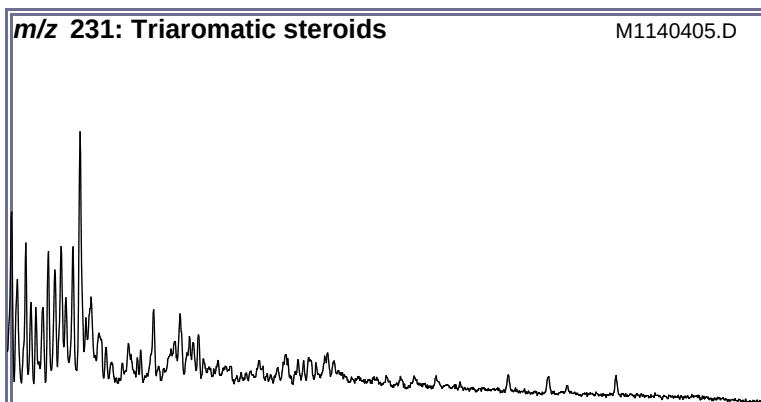
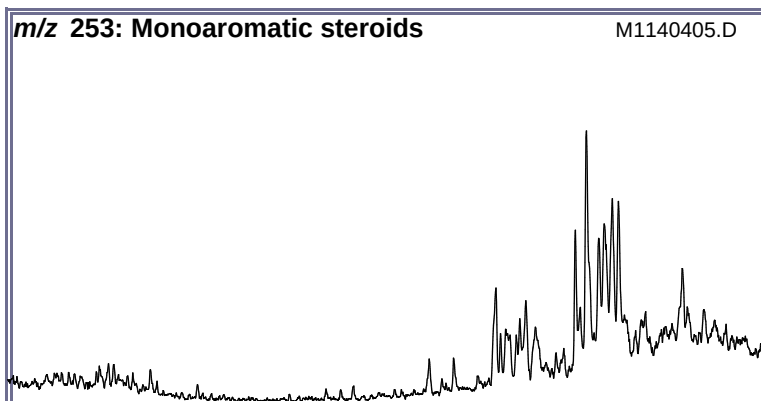
Parameter	Formula
WGC Parameters	
Pristane/Phytane	IP19/IP20
Pristane/nC17	IP19/NC17
Phytane/nC18	IP20/NC18
$nC_{18}/(nC_{18}+nC_{19})$	$NC18/(NC18+NC19)$
$nC_{17}/(nC_{17}+nC_{29})$	$NC17/(NC17+NC29)$
CPI Hunt ⁴	$((NC23+NC25+NC27+NC29+NC31)+(NC25+NC27+NC29+NC31+NC33))/(2*(NC24+NC26+NC28+NC30+ NC32))$
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)
Thompson¹	
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	$(MXYL+PXYL)/NC8$
Mango²	
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	$(2MH+3MH)/(2MH+3MH+11DMCP+1C3DMCP+1T3DMCP)$
5N1/6N1	$(ECP+1T2DMCP)/(MCH+TOL)$
P3/N2	$(3EP+33DMP+23DMP+24DMP+22DMP+223TMB)/(11DMCP+1C3DMCP+1T3DMCP)$
$\ln(24DMP/23DMP)$	$\ln(24DMP/23DMP)$
Halpern³	
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	
FILE				GC_WHOIL_[F]_[S]_[D]-[B]_[P].xls	

7	8	9	10	11
Max samples in one page	Tick			

Company:	ConocoPhillips	Client ID:	CA003727
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315956
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	UPPER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1661.80 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas) ¹	App ²	TEV ³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.57 M	1.0 (1.3%)
TAS #1 20/20+27	0.74 M	
TAS #2 21/21+28	0.80 M	
%26 TAS	17.8 D	
%27 TAS	27.3 D	
%28 TAS	54.8 D	
%29 TAS	0.0 D	
C28/C26 20S TAS	3.52	
C28/C27 20R TAS	2.01	
Dia/Regular C27 MAS		
%27 MAS	D	
%28 MAS	D	
%29 MAS	D	
(C21+C22)/S MAS	M	1.0 (1.3%)
TAS/(MAS+TAS)	1.00 M	
TA28/(TA28+MA29)	1.00 M	1.0 (0.8%)

Triaromatic Methylsteroids		
Dinosteroid Index	A	
C4/C3+C4 Mester	A	

Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.41 M	
Rc(a) if Ro < 1.3 (Ro%)	1.22 M	
Rc(b) if Ro > 1.3 (Ro%)	1.45 M	
MPI-2	1.58 M	
DNR-1	13.47 M	
DNR-2	3.64 M	
TNR1	1.44 M	
TDE-1	2.23 M	
TDE-2	0.15 M	
MDR	4.54 M	
Rm (Ro%)	0.85 M	
MDR23	3.18 M	
MDR1	1.10 M	
DBT/Phenanthrene	0.02 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003727
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1661.80 - M	Lab ID:	CP315956
Sampling Point:	OTHER	File Name:	M1140405.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	74.939	21153	5238	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	37.850	29336	4742	416.1	271.6
142	1MN	1-Methylnaphthalene	39.070	16774	2726	237.9	156.1
156	2EN	2-Ethylnaphthalene	46.004	6969	1107	98.8	63.4
156	1EN	1-Ethylnaphthalene	46.074	1188	401	16.8	23.0
156	26DMN	2,6-Dimethylnaphthalene	46.928	96876	14597	1373.9	836.0
156	27DMN	2,7-Dimethylnaphthalene	47.067	90892	14637	1289.1	838.3
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.060	149753	20008	2123.9	1145.9
156	16DMN	1,6-Dimethylnaphthalene	48.322	106209	17256	1506.3	988.3
156	23DMN	2,3-Dimethylnaphthalene	49.489	8897	1919	126.2	109.9
156	14DMN	1,4-Dimethylnaphthalene	49.594	42748	5744	606.3	329.0
156	15DMN	1,5-Dimethylnaphthalene	49.681	13938	3332	197.7	190.8
156	12DMN	1,2-Dimethylnaphthalene	50.639	8656	1365	122.8	78.2
162	C2BTA	C2 Benzo thiophene	45.482	144	26	2.0	1.5
162	C2BTB	C2 Benzo thiophene					
162	C2BTC	C2 Benzo thiophene					
162	C2BTD	C2 Benzo thiophene	47.869	106	19	1.5	1.1
162	C2BTE	C2 Benzo thiophene	48.374	204	35	2.9	2.0
168	3MBP	3-Methylbiphenyl	53.148	81620	12801	1157.6	733.2
168	4MBP	4-Methylbiphenyl	53.810	39115	5972	554.7	342.0
168	DBF	Dibenzofuran	55.274	664	82	9.4	4.7
170	BB_EMN	Ethyl-methyl-Naphthalene	54.960	50376	6681	714.5	382.6
170	AB_EMN	Ethyl-methyl-Naphthalene	56.180	15394	2382	218.3	136.4
170	137TMN	1,3,7-Trimethylnaphthalene	56.650	180235	27580	2556.2	1579.6
170	136TMN	1,3,6-Trimethylnaphthalene	57.034	234250	37373	3322.2	2140.5
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.097	135713	19521	1924.7	1118.0
170	236TMN	2,3,6-Trimethylnaphthalene	58.375	194799	32683	2762.7	1871.9
170	127TMN	1,2,7-Trimethylnaphthalene	59.090	17853	2921	253.2	167.3
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.281	121754	18384	1726.8	1052.9
170	124TMN	1,2,4-Trimethylnaphthalene	60.181	6758	1156	95.8	66.2
170	125TMN	1,2,5-Trimethylnaphthalene	60.634	15043	2580	213.3	147.8
176	C3BT11	C3 Benzo thioC3BT11e					
176	C3BT12	C3 Benzo thioC3BT12e					
176	C3BT13	C3 Benzo thioC3BT13e	54.821	138	23	2.0	1.3
176	C3BT1415	C3 Benzo thioC3BT1415e	55.030	157	21	2.2	1.2
176	C3BT16	C3 Benzo thioC3BT16e	55.884	134	24	1.9	1.4
176	C3BT17	C3 Benzo thioC3BT17e	55.988	461	65	6.5	3.7
176	C3BT18	C3 Benzo thioC3BT18e	57.208	415	61	5.9	3.5
176	C3BT19	C3 Benzo thioC3BT19e	60.704	747	147	10.6	8.4
178	PHEN	Phenanthrene	70.182	146397	27090	2076.3	1551.5
180	9MF	9-Methylfluorene	61.366	416	84	5.9	4.8
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.680	28404	3780	402.8	216.5
180	1MF	1-Methylfluorene	66.994	31235	5846	443.0	334.8
180	4MF	4-Methylfluorene	67.499	2150	348	30.5	19.9

Company:	ConocoPhillips	Client ID:	CA003727
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1661.80 - M	Lab ID:	CP315956
Sampling Point:	OTHER	File Name:	M1140405.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.57	0.56
TAS #1 20/20+27	0.74	0.78
TAS #2 21/21+28	0.80	0.75
%26TAS	17.8	22.9
%27TAS	27.3	23.2
%28TAS	54.8	53.9
%29TAS	0.0	0.0
C28/C26 20S TAS	3.52	2.04
C28/C27 20R TAS	2.01	2.32
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/S MAS		
TAS/(MAS+TAS)	1.00	1.00
TA28/(TA28+MA29)	1.00	1.00
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester		
Phenanthrenes and Naphthalenes		
MPI-1	1.41	1.40
MPI-2	1.58	1.60
Rc(a) if Ro < 1.3 (Ro%)	1.22	1.21
Rc(b) if Ro > 1.3 (Ro%)	1.45	1.46
DNR-1	13.47	8.77
DNR-2	3.64	3.81
TNR1	1.44	1.67
TDE-1	2.23	2.23
TDE-2	0.15	0.16
MDR	4.54	4.36
Rm (Ro%)	0.85	0.83
MDR23	3.18	2.42
MDR1	1.10	1.17
DBT/Phenanthrene	0.02	0.02
TPHEN	16.75	15.44
C3BTI	0.77	0.67
RC_S	0.36	0.35

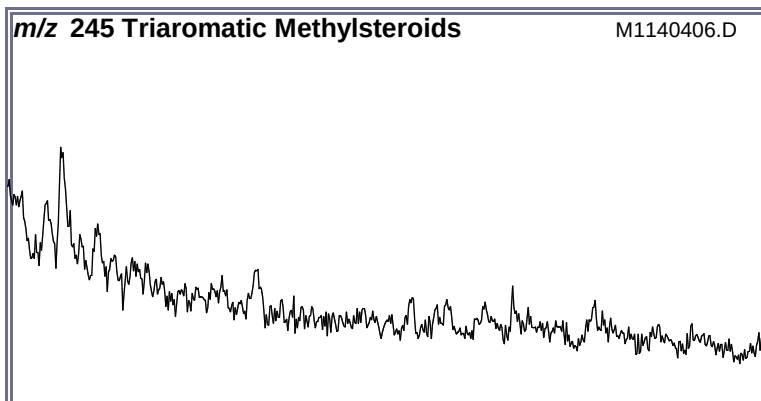
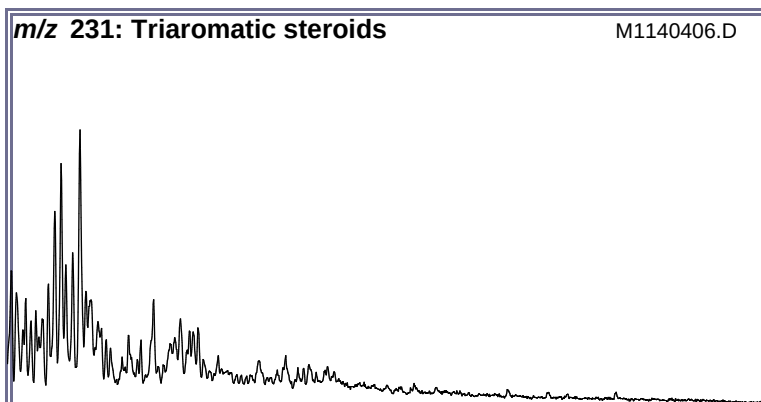
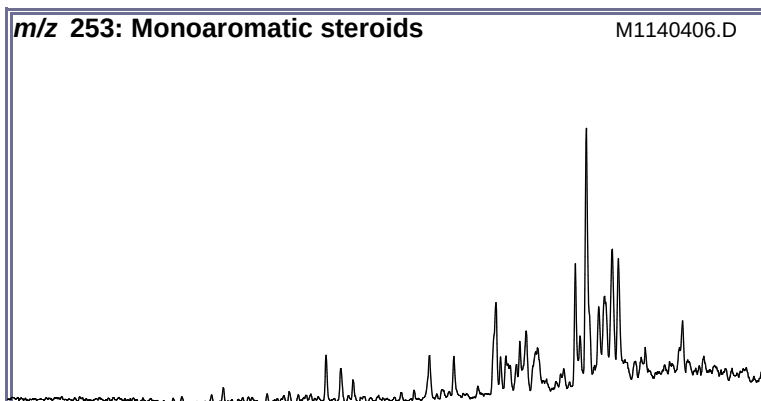
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003728
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315957
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1701.27 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas)¹	App²	TEV³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.78 M	1.0 (1.3%)
TAS #1 20/20+27	0.88 M	
TAS #2 21/21+28	0.91 M	
%26 TAS	0.0 D	
%27 TAS	37.3 D	
%28 TAS	62.7 D	
%29 TAS	0.0 D	
C28/C26 20S TAS		
C28/C27 20R TAS	1.68	
Dia/Regular C27 MAS		
%27 MAS	D	
%28 MAS	D	
%29 MAS	D	
(C21+C22)/S MAS	M	1.0 (1.3%)
TAS/(MAS+TAS)	1.00 M	
TA28/(TA28+MA29)	1.00 M	1.0 (0.8%)
Triaromatic Methylsteroids		
Dinosteroid Index	A	
C4/C3+C4 Mester	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.51 M	
Rc(a) if Ro < 1.3 (Ro%)	1.27 M	
Rc(b) if Ro > 1.3 (Ro%)	1.40 M	
MPI-2	1.78 M	
DNR-1	13.73 M	
DNR-2	3.95 M	
TNR1	1.23 M	
TDE-1	2.80 M	
TDE-2	0.13 M	
MDR	50.67 M	
Rm (Ro%)	1204.97 M	
MDR23	2.26 M	
MDR1	0.14 M	
DBT/Phenanthrene	0.11 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003728
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1701.27 - M	Lab ID:	CP315957
Sampling Point:	OTHER	File Name:	M1140406.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	74.939	20808	4997	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	37.850	87160	14556	1256.6	873.9
142	1MN	1-Methylnaphthalene	39.070	43230	7161	623.3	429.9
156	2EN	2-Ethylnaphthalene	46.004	10261	1502	147.9	90.2
156	1EN	1-Ethylnaphthalene	46.092	1476	464	21.3	27.9
156	26DMN	2,6-Dimethylnaphthalene	46.928	126884	19036	1829.4	1142.8
156	27DMN	2,7-Dimethylnaphthalene	47.085	130865	21772	1886.8	1307.1
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.078	187278	24640	2700.1	1479.3
156	16DMN	1,6-Dimethylnaphthalene	48.322	146827	24504	2116.9	1471.1
156	23DMN	2,3-Dimethylnaphthalene	49.507	14262	2667	205.6	160.1
156	14DMN	1,4-Dimethylnaphthalene	49.576	50941	6661	734.4	399.9
156	15DMN	1,5-Dimethylnaphthalene	49.681	18767	4424	270.6	265.6
156	12DMN	1,2-Dimethylnaphthalene	50.639	8690	1335	125.3	80.1
162	C2BTA	C2 Benzothiophene	45.482	90	13	1.3	0.8
162	C2BTB	C2 Benzothiophene					
162	C2BTC	C2 Benzothiophene					
162	C2BTD	C2 Benzothiophene					
162	C2BTE	C2 Benzothiophene	48.374	212	30	3.1	1.8
168	3MBP	3-Methylbiphenyl	53.166	220901	35802	3184.8	2149.4
168	4MBP	4-Methylbiphenyl	53.810	106936	16930	1541.8	1016.4
168	DBF	Dibenzofuran	55.239	1065	146	15.4	8.8
170	BB_EMN	Ethyl-methyl-Naphthalene	54.960	43742	5894	630.7	353.9
170	AB_EMN	Ethyl-methyl-Naphthalene	56.180	14307	2165	206.3	130.0
170	137TMN	1,3,7-Trimethylnaphthalene	56.650	137232	20529	1978.5	1232.5
170	136TMN	1,3,6-Trimethylnaphthalene	57.034	205753	32616	2966.5	1958.1
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.079	114844	17045	1655.8	1023.3
170	236TMN	2,3,6-Trimethylnaphthalene	58.358	140751	23609	2029.3	1417.4
170	127TMN	1,2,7-Trimethylnaphthalene	59.090	11740	2118	169.3	127.2
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.264	93398	14720	1346.6	883.7
170	124TMN	1,2,4-Trimethylnaphthalene	60.181	4947	855	71.3	51.3
170	125TMN	1,2,5-Trimethylnaphthalene	60.634	13838	2390	199.5	143.5
176	C3BT11	C3 BenzothioC3BT11e					
176	C3BT12	C3 BenzothioC3BT12e					
176	C3BT13	C3 BenzothioC3BT13e	54.804	75	18	1.1	1.1
176	C3BT1415	C3 BenzothioC3BT1415e	55.082	180	27	2.6	1.6
176	C3BT16	C3 BenzothioC3BT16e					
176	C3BT17	C3 BenzothioC3BT17e	56.006	331	52	4.8	3.1
176	C3BT18	C3 BenzothioC3BT18e	57.278	284	38	4.1	2.3
176	C3BT19	C3 BenzothioC3BT19e	60.703	1310	217	18.9	13.0
178	PHEN	Phenanthrene	70.200	223728	42414	3225.6	2546.4
180	9MF	9-Methylfluorene	61.557	2688	471	38.8	28.3
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.697	59645	7489	859.9	449.6
180	1MF	1-Methylfluorene	66.994	83254	16246	1200.3	975.3
180	4MF	4-Methylfluorene	67.516	7225	1347	104.2	80.9

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1701.27 - M
Sampling Point:	OTHER

[illegible]

Company:	ConocoPhillips	Client ID:	CA003728
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1701.27 - M	Lab ID:	CP315957
Sampling Point:	OTHER	File Name:	M1140406.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.78	0.78
TAS #1 20/20+27	0.88	0.89
TAS #2 21/21+28	0.91	0.88
%26TAS	0.0	0.0
%27TAS	37.3	39.2
%28TAS	62.7	60.8
%29TAS	0.0	0.0
C28/C26 20S TAS		
C28/C27 20R TAS	1.68	1.55
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/S MAS		
TAS/(MAS+TAS)	1.00	1.00
TA28/(TA28+MA29)	1.00	1.00
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester		
Phenanthrenes and Naphthalenes		
MPI-1	1.51	1.56
MPI-2	1.78	1.92
Rc(a) if Ro < 1.3 (Ro%)	1.27	1.31
Rc(b) if Ro > 1.3 (Ro%)	1.40	1.36
DNR-1	13.73	9.22
DNR-2	3.95	4.37
TNR1	1.23	1.39
TDE-1	2.80	2.80
TDE-2	0.13	0.14
MDR	50.67	54.00
Rm (Ro%)	1204.97	1475.00
MDR23	2.26	2.45
MDR1	0.14	0.15
DBT/Phenanthrene	0.11	0.10
TPHEN	15.57	14.39
C3BTI	0.35	0.38
RC_S	0.30	0.30

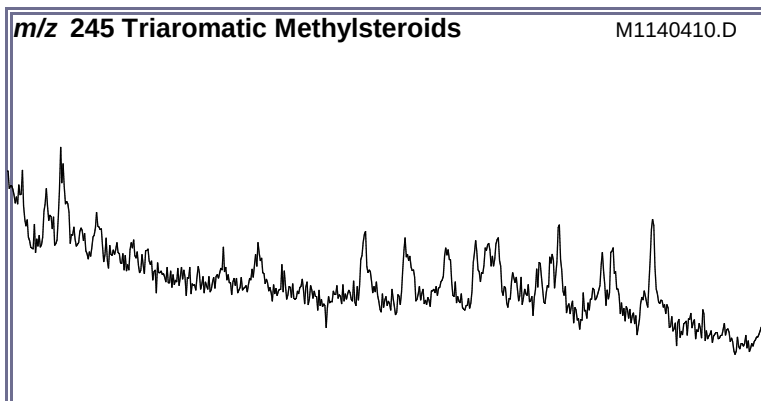
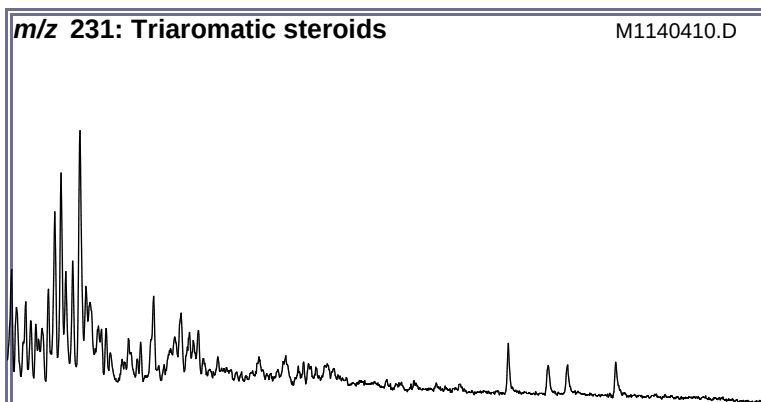
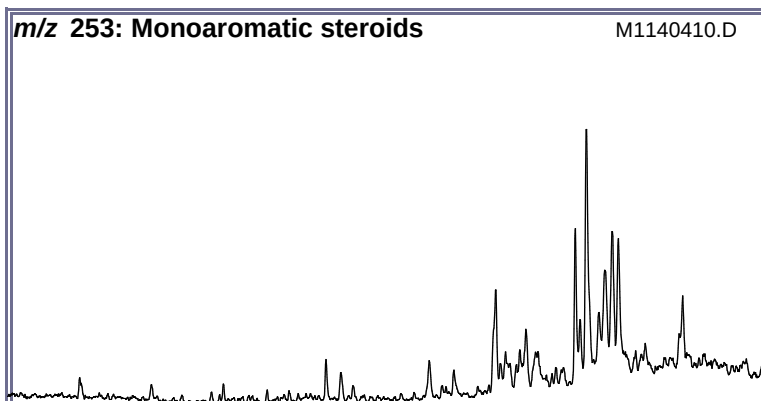
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
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6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003729
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315958
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1751.21 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas)¹	App²	TEV³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.45 M	1.0 (1.3%)
TAS #1 20/20+27	0.60 M	
TAS #2 21/21+28	0.69 M	
%26 TAS	10.3 D	
%27 TAS	40.9 D	
%28 TAS	48.7 D	
%29 TAS	0.0 D	
C28/C26 20S TAS	4.56	
C28/C27 20R TAS	1.19	
Dia/Regular C27 MAS		
%27 MAS	D	
%28 MAS	D	
%29 MAS	D	
(C21+C22)/S MAS	1.00 M	1.0 (1.3%)
TAS/(MAS+TAS)	0.89 M	
TA28/(TA28+MA29)	1.00 M	1.0 (0.8%)
Triaromatic Methylsteroids		
Dinosteroid Index	0.40 A	
C4/C3+C4 Mester	0.39 A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.47 M	
Rc(a) if Ro < 1.3 (Ro%)	1.25 M	
Rc(b) if Ro > 1.3 (Ro%)	1.42 M	
MPI-2	1.75 M	
DNR-1	9.84 M	
DNR-2	3.83 M	
TNR1	1.09 M	
TDE-1	2.49 M	
TDE-2	0.14 M	
MDR	17.27 M	
Rm (Ro%)	34.24 M	
MDR23	2.01 M	
MDR1	0.29 M	
DBT/Phenanthrene	0.15 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003729
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1751.21 - M	Lab ID:	CP315958
Sampling Point:	OTHER	File Name:	M1140410.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	74.940	23777	5848	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	37.852	42165	6926	532.0	355.3
142	1MN	1-Methylnaphthalene	39.072	21781	3555	274.8	182.4
156	2EN	2-Ethylnaphthalene	45.989	6908	1060	87.2	54.4
156	1EN	1-Ethylnaphthalene	46.076	1451	410	18.3	21.0
156	26DMN	2,6-Dimethylnaphthalene	46.913	86356	12860	1089.6	659.7
156	27DMN	2,7-Dimethylnaphthalene	47.069	85677	15042	1081.0	771.6
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.063	132992	17783	1678.0	912.3
156	16DMN	1,6-Dimethylnaphthalene	48.306	109382	17503	1380.1	897.9
156	23DMN	2,3-Dimethylnaphthalene	49.491	9742	1980	122.9	101.6
156	14DMN	1,4-Dimethylnaphthalene	49.578	35137	4886	443.3	250.7
156	15DMN	1,5-Dimethylnaphthalene	49.666	17481	3556	220.6	182.4
156	12DMN	1,2-Dimethylnaphthalene	50.641	8395	1323	105.9	67.9
162	C2BTA	C2 Benzo thiophene	45.449	306	48	3.9	2.5
162	C2BTB	C2 Benzo thiophene	45.832	89	15	1.1	0.8
162	C2BTC	C2 Benzo thiophene	46.651	262	40	3.3	2.1
162	C2BTD	C2 Benzo thiophene	47.853	200	29	2.5	1.5
162	C2BTE	C2 Benzo thiophene	48.394	1332	225	16.8	11.5
168	3MBP	3-Methylbiphenyl	53.168	174615	28095	2203.2	1441.3
168	4MBP	4-Methylbiphenyl	53.812	87733	13770	1106.9	706.4
168	DBF	Dibenzofuran	55.241	1490	193	18.8	9.9
170	BB_EMN	Ethyl-methyl-Naphthalene	54.962	36136	4600	455.9	236.0
170	AB_EMN	Ethyl-methyl-Naphthalene	56.182	12685	1893	160.1	97.1
170	137TMN	1,3,7-Trimethylnaphthalene	56.635	115554	18036	1458.0	925.2
170	136TMN	1,3,6-Trimethylnaphthalene	57.018	176520	28123	2227.2	1442.7
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.081	109798	16229	1385.3	832.5
170	236TMN	2,3,6-Trimethylnaphthalene	58.360	119624	20511	1509.3	1052.2
170	127TMN	1,2,7-Trimethylnaphthalene	59.092	12330	2179	155.6	111.8
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.266	87459	13286	1103.5	681.6
170	124TMN	1,2,4-Trimethylnaphthalene	60.181	6608	928	83.4	47.6
170	125TMN	1,2,5-Trimethylnaphthalene	60.635	16481	2824	207.9	144.9
176	C3BT11	C3 Benzo thioC3BT11e	53.325	559	61	7.1	3.1
176	C3BT12	C3 Benzo thioC3BT12e	53.987	272	44	3.4	2.3
176	C3BT13	C3 Benzo thioC3BT13e	54.840	1151	165	14.5	8.5
176	C3BT1415	C3 Benzo thioC3BT1415e	55.015	1007	124	12.7	6.4
176	C3BT16	C3 Benzo thioC3BT16e	55.868	330	81	4.2	4.2
176	C3BT17	C3 Benzo thioC3BT17e	55.973	3105	465	39.2	23.9
176	C3BT18	C3 Benzo thioC3BT18e	57.228	2190	309	27.6	15.9
176	C3BT19	C3 Benzo thioC3BT19e	60.704	1513	235	19.1	12.1
178	PHEN	Phenanthrene	70.183	180133	35435	2272.8	1817.8
180	9MF	9-Methylfluorene	61.558	2255	429	28.5	22.0
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.681	36634	5028	462.2	257.9
180	1MF	1-Methylfluorene	66.994	56493	10769	712.8	552.4
180	4MF	4-Methylfluorene	67.500	2297	393	29.0	20.2

Client ID:	CA003729
Project #:	BH-63173
Lab ID:	CP315958
File Name:	M1140410.D

[illegible]

Company:	ConocoPhillips	Client ID:	CA003729
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1751.21 - M	Lab ID:	CP315958
Sampling Point:	OTHER	File Name:	M1140410.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.45	0.43
TAS #1 20/20+27	0.60	0.63
TAS #2 21/21+28	0.69	0.64
%26TAS	10.3	10.8
%27TAS	40.9	40.0
%28TAS	48.7	49.3
%29TAS	0.0	0.0
C28/C26 20S TAS	4.56	3.83
C28/C27 20R TAS	1.19	1.23
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/S MAS	1.00	1.00
TAS/(MAS+TAS)	0.89	0.87
TA28/(TA28+MA29)	1.00	1.00
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.40	0.45
C4/C3+C4 Mester	0.39	0.37
Phenanthrenes and Naphthalenes		
MPI-1	1.47	1.45
MPI-2	1.75	1.74
Rc(a) if Ro < 1.3 (Ro%)	1.25	1.24
Rc(b) if Ro > 1.3 (Ro%)	1.42	1.43
DNR-1		
DNR-2		
TNR1		
TDE-1		
TDE-2		
MDR		
Rm (Ro%)		
MDR23		
MDR1		
DBT/Phenanthrene		
TPHEN		
C3BTI		
RC_S		

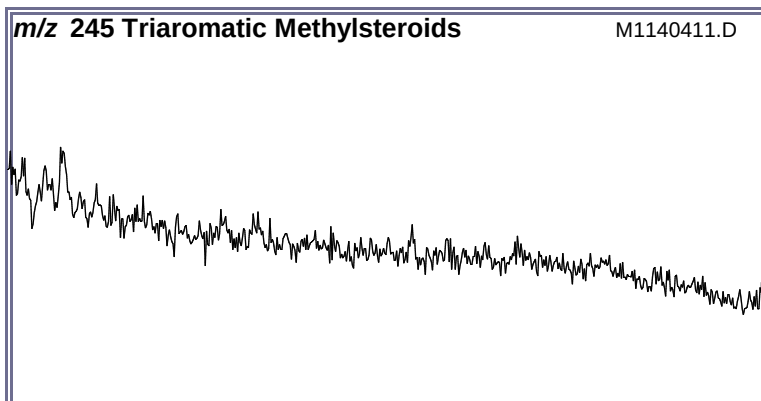
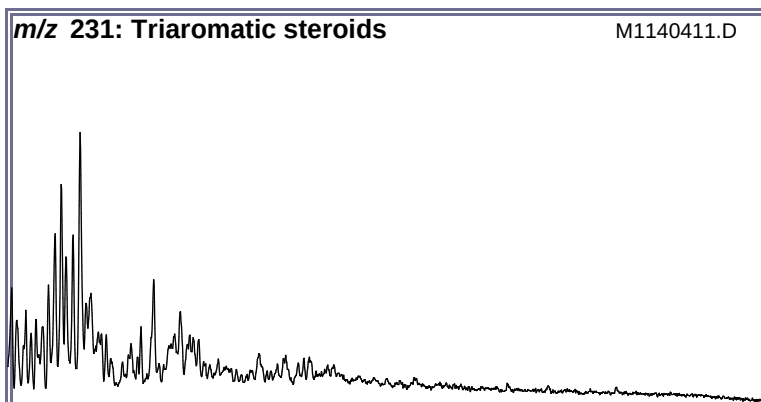
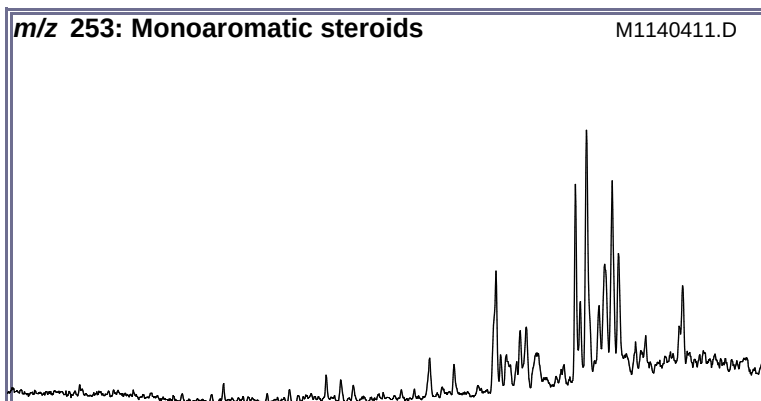
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F][S][D]-[B][P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003730
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315959
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1777.20 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas) ¹	App ²	TEV ³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	1.00 M	1.0 (1.3%)
TAS #1 20/20+27	1.00 M	
TAS #2 21/21+28	1.00 M	
%26 TAS	D	
%27 TAS	D	
%28 TAS	D	
%29 TAS	D	
C28/C26 20S TAS		
C28/C27 20R TAS		
Dia/Regular C27 MAS		
%27 MAS	D	
%28 MAS	D	
%29 MAS	D	
(C21+C22)/S MAS	M	1.0 (1.3%)
TAS/(MAS+TAS)	1.00 M	
TA28/(TA28+MA29)	M	1.0 (0.8%)

Triaromatic Methylsteroids		
Dinosteroid Index	A	
C4/C3+C4 Mester	A	

Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.66 M	
Rc(a) if Ro < 1.3 (Ro%)	1.36 M	
Rc(b) if Ro > 1.3 (Ro%)	1.31 M	
MPI-2	1.96 M	
DNR-1	14.27 M	
DNR-2	4.70 M	
TNR1	1.22 M	
TDE-1	2.27 M	
TDE-2	0.14 M	
MDR	43.49 M	
Rm (Ro%)	740.56 M	
MDR23	2.15 M	
MDR1	0.14 M	
DBT/Phenanthrene	0.07 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003730
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1777.20 - M	Lab ID:	CP315959
Sampling Point:	OTHER	File Name:	M1140411.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	74.939	34600	8407	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	37.865	227426	36740	1971.9	1311.1
142	1MN	1-Methylnaphthalene	39.067	104841	16413	909.0	585.7
156	2EN	2-Ethylnaphthalene	46.002	20665	3132	179.2	111.8
156	1EN	1-Ethylnaphthalene	46.089	2911	974	25.2	34.8
156	26DMN	2,6-Dimethylnaphthalene	46.926	222922	33305	1932.9	1188.5
156	27DMN	2,7-Dimethylnaphthalene	47.082	237598	38822	2060.1	1385.3
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.076	317162	41216	2750.0	1470.8
156	16DMN	1,6-Dimethylnaphthalene	48.320	248134	39371	2151.5	1404.9
156	23DMN	2,3-Dimethylnaphthalene	49.487	16329	3836	141.6	136.9
156	14DMN	1,4-Dimethylnaphthalene	49.592	81566	11029	707.2	393.6
156	15DMN	1,5-Dimethylnaphthalene	49.661	32279	6800	279.9	242.7
156	12DMN	1,2-Dimethylnaphthalene	50.637	14936	2298	129.5	82.0
162	C2BTA	C2 Benzo thiophene	45.479	263	46	2.3	1.6
162	C2BTB	C2 Benzo thiophene					
162	C2BTC	C2 Benzo thiophene	46.647	222	38	1.9	1.4
162	C2BTD	C2 Benzo thiophene	47.849	205	30	1.8	1.1
162	C2BTE	C2 Benzo thiophene	48.372	350	62	3.0	2.2
168	3MBP	3-Methylbiphenyl	53.163	345787	53140	2998.2	1896.3
168	4MBP	4-Methylbiphenyl	53.826	149799	23436	1298.8	836.3
168	DBF	Dibenzofuran	55.254	1300	179	11.3	6.4
170	BB_EMN	Ethyl-methyl-Naphthalene	54.976	68869	9104	597.1	324.9
170	AB_EMN	Ethyl-methyl-Naphthalene	56.178	21688	3276	188.0	116.9
170	137TMN	1,3,7-Trimethylnaphthalene	56.648	199213	30234	1727.3	1078.9
170	136TMN	1,3,6-Trimethylnaphthalene	57.032	296927	46500	2574.5	1659.3
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.077	160235	22989	1389.3	820.4
170	236TMN	2,3,6-Trimethylnaphthalene	58.373	195929	32175	1698.8	1148.2
170	127TMN	1,2,7-Trimethylnaphthalene	59.088	17657	2894	153.1	103.3
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.262	128456	19124	1113.8	682.4
170	124TMN	1,2,4-Trimethylnaphthalene	60.181	8505	1143	73.7	40.8
170	125TMN	1,2,5-Trimethylnaphthalene	60.634	19310	3146	167.4	112.3
176	C3BT11	C3 Benzo thioC3BT11e					
176	C3BT12	C3 Benzo thioC3BT12e					
176	C3BT13	C3 Benzo thioC3BT13e	54.801	193	26	1.7	0.9
176	C3BT1415	C3 Benzo thioC3BT1415e	55.063	361	44	3.1	1.6
176	C3BT16	C3 Benzo thioC3BT16e	55.812	155	23	1.3	0.8
176	C3BT17	C3 Benzo thioC3BT17e	55.986	479	68	4.2	2.4
176	C3BT18	C3 Benzo thioC3BT18e	57.241	394	55	3.4	2.0
176	C3BT19	C3 Benzo thioC3BT19e	60.703	2239	364	19.4	13.0
178	PHEN	Phenanthrene	70.182	246330	45168	2135.8	1611.8
180	9MF	9-Methylfluorene	61.383	558	111	4.8	4.0
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.680	66066	8866	572.8	316.4
180	1MF	1-Methylfluorene	66.993	69713	13116	604.4	468.0
180	4MF	4-Methylfluorene	67.516	4683	769	40.6	27.4

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1777.20 - M
Sampling Point:	OTHER

[illegible]

Company:	ConocoPhillips	Client ID:	CA003730
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1777.20 - M	Lab ID:	CP315959
Sampling Point:	OTHER	File Name:	M1140411.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	1.00	1.00
TAS #1 20/20+27	1.00	1.00
TAS #2 21/21+28	1.00	1.00
%26TAS		
%27TAS		
%28TAS		
%29TAS		
C28/C26 20S TAS		
C28/C27 20R TAS		
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/S MAS		
TAS/(MAS+TAS)	1.00	1.00
TA28/(TA28+MA29)		
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester		
Phenanthrenes and Naphthalenes		
MPI-1	1.66	1.73
MPI-2	1.96	2.08
Rc(a) if Ro < 1.3 (Ro%)	1.36	1.41
Rc(b) if Ro > 1.3 (Ro%)	1.31	1.26
DNR-1	14.27	10.61
DNR-2	4.70	4.85
TNR1	1.22	1.40
TDE-1	2.27	2.75
TDE-2	0.14	0.15
MDR	43.49	42.84
Rm (Ro%)	740.56	705.36
MDR23	2.15	2.20
MDR1	0.14	0.16
DBT/Phenanthrene	0.07	0.07
TPHEN	16.84	15.57
C3BTI	0.30	0.30
RC_S	0.29	0.29

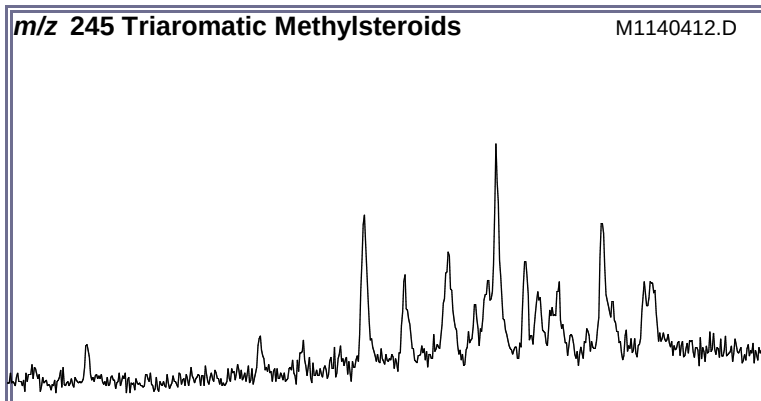
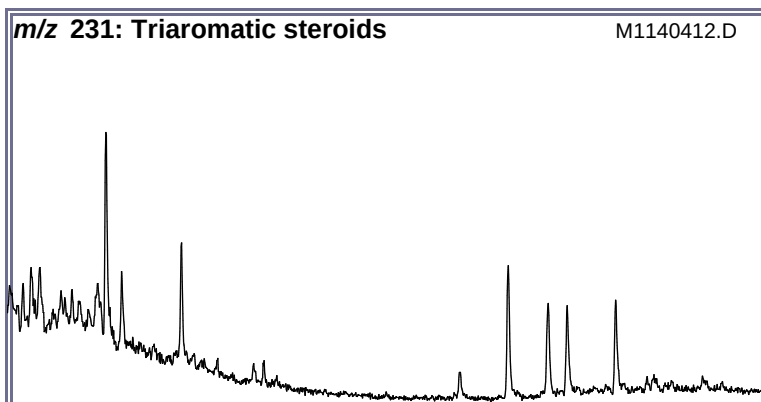
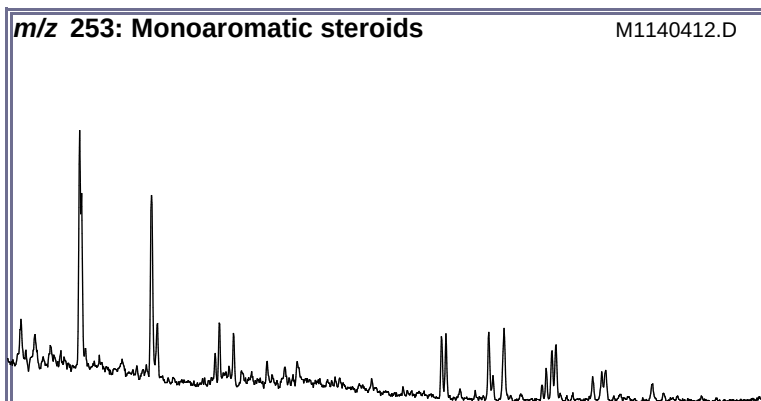
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F][S][D]-[B][P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003321
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP312616
Lease:	MACKENZIE PLAIN	Sample Type:	MUD
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	
Latitude:	65.09764	Top Depth:	1602.00 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas) ¹	App ²	TEV ³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.39 M	1.0 (1.3%)
TAS #1 20/20+27	0.67 M	
TAS #2 21/21+28	0.53 M	
%26 TAS	13.0 D	
%27 TAS	42.9 D	
%28 TAS	44.1 D	
%29 TAS	0.0 D	
C28/C26 20S TAS	3.75	
C28/C27 20R TAS	1.03	
Dia/Regular C27 MAS	0.99	
%27 MAS	39.3 D	
%28 MAS	35.5 D	
%29 MAS	25.2 D	
(C21+C22)/S MAS	0.43 M	1.0 (1.3%)
TAS/(MAS+TAS)	0.34 M	
TA28/(TA28+MA29)	0.48 M	1.0 (0.8%)

Triaromatic Methylsteroids		
Dinosteroid Index	0.21 A	
C4/C3+C4 Mester	0.29 A	

Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	0.70 M	
Rc(a) if Ro < 1.3 (Ro%)	0.79 M	
Rc(b) if Ro > 1.3 (Ro%)	1.88 M	
MPI-2	0.77 M	
DNR-1	3.19 M	
DNR-2	2.12 M	
TNR1	0.64 M	
TDE-1	3.20 M	
TDE-2	0.30 M	
MDR	1.73 M	
Rm (Ro%)	0.69 M	
MDR23	0.80 M	
MDR1	0.59 M	
DBT/Phenanthrene	1.35 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003321
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1602.00 - M	Lab ID:	CP312616
Sampling Point:		File Name:	M1140412.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	74.939	43775	10240	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	37.848	74867	12164	513.1	356.4
142	1MN	1-Methylnaphthalene	39.068	68787	10980	471.4	321.7
156	2EN	2-Ethylnaphthalene	46.002	28323	4291	194.1	125.7
156	1EN	1-Ethylnaphthalene	46.090	10311	2309	70.7	67.6
156	26DMN	2,6-Dimethylnaphthalene	46.908	49831	8282	341.5	242.6
156	27DMN	2,7-Dimethylnaphthalene	47.065	50287	7856	344.6	230.2
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.058	111618	15168	764.9	444.4
156	16DMN	1,6-Dimethylnaphthalene	48.302	98242	15283	673.3	447.7
156	23DMN	2,3-Dimethylnaphthalene	49.470	18465	3214	126.5	94.2
156	14DMN	1,4-Dimethylnaphthalene	49.574	28696	4573	196.7	134.0
156	15DMN	1,5-Dimethylnaphthalene	49.679	31408	5137	215.2	150.5
156	12DMN	1,2-Dimethylnaphthalene	50.637	32559	5056	223.1	148.1
162	C2BTA	C2 Benzo thiophene	45.462	8250	1303	56.5	38.2
162	C2BTB	C2 Benzo thiophene	45.846	3050	467	20.9	13.7
162	C2BTC	C2 Benzo thiophene	46.647	10903	1336	74.7	39.1
162	C2BTD	C2 Benzo thiophene	47.849	5786	739	39.7	21.7
162	C2BTE	C2 Benzo thiophene	48.372	28705	4575	196.7	134.0
168	3MBP	3-Methylbiphenyl	53.146	18183	2856	124.6	83.7
168	4MBP	4-Methylbiphenyl	53.808	7336	1089	50.3	31.9
168	DBF	Dibenzofuran	55.237	13423	1883	92.0	55.2
170	BB_EMN	Ethyl-methyl-Naphthalene	54.976	54072	6895	370.6	202.0
170	AB_EMN	Ethyl-methyl-Naphthalene	56.178	27775	4159	190.3	121.8
170	137TMN	1,3,7-Trimethylnaphthalene	56.631	61246	9850	419.7	288.6
170	136TMN	1,3,6-Trimethylnaphthalene	57.014	87238	13321	597.9	390.3
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.077	91927	13650	630.0	399.9
170	236TMN	2,3,6-Trimethylnaphthalene	58.356	59254	9811	406.1	287.4
170	127TMN	1,2,7-Trimethylnaphthalene	59.088	24418	4255	167.3	124.7
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.279	82362	11645	564.4	341.2
170	124TMN	1,2,4-Trimethylnaphthalene	60.181	15834	2802	108.5	82.1
170	125TMN	1,2,5-Trimethylnaphthalene	60.634	50734	8962	347.7	262.6
176	C3BT11	C3 Benzo thioC3BT11e	53.355	10009	1105	68.6	32.4
176	C3BT12	C3 Benzo thioC3BT12e	53.983	5343	847	36.6	24.8
176	C3BT13	C3 Benzo thioC3BT13e	54.836	18858	2692	129.2	78.9
176	C3BT1415	C3 Benzo thioC3BT1415e	55.011	14731	2000	101.0	58.6
176	C3BT16	C3 Benzo thioC3BT16e	55.882	5561	1393	38.1	40.8
176	C3BT17	C3 Benzo thioC3BT17e	55.986	51591	7821	353.6	229.1
176	C3BT18	C3 Benzo thioC3BT18e	57.223	37451	5101	256.7	149.4
176	C3BT19	C3 Benzo thioC3BT19e	60.669	3858	667	26.4	19.5
178	PHEN	Phenanthrene	70.182	58819	11142	403.1	326.4
180	9MF	9-Methylfluorene	61.436	4231	735	29.0	21.5
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.698	18069	2303	123.8	67.5
180	1MF	1-Methylfluorene	66.976	25182	4705	172.6	137.8
180	4MF	4-Methylfluorene	67.517	6347	1128	43.5	33.0

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1602.00 - M
Sampling Point:	

[illegible]

Company:	ConocoPhillips	Client ID:	CA003321
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1602.00 - M	Lab ID:	CP312616
Sampling Point:		File Name:	M1140412.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.39	0.43
TAS #1 20/20+27	0.67	0.70
TAS #2 21/21+28	0.53	0.57
%26TAS	13.0	12.3
%27TAS	42.9	42.9
%28TAS	44.1	44.8
%29TAS	0.0	0.0
C28/C26 20S TAS	3.75	3.58
C28/C27 20R TAS	1.03	1.04
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	0.99	1.05
%27 MAS	39.3	43.6
%28 MAS	35.5	33.3
%29 MAS	25.2	23.1
(C21+C22)/S MAS	0.43	0.44
TAS/(MAS+TAS)	0.34	0.29
TA28/(TA28+MA29)	0.48	0.43
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.21	0.24
C4/C3+C4 Mester	0.29	0.32
Phenanthrenes and Naphthalenes		
MPI-1	0.70	0.73
MPI-2	0.77	0.78
Rc(a) if Ro < 1.3 (Ro%)	0.79	0.81
Rc(b) if Ro > 1.3 (Ro%)	1.88	1.86
DNR-1	3.19	3.14
DNR-2	2.12	2.07
TNR1	0.64	0.72
TDE-1	3.20	3.20
TDE-2	0.30	0.37
MDR	1.73	1.76
Rm (Ro%)	0.69	0.70
MDR23	0.80	0.81
MDR1	0.59	0.62
DBT/Phenanthrene	1.35	1.29
TPHEN	12.27	12.23
C3BTI	4.90	4.14
RC_S	1.02	0.90

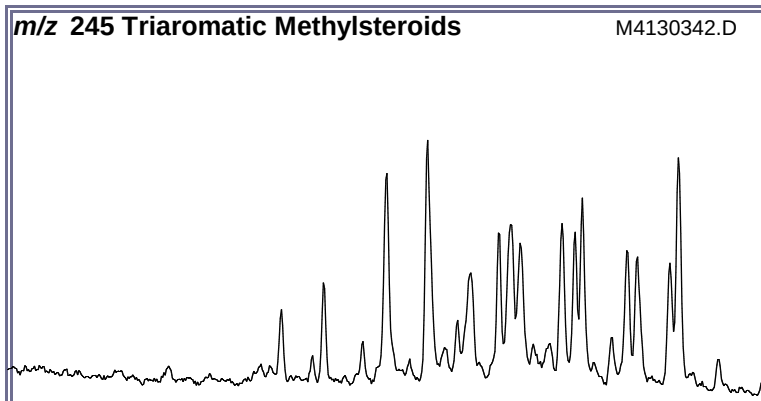
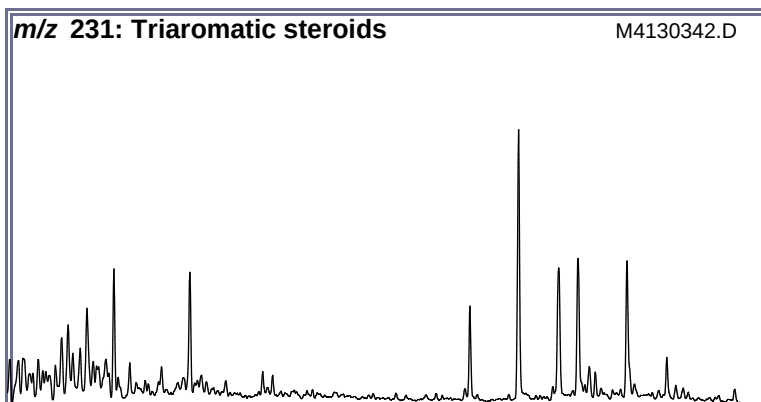
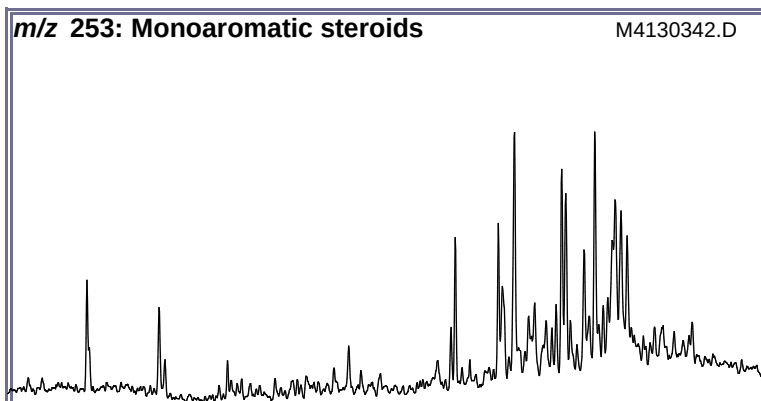
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003359
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313640
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1716.10 M
Longitude:	-127.0085	Bottom Depth:	1716.10 M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas)¹	App²	TEV³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.21 M	1.0 (1.3%)
TAS #1 20/20+27	0.41 M	
TAS #2 21/21+28	0.43 M	
%26 TAS	18.3 D	
%27 TAS	36.6 D	
%28 TAS	35.7 D	
%29 TAS	9.4 D	
C28/C26 20S TAS	2.01	
C28/C27 20R TAS	0.97	
Dia/Regular C27 MAS	2.44	
%27 MAS	28.5 D	
%28 MAS	41.0 D	
%29 MAS	30.5 D	
(C21+C22)/S MAS	0.10 M	1.0 (1.3%)
TAS/(MAS+TAS)	0.58 M	
TA28/(TA28+MA29)	0.60 M	1.0 (0.8%)
Triaromatic Methylsteroids		
Dinosteroid Index	0.33 A	
C4/C3+C4 Mester	0.49 A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.12 M	
Rc(a) if Ro < 1.3 (Ro%)	1.04 M	
Rc(b) if Ro > 1.3 (Ro%)	1.63 M	
MPI-2	1.29 M	
DNR-1	10.51 M	
DNR-2	4.14 M	
TNR1	0.97 M	
TDE-1	2.96 M	
TDE-2	0.16 M	
MDR	5.85 M	
Rm (Ro%)	1.14 M	
MDR23	1.30 M	
MDR1	0.43 M	
DBT/Phenanthrene	0.27 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003359
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1716.10 - 1716.10 M	Lab ID:	CP313640
Sampling Point:		File Name:	M4130342.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	75.184	59231	14568	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	38.163	588151	101902	2978.9	2098.5
142	1MN	1-Methylnaphthalene	39.382	263377	45115	1334.0	929.1
156	2EN	2-Ethylnaphthalene	46.334	39153	6137	198.3	126.4
156	1EN	1-Ethylnaphthalene	46.422	6711	2022	34.0	41.6
156	26DMN	2,6-Dimethylnaphthalene	47.258	435410	69186	2205.3	1424.8
156	27DMN	2,7-Dimethylnaphthalene	47.415	443437	76530	2246.0	1576.0
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.408	680607	93580	3447.2	1927.1
156	16DMN	1,6-Dimethylnaphthalene	48.652	538626	92192	2728.1	1898.5
156	23DMN	2,3-Dimethylnaphthalene	49.837	46810	10196	237.1	210.0
156	14DMN	1,4-Dimethylnaphthalene	49.924	165540	23625	838.4	486.5
156	15DMN	1,5-Dimethylnaphthalene	50.028	83616	16673	423.5	343.3
156	12DMN	1,2-Dimethylnaphthalene	50.987	38311	6252	194.0	128.7
162	C2BTA	C2 Benzo thiophene	45.829	474	60	2.4	1.2
162	C2BTB	C2 Benzo thiophene					
162	C2BTC	C2 Benzo thiophene	46.979	539	62	2.7	1.3
162	C2BTD	C2 Benzo thiophene	48.164	349	43	1.8	0.9
162	C2BTE	C2 Benzo thiophene	48.722	1466	222	7.4	4.6
168	3MBP	3-Methylbiphenyl	53.513	566053	93994	2867.0	1935.6
168	4MBP	4-Methylbiphenyl	54.175	290108	47762	1469.4	983.6
168	DBF	Dibenzofuran	55.587	10582	1607	53.6	33.1
170	BB_EMN	Ethyl-methyl-Naphthalene	55.343	120997	16199	612.8	333.6
170	AB_EMN	Ethyl-methyl-Naphthalene	56.545	44226	7166	224.0	147.6
170	137TMN	1,3,7-Trimethylnaphthalene	56.998	377030	61905	1909.6	1274.8
170	136TMN	1,3,6-Trimethylnaphthalene	57.364	572275	94234	2898.5	1940.6
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.427	371626	56503	1882.3	1163.6
170	236TMN	2,3,6-Trimethylnaphthalene	58.688	358841	61835	1817.5	1273.4
170	127TMN	1,2,7-Trimethylnaphthalene	59.437	46740	8130	236.7	167.4
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.594	290682	46217	1472.3	951.8
170	124TMN	1,2,4-Trimethylnaphthalene	60.513	21991	4011	111.4	82.6
170	125TMN	1,2,5-Trimethylnaphthalene	60.948	65089	11527	329.7	237.4
176	C3BT11	C3 Benzo thioC3BT11e	53.687	850	78	4.3	1.6
176	C3BT12	C3 Benzo thioC3BT12e	54.367	248	39	1.3	0.8
176	C3BT13	C3 Benzo thioC3BT13e					
176	C3BT1415	C3 Benzo thioC3BT1415e	55.395	1045	144	5.3	3.0
176	C3BT16	C3 Benzo thioC3BT16e	56.249	384	104	1.9	2.1
176	C3BT17	C3 Benzo thioC3BT17e	56.353	5710	868	28.9	17.9
176	C3BT18	C3 Benzo thioC3BT18e	57.590	4642	676	23.5	13.9
176	C3BT19	C3 Benzo thioC3BT19e	61.018	2438	417	12.3	8.6
178	PHEN	Phenanthrene	70.444	510720	106348	2586.8	2190.0
180	9MF	9-Methylfluorene	61.854	2808	833	14.2	17.2
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.977	175883	23495	890.8	483.8
180	1MF	1-Methylfluorene	67.256	248050	51362	1256.4	1057.7
180	4MF	4-Methylfluorene	67.779	29801	5840	150.9	120.3

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1716.10 - 1716.10 M
Sampling Point:	

[illegible]

Company:	ConocoPhillips	Client ID:	CA003359
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1716.10 - 1716.10 M	Lab ID:	CP313640
Sampling Point:		File Name:	M4130342.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.21	0.24
TAS #1 20/20+27	0.41	0.48
TAS #2 21/21+28	0.43	0.47
%26TAS	18.3	22.8
%27TAS	36.6	33.7
%28TAS	35.7	33.3
%29TAS	9.4	10.2
C28/C26 20S TAS	2.01	1.38
C28/C27 20R TAS	0.97	0.99
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	2.44	2.51
%27 MAS	28.5	31.4
%28 MAS	41.0	40.4
%29 MAS	30.5	28.2
(C21+C22)/S MAS	0.10	0.11
TAS/(MAS+TAS)	0.58	0.59
TA28/(TA28+MA29)	0.60	0.59
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.33	0.37
C4/C3+C4 Mester	0.49	0.53
Phenanthrenes and Naphthalenes		
MPI-1	1.12	1.15
MPI-2	1.29	1.32
Rc(a) if Ro < 1.3 (Ro%)	1.04	1.06
Rc(b) if Ro > 1.3 (Ro%)	1.63	1.61
DNR-1	10.51	8.74
DNR-2	4.14	4.31
TNR1	0.97	1.09
TDE-1	2.96	2.87
TDE-2	0.16	0.18
MDR	5.85	5.98
Rm (Ro%)	1.14	1.18
MDR23	1.30	1.39
MDR1	0.43	0.45
DBT/Phenanthrene	0.27	0.25
TPHEN	16.70	16.48
C3BTI	2.26	2.12
RC_S	0.60	0.58

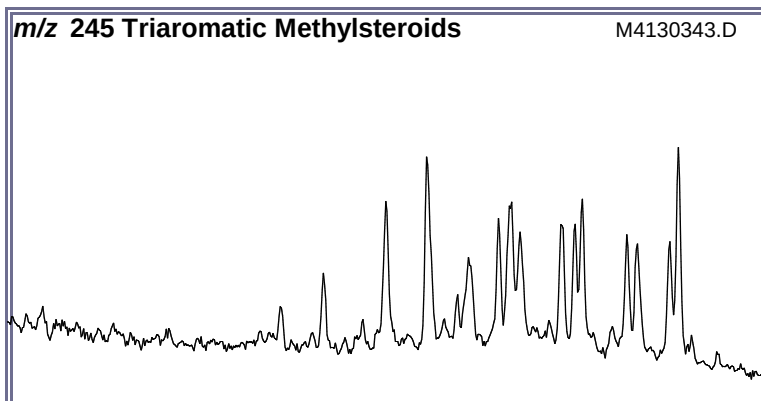
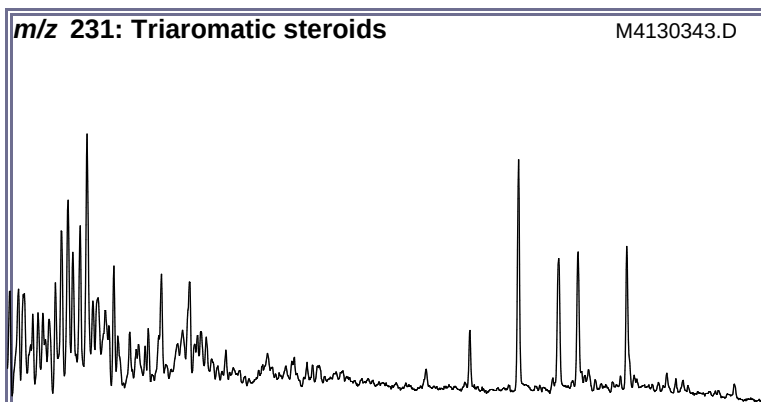
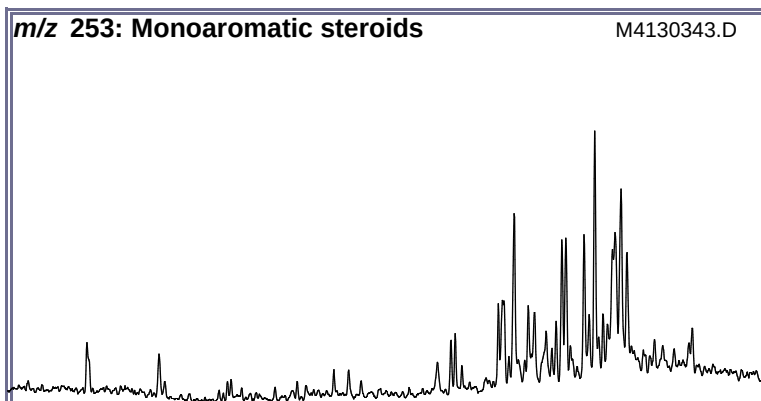
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003360
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313641
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1740.60 M
Longitude:	-127.0085	Bottom Depth:	1740.60 M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas) ¹	App ²	TEV ³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.25 M	1.0 (1.3%)
TAS #1 20/20+27	0.42 M	
TAS #2 21/21+28	0.47 M	
%26 TAS	13.3 D	
%27 TAS	40.4 D	
%28 TAS	41.3 D	
%29 TAS	5.1 D	
C28/C26 20S TAS	3.24	
C28/C27 20R TAS	1.02	
Dia/Regular C27 MAS	1.06	
%27 MAS	21.9 D	
%28 MAS	42.9 D	
%29 MAS	35.2 D	
(C21+C22)/S MAS	0.08 M	1.0 (1.3%)
TAS/(MAS+TAS)	0.39 M	
TA28/(TA28+MA29)	0.38 M	1.0 (0.8%)

Triaromatic Methylsteroids		
Dinosteroid Index	0.34 A	
C4/C3+C4 Mester	0.51 A	

Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.54 M	
Rc(a) if Ro < 1.3 (Ro%)	1.29 M	
Rc(b) if Ro > 1.3 (Ro%)	1.38 M	
MPI-2	1.78 M	
DNR-1	16.83 M	
DNR-2	4.62 M	
TNR1	1.15 M	
TDE-1	2.68 M	
TDE-2	0.14 M	
MDR	14.15 M	
Rm (Ro%)	17.00 M	
MDR23	2.02 M	
MDR1	0.38 M	
DBT/Phenanthrene	0.08 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003360
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1740.60 - 1740.60 M	Lab ID:	CP313641
Sampling Point:		File Name:	M4130343.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	75.184	56825	14168	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	38.162	752542	130750	3972.9	2768.6
142	1MN	1-Methylnaphthalene	39.382	322781	54466	1704.1	1153.3
156	2EN	2-Ethylnaphthalene	46.334	56560	8953	298.6	189.6
156	1EN	1-Ethylnaphthalene	46.421	7270	2396	38.4	50.7
156	26DMN	2,6-Dimethylnaphthalene	47.257	595847	95817	3145.7	2028.9
156	27DMN	2,7-Dimethylnaphthalene	47.414	606405	103753	3201.4	2196.9
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.407	822147	112143	4340.4	2374.6
156	16DMN	1,6-Dimethylnaphthalene	48.651	625922	105135	3304.5	2226.2
156	23DMN	2,3-Dimethylnaphthalene	49.836	48849	10958	257.9	232.0
156	14DMN	1,4-Dimethylnaphthalene	49.923	211601	28286	1117.1	598.9
156	15DMN	1,5-Dimethylnaphthalene	50.028	71450	17414	377.2	368.7
156	12DMN	1,2-Dimethylnaphthalene	50.986	37715	6234	199.1	132.0
162	C2BTA	C2 Benzo thiophene	45.864	692	90	3.7	1.9
162	C2BTB	C2 Benzo thiophene					
162	C2BTC	C2 Benzo thiophene	46.979	604	84	3.2	1.8
162	C2BTD	C2 Benzo thiophene	48.251	511	74	2.7	1.6
162	C2BTE	C2 Benzo thiophene	48.721	908	151	4.8	3.2
168	3MBP	3-Methylbiphenyl	53.530	811073	131422	4282.0	2782.8
168	4MBP	4-Methylbiphenyl	54.175	344315	56363	1817.8	1193.5
168	DBF	Dibenzofuran	55.586	2490	346	13.1	7.3
170	BB_EMN	Ethyl-methyl-Naphthalene	55.342	157829	21273	833.2	450.4
170	AB_EMN	Ethyl-methyl-Naphthalene	56.544	48635	7995	256.8	169.3
170	137TMN	1,3,7-Trimethylnaphthalene	56.998	440851	72134	2327.4	1527.4
170	136TMN	1,3,6-Trimethylnaphthalene	57.363	641583	105829	3387.2	2240.9
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.426	358262	54843	1891.4	1161.3
170	236TMN	2,3,6-Trimethylnaphthalene	58.688	412514	71083	2177.8	1505.1
170	127TMN	1,2,7-Trimethylnaphthalene	59.419	40355	7170	213.0	151.8
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.594	280639	45464	1481.6	962.7
170	124TMN	1,2,4-Trimethylnaphthalene	60.513	17139	3115	90.5	66.0
170	125TMN	1,2,5-Trimethylnaphthalene	60.948	45948	8336	242.6	176.5
176	C3BT11	C3 Benzo thioC3BT11e	53.704	514	70	2.7	1.5
176	C3BT12	C3 Benzo thioC3BT12e					
176	C3BT13	C3 Benzo thioC3BT13e					
176	C3BT1415	C3 Benzo thioC3BT1415e	55.377	1169	139	6.2	2.9
176	C3BT16	C3 Benzo thioC3BT16e	56.248	1166	213	6.2	4.5
176	C3BT17	C3 Benzo thioC3BT17e	56.353	3625	565	19.1	12.0
176	C3BT18	C3 Benzo thioC3BT18e	57.590	3073	477	16.2	10.1
176	C3BT19	C3 Benzo thioC3BT19e	61.035	4479	713	23.6	15.1
178	PHEN	Phenanthrene	70.427	485613	99803	2563.7	2113.3
180	9MF	9-Methylfluorene	61.872	6413	1217	33.9	25.8
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.960	237277	33627	1252.7	712.0
180	1MF	1-Methylfluorene	67.256	253923	52652	1340.6	1114.9
180	4MF	4-Methylfluorene	67.778	29289	5713	154.6	121.0

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1740.60 - 1740.60 M
Sampling Point:	

[illegible]

Company:	ConocoPhillips	Client ID:	CA003360
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1740.60 - 1740.60 M	Lab ID:	CP313641
Sampling Point:		File Name:	M4130343.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.25	0.23
TAS #1 20/20+27	0.42	0.47
TAS #2 21/21+28	0.47	0.40
%26TAS	13.3	16.1
%27TAS	40.4	38.4
%28TAS	41.3	40.3
%29TAS	5.1	5.2
C28/C26 20S TAS	3.24	2.29
C28/C27 20R TAS	1.02	1.05
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.06	1.13
%27 MAS	21.9	25.9
%28 MAS	42.9	42.1
%29 MAS	35.2	32.0
(C21+C22)/S MAS	0.08	0.07
TAS/(MAS+TAS)	0.39	0.39
TA28/(TA28+MA29)	0.38	0.39
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.34	0.38
C4/C3+C4 Mester	0.51	0.53
Phenanthrenes and Naphthalenes		
MPI-1	1.54	1.61
MPI-2	1.78	1.90
Rc(a) if Ro < 1.3 (Ro%)	1.29	1.33
Rc(b) if Ro > 1.3 (Ro%)	1.38	1.34
DNR-1	16.83	11.46
DNR-2	4.62	5.09
TNR1	1.15	1.30
TDE-1	2.68	2.68
TDE-2	0.14	0.16
MDR	14.15	14.47
Rm (Ro%)	17.00	18.37
MDR23	2.02	2.02
MDR1	0.38	0.40
DBT/Phenanthrene	0.08	0.08
TPHEN	17.99	17.16
C3BTI	0.79	0.87
RC_S	0.37	0.38

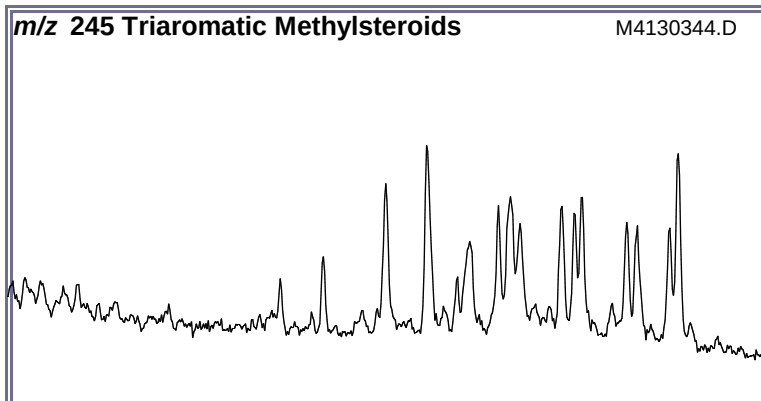
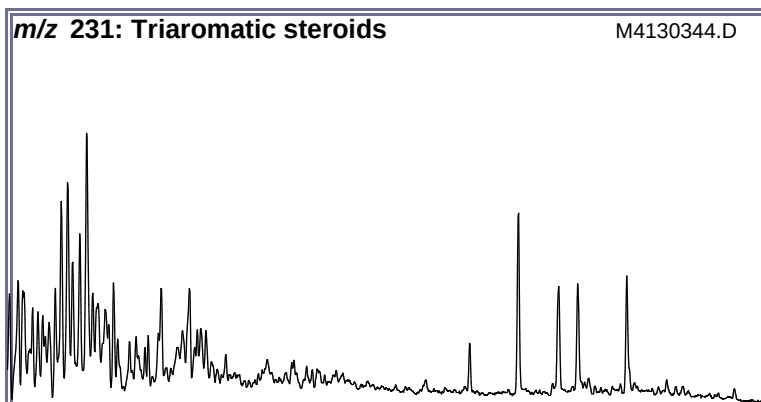
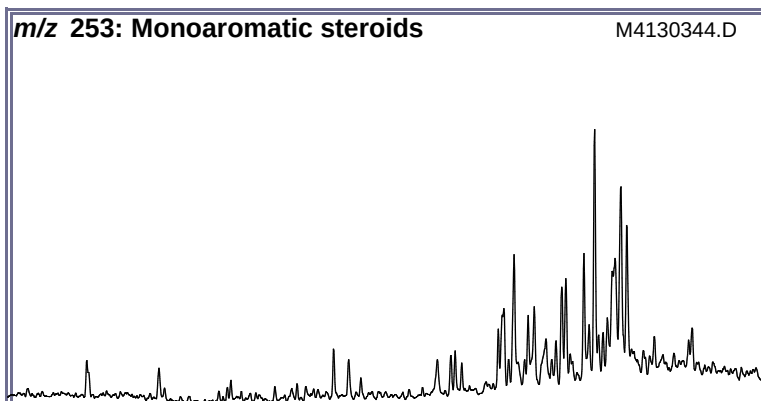
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003361
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313642
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1767.00 M
Longitude:	-127.0085	Bottom Depth:	1767.00 M
Preparation:	MPLC	GCMS Method:	M21A



RATIOS (on Areas) ¹	App ²	TEV ³
Mono- (MAS) and Triaromatic Steroids (TAS)		
(C20+C21)/S TAS	0.28 M	1.0 (1.3%)
TAS #1 20/20+27	0.46 M	
TAS #2 21/21+28	0.53 M	
%26 TAS	14.5 D	
%27 TAS	40.0 D	
%28 TAS	40.3 D	
%29 TAS	5.2 D	
C28/C26 20S TAS	3.02	
C28/C27 20R TAS	1.01	
Dia/Regular C27 MAS	1.02	
%27 MAS	22.3 D	
%28 MAS	41.0 D	
%29 MAS	36.7 D	
(C21+C22)/S MAS	0.06 M	1.0 (1.3%)
TAS/(MAS+TAS)	0.39 M	
TA28/(TA28+MA29)	0.35 M	1.0 (0.8%)

Triaromatic Methylsteroids		
Dinosteroid Index	0.34 A	
C4/C3+C4 Mester	0.52 A	

Phenanthrenes, Naphthalenes, and Dibenzothiophenes		
MPI-1	1.41 M	
Rc(a) if Ro < 1.3 (Ro%)	1.21 M	
Rc(b) if Ro > 1.3 (Ro%)	1.46 M	
MPI-2	1.64 M	
DNR-1	13.67 M	
DNR-2	4.39 M	
TNR1	1.15 M	
TDE-1	2.79 M	
TDE-2	0.14 M	
MDR	22.82 M	
Rm (Ro%)	88.98 M	
MDR23	2.14 M	
MDR1	0.27 M	
DBT/Phenanthrene	0.11 D	

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003361
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1767.00 - 1767.00 M	Lab ID:	CP313642
Sampling Point:		File Name:	M4130344.D

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	<i>Ortho-terphenyl</i> (internal standard)	75.184	75690	18369	300.0	300.0
136	D8NAPH	d8-Naphthalene					
188	D10PHEN	d10-Phenanthrene					
264	D12PERY	d12-Perylene					
142	2MN	2-Methylnaphthalene	38.144	389412	69230	1543.4	1130.7
142	1MN	1-Methylnaphthalene	39.364	182357	31455	722.8	513.7
156	2EN	2-Ethylnaphthalene	46.334	38299	6039	151.8	98.6
156	1EN	1-Ethylnaphthalene	46.421	4666	1634	18.5	26.7
156	26DMN	2,6-Dimethylnaphthalene	47.240	440304	70312	1745.2	1148.3
156	27DMN	2,7-Dimethylnaphthalene	47.396	426109	77880	1688.9	1271.9
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.390	622289	83953	2466.5	1371.1
156	16DMN	1,6-Dimethylnaphthalene	48.651	475767	82233	1885.7	1343.0
156	23DMN	2,3-Dimethylnaphthalene	49.836	43264	8775	171.5	143.3
156	14DMN	1,4-Dimethylnaphthalene	49.923	153984	22608	610.3	369.2
156	15DMN	1,5-Dimethylnaphthalene	50.027	63391	14055	251.3	229.5
156	12DMN	1,2-Dimethylnaphthalene	50.986	29598	4922	117.3	80.4
162	C2BTA	C2 Benzo thiophene	45.811	395	52	1.6	0.8
162	C2BTB	C2 Benzo thiophene					
162	C2BTC	C2 Benzo thiophene	46.978	486	56	1.9	0.9
162	C2BTD	C2 Benzo thiophene	48.198	284	46	1.1	0.8
162	C2BTE	C2 Benzo thiophene	48.703	1191	166	4.7	2.7
168	3MBP	3-Methylbiphenyl	53.512	626050	106592	2481.4	1740.8
168	4MBP	4-Methylbiphenyl	54.157	293394	48367	1162.9	789.9
168	DBF	Dibenzofuran	55.586	2697	421	10.7	6.9
170	BB_EMN	Ethyl-methyl-Naphthalene	55.324	117836	16180	467.0	264.3
170	AB_EMN	Ethyl-methyl-Naphthalene	56.527	37360	6101	148.1	99.6
170	137TMN	1,3,7-Trimethylnaphthalene	56.980	353457	58070	1400.9	948.4
170	136TMN	1,3,6-Trimethylnaphthalene	57.363	513796	88636	2036.4	1447.6
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.408	296285	45722	1174.3	746.7
170	236TMN	2,3,6-Trimethylnaphthalene	58.687	340909	62721	1351.2	1024.4
170	127TMN	1,2,7-Trimethylnaphthalene	59.419	31526	5997	125.0	97.9
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.576	231993	37410	919.5	611.0
170	124TMN	1,2,4-Trimethylnaphthalene	60.495	13450	2487	53.3	40.6
170	125TMN	1,2,5-Trimethylnaphthalene	60.948	37543	6888	148.8	112.5
176	C3BT11	C3 Benzo thioC3BT11e	53.704	606	69	2.4	1.1
176	C3BT12	C3 Benzo thioC3BT12e	54.331	453	61	1.8	1.0
176	C3BT13	C3 Benzo thioC3BT13e					
176	C3BT1415	C3 Benzo thioC3BT1415e	55.394	1095	139	4.3	2.3
176	C3BT16	C3 Benzo thioC3BT16e	56.213	1076	175	4.3	2.9
176	C3BT17	C3 Benzo thioC3BT17e	56.352	3294	521	13.1	8.5
176	C3BT18	C3 Benzo thioC3BT18e	57.572	2747	435	10.9	7.1
176	C3BT19	C3 Benzo thioC3BT19e	61.018	2827	476	11.2	7.8
178	PHEN	Phenanthrene	70.427	458911	98076	1818.9	1601.8
180	9MF	9-Methylfluorene	61.854	4283	925	17.0	15.1
180	3MF	3-Methylfluorene					
180	2MF	2-Methylfluorene	66.959	176884	24471	701.1	399.7
180	1MF	1-Methylfluorene	67.256	230092	48822	912.0	797.4
180	4MF	4-Methylfluorene	67.778	24128	4966	95.6	81.1

Company:	ConocoPhillips
Well Name:	COPRC LOON CREEK O-06
Depth:	1767.00 - 1767.00 M
Sampling Point:	

[illegible]

Company:	ConocoPhillips	Client ID:	CA003361
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1767.00 - 1767.00 M	Lab ID:	CP313642
Sampling Point:		File Name:	M4130344.D

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/S TAS	0.28	0.26
TAS #1 20/20+27	0.46	0.50
TAS #2 21/21+28	0.53	0.44
%26TAS	14.5	17.0
%27TAS	40.0	37.1
%28TAS	40.3	40.8
%29TAS	5.2	5.1
C28/C26 20S TAS	3.02	2.17
C28/C27 20R TAS	1.01	1.10
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.02	1.11
%27 MAS	22.3	26.4
%28 MAS	41.0	41.8
%29 MAS	36.7	31.8
(C21+C22)/S MAS	0.06	0.07
TAS/(MAS+TAS)	0.39	0.40
TA28/(TA28+MA29)	0.35	0.39
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.34	0.37
C4/C3+C4 Mester	0.52	0.53
Phenanthrenes and Naphthalenes		
MPI-1	1.41	1.45
MPI-2	1.64	1.73
Rc(a) if Ro < 1.3 (Ro%)	1.21	1.24
Rc(b) if Ro > 1.3 (Ro%)	1.46	1.43
DNR-1	13.67	10.54
DNR-2	4.39	4.72
TNR1	1.15	1.37
TDE-1	2.79	2.77
TDE-2	0.14	0.16
MDR	22.82	24.89
Rm (Ro%)	88.98	119.29
MDR23	2.14	2.19
MDR1	0.27	0.28
DBT/Phenanthrene	0.11	0.10
TPHEN	17.06	16.30
C3BTI	0.93	1.03
RC_S	0.39	0.41

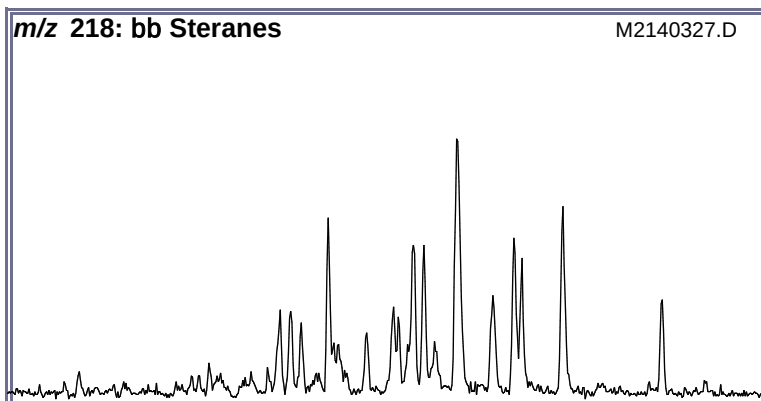
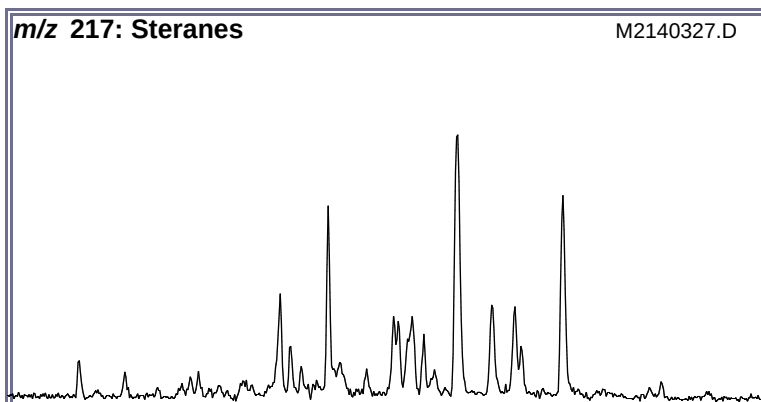
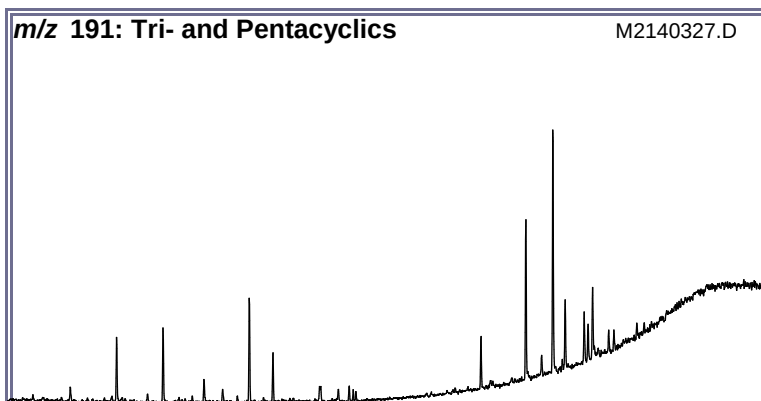
Parameter	Formula
Mono- (MAS) and Triaromatic Steroids (TAS)	
(C20+C21)/S TAS	$(231A20+231B21)/(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)$
TAS #1 20/20+27	$(231A20)/(231A20+231F27)$
TAS #2 21/21+28	$(231B21)/(231B21+231G28)$
%26 TAS	$100*(231C26)/(231C26+231F27+231G28+231H29)$
%27 TAS	$100*(231F27)/(231C26+231F27+231G28+231H29)$
%28 TAS	$100*(231G28)/(231C26+231F27+231G28+231H29)$
%29 TAS	$100*(231H29)/(231C26+231F27+231G28+231H29)$
C28/C26 20S TAS	$(231E28)/(231C26)$
C28/C27 20R TAS	$(231G28)/(231F27)$
Dia/Regular C27 MAS	$(S253D)/(S253C)$
%27 MAS	$100*(S253C+S253D+S253E+S253F+S253H)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%28 MAS	$100*(S253G+S253I+S253J+S253M)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
%29 MAS	$100*(S253K+S253L+S253N+S253O)/(S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
(C21+C22)/S MAS	$(S253A+S253B)/(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O)$
TAS/(MAS+TAS)	$(231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)/((231A20+231B21+231C26+231D26+231E28+231F27+231G28+231H29)+(S253A+S253B+S253C+S253D+S253E+S253F+S253G+S253H+S253I+S253J+S253K+S253L+S253M+S253N+S253O))$
TA28/(TA28+MA29)	$(231E28+231G28)/(231E28+231G28+S253K+S253L+S253N+S253O)$
Triaromatic Methylsteroids	
Dinosteroid Index	$(DA+DB+DC+DD+DE+DF)/(C3S+C4S+E2S+E3SC3R+E4SC4R+S2S+DA+S3S+DB+S4SE2R+E3R+E4R+DC+DD+S2R+S3R+DE+S4R+DF)$
C4/C3+C4 Mester	$(C4S+E4R+S4R)/(C3S+C4S+E3R+E4R+S3R+S4R)$
Phenanthrenes, Naphthalenes, and Dibenzothiophenes	
MPI-1	$(1.5*(3MP+2MP))/(PHEN+9MP+1MP)$
Rc(a) if Ro < 1.3 (Ro%)	$((.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+.37)$
Rc(b) if Ro > 1.3 (Ro%)	$((-.6)*(1.5*(2MP+3MP))/(PHEN+9MP+1MP))+2.3)$
MPI-2	$(3*(2MP))/(PHEN+9MP+1MP)$
DNR-1	$(26DMN+27DMN)/(15DMN)$
DNR-2	$(26DMN+27DMN)/(14DMN+23DMN)$
TNR1	$(236TMN)/(146135T)$
TDE-1	$(125TMN)/(124TMN)$
TDE-2	$(127TMN)/(167126T)$
MDR	$(4MDBT)/(1MDBT)$
Rm (Ro%)	$(0.40+0.30*(4MDBT/1MDBT)-0.094*(4MDBT/1MDBT)*(4MDBT/1MDBT)+0.011*(4MDBT/1MDBT)*(4MDBT/1MDBT)*(4MDBT/1MDBT))$
MDR23	$(23MDBT)/(DBT)$
MDR1	$(1MDBT)/(DBT)$
DBT/Phenanthrene	$(DBT)/(PHEN)$
TPHEN	$100*(PHEN)/(3MP+2MP+9MP+1MP+PHEN+DBT+4MDBT+23MDBT+1MDBT)$
C3BTI	$RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19)$ * RF=.67 for ratio using area and RF=.77 for ratio using height
RC_S	$0.16*(RF*(C3BT13+C3BT17+C3BT18)/(C3BT12+C3BT16+C3BT19))+0.24$ * RF=.67 for ratio using area and RF=.77 for ratio using height



1	2	3	4	5
INFO	Name	Range Start	Range End	Add Next sample into next
PAGE	SUMMARY	A1	BE347	WORKBOOK
FILE				GCMS_ARO_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003321
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP312616
Lease:	MACKENZIE PLAIN	Sample Type:	MUD
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	
Latitude:	65.09764	Top Depth:	1602.00 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas) ¹	Appl ²	TEV ³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	20.9 D	
%C ₂₈ abbS (218)	43.1 D	
%C ₂₉ abbS (218)	36.0 D	
%C ₂₇ aaaR (217)	21.6 D	
%C ₂₈ aaaR (217)	47.5 D	
%C ₂₉ aaaR (217)	30.9 D	
S/(S+R) (C ₂₉ aaa) (217)	0.33 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.17 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.18	
C ₂₇ /C ₂₉ (abbS) (218)	0.58 D	
C ₂₈ /C ₂₉ (abbS) (218)	1.20 D	
Diaster/aaa Ster (C ₂₇) (217)	0.22 M/D	1.00 (1.4%)
C30 Sterane Index (218)	3.73 D	

Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	0.32 D	
Norhopane/Hopane	0.63 D	
Bisnorhopane/Hopane		
Diahopane/Hopane	M/D	
Moretane/Hopane	0.31 M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.06 M	
H32 S/(R+S) Homohopanes	0.51 M	0.60 (0.6%)
H35/H34 Homohopanes	D	
C24 Tetracyclic/Hopane	0.07 D	
C24 Tetracyclic/C26 Tricyclics	0.83 D	
C23/C24 Tricyclic terpanes	2.16 D	
C19/C23 Tricyclic terpanes	0.15 D	
C26/C25 Tricyclic terpanes	0.70 D	
(C28+C29 Tricyclics)/Ts	A	

Various (m/z 191; 217)		
Steranes/Hopanes	0.33 D	
Tricyclic terpanes/Hopanes	0.60 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	1.82 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003321
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1602.00 - M	Lab ID:	CP312616
Sampling Point:		File Name:	M2140327.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	20.9	20.6
%C ₂₈ abbS (218)	43.1	41.5
%C ₂₉ abbS (218)	36.0	37.9
C ₂₇ /C ₂₉ (abbS) (218)	0.58	0.54
C ₂₈ /C ₂₉ (abbS) (218)	1.20	1.09
C ₂₉ /C ₂₇ (abbS) (218)	1.72	1.85
%C ₂₇ aaaR (217)	21.6	29.3
%C ₂₈ aaaR (217)	47.5	40.0
%C ₂₉ aaaR (217)	30.9	30.7
S/R (C ₂₉ aaa) (217)	0.49	0.46
S/(S+R) (C ₂₉ aaa) (217)	0.33	0.31
bb/(aa+bb) (C ₂₉) (217)	0.31	0.33
abbS/aaaR (C ₂₉) (217)	0.21	0.25
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.18	0.22
Diaster/aaa Ster (C ₂₇) (217)	0.22	0.20
Terpenoids		
C19/C23 Tricyclic terpanes	0.15	0.14
C23/C24 Tricyclic terpanes	2.16	2.12
C26/C25 Tricyclic terpanes	0.70	0.76
C24 Tetracyclic/C26 Tricyclics	0.83	0.70
C24 Tetracyclic/Hopane	0.07	0.07
Ts/Tm trisnorhopanes		
Ts/(Ts+Tm) trisnorhopanes		
C29Ts/C29 Hopane	0.06	0.05
Bisnorhopane/Hopane		
Norhopane/Hopane	0.63	0.66
Diahopane/Hopane		
Oleanane/Hopane		
Gammacerane/Hopane	0.32	0.30
Moretane/(Moretane+Hopane)	0.23	0.23
H32 S/(S+R) Homohopanes	0.51	0.52
H35/H34 Homohopanes		
[Steranes]/[Hopanes]	0.33	0.25
[Tricyclic terpanes]/[Hopanes]	0.60	0.61
[Tricyclic terpanes]/[Steranes]	1.82	2.49
DIAMONDROID Ratios		
Methyl Adamantane Index	0.69	0.79
Methyl Diamantane Index	0.50	0.53

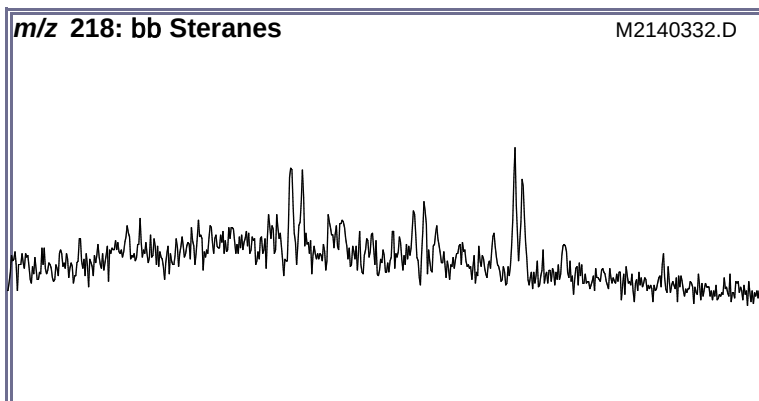
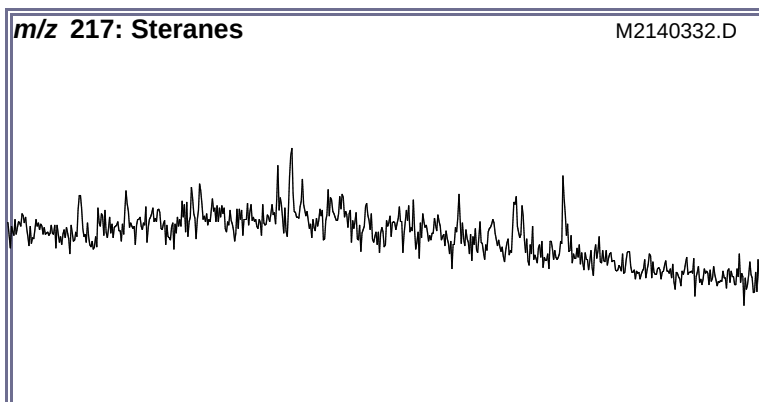
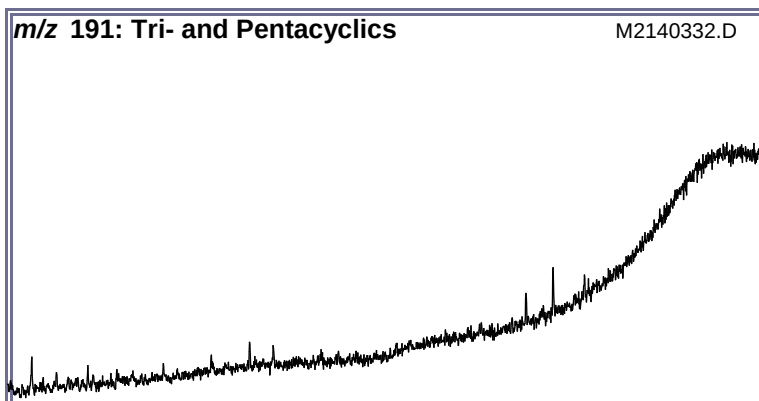
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003727
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315956
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	UPPER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1661.80 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	App²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	38.1 D	
%C ₂₈ abbS (218)	25.3 D	
%C ₂₉ abbS (218)	36.6 D	
%C ₂₇ aaaR (217)	37.8 D	
%C ₂₈ aaaR (217)	27.6 D	
%C ₂₉ aaaR (217)	34.6 D	
S/(S+R) (C ₂₉ aaa) (217)	0.47 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.34 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.14	
C ₂₇ /C ₂₉ (abbS) (218)	1.04 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.69 D	
Diaster/aaa Ster (C ₂₇) (217)	0.44 M/D	1.00 (1.4%)
C30 Sterane Index (218)	D	
Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	D	
Norhopane/Hopane	0.62 D	
Bisnorhopane/Hopane		
Diahopane/Hopane	M/D	
Moretane/Hopane	M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	M	
H32 S/(R+S) Homohopanes	M	0.60 (0.6%)
H35/H34 Homohopanes	D	
C24 Tetracyclic/Hopane	0.00 D	
C24 Tetracyclic/C26 Tricyclics	D	
C23/C24 Tricyclic terpanes	1.52 D	
C19/C23 Tricyclic terpanes	D	
C26/C25 Tricyclic terpanes	D	
(C28+C29 Tricyclics)/Ts	A	
Various (m/z 191; 217)		
Steranes/Hopanes	1.61 D	
Tricyclic terpanes/Hopanes	0.77 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	0.48 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003727
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1661.80 - M	Lab ID:	CP315956
Sampling Point:	OTHER	File Name:	M2140332.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	38.1	37.4
%C ₂₈ abbS (218)	25.3	27.6
%C ₂₉ abbS (218)	36.6	35.0
C ₂₇ /C ₂₉ (abbS) (218)	1.04	1.07
C ₂₈ /C ₂₉ (abbS) (218)	0.69	0.79
C ₂₉ /C ₂₇ (abbS) (218)	0.96	0.93
%C ₂₇ aaaR (217)	37.8	29.2
%C ₂₈ aaaR (217)	27.6	30.6
%C ₂₉ aaaR (217)	34.6	40.3
S/R (C ₂₉ aaa) (217)	0.88	0.53
S/(S+R) (C ₂₉ aaa) (217)	0.47	0.35
bb/(aa+bb) (C ₂₉) (217)	0.43	0.49
abbS/aaaR (C ₂₉) (217)	0.52	0.69
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.14	0.15
Diaster/aaa Ster (C ₂₇) (217)	0.44	0.70
Terpenoids		
C19/C23 Tricyclic terpanes		
C23/C24 Tricyclic terpanes	1.52	1.28
C26/C25 Tricyclic terpanes		
C24 Tetracyclic/C26 Tricyclics		
C24 Tetracyclic/Hopane		
Ts/Tm trisnorhopanes		
Ts/(Ts+Tm) trisnorhopanes		
C29Ts/C29 Hopane		
Bisnorhopane/Hopane		
Norhopane/Hopane	0.62	0.66
Diahopane/Hopane		
Oleanane/Hopane		
Gammacerane/Hopane		
Moretane/(Moretane+Hopane)		
H32 S/(S+R) Homohopanes		
H35/H34 Homohopanes		
[Steranes]/[Hopanes]	1.61	1.39
[Tricyclic terpanes]/[Hopanes]	0.77	0.81
[Tricyclic terpanes]/[Steranes]	0.48	0.58
DIAMONDROID Ratios		
Methyl Adamantane Index	0.54	0.50
Methyl Diamantane Index	0.25	0.30

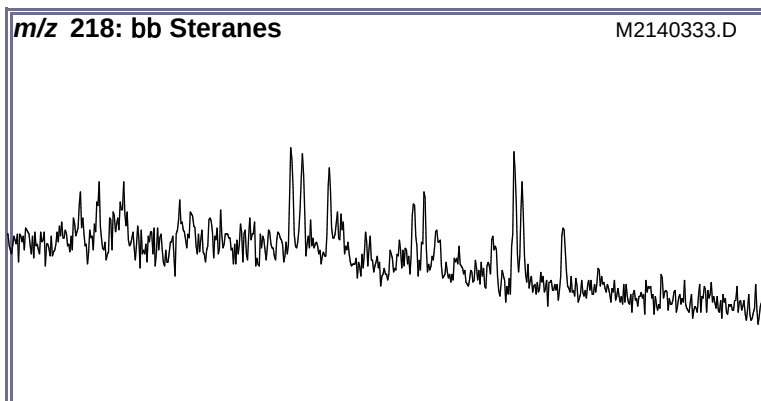
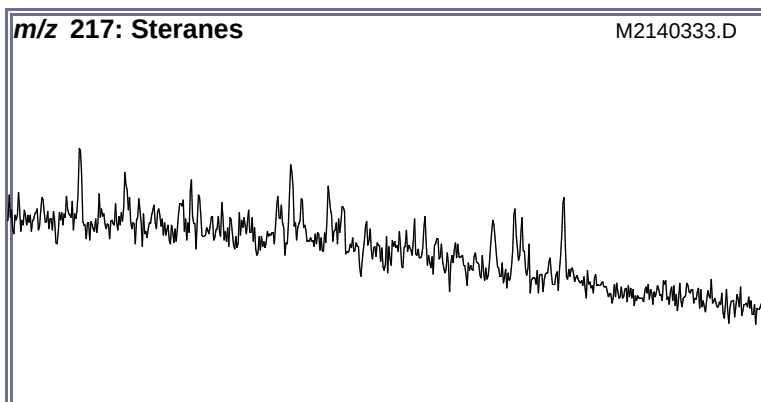
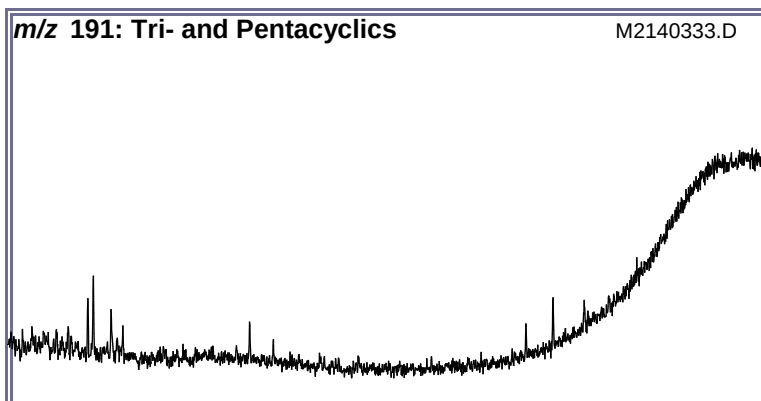
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003728
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315957
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1701.27 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	App²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	42.3 D	
%C ₂₈ abbS (218)	26.6 D	
%C ₂₉ abbS (218)	31.1 D	
%C ₂₇ aaaR (217)	50.3 D	
%C ₂₈ aaaR (217)	D	
%C ₂₉ aaaR (217)	49.7 D	
S/(S+R) (C ₂₉ aaa) (217)	0.49 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.41 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.38	
C ₂₇ /C ₂₉ (abbS) (218)	1.36 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.86 D	
Diaster/aaa Ster (C ₂₇) (217)	0.90 M/D	1.00 (1.4%)
C30 Sterane Index (218)	D	
Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	D	
Norhopane/Hopane	0.69 D	
Bisnorhopane/Hopane		
Diahopane/Hopane	M/D	
Moretane/Hopane	M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	M	
H32 S/(R+S) Homohopanes	M	0.60 (0.6%)
H35/H34 Homohopanes	D	
C24 Tetracyclic/Hopane	0.00 D	
C24 Tetracyclic/C26 Tricyclics	D	
C23/C24 Tricyclic terpanes	D	
C19/C23 Tricyclic terpanes	D	
C26/C25 Tricyclic terpanes	D	
(C28+C29 Tricyclics)/Ts	A	
Various (m/z 191; 217)		
Steranes/Hopanes	0.79 D	
Tricyclic terpanes/Hopanes	0.00 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	0.00 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003728
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1701.27 - M	Lab ID:	CP315957
Sampling Point:	OTHER	File Name:	M2140333.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	42.3	37.3
%C ₂₈ abbS (218)	26.6	28.0
%C ₂₉ abbS (218)	31.1	34.8
C ₂₇ /C ₂₉ (abbS) (218)	1.36	1.07
C ₂₈ /C ₂₉ (abbS) (218)	0.86	0.80
C ₂₉ /C ₂₇ (abbS) (218)	0.73	0.93
%C ₂₇ aaaR (217)	50.3	45.3
%C ₂₈ aaaR (217)		
%C ₂₉ aaaR (217)	49.7	54.7
S/R (C ₂₉ aaa) (217)	0.96	0.68
S/(S+R) (C ₂₉ aaa) (217)	0.49	0.41
bb/(aa+bb) (C ₂₉) (217)	0.45	0.48
abbS/aaaR (C ₂₉) (217)	0.70	0.74
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.38	0.39
Diaster/aaa Ster (C ₂₇) (217)	0.90	1.13
Terpenoids		
C19/C23 Tricyclic terpanes		
C23/C24 Tricyclic terpanes		
C26/C25 Tricyclic terpanes		
C24 Tetracyclic/C26 Tricyclics		
C24 Tetracyclic/Hopane		
Ts/Tm trisnorhopanes		
Ts/(Ts+Tm) trisnorhopanes		
C29Ts/C29 Hopane		
Bisnorhopane/Hopane		
Norhopane/Hopane	0.69	0.72
Diahopane/Hopane		
Oleanane/Hopane		
Gammacerane/Hopane		
Moretane/(Moretane+Hopane)		
H32 S/(S+R) Homohopanes		
H35/H34 Homohopanes		
[Steranes]/[Hopanes]	0.79	0.75
[Tricyclic terpanes]/[Hopanes]	0.00	0.00
[Tricyclic terpanes]/[Steranes]	0.00	0.00
DIAMONDROID Ratios		
Methyl Adamantane Index	0.23	0.27
Methyl Diamantane Index	0.22	0.25

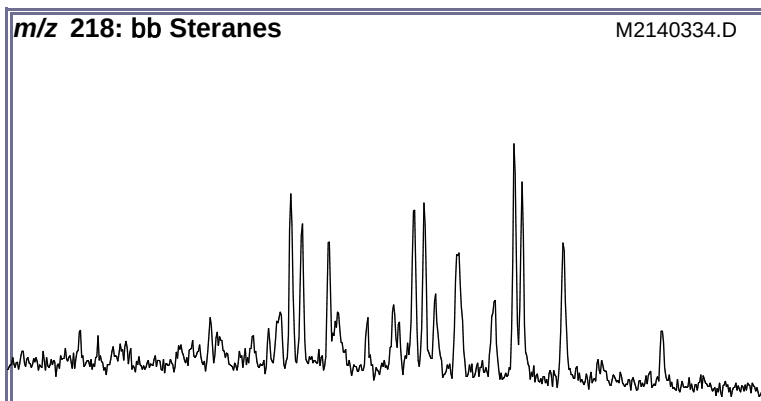
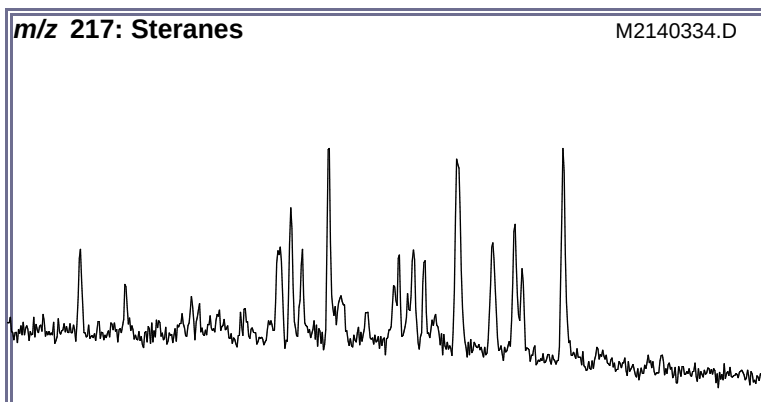
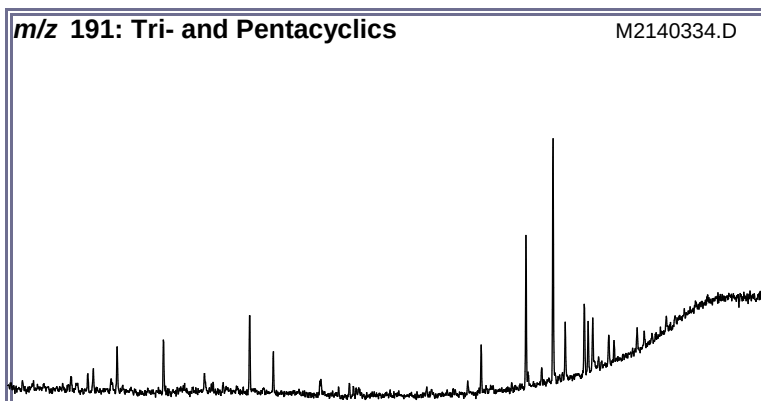
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003729
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315958
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1751.21 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	Appl²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	31.1 D	
%C ₂₈ abbS (218)	34.0 D	
%C ₂₉ abbS (218)	34.8 D	
%C ₂₇ aaaR (217)	27.9 D	
%C ₂₈ aaaR (217)	41.2 D	
%C ₂₉ aaaR (217)	31.0 D	
S/(S+R) (C ₂₉ aaa) (217)	0.43 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.26 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.13	
C ₂₇ /C ₂₉ (abbS) (218)	0.89 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.98 D	
Diaster/aaa Ster (C ₂₇) (217)	0.45 M/D	1.00 (1.4%)
C30 Sterane Index (218)	3.49 D	

Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	0.23 D	
Norhopane/Hopane	0.62 D	
Bisnorhopane/Hopane		
Diahopane/Hopane	M/D	
Moretane/Hopane	0.27 M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	0.26 M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.13 M	
H32 S/(R+S) Homohopanes	0.66 M	0.60 (0.6%)
H35/H34 Homohopanes	0.00 D	
C24 Tetracyclic/Hopane	0.07 D	
C24 Tetracyclic/C26 Tricyclics	1.19 D	
C23/C24 Tricyclic terpanes	2.23 D	
C19/C23 Tricyclic terpanes	0.27 D	
C26/C25 Tricyclic terpanes	0.52 D	
(C28+C29 Tricyclics)/Ts	0.00 A	

Various (m/z 191; 217)		
Steranes/Hopanes	0.39 D	
Tricyclic terpanes/Hopanes	0.44 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	1.11 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003729
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1751.21 - M	Lab ID:	CP315958
Sampling Point:	OTHER	File Name:	M2140334.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	31.1	28.9
%C ₂₈ abbS (218)	34.0	33.5
%C ₂₉ abbS (218)	34.8	37.7
C ₂₇ /C ₂₉ (abbS) (218)	0.89	0.77
C ₂₈ /C ₂₉ (abbS) (218)	0.98	0.89
C ₂₉ /C ₂₇ (abbS) (218)	1.12	1.30
%C ₂₇ aaaR (217)	27.9	32.8
%C ₂₈ aaaR (217)	41.2	32.4
%C ₂₉ aaaR (217)	31.0	34.8
S/R (C ₂₉ aaa) (217)	0.76	0.57
S/(S+R) (C ₂₉ aaa) (217)	0.43	0.36
bb/(aa+bb) (C ₂₉) (217)	0.38	0.42
abbS/aaaR (C ₂₉) (217)	0.35	0.46
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.13	0.16
Diaster/aaa Ster (C ₂₇) (217)	0.45	0.46
Terpenoids		
C19/C23 Tricyclic terpanes	0.27	0.19
C23/C24 Tricyclic terpanes	2.23	1.88
C26/C25 Tricyclic terpanes	0.52	0.35
C24 Tetracyclic/C26 Tricyclics	1.19	1.41
C24 Tetracyclic/Hopane	0.07	0.06
Ts/Tm trisnorhopanes	0.36	0.29
Ts/(Ts+Tm) trisnorhopanes	0.26	0.23
C29Ts/C29 Hopane	0.13	0.11
Bisnorhopane/Hopane		
Norhopane/Hopane	0.62	0.63
Diahopane/Hopane		
Oleanane/Hopane		
Gammacerane/Hopane	0.23	0.22
Moretane/(Moretane+Hopane)	0.21	0.20
H32 S/(S+R) Homohopanes	0.66	0.59
H35/H34 Homohopanes	0.00	0.00
[Steranes]/[Hopanes]	0.39	0.29
[Tricyclic terpanes]/[Hopanes]	0.44	0.41
[Tricyclic terpanes]/[Steranes]	1.11	1.42
DIAMONDROID Ratios		
Methyl Adamantane Index	0.25	0.27
Methyl Diamantane Index	0.29	0.33

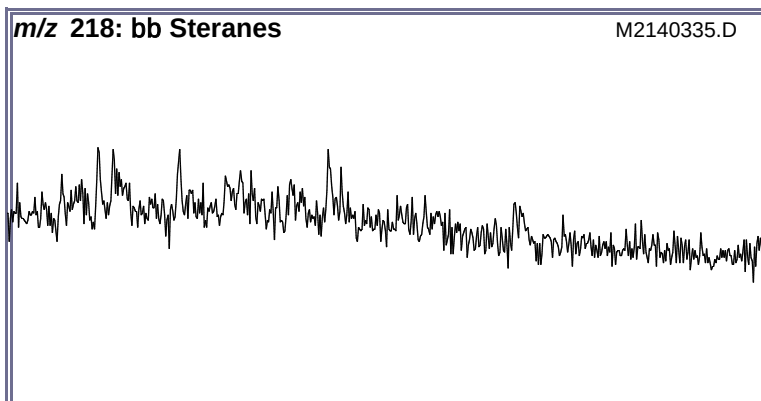
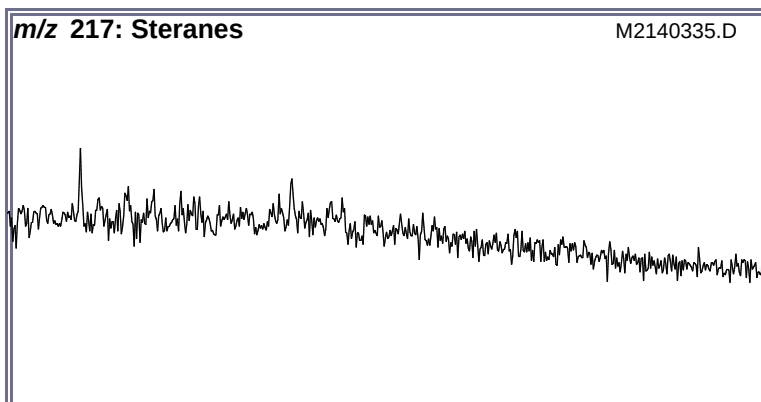
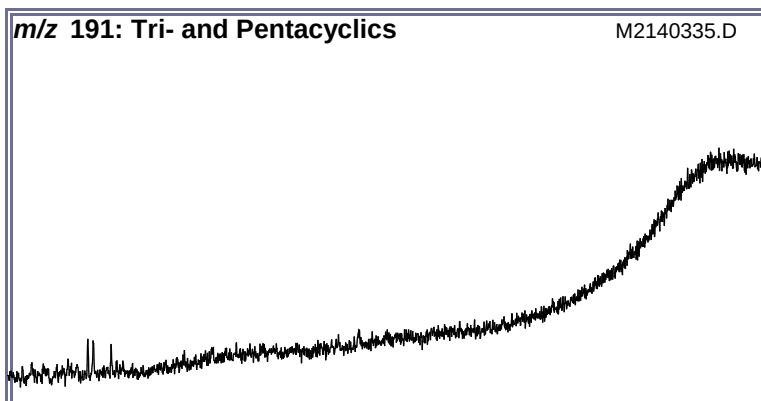
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003730
Country:	CANADA	Project #:	BH-63173
Basin:	WCSB	Lab ID:	CP315959
Lease:	MACKENZIE PLAIN	Sample Type:	Core Chip
Block:	EL-470	Sampling Point:	OTHER
Field:	LOON CREEK O-06	Formation:	LOWER CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1777.20 M
Longitude:	-127.0085	Bottom Depth:	M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	App²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	D	
%C ₂₈ abbS (218)	D	
%C ₂₉ abbS (218)	D	
%C ₂₇ aaaR (217)	D	
%C ₂₈ aaaR (217)	D	
%C ₂₉ aaaR (217)	D	
S/(S+R) (C ₂₉ aaa) (217)	M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)		
C ₂₇ /C ₂₉ (abbS) (218)	D	
C ₂₈ /C ₂₉ (abbS) (218)	D	
Diaster/aaa Ster (C ₂₇) (217)	M/D	1.00 (1.4%)
C30 Sterane Index (218)	D	
Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	D	
Norhopane/Hopane	D	
Bisnorhopane/Hopane		
Diahopane/Hopane	M/D	
Moretane/Hopane	M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	M	
H32 S/(R+S) Homohopanes	M	0.60 (0.6%)
H35/H34 Homohopanes	D	
C24 Tetracyclic/Hopane	D	
C24 Tetracyclic/C26 Tricyclics	D	
C23/C24 Tricyclic terpanes	D	
C19/C23 Tricyclic terpanes	D	
C26/C25 Tricyclic terpanes	D	
(C28+C29 Tricyclics)/Ts	A	
Various (m/z 191; 217)		
Steranes/Hopanes	D	
Tricyclic terpanes/Hopanes	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003730
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63173
Depth:	1777.20 - M	Lab ID:	CP315959
Sampling Point:	OTHER	File Name:	M2140335.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)		
%C ₂₈ abbS (218)		
%C ₂₉ abbS (218)		
C ₂₇ /C ₂₉ (abbS) (218)		
C ₂₈ /C ₂₉ (abbS) (218)		
C ₂₉ /C ₂₇ (abbS) (218)		
%C ₂₇ aaaR (217)		
%C ₂₈ aaaR (217)		
%C ₂₉ aaaR (217)		
S/R (C ₂₉ aaa) (217)		
S/(S+R) (C ₂₉ aaa) (217)		
bb/(aa+bb) (C ₂₉) (217)		
abbS/aaaR (C ₂₉) (217)		
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)		
Diaster/aaa Ster (C ₂₇) (217)		
Terpenoids		
C19/C23 Tricyclic terpanes		
C23/C24 Tricyclic terpanes		
C26/C25 Tricyclic terpanes		
C24 Tetracyclic/C26 Tricyclics		
C24 Tetracyclic/Hopane		
Ts/Tm trisnorhopanes		
Ts/(Ts+Tm) trisnorhopanes		
C29Ts/C29 Hopane		
Bisnorhopane/Hopane		
Norhopane/Hopane		
Diahopane/Hopane		
Oleanane/Hopane		
Gammacerane/Hopane		
Moretane/(Moretane+Hopane)		
H32 S/(S+R) Homohopanes		
H35/H34 Homohopanes		
[Steranes]/[Hopanes]		
[Tricyclic terpanes]/[Hopanes]		
[Tricyclic terpanes]/[Steranes]		
DIAMONDROID Ratios		
Methyl Adamantane Index	0.38	0.40
Methyl Diamantane Index	0.25	0.27

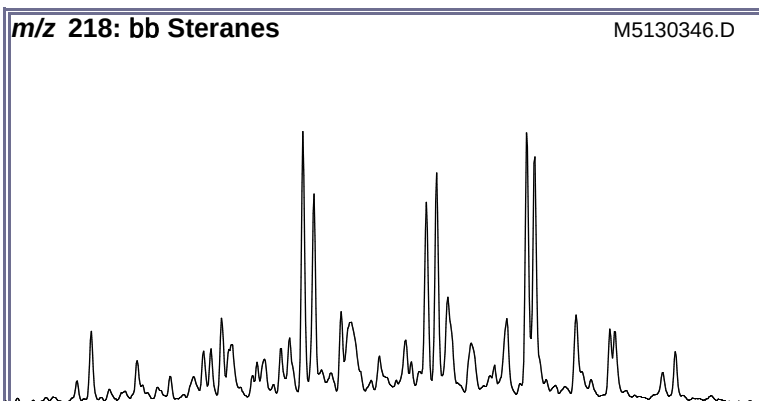
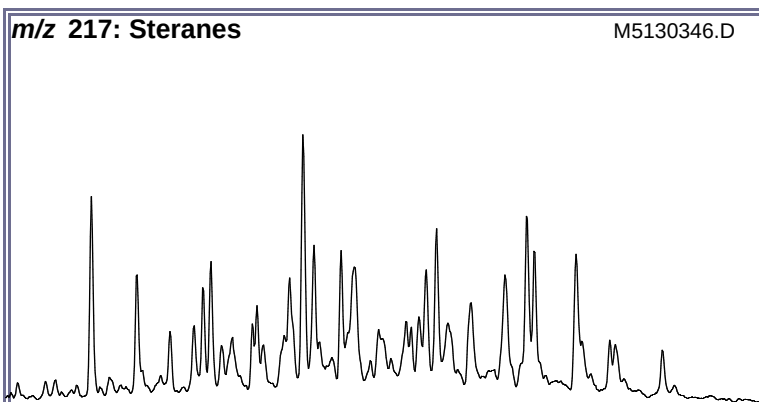
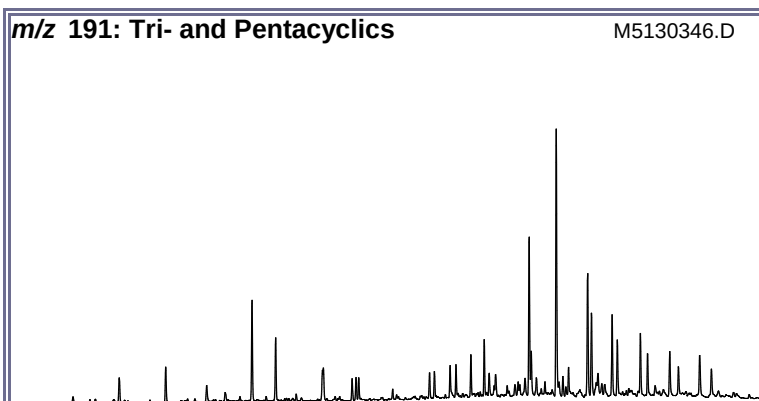
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003359
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313640
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1716.10 M
Longitude:	-127.0085	Bottom Depth:	1716.10 M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	App²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	30.1 D	
%C ₂₈ abbS (218)	33.3 D	
%C ₂₉ abbS (218)	36.6 D	
%C ₂₇ aaaR (217)	30.8 D	
%C ₂₈ aaaR (217)	33.2 D	
%C ₂₉ aaaR (217)	36.0 D	
S/(S+R) (C ₂₉ aaa) (217)	0.53 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.49 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.13	
C ₂₇ /C ₂₉ (abbS) (218)	0.82 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.91 D	
Diaster/aaa Ster (C ₂₇) (217)	1.23 M/D	1.00 (1.4%)
C30 Sterane Index (218)	8.94 D	

Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	0.06 D	
Norhopane/Hopane	0.57 D	
Bisnorhopane/Hopane	0.05	
Diahopane/Hopane	0.07 M/D	
Moretane/Hopane	0.11 M	0.05 (0.7%)
25-nor-hopane/hopane	0.04 B	
Ts/(Ts+Tm) trisnorhopanes	0.44 M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.30 M	
H32 S/(R+S) Homohopanes	0.58 M	0.60 (0.6%)
H35/H34 Homohopanes	1.06 D	
C24 Tetracyclic/Hopane	0.08 D	
C24 Tetracyclic/C26 Tricyclics	0.45 D	
C23/C24 Tricyclic terpanes	1.63 D	
C19/C23 Tricyclic terpanes	0.08 D	
C26/C25 Tricyclic terpanes	0.79 D	
(C28+C29 Tricyclics)/Ts	2.82 A	

Various (m/z 191; 217)		
Steranes/Hopanes	0.26 D	
Tricyclic terpanes/Hopanes	0.44 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	1.71 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003359
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1716.10 - 1716.10 M	Lab ID:	CP313640
Sampling Point:		File Name:	M5130346.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	30.1	30.6
%C ₂₈ abbS (218)	33.3	33.6
%C ₂₉ abbS (218)	36.6	35.9
C ₂₇ /C ₂₉ (abbS) (218)	0.82	0.85
C ₂₈ /C ₂₉ (abbS) (218)	0.91	0.94
C ₂₉ /C ₂₇ (abbS) (218)	1.22	1.17
%C ₂₇ aaaR (217)	30.8	38.4
%C ₂₈ aaaR (217)	33.2	24.5
%C ₂₉ aaaR (217)	36.0	37.1
S/R (C ₂₉ aaa) (217)	1.12	0.86
S/(S+R) (C ₂₉ aaa) (217)	0.53	0.46
bb/(aa+bb) (C ₂₉) (217)	0.51	0.55
abbS/aaaR (C ₂₉) (217)	0.97	1.02
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.13	0.15
Diaster/aaa Ster (C ₂₇) (217)	1.23	1.38
Terpenoids		
C19/C23 Tricyclic terpanes	0.08	0.07
C23/C24 Tricyclic terpanes	1.63	1.60
C26/C25 Tricyclic terpanes	0.79	0.74
C24 Tetracyclic/C26 Tricyclics	0.45	0.48
C24 Tetracyclic/Hopane	0.08	0.08
Ts/Tm trisnorhopanes	0.78	0.75
Ts/(Ts+Tm) trisnorhopanes	0.44	0.43
C29Ts/C29 Hopane	0.30	0.28
Bisnorhopane/Hopane	0.05	0.04
Norhopane/Hopane	0.57	0.59
Diahopane/Hopane	0.07	0.07
Oleanane/Hopane		
Gammacerane/Hopane	0.06	0.05
Moretane/(Moretane+Hopane)	0.10	0.10
H32 S/(S+R) Homohopanes	0.58	0.59
H35/H34 Homohopanes	1.06	0.93
[Steranes]/[Hopanes]	0.26	0.20
[Tricyclic terpanes]/[Hopanes]	0.44	0.44
[Tricyclic terpanes]/[Steranes]	1.71	2.22
DIAMONDROID Ratios		
Methyl Adamantane Index	0.38	0.40
Methyl Diamantane Index	0.31	0.34

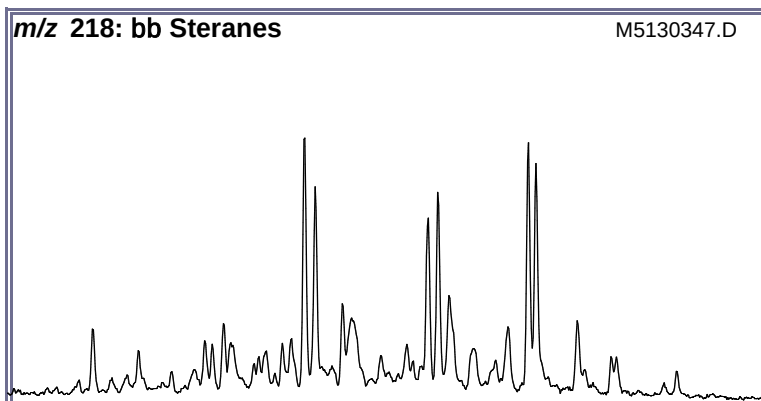
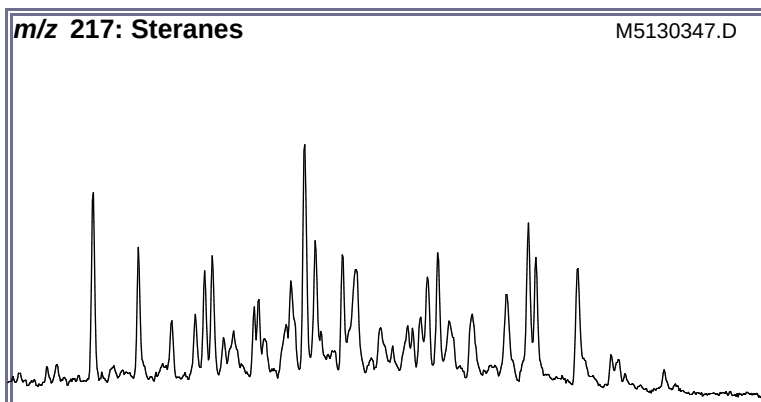
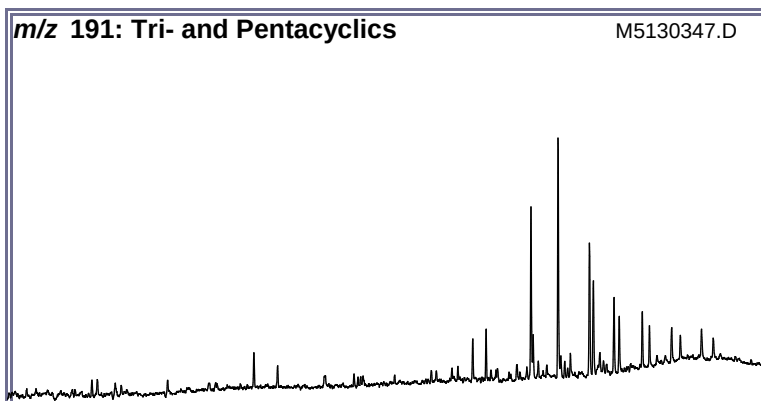
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003360
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313641
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1740.60 M
Longitude:	-127.0085	Bottom Depth:	1740.60 M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	Appl²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	32.3 D	
%C ₂₈ abbS (218)	31.8 D	
%C ₂₉ abbS (218)	35.9 D	
%C ₂₇ aaaR (217)	32.8 D	
%C ₂₈ aaaR (217)	31.7 D	
%C ₂₉ aaaR (217)	35.5 D	
S/(S+R) (C ₂₉ aaa) (217)	0.48 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.48 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.09	
C ₂₇ /C ₂₉ (abbS) (218)	0.90 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.88 D	
Diaster/aaa Ster (C ₂₇) (217)	1.22 M/D	1.00 (1.4%)
C30 Sterane Index (218)	5.52 D	

Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	0.04 D	
Norhopane/Hopane	0.71 D	
Bisnorhopane/Hopane	0.09	
Diahopane/Hopane	0.07 M/D	
Moretane/Hopane	0.11 M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	0.49 M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.26 M	
H32 S/(R+S) Homohopanes	0.57 M	0.60 (0.6%)
H35/H34 Homohopanes	0.95 D	
C24 Tetracyclic/Hopane	0.06 D	
C24 Tetracyclic/C26 Tricyclics	0.73 D	
C23/C24 Tricyclic terpanes	1.55 D	
C19/C23 Tricyclic terpanes	0.22 D	
C26/C25 Tricyclic terpanes	0.78 D	
(C28+C29 Tricyclics)/Ts	1.20 A	

Various (m/z 191; 217)		
Steranes/Hopanes	0.37 D	
Tricyclic terpanes/Hopanes	0.22 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	0.58 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	ConocoPhillips	Client ID:	CA003360
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1740.60 - 1740.60 M	Lab ID:	CP313641
Sampling Point:		File Name:	M5130347.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	32.3	32.4
%C ₂₈ abbS (218)	31.8	31.5
%C ₂₉ abbS (218)	35.9	36.1
C ₂₇ /C ₂₉ (abbS) (218)	0.90	0.90
C ₂₈ /C ₂₉ (abbS) (218)	0.88	0.87
C ₂₉ /C ₂₇ (abbS) (218)	1.11	1.11
%C ₂₇ aaaR (217)	32.8	40.5
%C ₂₈ aaaR (217)	31.7	22.6
%C ₂₉ aaaR (217)	35.5	36.9
S/R (C ₂₉ aaa) (217)	0.92	0.78
S/(S+R) (C ₂₉ aaa) (217)	0.48	0.44
bb/(aa+bb) (C ₂₉) (217)	0.52	0.58
abbS/aaaR (C ₂₉) (217)	0.93	1.09
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.09	0.10
Diaster/aaa Ster (C ₂₇) (217)	1.22	1.46
Terpenoids		
C19/C23 Tricyclic terpanes	0.22	0.20
C23/C24 Tricyclic terpanes	1.55	1.58
C26/C25 Tricyclic terpanes	0.78	0.84
C24 Tetracyclic/C26 Tricyclics	0.73	0.67
C24 Tetracyclic/Hopane	0.06	0.05
Ts/Tm trisnorhopanes	0.98	0.83
Ts/(Ts+Tm) trisnorhopanes	0.49	0.45
C29Ts/C29 Hopane	0.26	0.26
Bisnorhopane/Hopane	0.09	0.07
Norhopane/Hopane	0.71	0.72
Diahopane/Hopane	0.07	0.07
Oleanane/Hopane		
Gammacerane/Hopane	0.04	0.04
Moretane/(Moretane+Hopane)	0.10	0.09
H32 S/(S+R) Homohopanes	0.57	0.57
H35/H34 Homohopanes	0.95	0.85
[Steranes]/[Hopanes]	0.37	0.30
[Tricyclic terpanes]/[Hopanes]	0.22	0.20
[Tricyclic terpanes]/[Steranes]	0.58	0.66
DIAMONDROID Ratios		
Methyl Adamantane Index	0.47	0.48
Methyl Diamantane Index	0.27	0.30

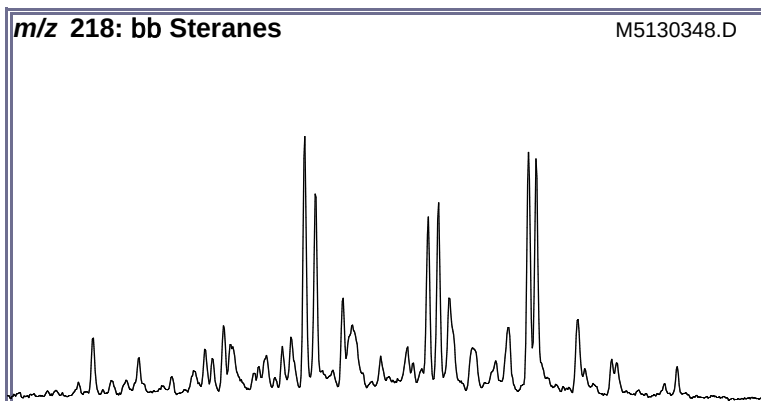
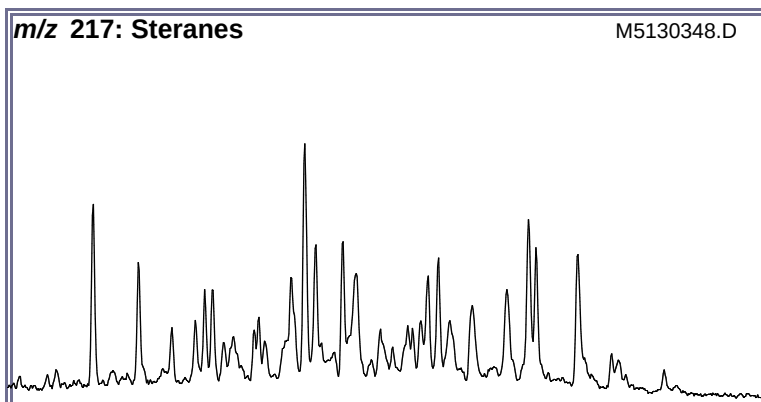
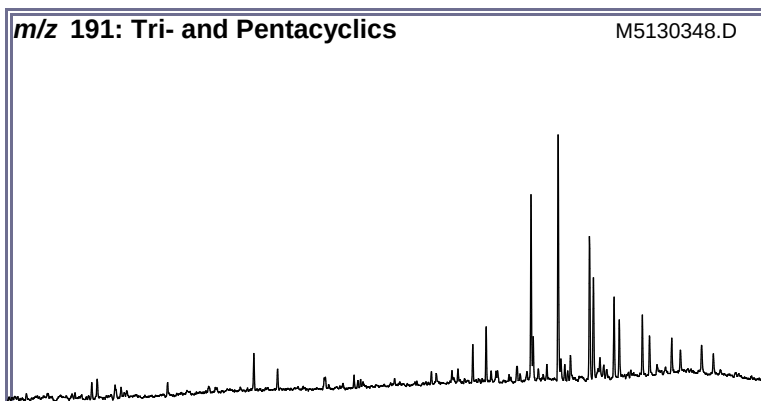
Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

Company:	ConocoPhillips	Client ID:	CA003361
Country:	CANADA	Project #:	BH-63684
Basin:	WCSB	Lab ID:	CP313642
Lease:	MACKENZIE PLAIN	Sample Type:	CORE_CHIP
Block:	EL-470	Sampling Point:	
Field:	LOON CREEK O-06	Formation:	CANOL
Well Name:	COPRC LOON CREEK O-06	Geologic Age:	FRASNIAN
Latitude:	65.09764	Top Depth:	1767.00 M
Longitude:	-127.0085	Bottom Depth:	1767.00 M
Preparation:	MPLC	GCMS Method:	M65A



RATIOS (on Areas)¹	Appl²	TEV³
Steranes (m/z 217; 218)		
%C ₂₇ abbS (218)	33.1 D	
%C ₂₈ abbS (218)	30.7 D	
%C ₂₉ abbS (218)	36.2 D	
%C ₂₇ aaaR (217)	32.1 D	
%C ₂₈ aaaR (217)	31.2 D	
%C ₂₉ aaaR (217)	36.7 D	
S/(S+R) (C ₂₉ aaa) (217)	0.46 M	0.55 (0.8%)
bbS/(bbS+aaR) (C ₂₉) (217)	0.44 M	0.70 (0.9%)
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.08	
C ₂₇ /C ₂₉ (abbS) (218)	0.91 D	
C ₂₈ /C ₂₉ (abbS) (218)	0.85 D	
Diaster/aaa Ster (C ₂₇) (217)	1.06 M/D	1.00 (1.4%)
C30 Sterane Index (218)	5.07 D	

Terpanes (m/z 191)		
Oleanane/Hopane	D/A	
Gammacerane/Hopane	0.05 D	
Norhopane/Hopane	0.69 D	
Bisnorhopane/Hopane	0.09	
Diahopane/Hopane	0.04 M/D	
Moretane/Hopane	0.11 M	0.05 (0.7%)
25-nor-hopane/hopane	B	
Ts/(Ts+Tm) trisnorhopanes	0.41 M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.24 M	
H32 S/(R+S) Homohopanes	0.58 M	0.60 (0.6%)
H35/H34 Homohopanes	0.85 D	
C24 Tetracyclic/Hopane	0.05 D	
C24 Tetracyclic/C26 Tricyclics	0.68 D	
C23/C24 Tricyclic terpanes	1.57 D	
C19/C23 Tricyclic terpanes	0.21 D	
C26/C25 Tricyclic terpanes	0.64 D	
(C28+C29 Tricyclics)/Ts	1.47 A	
Various (m/z 191; 217)		
Steranes/Hopanes	0.36 D	
Tricyclic terpanes/Hopanes	0.19 M	1.00 (1.4%)
Tricyclic terpanes/Steranes	0.53 M/D	1.00 (1.4%)

¹Definition and utility of the ratios can be found on our website www.brilabs.com

²A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

³Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Client ID:	CA003361
Project #:	BH-63684
Lab ID:	CP313642
File Name:	M5130348.D

	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane	13.342	3823	1642	10.7	19.6
135	2MAM	2-Methyladamantane	15.183	5514	2180	15.5	26.0
135	1EAM	1-Ethyladamantane	17.054	6636	2500	18.7	29.8
135	2EAM	2-Ethyladamantane	17.879	14275	4307	40.1	51.4
136	AM	Adamantane	12.856	702	294	2.0	3.5
149	13DMAM	1,3-Dimethyladamantane	13.740	4424	1826	12.4	21.8
149	C14DMAM	1,4-Dimethyladamantane, cis	15.463	6009	2178	16.9	26.0
149	T14DMAM	1,4-Dimethyladamantane, trans	15.611	5245	2103	14.7	25.1
149	12DMAM	1,2-Dimethyladamantane	16.362	10439	3461	29.3	41.3
149	1E3MAM	1-Ethyl-3-methyladamantane	17.363	8101	2797	22.8	33.4
163	135TMAM	1,3,5-Trimethyladamantane	14.035	1856	776	5.2	9.3
163	136TMAM	1,3,6-Trimethyladamantane	15.787	4012	1542	11.3	18.4
163	C134TMAM	1,3,4-Trimethyladamantane, cis	16.553	6131	2246	17.2	26.8
163	T134TMAM	1,3,4-Trimethyladamantane, trans	16.686	6888	2840	19.4	33.9
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane	17.614	6260	1498	17.6	17.9
177	1357TMAM	1,3,5,7-Tetramethyladamantane	14.241	350	132	1.0	1.6
177	1257TMAM	1,2,5,7-Tetramethyladamantane	16.774	4570	2068	12.8	24.7
187	4MDI	4-Methyldiamantane	25.406	1064	266	3.0	3.2
187	1MDI	1-Methyldiamantane	26.908	1722	372	4.8	4.4
187	3MDI	3-Methyldiamantane	27.984	1553	319	4.4	3.8
188	DI	Diamantane	24.979	948	253	2.7	3.0
201	49DMDI	4,9-Dimethyldiamantane	25.833	526	111	1.5	1.3
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	26.982	689	151	1.9	1.8
201	48DMDI	4,8-Dimethyldiamantane	27.218	911	179	2.6	2.1
201	34DMDI	3,4-Dimethyldiamantane	28.455	1760	339	4.9	4.0
215	TMDI	Trimethyldiamantane	27.247	438	86	1.2	1.0

Company:	ConocoPhillips	Client ID:	CA003361
Well Name:	COPRC LOON CREEK O-06	Project #:	BH-63684
Depth:	1767.00 - 1767.00 M	Lab ID:	CP313642
Sampling Point:		File Name:	M5130348.D

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C ₂₇ abbS (218)	33.1	32.0
%C ₂₈ abbS (218)	30.7	30.5
%C ₂₉ abbS (218)	36.2	37.4
C ₂₇ /C ₂₉ (abbS) (218)	0.91	0.86
C ₂₈ /C ₂₉ (abbS) (218)	0.85	0.82
C ₂₉ /C ₂₇ (abbS) (218)	1.09	1.17
%C ₂₇ aaaR (217)	32.1	40.0
%C ₂₈ aaaR (217)	31.2	23.1
%C ₂₉ aaaR (217)	36.7	36.9
S/R (C ₂₉ aaa) (217)	0.85	0.74
S/(S+R) (C ₂₉ aaa) (217)	0.46	0.43
bb/(aa+bb) (C ₂₉) (217)	0.51	0.57
abbS/aaaR (C ₂₉) (217)	0.80	1.05
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	0.08	0.09
Diaster/aaa Ster (C ₂₇) (217)	1.06	1.24
Terpenoids		
C19/C23 Tricyclic terpanes	0.21	0.17
C23/C24 Tricyclic terpanes	1.57	1.74
C26/C25 Tricyclic terpanes	0.64	0.66
C24 Tetracyclic/C26 Tricyclics	0.68	0.79
C24 Tetracyclic/Hopane	0.05	0.05
Ts/Tm trisnorhopanes	0.70	0.69
Ts/(Ts+Tm) trisnorhopanes	0.41	0.41
C29Ts/C29 Hopane	0.24	0.24
Bisnorhopane/Hopane	0.09	0.06
Norhopane/Hopane	0.69	0.75
Diahopane/Hopane	0.04	0.05
Oleanane/Hopane		
Gammacerane/Hopane	0.05	0.04
Moretane/(Moretane+Hopane)	0.10	0.09
H32 S/(S+R) Homohopanes	0.58	0.58
H35/H34 Homohopanes	0.85	0.82
[Steranes]/[Hopanes]	0.36	0.28
[Tricyclic terpanes]/[Hopanes]	0.19	0.18
[Tricyclic terpanes]/[Steranes]	0.53	0.65
DIAMONDROID Ratios		
Methyl Adamantane Index	0.41	0.43
Methyl Diamantane Index	0.25	0.28

Parameter	Formula
Steranes (m/z 217; 218)	
%C ₂₇ abbS (218)	100*C27ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₈ abbS (218)	100*C28ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₉ abbS (218)	100*C29ABBS/(C27ABBS+C28ABBS+C29ABBS)
%C ₂₇ aaaR (217)	100*C27R/(C27R+C28R+C29R)
%C ₂₈ aaaR (217)	100*C28R/(C27R+C28R+C29R)
%C ₂₉ aaaR (217)	100*C29R/(C27R+C28R+C29R)
S/R (C ₂₉ aaa) (217)	C29S/C29R
S/(S+R) (C ₂₉ aaa) (217)	C29S/(C29S+C29R)
bbS/(aaR+bbS) (C ₂₉) (217)	(C29BBS+C29BBS)/(C29R+C29BBS+C29BBS+C29R)
bb/(aa+bb) (C ₂₉) (217)	(C29BBR+C29BBS)/(C29S+C29BBR+C29BBS+C29R)
abbS/aaaR (C ₂₉) (217)	C29BBS/C29R
(C ₂₁ +C ₂₂)/(C ₂₇ +C ₂₈ +C ₂₉) (217)	(S21+S22)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
C ₂₇ /C ₂₉ (abbS) (218)	C27ABBS/C29ABBS
C ₂₈ /C ₂₉ (abbS) (218)	C28ABBS/C29ABBS
C ₂₉ /C ₂₇ (abbS) (218)	C29ABBS/C27ABBS
Diaster/aaa Ster (C ₂₇) (217)	(DIA27S+DIA27R)/(C27S+C27R)
C30 Sterane Index (218)	100*C30ABBS/(C27ABBS+C28ABBS+C29ABBS+C30ABBS)
Terpanes (m/z 191)	
Oleanane/Hopane	OL/H30
Gammacerane/Hopane	GAM/H30
Norhopane/Hopane	H29/H30
Bisnorhopane/Hopane	H28/H30
Diahopane/Hopane	DH30/H30
Moretane/Hopane	M30/H30
Moretane/(Moretane+Hopane)	M30/(M30+H30)
25-nor-hopane/hopane	Nor25H/H30
Ts/Tm trisnorhopanes	TS/TM
Ts/(Ts+Tm) trisnorhopanes	TS/(TS+TM)
C29Ts/C29 Hopane	C29TS/H29
H32 S/(R+S) Homohopanes	H32S/(H32R+H32S)
H35/H34 Homohopanes	(H35R+H35S)/(H34R+H34S)
C24 Tetracyclic/Hopane	(TET24)/H30
C24 Tetracyclic/C26 Tricyclics	(TET24)/(TR26A+TR26B)
C23/C24 Tricyclic terpanes	Tr23/Tr24
C19/C23 Tricyclic terpanes	Tr19/Tr23
C26/C25 Tricyclic terpanes	(TR26A+TR26B)/(TR25A+TR25B)
(C28+C29 Tricyclics)/Ts	(Tr28A+Tr28B+Tr29A+Tr29B)/TS
Various (m/z 191; 217)	
[Steranes]/[Hopanes]	(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Hopanes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(TS+TM+H28+H29+C29TS+DH30+H30+H31R+H31S+H32R+H32S+H33R+H33S+H34R+H34S+H35R+H35S)
[Tricyclic terpanes]/[Steranes]	(TR19+TR20+TR21+TR22+TR23+TR24+TR25A+TR25B+TR26A+TR26B+TR28A+TR28B+TR29A+TR29B+TR30A+TR30B)/(DIA27S+DIA27R+DIA28SA+DIA28SB+DIA28RA+DIA28RB+C27S+BB_D29S+C27BBS+C27R+DIA29R+C28S+C28BBR+C28BBS+C28R+C29S+C29BBR+C29BBS+C29R)
DIAMONDROID Ratios	
Methyl Adamantane Index	1MAM/(1MAM+2MAM)
Methyl Diamantane Index	4MDI/(1MDI+3MDI+4MDI)



1	2	3	4	5
INFO	Name	Range Start	Range End	Format
PAGE	SUMMARY	A1	BE289	workbook
FILE				GCMS_SAT_[F]_[S]_[D]-[B]_[P].xls

6	7	8
Sample display distance	Max samples in one page	Tick

MPLC

ConocoPhillips Canada	Project #: BH-63684

Client ID	Lab ID	Sample Weight	SAT Weight	ARO Weight	NSO Weight	ASPH Weight	% SAT	% ARO	% NSO	% ASPH	Total % Recovery
CA003359	CP313640	0.0110	0.0075	0.0032	0.0001	0.0001	68.18	29.09	0.91	0.91	99.09
CA003360	CP313641	0.0380	0.0213	0.0029	0.0017	0.0010	56.05	7.63	4.47	2.63	70.79
CA003361	CP313642	0.0184	0.0054	0.0013	0.0015	0.0002	29.35	7.07	8.15	1.09	45.65

Geochemical Services Group, 143 Vision Park Blvd., Shenandoah, Texas 77384 • Phone: 281-681-2200 • Fax: 281-681-0326 • Email: geocheminfo@weatherfordlabs.com

1	2	3	4	5	6
INFO	Name	Range Start	Range End	Format	Sample display distance
PAGE	Report	A1	M40	ROW	
File				MPLC_[T]_[P]_[d=yyymmdd].xls	

7	8
Max samples in one page	Tick

REQNUM: BH-63173

LAB ID	CLIENT ID	PREP	WELL NAME	TOP DEPTH	BASE DEPTH	S1	S2	S3
CP315956	CA003727	EXT	COPRC LOON CREEK O-06	1661.8		0.27	1.13	0.43
CP315956	CA003727	NOPR	COPRC LOON CREEK O-06	1661.8		2.42	2.06	0.55
CP315957	CA003728	EXT	COPRC LOON CREEK O-06	1701.27		0.08	5.09	0.11
CP315957	CA003728	NOPR	COPRC LOON CREEK O-06	1701.27		8.39	7.43	0.84
CP315958	CA003729	EXT	COPRC LOON CREEK O-06	1751.21		0.1	2.58	0.09
CP315958	CA003729	NOPR	COPRC LOON CREEK O-06	1751.21		9.2	3.52	1.26
CP315959	CA003730	NOPR	COPRC LOON CREEK O-06	1777.2		9.73	6.33	1.03
CP315959	CA003730	EXT	COPRC LOON CREEK O-06	1777.2		0.06	2.67	0.1

TMAX	LECO	TOC	HI	OI
459		1.83	62	23
453		1.98	104	28
468		6.51	78	2
468		6.79	109	12
474		3.91	66	2
476		4.29	82	29
463		5.04	126	20
481		4.74	56	2

Time (Minutes)	Temp °C	CA003727 - EXT - GOOD	CA003727 - NOPR - GOOD	CA003728 - EXT - GOOD
0.00		6.04	15.16	6.1
0.01		6.04	15.54	6.08
0.03		6.02	15.68	6.1
0.04		6.02	15.86	6.08
0.05		5.92	15.96	5.96
0.07		5.74	16.06	5.76
0.08		5.58	16.12	5.58
0.09		5.50	16.14	5.5
0.11		5.44	13.92	5.44
0.12		5.44	10.86	5.4
0.13		5.40	9.58	5.4
0.15		5.38	8	5.38
0.16		5.38	7.14	5.34
0.17		5.38	6.66	5.34
0.19		5.34	6.22	5.34
0.20		5.34	5.98	5.34
0.21		5.34	5.76	5.32
0.23		5.34	5.64	5.32
0.24		5.34	5.56	5.32
0.25		5.34	5.46	5.32
0.27		5.34	5.44	5.28
0.28		5.34	5.4	5.28
0.29		5.34	5.38	5.28
0.31		5.32	5.34	5.28
0.32		5.32	5.34	5.28
0.33		5.28	5.34	5.28
0.35		5.32	5.34	5.28
0.36		5.28	5.34	5.28
0.37		5.28	5.34	5.28
0.39		5.28	5.34	5.24
0.40		5.28	5.34	5.24
0.41		5.28	5.34	5.28
0.43		5.28	5.34	5.28
0.44		5.28	5.32	5.28
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0.67		5.28	5.32	5.24

0.68	5.28	5.32	5.24
0.69	5.28	5.32	5.24
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0.72	5.28	5.32	5.24
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0.76	5.28	5.32	5.24
0.77	5.28	5.32	5.24
0.79	5.28	5.32	5.24
0.80	5.28	5.32	5.24
0.81	5.28	5.32	5.24
0.83	5.24	5.32	5.24
0.84	5.24	5.32	5.24
0.85	5.24	5.32	5.24
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0.88	5.24	5.28	5.24
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0.97	5.24	5.32	5.24
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1.64	5.24	5.28	5.18
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1.67	5.24	5.28	5.22
1.68	5.24	5.28	5.22
1.69	5.24	5.28	5.22
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1.93	5.22	5.28	5.24
1.95	5.22	5.28	5.24
1.96	5.24	5.28	5.24
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2.01	5.24	5.28	5.24
2.03	5.24	5.28	5.24
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2.08	5.24	5.24	5.24
2.09	5.24	5.24	5.24
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2.68	5.24	5.24	5.24
2.69	5.24	5.24	5.24
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2.75	5.24	5.24	5.24

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2.83	5.28	5.24	5.24
2.84	5.28	5.24	5.24
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3.36	5.24	5.24	5.24
3.37	5.24	5.24	5.24
3.39	5.32	5.24	5.24
3.40	5.34	5.38	5.32
3.41	5.38	5.58	5.38
3.43	5.44	5.8	5.44
3.44	5.46	6.22	5.46

3.45	5.50	6.84	5.52
3.47	5.58	7.62	5.58
3.48	5.64	8.82	5.64
3.49	5.68	9.88	5.7
3.51	5.70	11.42	5.76
3.52	5.76	13	5.88
3.53	5.80	13.86	5.96
3.55	5.86	15.2	6.02
3.56	5.96	16.26	6.04
3.57	6.02	17.22	6.1
3.59	6.14	18.28	6.14
3.60	6.20	19.2	6.14
3.61	6.28	20.32	6.14
3.63	6.34	21.58	6.1
3.64	6.46	22.28	6.08
3.65	6.54	23.46	6.04
3.67	6.62	24.2	6.02
3.68	6.68	25	5.98
3.69	6.74	25.66	5.96
3.71	6.78	26.1	5.92
3.72	6.84	26.42	5.88
3.73	6.86	26.58	5.86
3.75	6.90	26.52	5.82
3.76	6.92	26.3	5.8
3.77	6.92	26.1	5.76
3.79	6.92	25.54	5.76
3.80	6.90	25	5.74
3.81	6.90	24.44	5.74
3.83	6.84	23.74	5.7
3.84	6.84	23.04	5.7
3.85	6.78	22.4	5.68
3.87	6.74	21.7	5.68
3.88	6.74	21.08	5.64
3.89	6.68	20.36	5.64
3.91	6.68	19.6	5.62
3.92	6.66	19.16	5.58
3.93	6.60	18.44	5.58
3.95	6.56	17.94	5.56
3.96	6.50	17.36	5.56
3.97	6.50	16.84	5.52
3.99	6.46	16.42	5.52
4.00	6.44	15.96	5.5
4.01	6.40	15.54	5.5
4.03	6.38	15.16	5.5
4.04	6.38	14.7	5.5
4.05	6.34	14.44	5.5
4.07	6.32	14	5.5
4.08	6.28	13.64	5.5
4.09	6.28	13.36	5.5
4.11	6.22	13.04	5.46
4.12	6.22	12.76	5.46
4.13	6.20	12.48	5.46

4.15	6.16	12.24	5.46
4.16	6.16	12.02	5.44
4.17	6.14	11.78	5.44
4.19	6.14	11.5	5.44
4.20	6.10	11.36	5.44
4.21	6.10	11.14	5.44
4.23	6.08	10.96	5.44
4.24	6.08	10.78	5.44
4.25	6.08	10.58	5.44
4.27	6.04	10.46	5.44
4.28	6.04	10.32	5.44
4.29	6.04	10.16	5.44
4.31	6.04	10.04	5.44
4.32	6.02	9.88	5.44
4.33	5.98	9.8	5.44
4.35	5.96	9.64	5.44
4.36	5.96	9.52	5.44
4.37	5.96	9.42	5.44
4.39	5.92	9.3	5.44
4.40	5.92	9.18	5.44
4.41	5.88	9.1	5.44
4.43	5.88	9	5.44
4.44	5.86	8.94	5.4
4.45	5.86	8.86	5.4
4.47	5.86	8.76	5.4
4.48	5.86	8.7	5.4
4.49	5.86	8.6	5.4
4.51	5.86	8.54	5.4
4.52	5.86	8.46	5.38
4.53	5.82	8.4	5.38
4.55	5.82	8.36	5.38
4.56	5.82	8.28	5.38
4.57	5.80	8.24	5.38
4.59	5.80	8.18	5.38
4.60	5.80	8.08	5.38
4.61	5.76	8.06	5.38
4.63	5.76	8	5.38
4.64	5.76	7.96	5.38
4.65	5.76	7.94	5.38
4.67	5.76	7.84	5.38
4.68	5.76	7.82	5.38
4.69	5.76	7.78	5.34
4.71	5.76	7.76	5.38
4.72	5.76	7.7	5.34
4.73	5.76	7.66	5.34
4.75	5.76	7.6	5.34
4.76	5.76	7.56	5.34
4.77	5.74	7.5	5.34
4.79	5.74	7.48	5.34
4.80	5.74	7.42	5.34
4.81	5.70	7.38	5.34
4.83	5.70	7.38	5.34

4.84	5.68	7.32	5.34
4.85	5.68	7.3	5.34
4.87	5.68	7.3	5.34
4.88	5.68	7.26	5.34
4.89	5.68	7.2	5.34
4.91	5.68	7.2	5.34
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4.93	5.68	7.12	5.34
4.95	5.68	7.12	5.34
4.96	5.68	7.08	5.34
4.97	5.68	7.04	5.34
4.99	5.68	7.02	5.34
5.00	5.68	7.02	5.34
5.01	5.68	6.98	5.34
5.03	5.68	6.96	5.34
5.04	5.68	6.92	5.34
5.05	5.68	6.9	5.34
5.07	5.68	6.84	5.34
5.08	5.68	6.84	5.34
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5.11	5.64	6.8	5.34
5.12	5.64	6.78	5.34
5.13	5.64	6.78	5.34
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5.16	5.64	6.74	5.34
5.17	5.62	6.72	5.34
5.19	5.62	6.72	5.32
5.20	5.62	6.72	5.32
5.21	5.62	6.72	5.32
5.23	5.62	6.68	5.32
5.24	5.62	6.68	5.34
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5.37	5.58	6.56	5.32
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5.40	5.58	6.54	5.32
5.41	5.58	6.54	5.32
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5.49	5.56	6.46	5.24
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5.52	5.52	6.44	5.32

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5.64	5.52	6.4	5.28
5.65	5.52	6.4	5.28
5.67	5.50	6.38	5.24
5.68	5.52	6.38	5.28
5.69	5.50	6.38	5.28
5.71	5.50	6.38	5.28
5.72	5.50	6.34	5.28
5.73	5.50	6.34	5.28
5.75	5.50	6.34	5.28
5.76	5.50	6.32	5.24
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5.79	5.50	6.32	5.24
5.80	5.50	6.32	5.28
5.81	5.50	6.32	5.28
5.83	5.50	6.32	5.28
5.84	5.50	6.32	5.24
5.85	5.50	6.32	5.28
5.87	5.50	6.32	5.24
5.88	5.50	6.28	5.28
5.89	5.50	6.28	5.28
5.91	5.50	6.26	5.28
5.92	5.50	6.22	5.24
5.93	5.50	6.22	5.28
5.95	5.50	6.22	5.28
5.96	5.50	6.22	5.24
5.97	5.50	6.22	5.24
5.99	5.50	6.2	5.24
6.00	5.50	6.2	5.24
6.01	5.50	6.16	5.28
6.03	5.50	6.16	5.24
6.04	5.50	6.16	5.24
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6.08	5.50	6.14	5.24
6.09	5.50	6.14	5.24
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6.21	5.50	6.14	5.28

6.23	5.50	6.14	5.28
6.24	5.50	6.1	5.24
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6.31	5.50	6.08	5.24
6.32	5.50	6.08	5.28
6.33	5.50	6.08	5.28
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6.57	5.50	6.14	5.28
6.59	5.50	6.16	5.28
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6.63	5.50	6.22	5.28
6.64	5.50	6.26	5.28
6.65	5.50	6.28	5.28
6.67	5.50	6.28	5.28
6.68	5.50	6.32	5.28
6.69	5.52	6.32	5.28
6.71	5.52	6.32	5.32
6.72	5.52	6.32	5.32
6.73	5.56	6.34	5.32
6.75	5.56	6.38	5.32
6.76	5.56	6.4	5.32
6.77	5.56	6.4	5.32
6.79	5.58	6.4	5.32
6.80	5.58	6.4	5.32
6.81	5.58	6.4	5.34
6.83	5.58	6.44	5.32
6.84	5.58	6.44	5.34
6.85	5.58	6.46	5.34
6.87	5.58	6.46	5.34
6.88	5.58	6.5	5.32
6.89	5.58	6.5	5.34
6.91	5.58	6.5	5.32

6.92	5.58	6.5	5.34
6.93	5.58	6.5	5.34
6.95	5.62	6.5	5.34
6.96	5.62	6.54	5.34
6.97	5.62	6.56	5.34
6.99	5.62	6.56	5.34
7.00	5.62	6.56	5.34
7.01	5.64	6.6	5.34
7.03	5.64	6.6	5.34
7.04	5.64	6.6	5.34
7.05	5.64	6.62	5.34
7.07	5.64	6.66	5.34
7.08	5.64	6.68	5.34
7.09	5.64	6.68	5.34
7.11	5.64	6.68	5.34
7.12	5.64	6.68	5.34
7.13	5.64	6.68	5.34
7.15	5.64	6.68	5.34
7.16	5.64	6.68	5.34
7.17	5.68	6.68	5.34
7.19	5.64	6.68	5.34
7.20	5.68	6.68	5.34
7.21	5.68	6.68	5.38
7.23	5.68	6.68	5.34
7.24	5.68	6.68	5.34
7.25	5.68	6.68	5.38
7.27	5.68	6.68	5.38
7.28	5.68	6.72	5.34
7.29	5.68	6.74	5.38
7.31	5.68	6.74	5.38
7.32	5.68	6.74	5.38
7.33	5.70	6.74	5.38
7.35	5.70	6.74	5.4
7.36	5.70	6.74	5.38
7.37	5.70	6.78	5.38
7.39	5.70	6.78	5.38
7.40	5.70	6.78	5.38
7.41	5.74	6.78	5.38
7.43	5.74	6.78	5.38
7.44	5.74	6.78	5.38
7.45	5.74	6.78	5.38
7.47	5.74	6.78	5.4
7.48	5.74	6.8	5.4
7.49	5.74	6.84	5.4
7.51	5.74	6.84	5.4
7.52	5.74	6.84	5.4
7.53	5.74	6.86	5.4
7.55	5.74	6.9	5.4
7.56	5.74	6.9	5.4
7.57	5.74	6.92	5.4
7.59	5.76	6.92	5.4
7.60	5.76	6.92	5.4

7.61	5.76	6.92	5.4
7.63	5.76	6.96	5.44
7.64	5.80	6.96	5.44
7.65	5.80	6.96	5.44
7.67	5.80	6.96	5.4
7.68	5.82	6.96	5.4
7.69	5.82	6.96	5.4
7.71	5.80	6.96	5.44
7.72	5.82	6.98	5.44
7.73	5.82	6.98	5.44
7.75	5.82	6.98	5.44
7.76	5.82	6.98	5.44
7.77	5.86	6.98	5.44
7.79	5.82	6.98	5.44
7.80	5.86	6.98	5.44
7.81	5.86	6.96	5.44
7.83	5.86	6.96	5.44
7.84	5.86	6.96	5.44
7.85	5.86	6.96	5.44
7.87	5.86	6.96	5.44
7.88	5.86	6.96	5.44
7.89	5.86	6.96	5.44
7.91	5.86	6.96	5.44
7.92	5.86	6.96	5.44
7.93	5.86	6.96	5.44
7.95	5.86	6.96	5.44
7.96	5.86	6.96	5.44
7.97	5.86	6.96	5.44
7.99	5.86	6.96	5.44
8.00	5.86	6.96	5.44
8.01	5.86	6.96	5.44
8.03	5.86	6.96	5.44
8.04	5.86	6.96	5.44
8.05	5.86	6.96	5.44
8.07	5.86	6.96	5.44
8.08	5.86	6.96	5.44
8.09	5.86	6.96	5.44
8.11	5.86	6.96	5.44
8.12	5.86	6.96	5.44
8.13	5.86	6.96	5.44
8.15	5.86	6.96	5.44
8.16	5.86	6.96	5.44
8.17	5.86	6.96	5.44
8.19	5.86	6.92	5.44
8.20	5.86	6.92	5.44
8.21	5.86	6.92	5.44
8.23	5.86	6.92	5.44
8.24	5.86	6.92	5.44
8.25	5.86	6.92	5.44
8.27	5.86	6.92	5.44
8.28	5.86	6.92	5.46
8.29	5.86	6.92	5.44

8.31	5.86	6.92	5.44
8.32	5.86	6.92	5.44
8.33	5.86	6.92	5.44
8.35	5.86	6.92	5.44
8.36	5.86	6.92	5.44
8.37	5.86	6.9	5.44
8.39	5.86	6.9	5.44
8.40	5.86	6.9	5.44
8.41	5.86	6.9	5.44
8.43	5.86	6.9	5.46
8.44	5.86	6.9	5.44
8.45	5.86	6.9	5.46
8.47	5.86	6.86	5.46
8.48	5.86	6.86	5.46
8.49	5.86	6.84	5.46
8.51	5.86	6.84	5.46
8.52	5.86	6.84	5.46
8.53	5.86	6.84	5.46
8.55	5.86	6.84	5.46
8.56	5.86	6.8	5.5
8.57	5.86	6.8	5.5
8.59	5.86	6.8	5.5
8.60	5.86	6.8	5.5
8.61	5.86	6.8	5.5
8.63	5.86	6.8	5.5
8.64	5.86	6.8	5.5
8.65	5.86	6.78	5.5
8.67	5.86	6.78	5.5
8.68	5.86	6.8	5.5
8.69	5.86	6.8	5.5
8.71	5.86	6.8	5.5
8.72	5.86	6.8	5.5
8.73	5.86	6.8	5.5
8.75	5.86	6.84	5.5
8.76	5.86	6.84	5.5
8.77	5.86	6.84	5.5
8.79	5.86	6.84	5.5
8.80	5.82	6.84	5.5
8.81	5.82	6.8	5.5
8.83	5.82	6.8	5.5
8.84	5.82	6.8	5.5
8.85	5.82	6.8	5.5
8.87	5.82	6.78	5.5
8.88	5.82	6.78	5.5
8.89	5.80	6.78	5.5
8.91	5.82	6.78	5.52
8.92	5.80	6.74	5.52
8.93	5.76	6.74	5.52
8.95	5.76	6.74	5.52
8.96	5.76	6.74	5.52
8.97	5.76	6.74	5.52
8.99	5.76	6.74	5.56

9.00	5.74	6.74	5.56
9.01	5.74	6.74	5.58
9.03	5.74	6.74	5.56
9.04	5.74	6.72	5.58
9.05	5.74	6.72	5.58
9.07	5.74	6.68	5.56
9.08	5.74	6.68	5.58
9.09	5.74	6.68	5.58
9.11	5.74	6.68	5.58
9.12	5.74	6.68	5.58
9.13	5.74	6.68	5.58
9.15	5.74	6.68	5.58
9.16	5.74	6.68	5.58
9.17	5.74	6.68	5.58
9.19	5.74	6.68	5.62
9.20	5.74	6.68	5.62
9.21	5.74	6.68	5.62
9.23	5.74	6.68	5.64
9.24	5.74	6.68	5.64
9.25	5.74	6.68	5.64
9.27	5.74	6.68	5.68
9.28	5.74	6.68	5.68
9.29	5.74	6.66	5.68
9.31	5.74	6.66	5.68
9.32	5.74	6.66	5.68
9.33	5.74	6.66	5.68
9.35	5.74	6.66	5.68
9.36	5.74	6.66	5.68
9.37	5.74	6.66	5.68
9.39	5.74	6.66	5.68
9.40	5.74	6.66	5.68
9.41	5.74	6.66	5.68
9.43	5.7	6.66	5.68
9.44	5.74	6.66	5.68
9.45	5.7	6.66	5.68
9.47	5.7	6.66	5.68
9.48	5.74	6.66	5.68
9.49	5.74	6.66	5.68
9.51	5.74	6.66	5.68
9.52	5.74	6.66	5.7
9.53	5.74	6.66	5.7
9.55	5.74	6.66	5.7
9.56	5.74	6.66	5.7
9.57	5.74	6.62	5.74
9.59	5.74	6.62	5.74
9.60	5.74	6.62	5.76
9.61	5.74	6.62	5.76
9.63	5.74	6.6	5.76
9.64	5.74	6.6	5.76
9.65	5.74	6.6	5.76
9.67	5.74	6.6	5.76
9.68	5.74	6.6	5.76

9.69	5.74	6.56	5.76
9.71	5.74	6.56	5.76
9.72	5.7	6.54	5.76
9.73	5.7	6.5	5.76
9.75	5.7	6.5	5.76
9.76	5.68	6.5	5.76
9.77	5.68	6.44	5.76
9.79	5.68	6.44	5.76
9.80	5.68	6.4	5.76
9.81	5.68	6.4	5.76
9.83	5.68	6.4	5.76
9.84	5.68	6.4	5.76
9.85	5.68	6.38	5.76
9.87	5.68	6.34	5.76
9.88	5.68	6.34	5.76
9.89	5.68	6.32	5.76
9.91	5.68	6.32	5.76
9.92	5.68	6.32	5.76
9.93	5.68	6.32	5.76
9.95	5.68	6.28	5.76
9.96	5.68	6.28	5.76
9.97	5.68	6.28	5.76
9.99	5.68	6.28	5.76
10.00	5.68	6.28	5.76
10.01	5.68	6.28	5.8
10.03	5.68	6.28	5.8
10.04	5.68	6.28	5.82
10.05	5.68	6.28	5.82
10.07	5.68	6.28	5.86
10.08	5.64	6.28	5.86
10.09	5.68	6.28	5.86
10.11	5.64	6.28	5.86
10.12	5.68	6.26	5.86
10.13	5.68	6.26	5.86
10.15	5.64	6.26	5.86
10.16	5.68	6.26	5.86
10.17	5.68	6.26	5.86
10.19	5.64	6.26	5.86
10.20	5.68	6.26	5.86
10.21	5.68	6.22	5.86
10.23	5.68	6.22	5.88
10.24	5.68	6.22	5.92
10.25	5.68	6.22	5.96
10.27	5.68	6.22	5.96
10.28	5.68	6.22	5.96
10.29	5.68	6.22	5.96
10.31	5.68	6.22	5.98
10.32	5.68	6.22	6.02
10.33	5.68	6.22	6.04
10.35	5.68	6.22	6.04
10.36	5.64	6.22	6.04
10.37	5.68	6.22	6.04

10.39	5.68	6.22	6.04
10.40	5.68	6.22	6.04
10.41	5.68	6.22	6.04
10.43	5.68	6.22	6.08
10.44	5.68	6.22	6.08
10.45	5.68	6.22	6.08
10.47	5.68	6.2	6.1
10.48	5.68	6.22	6.1
10.49	5.68	6.22	6.14
10.51	5.64	6.22	6.14
10.52	5.64	6.22	6.14
10.53	5.64	6.22	6.14
10.55	5.64	6.22	6.14
10.56	5.64	6.22	6.16
10.57	5.64	6.22	6.2
10.59	5.64	6.22	6.22
10.60	5.64	6.2	6.22
10.61	5.64	6.2	6.26
10.63	5.64	6.22	6.28
10.64	5.64	6.22	6.28
10.65	5.64	6.2	6.32
10.67	5.64	6.2	6.32
10.68	5.64	6.2	6.32
10.69	5.64	6.16	6.34
10.71	5.64	6.16	6.38
10.72	5.64	6.14	6.4
10.73	5.64	6.14	6.4
10.75	5.64	6.14	6.4
10.76	5.64	6.14	6.4
10.77	5.64	6.14	6.44
10.79	5.64	6.14	6.46
10.80	5.64	6.14	6.46
10.81	5.64	6.14	6.5
10.83	5.64	6.14	6.5
10.84	5.68	6.14	6.56
10.85	5.68	6.14	6.6
10.87	5.68	6.14	6.6
10.88	5.68	6.16	6.6
10.89	5.68	6.16	6.6
10.91	5.68	6.16	6.62
10.92	5.7	6.16	6.66
10.93	5.7	6.16	6.68
10.95	5.7	6.16	6.68
10.96	5.7	6.16	6.72
10.97	5.7	6.16	6.74
10.99	5.7	6.2	6.8
11.00	5.7	6.2	6.84
11.01	5.74	6.2	6.86
11.03	5.74	6.2	6.9
11.04	5.74	6.22	6.92
11.05	5.74	6.22	6.92
11.07	5.74	6.22	6.98

11.08	5.74	6.22	7.02
11.09	5.74	6.22	7.02
11.11	5.74	6.22	7.04
11.12	5.74	6.22	7.12
11.13	5.74	6.22	7.14
11.15	5.74	6.22	7.2
11.16	5.74	6.22	7.2
11.17	5.74	6.22	7.2
11.19	5.74	6.22	7.26
11.20	5.74	6.22	7.3
11.21	5.74	6.22	7.3
11.23	5.76	6.22	7.32
11.24	5.76	6.22	7.38
11.25	5.76	6.22	7.42
11.27	5.76	6.26	7.44
11.28	5.76	6.26	7.48
11.29	5.8	6.26	7.5
11.31	5.8	6.26	7.54
11.32	5.8	6.28	7.56
11.33	5.82	6.28	7.56
11.35	5.86	6.28	7.56
11.36	5.86	6.28	7.6
11.37	5.86	6.28	7.62
11.39	5.86	6.28	7.66
11.40	5.86	6.28	7.72
11.41	5.86	6.26	7.76
11.43	5.86	6.26	7.76
11.44	5.86	6.22	7.82
11.45	5.86	6.22	7.84
11.47	5.86	6.22	7.88
11.48	5.88	6.22	7.94
11.49	5.92	6.22	7.96
11.51	5.92	6.22	8
11.52	5.96	6.26	8.06
11.53	5.96	6.26	8.08
11.55	5.96	6.28	8.14
11.56	5.96	6.28	8.18
11.57	5.96	6.32	8.18
11.59	5.96	6.32	8.28
11.60	5.98	6.32	8.28
11.61	6.02	6.32	8.34
11.63	6.02	6.32	8.36
11.64	6.04	6.32	8.4
11.65	6.04	6.32	8.46
11.67	6.04	6.32	8.46
11.68	6.04	6.32	8.48
11.69	6.04	6.34	8.52
11.71	6.04	6.38	8.54
11.72	6.04	6.38	8.6
11.73	6.04	6.4	8.64
11.75	6.08	6.4	8.7
11.76	6.08	6.4	8.72

11.77	6.1	6.4	8.78
11.79	6.14	6.4	8.88
11.80	6.14	6.4	8.94
11.81	6.14	6.4	9
11.83	6.14	6.44	9.06
11.84	6.14	6.46	9.1
11.85	6.16	6.46	9.16
11.87	6.2	6.5	9.18
11.88	6.22	6.5	9.22
11.89	6.22	6.5	9.24
11.91	6.22	6.5	9.28
11.92	6.22	6.5	9.34
11.93	6.26	6.54	9.36
11.95	6.28	6.56	9.42
11.96	6.32	6.6	9.5
11.97	6.32	6.6	9.56
11.99	6.32	6.6	9.62
12.00	6.32	6.6	9.7
12.01	6.32	6.6	9.8
12.03	6.32	6.6	9.86
12.04	6.32	6.6	9.94
12.05	6.34	6.6	10
12.07	6.34	6.62	10.08
12.08	6.38	6.66	10.14
12.09	6.38	6.68	10.16
12.11	6.4	6.68	10.2
12.12	6.4	6.72	10.22
12.13	6.4	6.74	10.26
12.15	6.4	6.78	10.28
12.16	6.4	6.84	10.34
12.17	6.4	6.84	10.34
12.19	6.4	6.86	10.4
12.20	6.44	6.9	10.44
12.21	6.46	6.92	10.46
12.23	6.5	6.92	10.52
12.24	6.5	6.92	10.56
12.25	6.5	6.96	10.58
12.27	6.54	6.98	10.66
12.28	6.54	7.02	10.68
12.29	6.56	7.02	10.78
12.31	6.56	7.04	10.84
12.32	6.56	7.08	10.92
12.33	6.56	7.12	10.98
12.35	6.56	7.12	11.14
12.36	6.56	7.12	11.24
12.37	6.56	7.14	11.32
12.39	6.56	7.14	11.42
12.40	6.56	7.14	11.48
12.41	6.56	7.14	11.56
12.43	6.56	7.18	11.6
12.44	6.56	7.18	11.68
12.45	6.56	7.18	11.72

12.47	6.56	7.2	11.78
12.48	6.56	7.2	11.78
12.49	6.56	7.2	11.84
12.51	6.56	7.2	11.88
12.52	6.56	7.2	11.94
12.53	6.56	7.24	12
12.55	6.56	7.24	12.02
12.56	6.56	7.24	12.12
12.57	6.56	7.24	12.2
12.59	6.56	7.24	12.24
12.60	6.6	7.24	12.36
12.61	6.6	7.24	12.4
12.63	6.6	7.24	12.48
12.64	6.6	7.24	12.58
12.65	6.6	7.24	12.64
12.67	6.62	7.24	12.7
12.68	6.62	7.26	12.76
12.69	6.62	7.26	12.78
12.71	6.62	7.26	12.84
12.72	6.62	7.26	12.9
12.73	6.66	7.24	13
12.75	6.66	7.2	13.1
12.76	6.66	7.2	13.16
12.77	6.66	7.2	13.28
12.79	6.66	7.2	13.36
12.80	6.66	7.2	13.46
12.81	6.66	7.18	13.54
12.83	6.66	7.18	13.64
12.84	6.66	7.14	13.74
12.85	6.66	7.12	13.82
12.87	6.66	7.12	13.86
12.88	6.66	7.12	13.92
12.89	6.66	7.08	13.94
12.91	6.66	7.08	14
12.92	6.66	7.04	14.04
12.93	6.66	7.02	14.06
12.95	6.62	7.02	14.1
12.96	6.62	7.02	14.12
12.97	6.6	7.02	14.16
12.99	6.6	7.02	14.12
13.00	6.6	6.98	14.12
13.01	6.6	6.96	14.12
13.03	6.6	6.96	14.12
13.04	6.56	6.96	14.1
13.05	6.56	6.96	14.1
13.07	6.56	6.96	14.1
13.08	6.56	6.96	14.1
13.09	6.56	6.92	14.1
13.11	6.56	6.92	14.1
13.12	6.56	6.92	14.1
13.13	6.56	6.92	14.1
13.15	6.54	6.92	14.1

13.16	6.5	6.92	14.1
13.17	6.5	6.92	14.1
13.19	6.5	6.92	14.12
13.20	6.5	6.92	14.12
13.21	6.46	6.9	14.16
13.23	6.46	6.9	14.2
13.24	6.44	6.86	14.2
13.25	6.4	6.84	14.16
13.27	6.4	6.84	14.16
13.28	6.4	6.8	14.12
13.29	6.4	6.78	14.12
13.31	6.4	6.78	14.1
13.32	6.38	6.74	14.1
13.33	6.38	6.74	14.04
13.35	6.38	6.74	14
13.36	6.38	6.74	13.94
13.37	6.38	6.74	13.92
13.39	6.38	6.72	13.88
13.40	6.38	6.68	13.86
13.41	6.38	6.68	13.86
13.43	6.38	6.66	13.82
13.44	6.34	6.66	13.82
13.45	6.32	6.62	13.82
13.47	6.32	6.62	13.82
13.48	6.32	6.62	13.82
13.49	6.32	6.6	13.8
13.51	6.32	6.6	13.74
13.52	6.28	6.6	13.7
13.53	6.28	6.6	13.64
13.55	6.28	6.6	13.54
13.56	6.28	6.6	13.46
13.57	6.28	6.6	13.36
13.59	6.26	6.6	13.28
13.60	6.26	6.6	13.22
13.61	6.26	6.56	13.16
13.63	6.22	6.54	13.1
13.64	6.22	6.5	13.06
13.65	6.26	6.5	13.04
13.67	6.22	6.46	13
13.68	6.22	6.46	12.96
13.69	6.22	6.44	12.94
13.71	6.22	6.44	12.9
13.72	6.22	6.44	12.84
13.73	6.22	6.4	12.84
13.75	6.22	6.4	12.82
13.76	6.2	6.4	12.76
13.77	6.2	6.4	12.76
13.79	6.16	6.4	12.72
13.80	6.16	6.38	12.66
13.81	6.14	6.34	12.66
13.83	6.14	6.34	12.66
13.84	6.14	6.34	12.6

13.85	6.14	6.32	12.58
13.87	6.14	6.32	12.54
13.88	6.14	6.32	12.48
13.89	6.14	6.32	12.46
13.91	6.1	6.32	12.4
13.92	6.1	6.32	12.3
13.93	6.1	6.32	12.18
13.95	6.1	6.32	12.12
13.96	6.1	6.28	12
13.97	6.1	6.28	11.88
13.99	6.1	6.26	11.78
14.00	6.1	6.26	11.68
14.01	6.08	6.22	11.6
14.03	6.08	6.22	11.5
14.04	6.08	6.22	11.42
14.05	6.08	6.22	11.32
14.07	6.08	6.22	11.24
14.08	6.04	6.22	11.1
14.09	6.04	6.22	11.02
14.11	6.04	6.22	10.9
14.12	6.04	6.2	10.8
14.13	6.04	6.2	10.68
14.15	6.02	6.14	10.58
14.16	6.02	6.14	10.5
14.17	6.02	6.14	10.38
14.19	6.02	6.1	10.32
14.20	6.02	6.1	10.22
14.21	6.02	6.1	10.14
14.23	6.02	6.08	10.08
14.24	6.02	6.08	9.98
14.25	6.02	6.08	9.88
14.27	6.02	6.08	9.86
14.28	6.02	6.04	9.8
14.29	6.02	6.04	9.74
14.31	6.02	6.04	9.7
14.32	5.98	6.04	9.62
14.33	5.96	6.04	9.58
14.35	5.96	6.04	9.52
14.36	5.96	6.04	9.46
14.37	5.96	6.04	9.42
14.39	5.96	6.04	9.4
14.40	5.96	6.04	9.34
14.41	5.96	6.04	9.34
14.43	5.96	6.04	9.28
14.44	5.92	6.04	9.24
14.45	5.92	6.04	9.18
14.47	5.88	6.02	9.16
14.48	5.88	6.02	9.1
14.49	5.88	5.98	9.06
14.51	5.88	5.98	9.04
14.52	5.86	5.98	9
14.53	5.86	5.96	8.94

14.55	5.86	5.96	8.92
14.56	5.86	5.96	8.86
14.57	5.82	5.96	8.82
14.59	5.82	5.96	8.78
14.60	5.82	5.96	8.72
14.61	5.82	5.96	8.7
14.63	5.82	5.96	8.66
14.64	5.82	5.96	8.64
14.65	5.82	5.96	8.64
14.67	5.82	5.96	8.6
14.68	5.82	5.96	8.58
14.69	5.8	5.96	8.54
14.71	5.8	5.96	8.54
14.72	5.8	5.96	8.54
14.73	5.8	5.96	8.52
14.75	5.76	5.96	8.48
14.76	5.76	5.92	8.46
14.77	5.76	5.92	8.46
14.79	5.76	5.92	8.46
14.80	5.76	5.88	8.46
14.81	5.76	5.88	8.46
14.83	5.76	5.86	8.46
14.84	5.76	5.86	8.46
14.85	5.76	5.86	8.46
14.87	5.76	5.86	8.46
14.88	5.76	5.86	8.46
14.89	5.76	5.86	8.46
14.91	5.76	5.86	8.42
14.92	5.76	5.82	8.4
14.93	5.74	5.82	8.36
14.95	5.74	5.82	8.36
14.96	5.74	5.8	8.3
14.97	5.74	5.8	8.3
14.99	5.74	5.76	8.28
15.00	5.74	5.8	8.28
15.01	5.74	5.76	8.28
15.03	5.74	5.76	8.24
15.04	5.74	5.76	8.2
15.05	5.74	5.76	8.18
15.07	5.74	5.76	8.18
15.08	5.74	5.76	8.18
15.09	5.74	5.76	8.18
15.11	5.74	5.76	8.18
15.12	5.74	5.76	8.14
15.13	5.74	5.76	8.12
15.15	5.74	5.76	8.12
15.16	5.74	5.76	8.08
15.17	5.74	5.76	8.08
15.19	5.74	5.76	8.08
15.20	5.74	5.76	8.08
15.21	5.74	5.76	8.06
15.23	5.74	5.76	8.02

15.24	5.74	5.76	8
15.25	5.74	5.76	8
15.27	5.74	5.76	7.96
15.28	5.74	5.76	7.94
15.29	5.74	5.76	7.94
15.31	5.7	5.76	7.94
15.32	5.7	5.74	7.94
15.33	5.7	5.74	7.94
15.35	5.74	5.76	7.94
15.36	5.7	5.74	7.94
15.37	5.7	5.74	7.9
15.39	5.7	5.74	7.9
15.40	5.7	5.7	7.9
15.41	5.68	5.7	7.88
15.43	5.68	5.7	7.88
15.44	5.68	5.7	7.84
15.45	5.68	5.7	7.84
15.47	5.68	5.68	7.84
15.48	5.68	5.68	7.84
15.49	5.68	5.68	7.84
15.51	5.68	5.68	7.84
15.52	5.68	5.68	7.82
15.53	5.68	5.68	7.78
15.55	5.68	5.68	7.78
15.56	5.68	5.68	7.76
15.57	5.68	5.68	7.76
15.59	5.68	5.68	7.76
15.60	5.68	5.68	7.76
15.61	5.68	5.68	7.76
15.63	5.68	5.68	7.76
15.64	5.68	5.68	7.76
15.65	5.68	5.68	7.76
15.67	5.68	5.68	7.76
15.68	5.68	5.68	7.76
15.69	5.68	5.68	7.76
15.71	5.68	5.68	7.76
15.72	5.68	5.68	7.76
15.73	5.64	5.68	7.76
15.75	5.64	5.68	7.72
15.76	5.64	5.68	7.66
15.77	5.64	5.68	7.66
15.79	5.64	5.68	7.6
15.80	5.64	5.68	7.54
15.81	5.64	5.68	7.5
15.83	5.64	5.68	7.44
15.84	5.64	5.68	7.38
15.85	5.64	5.64	7.36
15.87	5.62	5.62	7.3
15.88	5.62	5.58	7.3
15.89	5.58	5.58	7.26
15.91	5.58	5.56	7.2
15.92	5.58	5.56	7.18

15.93	5.58	5.56	7.12
15.95	5.58	5.52	7.12
15.96	5.58	5.52	7.04
15.97	5.58	5.5	7.02
15.99	5.56	5.5	7.02
16.00	5.56	5.5	6.98
16.01	5.56	5.5	6.92
16.03	5.52	5.5	6.92
16.04	5.52	5.5	6.92
16.05	5.52	5.5	6.9
16.07	5.5	5.5	6.9
16.08	5.5	5.5	6.86
16.09	5.5	5.5	6.86
16.11	5.5	5.5	6.84
16.12	5.5	5.5	6.84
16.13	5.5	5.5	6.8
16.15	5.46	5.5	6.78
16.16	5.46	5.5	6.74
16.17	5.46	5.5	6.74
16.19	5.46	5.5	6.74
16.20	5.46	5.5	6.72
16.21	5.46	5.5	6.72
16.23	5.46	5.5	6.72
16.24	5.46	5.5	6.68
16.25	5.46	5.46	6.68
16.27	5.46	5.46	6.66
16.28	5.46	5.46	6.66
16.29	5.46	5.46	6.62
16.31	5.46	5.46	6.6
16.32	5.46	5.46	6.6
16.33	5.46	5.44	6.56
16.35	5.46	5.46	6.5
16.36	5.46	5.44	6.5
16.37	5.46	5.44	6.46
16.39	5.46	5.44	6.44
16.40	5.46	5.44	6.44
16.41	5.44	5.44	6.44
16.43	5.44	5.44	6.4
16.44	5.44	5.44	6.4
16.45	5.44	5.44	6.4
16.47	5.44	5.44	6.4
16.48	5.44	5.44	6.4
16.49	5.44	5.44	6.38
16.51	5.44	5.44	6.38
16.52	5.44	5.44	6.38
16.53	5.44	5.44	6.38
16.55	5.44	5.4	6.38
16.56	5.44	5.4	6.38
16.57	5.44	5.38	6.34
16.59	5.44	5.38	6.34
16.60	5.44	5.38	6.34
16.61	5.44	5.38	6.32

16.63	5.44	5.38	6.32
16.64	5.44	5.38	6.32
16.65	5.44	5.38	6.32
16.67	5.52	5.38	6.32
16.68	5.64	5.38	6.22
16.69	5.76	5.96	6.2
16.71	5.82	8	6.14
16.72	5.88	9.86	6.1
16.73	5.92	11.3	6.08
16.75	5.96	11.84	6.04
16.76	5.96	12.58	6.04
16.77	5.98	12.9	6.04
16.79	5.98	13.18	6.02
16.80	6.02	13.36	6.02
16.81	6.02	13.48	6.02
16.83	6.02	13.58	6.02
16.84	6.02	13.68	6.02
16.85	6.02	13.7	6.02
16.87	6.02	13.74	6.02
16.88	6.02	13.74	5.98
16.89	6.02	13.76	5.98
16.91	6.04	13.8	5.98
16.92	6.04	13.8	6.02
16.93	6.04	13.8	6.02
16.95	6.08	13.82	6.02
16.96	6.08	13.82	6.02
16.97	6.08	13.82	6.02
16.99	6.1	13.82	6.02
17.00	6.1	13.86	6.02
17.01	6.1	13.86	6.02
17.03	6.1	13.86	6.02
17.04	6.1	13.88	6.02
17.05	6.1	13.88	6.02
17.07	6.1	13.88	6.02
17.08	6.1	13.88	6.02
17.09	6.1	13.88	6.04
17.11	6.1	13.92	6.02
17.12	6.1	13.92	6.04
17.13	6.1	13.92	6.04
17.15	6.14	13.92	6.04
17.16	6.14	13.92	6.04
17.17	6.14	13.92	6.04
17.19	6.14	13.92	6.04
17.20	6.14	13.92	6.04
17.21	6.14	13.94	6.08
17.23	6.14	13.94	6.08
17.24	6.14	13.98	6.08
17.25	6.14	13.98	6.1
17.27	6.16	13.98	6.1
17.28	6.16	13.98	6.1
17.29	6.14	13.98	6.1
17.31	6.16	13.98	6.1

17.32	6.14	13.98	6.1
17.33	6.14	13.98	6.1
17.35	6.14	13.98	6.1
17.36	6.14	13.98	6.1
17.37	6.14	13.98	6.1
17.39	6.1	13.98	6.1
17.40	6.1	13.98	6.08
17.41	6.1	13.98	6.08
17.43	6.1	13.98	6.1
17.44	6.1	13.94	6.1
17.45	6.1	13.94	6.1
17.47	6.1	13.98	6.14
17.48	6.1	13.98	6.1
17.49	6.1	13.94	6.1
17.51	6.1	13.94	6.08
17.52	6.1	13.94	6.1
17.53	6.1	13.98	6.1
17.55	6.1	13.98	6.1
17.56	6.1	13.98	6.1
17.57	6.1	13.98	6.1
17.59	6.1	13.98	6.1
17.60	6.1	13.98	6.08
17.61	6.14	13.98	6.08
17.63	6.14	13.98	6.08
17.64	6.2	14	6.08
17.65	6.28	14	6.1
17.67	6.4	14	6.14
17.68	6.66	14.04	6.22
17.69	6.92	14.1	6.34
17.71	7.44	14.2	6.5
17.72	8.14	14.28	6.74
17.73	8.98	14.52	7.18
17.75	10.2	14.9	7.5
17.76	11.32	15.36	8.2
17.77	13.04	16.24	8.66
17.79	14.98	17.18	9.62
17.80	16.06	18.18	10.4
17.81	17.8	19.5	11.04
17.83	18.9	20.62	11.72
17.84	19.44	22	12.2
17.85	19.66	23.2	12.46
17.87	19.44	24.02	12.52
17.88	18.76	24.68	12.4
17.89	17.76	24.96	12.02
17.91	16.7	24.74	11.44
17.92	15.32	24.24	10.92
17.93	13.94	23.56	10.26
17.95	12.78	22.52	9.7
17.96	11.38	21.42	9.1
17.97	10.5	20.44	8.54
17.99	9.58	19.38	8.12
18.00	8.82	18.52	7.72

18.01	8.34	17.6	7.38
18.03	7.84	16.72	7.14
18.04	7.54	16.32	6.92
18.05	7.24	15.72	6.78
18.07	6.98	15.36	6.66
18.08	6.86	15.08	6.54
18.09	6.74	14.84	6.5
18.11	6.66	14.68	6.44
18.12	6.62	14.52	6.44
18.13	6.6	14.44	6.4
18.15	6.6	14.34	6.4
18.16	6.6	14.32	6.44
18.17	6.6	14.26	6.46
18.19	6.62	14.22	6.5
18.20	6.66	14.2	6.54
18.21	6.72	14.2	6.6
18.23	6.74	14.16	6.62
18.24	6.8	14.16	6.68
18.25	6.84	14.16	6.74
18.27	6.9	14.2	6.78
18.28	6.92	14.2	6.84
18.29	6.96	14.2	6.9
18.31	7.02	14.2	6.92
18.32	7.02	14.2	6.92
18.33	7.02	14.22	6.92
18.35	7.02	14.22	6.92
18.36	7.02	14.22	6.96
18.37	7.02	14.26	6.96
18.39	7.02	14.28	6.92
18.40	6.98	14.26	6.92
18.41	6.96	14.28	6.9
18.43	6.92	14.26	6.9
18.44	6.92	14.26	6.84
18.45	6.9	14.22	6.84
18.47	6.86	14.2	6.78
18.48	6.84	14.2	6.74
18.49	6.8	14.16	6.74
18.51	6.74	14.16	6.72
18.52	6.74	14.16	6.68
18.53	6.72	14.12	6.68
18.55	6.68	14.12	6.66
18.56	6.68	14.12	6.62
18.57	6.68	14.12	6.62
18.59	6.66	14.12	6.62
18.60	6.62	14.12	6.6
18.61	6.6	14.12	6.56
18.63	6.6	14.16	6.56
18.64	6.6	14.16	6.5
18.65	6.6	14.2	6.5
18.67	6.56	14.2	6.5
18.68	6.54	14.22	6.46
18.69	6.54	14.26	6.44

18.71	6.5	14.26	6.44
18.72	6.5	14.28	6.44
18.73	6.5	14.28	6.4
18.75	6.5	14.34	6.4
18.76	6.46	14.34	6.4
18.77	6.44	14.34	6.4
18.79	6.44	14.38	6.4
18.80	6.44	14.4	6.4
18.81	6.44	14.44	6.4
18.83	6.4	14.46	6.4
18.84	6.4	14.46	6.4
18.85	6.4	14.52	6.4
18.87	6.4	14.52	6.4
18.88	6.4	14.58	6.4
18.89	6.38	14.62	6.4
18.91	6.38	14.62	6.4
18.92	6.38	14.64	6.4
18.93	6.38	14.7	6.4
18.95	6.38	14.7	6.4
18.96	6.38	14.74	6.4
18.97	6.38	14.8	6.4
18.99	6.38	14.8	6.4
19.00	6.38	14.86	6.4
19.01	6.38	14.9	6.4
19.03	6.38	14.92	6.4
19.04	6.38	14.96	6.4
19.05	6.38	14.98	6.4
19.07	6.38	14.98	6.4
19.08	6.4	15.02	6.4
19.09	6.4	15.04	6.4
19.11	6.4	15.08	6.4
19.12	6.4	15.1	6.4
19.13	6.4	15.14	6.4
19.15	6.4	15.16	6.4
19.16	6.4	15.16	6.4
19.17	6.4	15.16	6.4
19.19	6.44	15.2	6.4

CA003728 - NOPR - GOOD	CA003729 - EXT - GOOD	CA003729 - NOPR - GOOD
13.8	6.04	13.04
13.76	6.04	13
13.76	6.04	13
13.74	6.04	13
12.84	5.96	12.08
10.52	5.74	9.7
8.6	5.58	8.24
7.84	5.5	7.38
6.96	5.44	6.74
6.56	5.4	6.34
6.22	5.38	6.02
6.04	5.34	5.8
5.92	5.34	5.68
5.8	5.34	5.56
5.7	5.34	5.5
5.68	5.32	5.44
5.62	5.32	5.4
5.58	5.28	5.38
5.56	5.28	5.34
5.5	5.28	5.34
5.5	5.28	5.32
5.5	5.28	5.32
5.5	5.28	5.32
5.46	5.24	5.28
5.44	5.24	5.24
5.44	5.28	5.24
5.4	5.28	5.24
5.4	5.28	5.24
5.38	5.24	5.24
5.38	5.24	5.24
5.38	5.28	5.24
5.38	5.28	5.22
5.38	5.28	5.22
5.38	5.24	5.22
5.38	5.24	5.22
5.34	5.24	5.22
5.34	5.24	5.22
5.34	5.28	5.22
5.34	5.24	5.18
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5.34	5.24	5.18
5.34	5.24	5.22
5.32	5.24	5.22
5.32	5.24	5.24
5.34	5.24	5.24

[illegible]

[illegible]

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[illegible]

10.62	5.5	21.4
13.58	5.58	31.86
17.64	5.68	40.38
22.7	5.8	59.02
30.1	5.96	77.12
37.44	6.08	90.92
47.94	6.26	113.9
60.46	6.34	125.94
67.9	6.5	144.68
78.34	6.6	156.32
87.4	6.62	162.56
93.96	6.66	166.2
100.84	6.66	166.42
103.64	6.62	163.76
106.66	6.56	158.78
107.64	6.5	153.36
107.36	6.44	145.38
106.14	6.34	137.08
104.62	6.32	129.76
101.9	6.22	120.94
98.84	6.16	112.58
95.94	6.14	105.46
92.2	6.08	96.4
87.8	6.04	91.44
85.06	5.96	84.22
80.48	5.96	76.7
77.98	5.92	72.58
73.4	5.86	66
69.74	5.86	61.8
66.68	5.82	56.98
63.14	5.8	52.7
59.88	5.76	49.44
57.16	5.76	45.8
54.1	5.74	42.08
51.7	5.7	40.06
48.92	5.7	36.9
45.96	5.68	35.28
44.38	5.68	32.62
41.72	5.68	30.64
40	5.64	29.06
38	5.58	27.38
36.16	5.58	25.88
34.72	5.56	24.66
33.14	5.52	23.38
31.64	5.52	22.4
30.46	5.5	21.12
29.18	5.5	20.18
28.2	5.5	19.4
26.86	5.5	18.58
25.82	5.46	17.94
25.02	5.44	17.22
24.14	5.44	16.58

23.32	5.44	16.06
22.68	5.44	15.48
21.94	5.44	14.86
21.4	5.44	14.52
20.76	5.44	14
20.08	5.44	13.7
19.68	5.44	13.18
19.08	5.44	12.84
18.64	5.44	12.52
18.12	5.44	12.18
17.66	5.4	11.84
17.3	5.4	11.6
16.9	5.38	11.32
16.44	5.38	11.08
16.24	5.34	10.78
15.8	5.34	10.52
15.6	5.38	10.34
15.26	5.34	10.16
14.96	5.34	9.98
14.7	5.34	9.82
14.4	5.34	9.64
14.12	5.34	9.52
13.92	5.34	9.4
13.64	5.34	9.24
13.46	5.34	9.16
13.18	5.34	9.04
12.94	5.34	8.94
12.78	5.34	8.82
12.58	5.34	8.7
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12.24	5.32	8.52
12.08	5.32	8.42
11.96	5.28	8.34
11.82	5.28	8.24
11.68	5.28	8.14
11.6	5.28	8.08
11.44	5.28	8
11.36	5.28	7.94
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11.08	5.28	7.78
10.98	5.24	7.76
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10.68	5.24	7.56
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10.26	5.24	7.36
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10	5.28	7.2
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9.82	5.24	7.14
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9.68	5.28	7.04
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9.52	5.24	6.98
9.46	5.24	6.92
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8	5.24	6.34
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7.84	5.24	6.28
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7.18	5.62	6.16

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7.38	5.68	6.22
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7.38	5.7	6.22
7.38	5.74	6.26
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7.76	5.86	6.46
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7.84	5.88	6.56
7.88	5.88	6.6
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9.18	6.34	6.96
9.18	6.38	7.02
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9.56	6.5	7.12
9.62	6.5	7.14
9.7	6.54	7.18
9.74	6.56	7.18
9.8	6.56	7.2
9.86	6.6	7.24
9.94	6.6	7.26
9.98	6.6	7.3
10.08	6.6	7.32
10.16	6.62	7.32
10.22	6.66	7.36
10.32	6.68	7.38
10.38	6.68	7.38
10.46	6.72	7.42
10.56	6.74	7.42

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10.68	6.84	7.48
10.78	6.84	7.48
10.86	6.84	7.5
10.96	6.86	7.54
10.98	6.9	7.56
11.08	6.92	7.56
11.14	6.92	7.6
11.24	6.96	7.62
11.3	6.96	7.66
11.32	7.02	7.7
11.42	7.02	7.72
11.48	7.02	7.72
11.5	7.04	7.72
11.56	7.08	7.76
11.6	7.08	7.76
11.66	7.12	7.76
11.68	7.14	7.78
11.74	7.14	7.82
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11.88	7.2	7.84
11.94	7.2	7.88
12.02	7.2	7.94
12.06	7.24	7.94
12.14	7.24	8
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12.3	7.26	8.06
12.36	7.3	8.08
12.46	7.3	8.12
12.52	7.32	8.14
12.6	7.36	8.18
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12.76	7.42	8.28
12.78	7.48	8.3
12.84	7.5	8.34
12.9	7.54	8.36
12.94	7.56	8.42
13	7.6	8.46
13.04	7.62	8.48
13.06	7.7	8.54
13.12	7.72	8.58
13.18	7.78	8.6
13.28	7.82	8.64
13.3	7.84	8.64
13.36	7.88	8.64
13.46	7.94	8.66
13.52	7.96	8.66
13.58	8	8.7
13.68	8.06	8.72
13.8	8.08	8.76
13.86	8.12	8.82
13.98	8.14	8.86

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14.28	8.24	8.94
14.38	8.28	9
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14.58	8.36	9.1
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14.9	8.46	9.18
15.02	8.48	9.22
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15.26	8.6	9.34
15.32	8.64	9.34
15.38	8.66	9.4
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15.48	8.7	9.46
15.54	8.72	9.52
15.62	8.72	9.52
15.66	8.76	9.58
15.74	8.76	9.62
15.78	8.78	9.62
15.86	8.78	9.64
15.96	8.82	9.68
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17.02	9.42	10.22
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16.84	9.42	10.22
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9	7.2	7.44
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8.98	7.2	7.38
8.92	7.18	7.38
8.92	7.18	7.38
8.88	7.18	7.38
8.82	7.14	7.38
8.82	7.12	7.38
8.78	7.12	7.38
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8.72	7.08	7.38
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8.54	6.96	7.38
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8.52	6.92	7.36
8.48	6.92	7.32
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8.08	6.84	6.92
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8.02	6.78	6.84
7.96	6.74	6.78
7.9	6.74	6.74
7.88	6.68	6.68
7.82	6.68	6.68
7.76	6.66	6.66
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7.62	6.6	6.6
7.6	6.54	6.56
7.54	6.5	6.54

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7.42	6.4	6.5
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7.38	6.38	6.5
7.32	6.34	6.46
7.3	6.34	6.44
7.26	6.34	6.4
7.24	6.34	6.4
7.2	6.32	6.38
7.18	6.32	6.38
7.14	6.28	6.34
7.08	6.26	6.32
7.02	6.22	6.32
7.02	6.22	6.32
6.96	6.2	6.28
6.92	6.2	6.28
6.9	6.16	6.28
6.86	6.16	6.26
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6.46	5.98	6.4
7.08	5.96	8.14
8.6	5.98	9.24
9.98	5.98	10.16
10.9	5.96	10.68
11.44	5.96	11.14
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12.18	5.96	11.66
12.46	5.96	11.82
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12.76	5.96	12.02
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13.24	6.16	12.82
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13.58	6.38	13.86
14.04	6.6	15.04
14.62	6.84	15.96
15.32	7.26	18.18
16.42	7.76	20.44
17.52	8.3	22.7
19.2	9	25.58
21.02	9.62	27.9
22.58	10.4	30.64
24.44	11.16	33.12
26.28	11.54	34.08
27.28	11.96	34.94
28.02	12.08	34.8
28.16	12	33.94
27.8	11.72	32.38
27	11.38	30.74
26	10.8	28.36
24.54	10.1	25.98
23.04	9.68	24.02
21.7	8.98	21.82
19.98	8.6	19.92
19.08	8	18.52
17.66	7.6	16.94
16.7	7.32	16.2

16.06	7.04	15.1
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14.96	6.72	14
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13.24	6.78	12.52
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13.42	6.46	12.82
13.46	6.44	12.84

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13.54	6.4	13
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13.74	6.38	13.28
13.8	6.38	13.3
13.82	6.38	13.36
13.88	6.38	13.4
13.92	6.34	13.46
13.94	6.34	13.48
14	6.34	13.54
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14.12	6.34	13.64
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14.56	6.38	14.04
14.56	6.38	14.04
14.56	6.38	14.04
14.58	6.4	14.04

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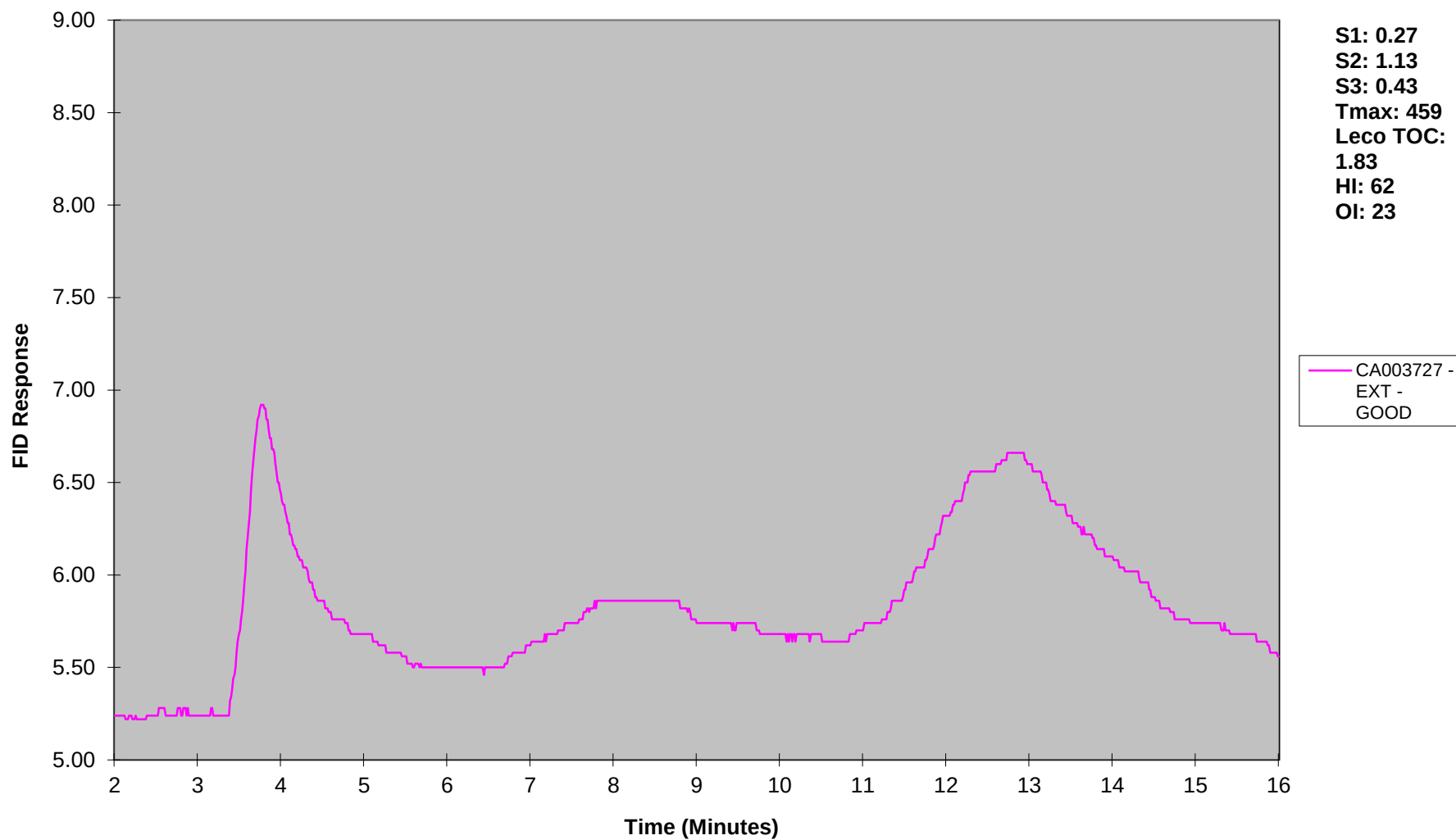
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14.28	5.96
14.28	5.96
14.28	5.96
14.28	5.96
14.28	5.96
14.28	5.96
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14.28	5.96
14.28	5.96
14.32	5.96
14.34	5.98
14.44	6.02
14.62	6.04
14.92	6.14
15.26	6.22
16.14	6.4
17.22	6.68
18.52	6.98
20.44	7.44
22.36	7.84
25.12	8.48
27.96	9.24
30.36	9.68
33.42	10.32
35.1	10.74
36.46	10.96
37.04	11.04
36.8	10.96
35.74	10.68
34.12	10.32
32.32	9.88
29.96	9.34
28.04	8.82
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23.2	7.88
21.94	7.6
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18.76	6.92
17.88	6.74

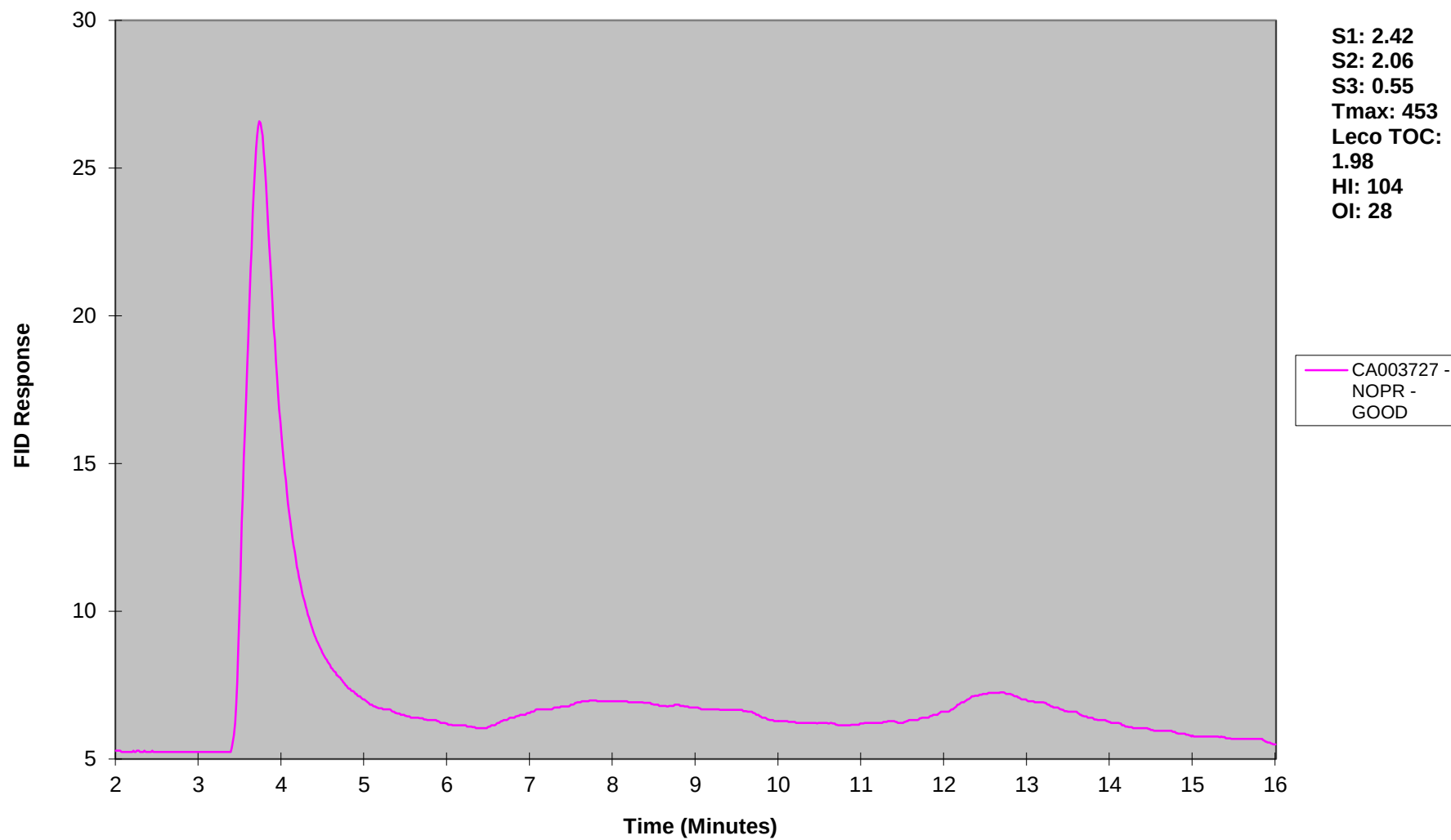
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14.7	6.26
14.64	6.26
14.62	6.28
14.56	6.32
14.52	6.38
14.52	6.44
14.52	6.5
14.52	6.54
14.56	6.6
14.56	6.66
14.52	6.68
14.56	6.74
14.56	6.74
14.52	6.78
14.52	6.8
14.52	6.8
14.52	6.8
14.52	6.78
14.5	6.74
14.46	6.74
14.46	6.72
14.44	6.68
14.44	6.66
14.44	6.62
14.44	6.6
14.4	6.56
14.4	6.54
14.4	6.5
14.4	6.46
14.4	6.44
14.4	6.4
14.4	6.4
14.4	6.34
14.4	6.34
14.4	6.32
14.4	6.32
14.4	6.32
14.4	6.28
14.4	6.28
14.4	6.26
14.44	6.26
14.44	6.22
14.44	6.22
14.46	6.22

14.5	6.22
14.52	6.22
14.52	6.22
14.52	6.2
14.56	6.2
14.56	6.2
14.58	6.2
14.62	6.2
14.62	6.22
14.62	6.22
14.64	6.22
14.68	6.22
14.7	6.22
14.7	6.26
14.7	6.26
14.74	6.28
14.74	6.28
14.78	6.32
14.8	6.32
14.8	6.32
14.8	6.32
14.84	6.32
14.86	6.32
14.9	6.32
14.9	6.32
14.9	6.32
14.92	6.34
14.92	6.34
14.96	6.38
14.96	6.4
14.96	6.4
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14.98	6.46
14.98	6.5
15.02	6.5
15.02	6.5

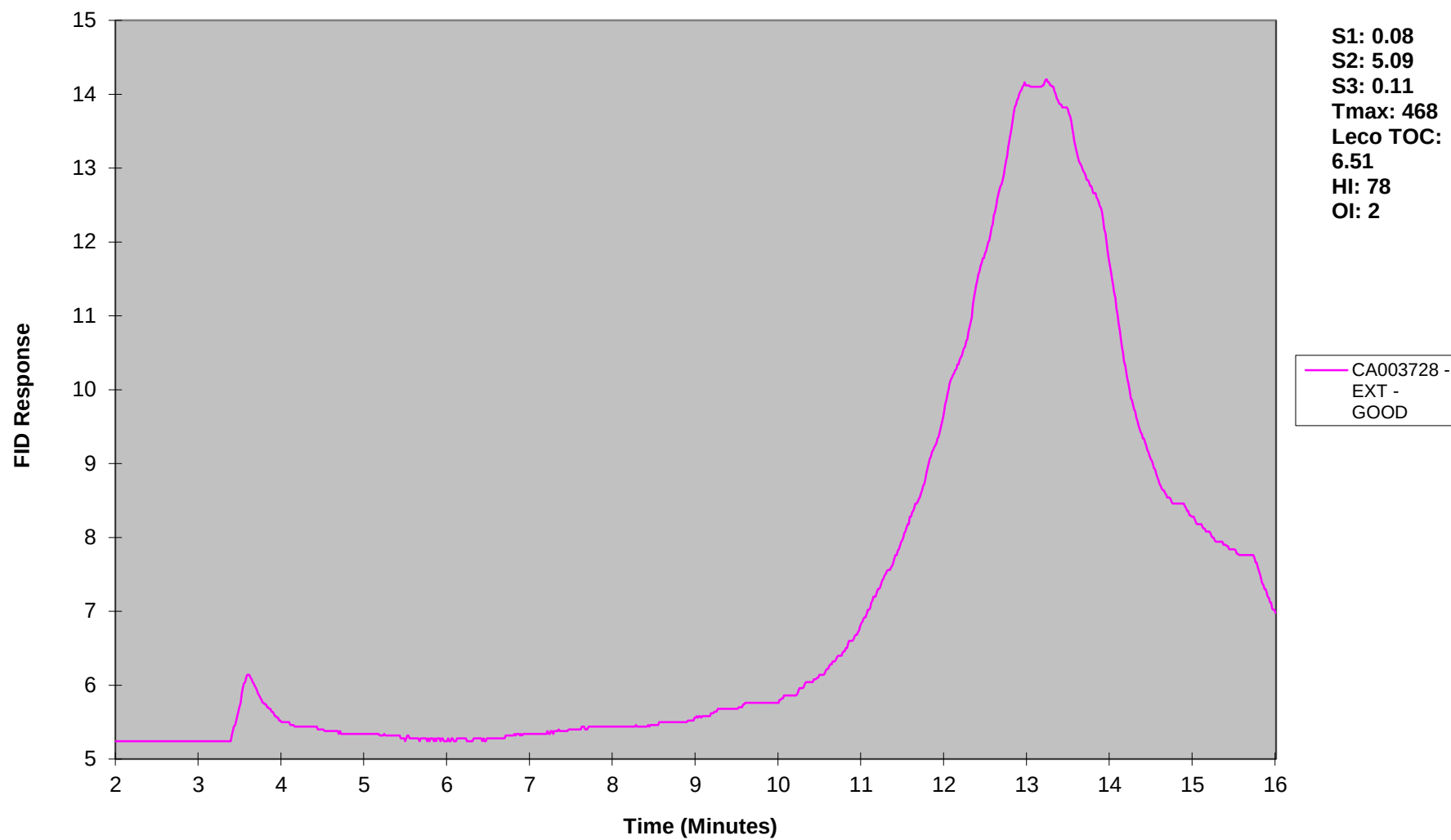
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Well Name: COPRC LOON CREEK O-06, Depth: 1661.80



Lab ID: CP315956, Client ID: CA003727, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1661.80

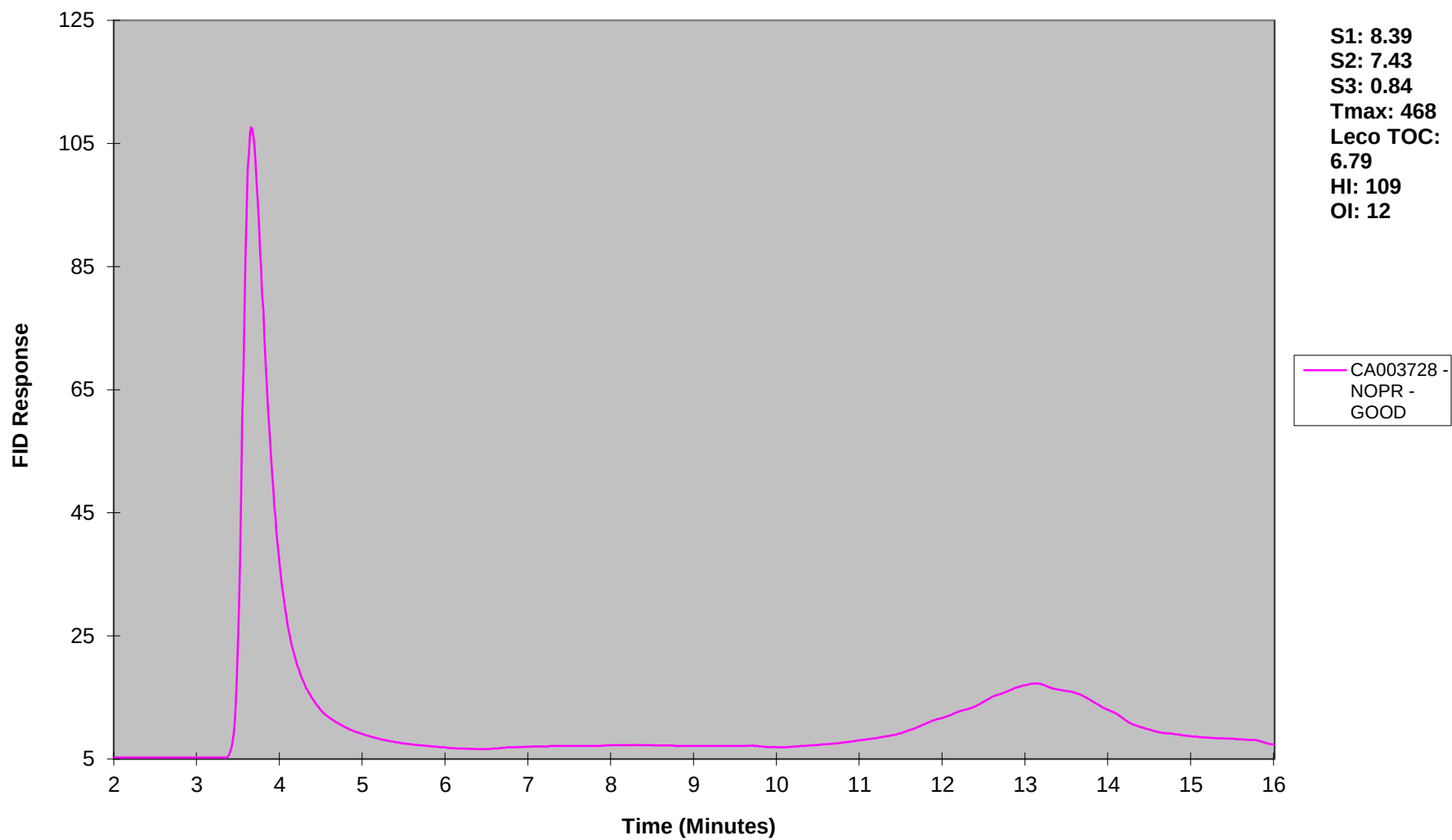


Lab ID: CP315957, Client ID: CA003728, Prep: EXT
Well Name: COPRC LOON CREEK O-06, Depth: 1701.27

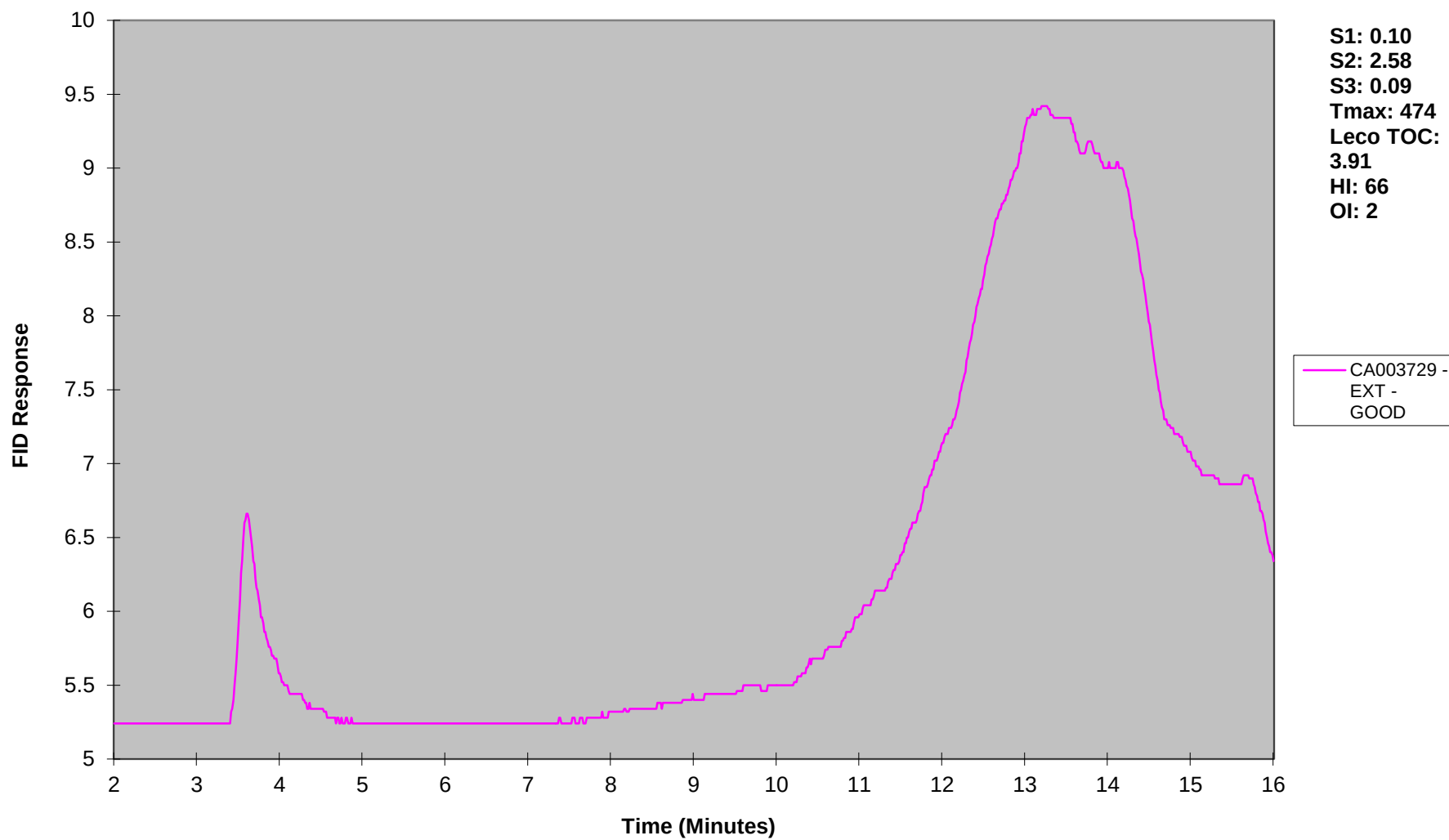


S1: 0.08
S2: 5.09
S3: 0.11
Tmax: 468
Leco TOC:
6.51
HI: 78
OI: 2

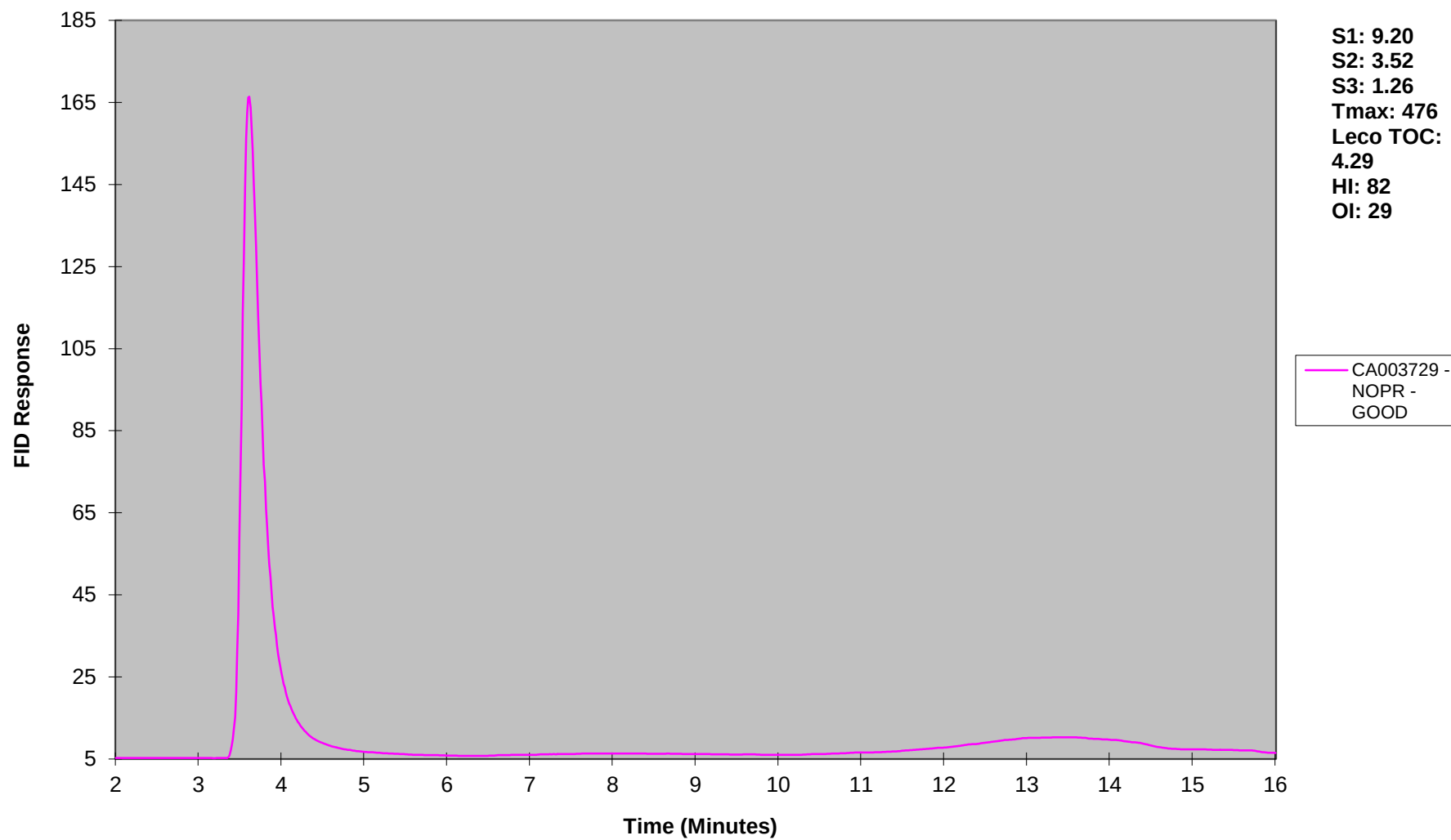
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Well Name: COPRC LOON CREEK O-06, Depth: 1701.27



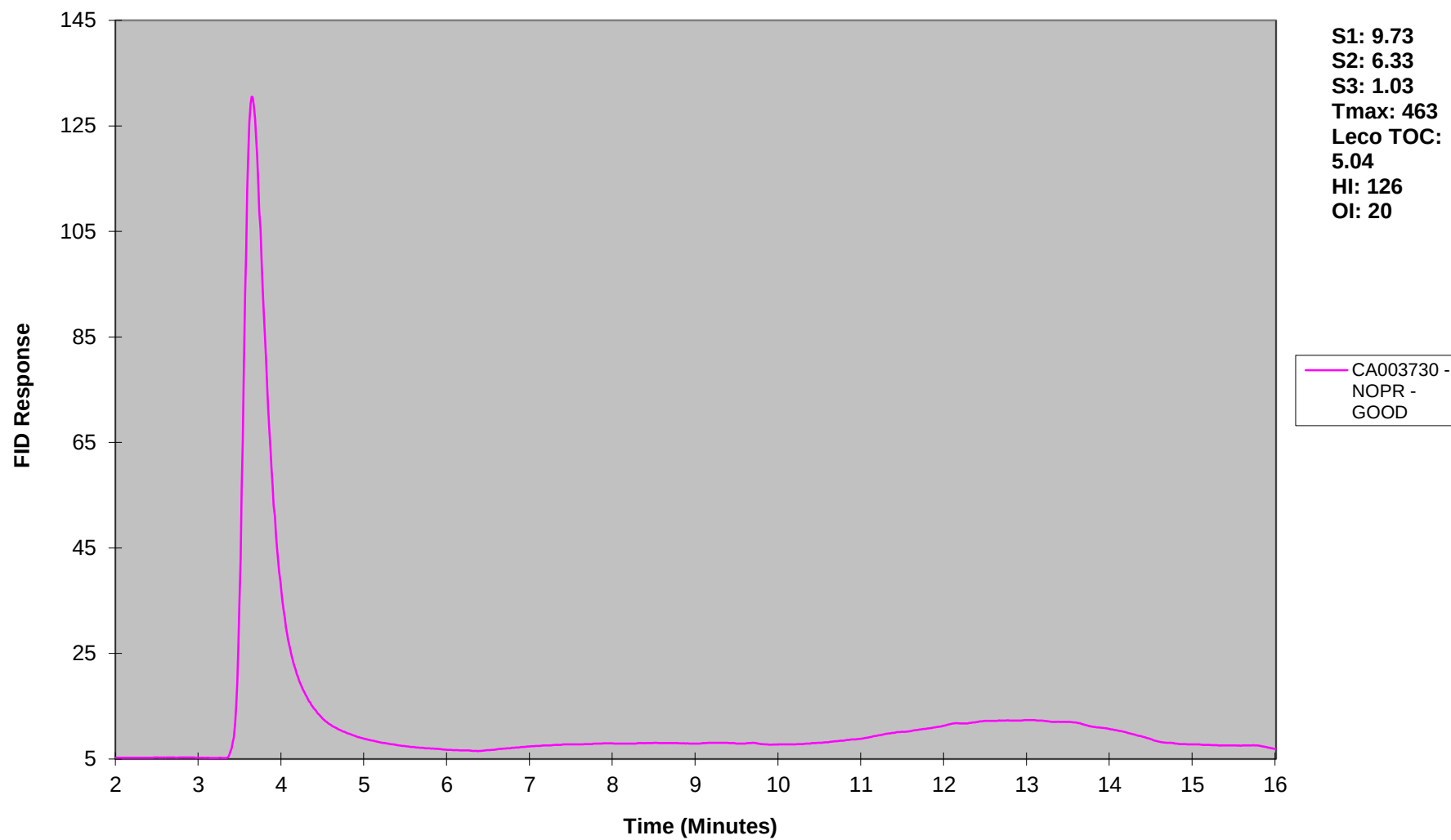
Lab ID: CP315958, Client ID: CA003729, Prep: EXT
Well Name: COPRC LOON CREEK O-06, Depth: 1751.21



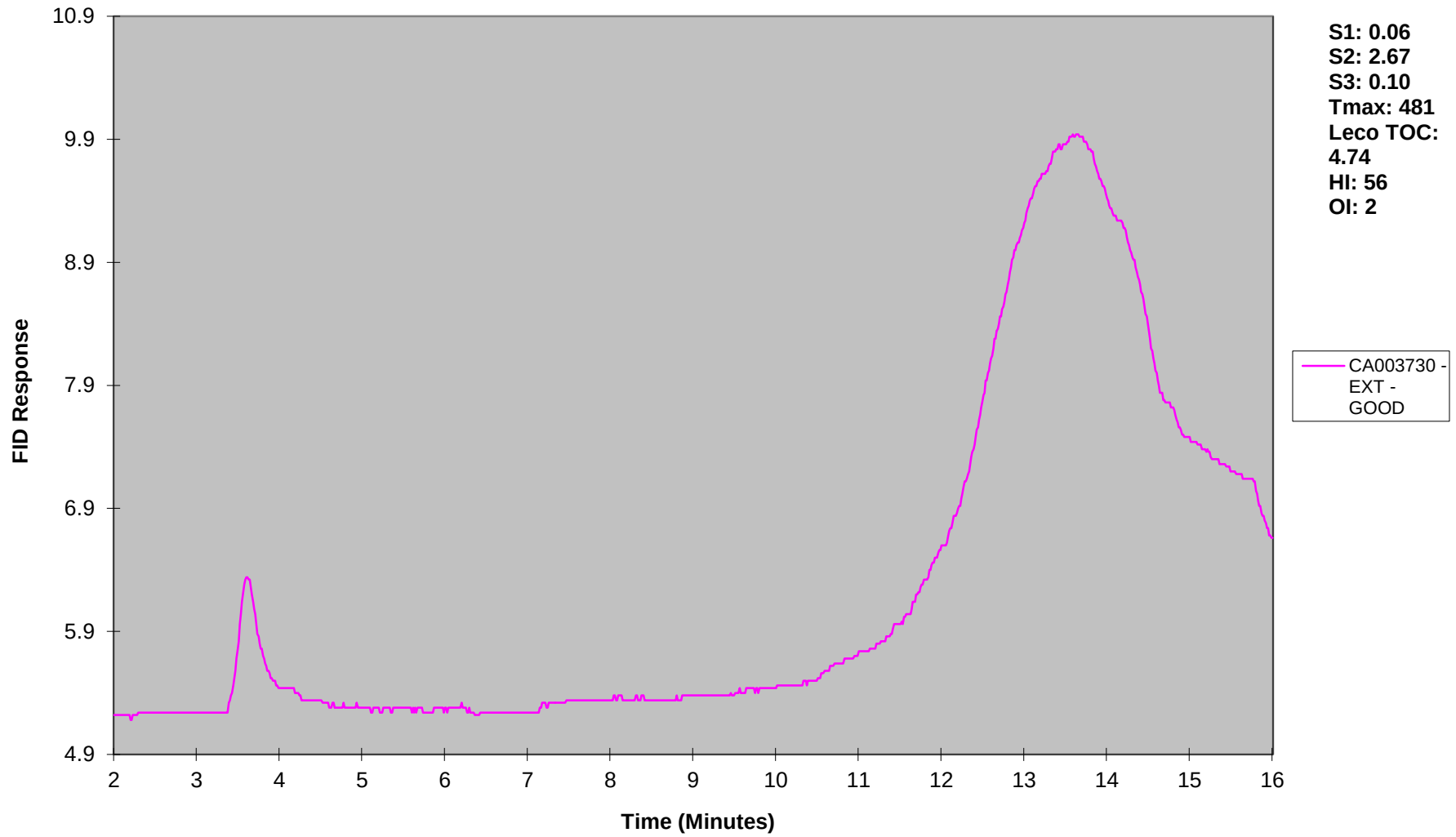
Lab ID: CP315958, Client ID: CA003729, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1751.21



Lab ID: CP315959, Client ID: CA003730, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1777.20



Lab ID: CP315959, Client ID: CA003730, Prep: EXT
Well Name: COPRC LOON CREEK O-06, Depth: 1777.20



REQNUM: BH-63173

LAB ID	CLIENT ID	PREP	WELL NAME	TOP DEPTH	BASE DEPTH	S1	S2	S3
CP316263	CA003731	NOPR	COPRC LOON CREEK O-06	1624.12		1.78	2.18	0.55
CP316264	CA003732	NOPR	COPRC LOON CREEK O-06	1633.46		1.54	1.70	0.45
CP316265	CA003733	NOPR	COPRC LOON CREEK O-06	1640.81		1.94	1.92	0.48
CP316266	CA003734	NOPR	COPRC LOON CREEK O-06	1645.5		3.31	4.06	0.47
CP316267	CA003735	NOPR	COPRC LOON CREEK O-06	1656.53		2.02	2.43	0.55
CP316268	CA003736	NOPR	COPRC LOON CREEK O-06	1667.12		2.64	2.98	0.53
CP316269	CA003737	NOPR	COPRC LOON CREEK O-06	1675.65		2.32	2.16	0.5
CP316270	CA003738	NOPR	COPRC LOON CREEK O-06	1681.45		3.02	3.59	0.5
CP316271	CA003739	NOPR	COPRC LOON CREEK O-06	1688.67		1.97	2.25	0.52
CP316272	CA003740	NOPR	COPRC LOON CREEK O-06	1691.77		3.09	3.59	0.51
CP316273	CA003741	NOPR	COPRC LOON CREEK O-06	1696.08		4.07	3.73	0.5
CP316274	CA003742	NOPR	COPRC LOON CREEK O-06	1698.65		4.52	4.36	0.51
CP316275	CA003743	NOPR	COPRC LOON CREEK O-06	1703.1		3.54	2.7	0.49
CP316276	CA003744	NOPR	COPRC LOON CREEK O-06	1706.66		2.33	2.96	0.41
CP316277	CA003745	NOPR	COPRC LOON CREEK O-06	1711.86		2.45	2.64	0.5
CP316278	CA003746	NOPR	COPRC LOON CREEK O-06	1716.67		3.53	3.04	0.46
CP316279	CA003747	NOPR	COPRC LOON CREEK O-06	1719.46		5.68	6.89	0.54
CP316280	CA003748	NOPR	COPRC LOON CREEK O-06	1723.68		5.07	3.91	0.46
CP316281	CA003749	NOPR	COPRC LOON CREEK O-06	1727.17		3.77	3.38	0.51
CP316282	CA003750	NOPR	COPRC LOON CREEK O-06	1730.99		2.98	1.98	0.6
CP316283	CA003751	NOPR	COPRC LOON CREEK O-06	1737.55		3.94	3.66	0.64
CP316284	CA003752	NOPR	COPRC LOON CREEK O-06	1740.77		3.63	3.6	0.57
CP316285	CA003753	NOPR	COPRC LOON CREEK O-06	1742.17		3.89	3.49	0.51
CP316286	CA003754	NOPR	COPRC LOON CREEK O-06	1746.35		3.41	2.77	0.52
CP316287	CA003755	NOPR	COPRC LOON CREEK O-06	1754.71		4.89	5.22	0.53
CP316288	CA003756	NOPR	COPRC LOON CREEK O-06	1759.1		3.51	3.96	0.58
CP316289	CA003757	NOPR	COPRC LOON CREEK O-06	1762.91		4.82	6.65	0.58
CP316290	CA003758	NOPR	COPRC LOON CREEK O-06	1767.31		4.8	4.05	0.54
CP316291	CA003759	NOPR	COPRC LOON CREEK O-06	1770.07		5.56	3.37	0.6
CP316292	CA003760	NOPR	COPRC LOON CREEK O-06	1773.14		7.37	7.86	0.5
CP316293	CA003761	NOPR	COPRC LOON CREEK O-06	1782.5		5.67	4.8	0.53
CP316294	CA003762	NOPR	COPRC LOON CREEK O-06	1789.03		1.97	2.07	0.42
CP316295	CA003763	NOPR	COPRC LOON CREEK O-06	1792.13		3.27	3.34	0.48
CP316296	CA003764	NOPR	COPRC LOON CREEK O-06	1796.09		3.76	4.79	0.51
CP316297	CA003765	NOPR	COPRC LOON CREEK O-06	1804.46		4.57	5.52	0.49
CP316298	CA003766	NOPR	COPRC LOON CREEK O-06	1810.53		0.06	0.05	0.27

TMAX LECO TOC HI OI

461

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457

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Time (Minutes)	Temp °C	CA003731 - NOPR - GOOD	CA003732 - NOPR - GOOD
0.00		36.62	36.66
0.01		36.62	36.66
0.03		36.62	36.66
0.04		36.66	36.66
0.05		32.62	31.64
0.07		24.62	25.06
0.08		18.86	19.14
0.09		15.48	15.66
0.11		12.60	12.76
0.12		10.92	10.78
0.13		9.50	9.64
0.15		8.54	8.7
0.16		8.02	8.06
0.17		7.56	7.7
0.19		7.30	7.38
0.20		7.12	7.2
0.21		6.98	7.08
0.23		6.90	6.96
0.24		6.84	6.9
0.25		6.80	6.84
0.27		6.80	6.8
0.28		6.78	6.8
0.29		6.78	6.78
0.31		6.74	6.74
0.32		6.72	6.74
0.33		6.72	6.72
0.35		6.72	6.72
0.36		6.68	6.72
0.37		6.68	6.72
0.39		6.68	6.68
0.40		6.66	6.68
0.41		6.62	6.66
0.43		6.62	6.62
0.44		6.62	6.62
0.45		6.62	6.62
0.47		6.62	6.62
0.48		6.60	6.62
0.49		6.60	6.62
0.51		6.60	6.6
0.52		6.60	6.6
0.53		6.56	6.6
0.55		6.56	6.56
0.56		6.56	6.56
0.57		6.56	6.56
0.59		6.56	6.56
0.60		6.56	6.56
0.61		6.56	6.56
0.63		6.56	6.56
0.64		6.56	6.56
0.65		6.56	6.56
0.67		6.56	6.56

0.68	6.56	6.56
0.69	6.56	6.56
0.71	6.56	6.56
0.72	6.56	6.56
0.73	6.56	6.56
0.75	6.56	6.56
0.76	6.56	6.56
0.77	6.54	6.56
0.79	6.54	6.56
0.80	6.54	6.56
0.81	6.54	6.56
0.83	6.54	6.56
0.84	6.54	6.6
0.85	6.54	6.6
0.87	6.54	6.6
0.88	6.54	6.6
0.89	6.54	6.6
0.91	6.54	6.6
0.92	6.54	6.62
0.93	6.54	6.6
0.95	6.54	6.6
0.96	6.54	6.6
0.97	6.54	6.6
0.99	6.50	6.6
1.00	6.54	6.6
1.01	6.54	6.6
1.03	6.50	6.6
1.04	6.50	6.6
1.05	6.50	6.6
1.07	6.50	6.6
1.08	6.54	6.56
1.09	6.54	6.6
1.11	6.54	6.6
1.12	6.54	6.56
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1.15	6.54	6.56
1.16	6.54	6.56
1.17	6.54	6.56
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1.21	6.54	6.56
1.23	6.54	6.56
1.24	6.54	6.56
1.25	6.54	6.56
1.27	6.54	6.56
1.28	6.50	6.54
1.29	6.50	6.54
1.31	6.54	6.54
1.32	6.50	6.56
1.33	6.54	6.56
1.35	6.50	6.54
1.36	6.50	6.54

1.37	6.50	6.56
1.39	6.54	6.54
1.40	6.50	6.54
1.41	6.50	6.54
1.43	6.50	6.56
1.44	6.50	6.54
1.45	6.50	6.54
1.47	6.50	6.56
1.48	6.50	6.54
1.49	6.50	6.54
1.51	6.50	6.54
1.52	6.54	6.54
1.53	6.54	6.54
1.55	6.50	6.54
1.56	6.50	6.54
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1.59	6.46	6.54
1.60	6.46	6.54
1.61	6.46	6.54
1.63	6.46	6.54
1.64	6.46	6.54
1.65	6.46	6.54
1.67	6.46	6.54
1.68	6.46	6.54
1.69	6.46	6.54
1.71	6.46	6.54
1.72	6.46	6.54
1.73	6.46	6.54
1.75	6.46	6.54
1.76	6.46	6.54
1.77	6.46	6.54
1.79	6.46	6.54
1.80	6.44	6.54
1.81	6.46	6.54
1.83	6.46	6.5
1.84	6.46	6.54
1.85	6.46	6.54
1.87	6.46	6.54
1.88	6.46	6.54
1.89	6.46	6.54
1.91	6.44	6.54
1.92	6.44	6.5
1.93	6.44	6.5
1.95	6.44	6.5
1.96	6.44	6.5
1.97	6.44	6.5
1.99	6.44	6.5
2.00	6.44	6.5
2.01	6.44	6.5
2.03	6.44	6.5
2.04	6.44	6.5
2.05	6.44	6.5

2.07	6.44	6.5
2.08	6.46	6.5
2.09	6.46	6.5
2.11	6.46	6.5
2.12	6.46	6.5
2.13	6.46	6.5
2.15	6.46	6.5
2.16	6.46	6.5
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2.55	6.46	6.5
2.56	6.46	6.46
2.57	6.46	6.46
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2.60	6.46	6.46
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2.64	6.46	6.46
2.65	6.50	6.46
2.67	6.50	6.46
2.68	6.50	6.44
2.69	6.54	6.44
2.71	6.54	6.44
2.72	6.54	6.46
2.73	6.54	6.46
2.75	6.54	6.46

2.76	6.54	6.5
2.77	6.54	6.5
2.79	6.54	6.5
2.80	6.54	6.5
2.81	6.54	6.5
2.83	6.54	6.5
2.84	6.54	6.5
2.85	6.54	6.54
2.87	6.54	6.5
2.88	6.54	6.5
2.89	6.54	6.5
2.91	6.54	6.5
2.92	6.54	6.5
2.93	6.54	6.5
2.95	6.54	6.5
2.96	6.54	6.5
2.97	6.54	6.46
2.99	6.54	6.5
3.00	6.54	6.5
3.01	6.54	6.5
3.03	6.54	6.5
3.04	6.54	6.5
3.05	6.54	6.5
3.07	6.54	6.5
3.08	6.54	6.5
3.09	6.54	6.5
3.11	6.54	6.5
3.12	6.54	6.5
3.13	6.54	6.5
3.15	6.54	6.5
3.16	6.54	6.5
3.17	6.54	6.5
3.19	6.54	6.5
3.20	6.54	6.5
3.21	6.54	6.5
3.23	6.54	6.5
3.24	6.54	6.5
3.25	6.54	6.5
3.27	6.54	6.5
3.28	6.54	6.5
3.29	6.54	6.5
3.31	6.54	6.5
3.32	6.54	6.5
3.33	6.54	6.5
3.35	6.54	6.46
3.36	6.54	6.46
3.37	6.54	6.46
3.39	6.54	6.54
3.40	6.54	6.56
3.41	6.56	6.66
3.43	6.60	6.78
3.44	6.72	6.96

3.45	6.84	7.24
3.47	6.98	7.5
3.48	7.26	8
3.49	7.60	8.48
3.51	8.06	8.88
3.52	8.58	9.34
3.53	9.06	9.74
3.55	9.74	10.1
3.56	10.46	10.46
3.57	11.10	10.8
3.59	11.94	11.2
3.60	12.72	11.62
3.61	13.46	12
3.63	14.32	12.46
3.64	15.02	13.04
3.65	15.94	13.4
3.67	16.72	13.98
3.68	17.36	14.28
3.69	18.06	14.8
3.71	18.68	15.16
3.72	19.04	15.32
3.73	19.34	15.48
3.75	19.40	15.48
3.76	19.26	15.38
3.77	18.96	15.2
3.79	18.64	14.92
3.80	17.98	14.58
3.81	17.46	14.22
3.83	16.72	13.86
3.84	16.02	13.46
3.85	15.38	13.06
3.87	14.68	12.7
3.88	14.04	12.3
3.89	13.52	12
3.91	12.96	11.66
3.92	12.58	11.36
3.93	12.12	11.1
3.95	11.72	10.86
3.96	11.44	10.66
3.97	11.14	10.46
3.99	10.86	10.28
4.00	10.66	10.16
4.01	10.44	10
4.03	10.28	9.88
4.04	10.10	9.82
4.05	9.92	9.7
4.07	9.80	9.62
4.08	9.68	9.52
4.09	9.50	9.4
4.11	9.40	9.34
4.12	9.24	9.28
4.13	9.12	9.16

4.15	9.00	9.1
4.16	8.86	9.04
4.17	8.78	8.94
4.19	8.70	8.88
4.20	8.58	8.78
4.21	8.54	8.76
4.23	8.46	8.66
4.24	8.40	8.6
4.25	8.34	8.58
4.27	8.24	8.48
4.28	8.20	8.46
4.29	8.14	8.4
4.31	8.08	8.34
4.32	8.06	8.34
4.33	7.96	8.24
4.35	7.96	8.24
4.36	7.90	8.2
4.37	7.88	8.14
4.39	7.84	8.14
4.40	7.78	8.12
4.41	7.78	8.08
4.43	7.76	8.06
4.44	7.72	8.02
4.45	7.70	7.96
4.47	7.66	7.96
4.48	7.60	7.94
4.49	7.60	7.9
4.51	7.60	7.88
4.52	7.56	7.84
4.53	7.54	7.82
4.55	7.50	7.78
4.56	7.50	7.78
4.57	7.50	7.76
4.59	7.48	7.72
4.60	7.44	7.7
4.61	7.42	7.7
4.63	7.42	7.66
4.64	7.38	7.62
4.65	7.36	7.6
4.67	7.32	7.6
4.68	7.32	7.56
4.69	7.32	7.56
4.71	7.32	7.54
4.72	7.30	7.54
4.73	7.30	7.54
4.75	7.26	7.5
4.76	7.24	7.5
4.77	7.24	7.48
4.79	7.24	7.48
4.80	7.20	7.48
4.81	7.18	7.48
4.83	7.14	7.44

4.84	7.14	7.44
4.85	7.14	7.42
4.87	7.14	7.42
4.88	7.14	7.42
4.89	7.14	7.42
4.91	7.14	7.38
4.92	7.12	7.38
4.93	7.12	7.36
4.95	7.08	7.32
4.96	7.08	7.32
4.97	7.08	7.32
4.99	7.08	7.32
5.00	7.04	7.32
5.01	7.04	7.3
5.03	7.02	7.3
5.04	7.02	7.3
5.05	6.98	7.3
5.07	6.98	7.3
5.08	6.98	7.26
5.09	6.98	7.26
5.11	6.96	7.24
5.12	6.96	7.24
5.13	6.96	7.24
5.15	6.96	7.2
5.16	6.96	7.2
5.17	6.96	7.2
5.19	6.96	7.2
5.20	6.96	7.18
5.21	6.92	7.18
5.23	6.92	7.18
5.24	6.92	7.14
5.25	6.92	7.14
5.27	6.92	7.14
5.28	6.92	7.14
5.29	6.90	7.12
5.31	6.90	7.12
5.32	6.90	7.12
5.33	6.90	7.08
5.35	6.90	7.08
5.36	6.90	7.08
5.37	6.86	7.08
5.39	6.86	7.08
5.40	6.86	7.08
5.41	6.86	7.08
5.43	6.86	7.08
5.44	6.86	7.08
5.45	6.86	7.08
5.47	6.86	7.08
5.48	6.86	7.08
5.49	6.86	7.08
5.51	6.86	7.08
5.52	6.86	7.04

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5.55	6.86	7.04
5.56	6.86	7.04
5.57	6.86	7.04
5.59	6.86	7.04
5.60	6.86	7.02
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5.63	6.86	7.02
5.64	6.86	6.98
5.65	6.86	6.98
5.67	6.84	6.98
5.68	6.84	6.98
5.69	6.84	6.98
5.71	6.84	6.96
5.72	6.80	6.96
5.73	6.84	6.96
5.75	6.84	6.96
5.76	6.84	6.92
5.77	6.80	6.92
5.79	6.80	6.92
5.80	6.80	6.92
5.81	6.80	6.92
5.83	6.80	6.92
5.84	6.80	6.9
5.85	6.80	6.9
5.87	6.80	6.9
5.88	6.80	6.9
5.89	6.80	6.9
5.91	6.80	6.9
5.92	6.80	6.9
5.93	6.80	6.9
5.95	6.80	6.9
5.96	6.80	6.9
5.97	6.80	6.9
5.99	6.78	6.9
6.00	6.78	6.9
6.01	6.74	6.9
6.03	6.74	6.9
6.04	6.74	6.9
6.05	6.74	6.9
6.07	6.74	6.9
6.08	6.74	6.9
6.09	6.74	6.9
6.11	6.72	6.9
6.12	6.72	6.9
6.13	6.72	6.9
6.15	6.72	6.9
6.16	6.72	6.9
6.17	6.72	6.9
6.19	6.72	6.86
6.20	6.72	6.86
6.21	6.72	6.86

6.23	6.72	6.86
6.24	6.72	6.86
6.25	6.72	6.86
6.27	6.72	6.86
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6.32	6.72	6.9
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6.35	6.72	6.86
6.36	6.72	6.86
6.37	6.72	6.86
6.39	6.72	6.86
6.40	6.72	6.86
6.41	6.72	6.86
6.43	6.72	6.9
6.44	6.72	6.86
6.45	6.72	6.9
6.47	6.72	6.9
6.48	6.72	6.9
6.49	6.72	6.9
6.51	6.74	6.9
6.52	6.74	6.86
6.53	6.74	6.9
6.55	6.78	6.9
6.56	6.78	6.9
6.57	6.80	6.92
6.59	6.80	6.92
6.60	6.80	6.96
6.61	6.80	6.96
6.63	6.80	6.98
6.64	6.80	6.98
6.65	6.80	6.98
6.67	6.84	6.98
6.68	6.84	6.98
6.69	6.84	6.98
6.71	6.84	6.98
6.72	6.86	6.98
6.73	6.86	6.98
6.75	6.86	7.02
6.76	6.86	7.02
6.77	6.86	7.02
6.79	6.86	7.02
6.80	6.86	7.02
6.81	6.86	7.02
6.83	6.86	7.02
6.84	6.86	7.04
6.85	6.86	7.08
6.87	6.86	7.08
6.88	6.90	7.08
6.89	6.90	7.08
6.91	6.90	7.08

6.92	6.90	7.08
6.93	6.90	7.12
6.95	6.90	7.12
6.96	6.90	7.12
6.97	6.90	7.12
6.99	6.90	7.12
7.00	6.90	7.12
7.01	6.90	7.12
7.03	6.92	7.14
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7.07	6.92	7.14
7.08	6.92	7.14
7.09	6.96	7.14
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7.12	6.96	7.14
7.13	6.96	7.14
7.15	6.96	7.14
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7.27	6.96	7.14
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7.29	6.96	7.18
7.31	6.96	7.18
7.32	6.96	7.18
7.33	6.96	7.18
7.35	6.96	7.18
7.36	6.96	7.18
7.37	6.96	7.18
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7.52	6.98	7.2
7.53	6.98	7.2
7.55	6.98	7.2
7.56	6.98	7.2
7.57	6.98	7.24
7.59	7.02	7.2
7.60	7.02	7.2

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7.63	7.02	7.24
7.64	7.02	7.24
7.65	7.04	7.24
7.67	7.04	7.24
7.68	7.04	7.24
7.69	7.08	7.24
7.71	7.04	7.24
7.72	7.04	7.24
7.73	7.08	7.24
7.75	7.08	7.26
7.76	7.08	7.26
7.77	7.08	7.26
7.79	7.08	7.26
7.80	7.08	7.26
7.81	7.08	7.24
7.83	7.08	7.24
7.84	7.08	7.26
7.85	7.12	7.26
7.87	7.08	7.26
7.88	7.12	7.26
7.89	7.12	7.26
7.91	7.12	7.26
7.92	7.12	7.26
7.93	7.12	7.26
7.95	7.12	7.24
7.96	7.12	7.26
7.97	7.12	7.26
7.99	7.12	7.26
8.00	7.12	7.26
8.01	7.12	7.26
8.03	7.12	7.26
8.04	7.12	7.3
8.05	7.12	7.3
8.07	7.12	7.32
8.08	7.12	7.3
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8.12	7.12	7.3
8.13	7.12	7.3
8.15	7.12	7.3
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8.23	7.12	7.26
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8.25	7.12	7.24
8.27	7.12	7.26
8.28	7.12	7.24
8.29	7.12	7.24

8.31	7.12	7.24
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8.33	7.12	7.24
8.35	7.12	7.24
8.36	7.12	7.24
8.37	7.12	7.24
8.39	7.12	7.24
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8.41	7.12	7.24
8.43	7.12	7.2
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8.45	7.12	7.2
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8.48	7.12	7.2
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8.53	7.14	7.2
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8.57	7.14	7.2
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8.71	7.14	7.2
8.72	7.14	7.2
8.73	7.12	7.2
8.75	7.12	7.24
8.76	7.12	7.24
8.77	7.14	7.24
8.79	7.14	7.24
8.80	7.14	7.24
8.81	7.14	7.24
8.83	7.14	7.24
8.84	7.14	7.24
8.85	7.14	7.24
8.87	7.14	7.2
8.88	7.14	7.2
8.89	7.14	7.18
8.91	7.14	7.18
8.92	7.14	7.2
8.93	7.14	7.2
8.95	7.14	7.18
8.96	7.14	7.18
8.97	7.14	7.18
8.99	7.14	7.18

9.00	7.14	7.18
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9.03	7.14	7.18
9.04	7.14	7.18
9.05	7.14	7.18
9.07	7.14	7.14
9.08	7.14	7.14
9.09	7.14	7.14
9.11	7.14	7.14
9.12	7.18	7.14
9.13	7.18	7.14
9.15	7.18	7.14
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9.33	7.14	7.14
9.35	7.14	7.18
9.36	7.14	7.18
9.37	7.12	7.18
9.39	7.12	7.14
9.40	7.12	7.14
9.41	7.12	7.14
9.43	7.12	7.14
9.44	7.12	7.14
9.45	7.12	7.14
9.47	7.12	7.14
9.48	7.12	7.14
9.49	7.12	7.14
9.51	7.12	7.14
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9.67	7.12	7.12
9.68	7.12	7.12

9.69	7.12	7.12
9.71	7.12	7.12
9.72	7.12	7.08
9.73	7.12	7.04
9.75	7.08	7.04
9.76	7.08	7.04
9.77	7.08	7.08
9.79	7.08	7.08
9.80	7.12	7.12
9.81	7.12	7.12
9.83	7.12	7.12
9.84	7.12	7.14
9.85	7.14	7.14
9.87	7.14	7.14
9.88	7.14	7.14
9.89	7.14	7.14
9.91	7.14	7.14
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9.93	7.14	7.14
9.95	7.14	7.14
9.96	7.14	7.14
9.97	7.14	7.14
9.99	7.14	7.14
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10.16	7.2	7.14
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10.19	7.24	7.12
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10.23	7.24	7.08
10.24	7.24	7.08
10.25	7.24	7.08
10.27	7.24	7.08
10.28	7.2	7.08
10.29	7.24	7.08
10.31	7.24	7.08
10.32	7.24	7.08
10.33	7.24	7.08
10.35	7.24	7.08
10.36	7.26	7.08
10.37	7.26	7.08

10.39	7.26	7.08
10.40	7.26	7.08
10.41	7.3	7.12
10.43	7.3	7.12
10.44	7.3	7.12
10.45	7.3	7.12
10.47	7.3	7.12
10.48	7.3	7.12
10.49	7.32	7.12
10.51	7.32	7.12
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10.61	7.32	7.12
10.63	7.32	7.12
10.64	7.32	7.12
10.65	7.36	7.12
10.67	7.36	7.12
10.68	7.38	7.14
10.69	7.42	7.14
10.71	7.42	7.14
10.72	7.42	7.14
10.73	7.44	7.14
10.75	7.44	7.12
10.76	7.44	7.12
10.77	7.44	7.12
10.79	7.44	7.12
10.80	7.44	7.12
10.81	7.44	7.12
10.83	7.44	7.12
10.84	7.48	7.12
10.85	7.48	7.12
10.87	7.48	7.12
10.88	7.5	7.12
10.89	7.5	7.14
10.91	7.5	7.12
10.92	7.5	7.12
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10.97	7.54	7.12
10.99	7.54	7.14
11.00	7.54	7.14
11.01	7.5	7.14
11.03	7.5	7.14
11.04	7.5	7.14
11.05	7.5	7.18
11.07	7.5	7.18

11.08	7.54	7.2
11.09	7.54	7.2
11.11	7.54	7.2
11.12	7.54	7.24
11.13	7.54	7.24
11.15	7.56	7.24
11.16	7.6	7.24
11.17	7.6	7.24
11.19	7.56	7.26
11.20	7.6	7.26
11.21	7.56	7.26
11.23	7.56	7.3
11.24	7.6	7.3
11.25	7.6	7.3
11.27	7.6	7.3
11.28	7.62	7.3
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11.31	7.66	7.3
11.32	7.66	7.3
11.33	7.7	7.32
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11.37	7.7	7.36
11.39	7.7	7.36
11.40	7.7	7.36
11.41	7.7	7.36
11.43	7.7	7.38
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11.45	7.72	7.38
11.47	7.72	7.38
11.48	7.72	7.38
11.49	7.72	7.38
11.51	7.76	7.38
11.52	7.76	7.42
11.53	7.76	7.42
11.55	7.78	7.42
11.56	7.78	7.42
11.57	7.78	7.42
11.59	7.78	7.44
11.60	7.78	7.44
11.61	7.78	7.44
11.63	7.78	7.48
11.64	7.82	7.48
11.65	7.84	7.48
11.67	7.88	7.5
11.68	7.88	7.5
11.69	7.88	7.5
11.71	7.88	7.5
11.72	7.88	7.54
11.73	7.88	7.54
11.75	7.9	7.54
11.76	7.9	7.56

11.77	7.9	7.6
11.79	7.94	7.6
11.80	7.96	7.62
11.81	7.96	7.66
11.83	8	7.7
11.84	8.02	7.7
11.85	8.02	7.7
11.87	8.06	7.7
11.88	8.06	7.7
11.89	8.06	7.7
11.91	8.06	7.7
11.92	8.06	7.7
11.93	8.08	7.72
11.95	8.08	7.72
11.96	8.08	7.76
11.97	8.12	7.76
11.99	8.12	7.78
12.00	8.14	7.78
12.01	8.14	7.84
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12.08	8.14	7.88
12.09	8.14	7.88
12.11	8.14	7.88
12.12	8.18	7.88
12.13	8.2	7.88
12.15	8.24	7.9
12.16	8.24	7.9
12.17	8.28	7.94
12.19	8.3	7.94
12.20	8.3	7.94
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12.23	8.3	7.94
12.24	8.34	7.94
12.25	8.3	7.9
12.27	8.3	7.9
12.28	8.3	7.9
12.29	8.28	7.9
12.31	8.28	7.88
12.32	8.28	7.88
12.33	8.28	7.88
12.35	8.28	7.88
12.36	8.28	7.88
12.37	8.28	7.88
12.39	8.28	7.88
12.40	8.28	7.84
12.41	8.3	7.82
12.43	8.3	7.78
12.44	8.3	7.78
12.45	8.3	7.76

12.47	8.34	7.76
12.48	8.34	7.72
12.49	8.34	7.7
12.51	8.34	7.7
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12.55	8.34	7.62
12.56	8.34	7.6
12.57	8.3	7.6
12.59	8.3	7.56
12.60	8.28	7.56
12.61	8.24	7.56
12.63	8.24	7.54
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12.65	8.24	7.5
12.67	8.24	7.44
12.68	8.24	7.42
12.69	8.24	7.42
12.71	8.24	7.42
12.72	8.2	7.42
12.73	8.18	7.38
12.75	8.18	7.38
12.76	8.14	7.38
12.77	8.14	7.38
12.79	8.14	7.38
12.80	8.14	7.36
12.81	8.12	7.36
12.83	8.08	7.32
12.84	8.08	7.32
12.85	8.06	7.32
12.87	8.06	7.32
12.88	8.06	7.32
12.89	8.02	7.3
12.91	8	7.3
12.92	7.96	7.3
12.93	7.94	7.26
12.95	7.88	7.26
12.96	7.82	7.24
12.97	7.78	7.24
12.99	7.76	7.2
13.00	7.72	7.18
13.01	7.7	7.18
13.03	7.62	7.14
13.04	7.6	7.14
13.05	7.6	7.14
13.07	7.6	7.14
13.08	7.56	7.14
13.09	7.5	7.14
13.11	7.5	7.14
13.12	7.5	7.12
13.13	7.48	7.12
13.15	7.48	7.12

13.16	7.44	7.12
13.17	7.42	7.08
13.19	7.38	7.08
13.20	7.36	7.08
13.21	7.32	7.08
13.23	7.32	7.08
13.24	7.3	7.04
13.25	7.26	7.04
13.27	7.24	7.04
13.28	7.24	7.02
13.29	7.2	6.98
13.31	7.18	6.98
13.32	7.14	6.98
13.33	7.14	6.98
13.35	7.14	6.96
13.36	7.14	6.96
13.37	7.14	6.96
13.39	7.14	6.96
13.40	7.14	6.96
13.41	7.12	6.96
13.43	7.12	6.96
13.44	7.12	6.96
13.45	7.08	6.96
13.47	7.08	6.96
13.48	7.08	6.96
13.49	7.08	6.92
13.51	7.08	6.92
13.52	7.08	6.9
13.53	7.04	6.9
13.55	7.04	6.9
13.56	7.04	6.9
13.57	7.04	6.9
13.59	7.02	6.9
13.60	6.98	6.9
13.61	6.98	6.9
13.63	6.98	6.86
13.64	6.98	6.84
13.65	6.96	6.84
13.67	6.96	6.84
13.68	6.96	6.84
13.69	6.96	6.84
13.71	6.96	6.8
13.72	6.96	6.8
13.73	6.96	6.8
13.75	6.96	6.8
13.76	6.92	6.8
13.77	6.92	6.8
13.79	6.92	6.8
13.80	6.92	6.8
13.81	6.9	6.8
13.83	6.9	6.8
13.84	6.9	6.8

13.85	6.9	6.78
13.87	6.9	6.78
13.88	6.86	6.78
13.89	6.86	6.78
13.91	6.9	6.78
13.92	6.86	6.78
13.93	6.86	6.78
13.95	6.86	6.78
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13.99	6.86	6.78
14.00	6.86	6.78
14.01	6.86	6.78
14.03	6.86	6.78
14.04	6.86	6.78
14.05	6.86	6.78
14.07	6.86	6.78
14.08	6.86	6.74
14.09	6.86	6.78
14.11	6.86	6.78
14.12	6.86	6.78
14.13	6.86	6.78
14.15	6.84	6.74
14.16	6.86	6.74
14.17	6.86	6.74
14.19	6.84	6.74
14.20	6.84	6.74
14.21	6.84	6.72
14.23	6.84	6.72
14.24	6.84	6.72
14.25	6.84	6.72
14.27	6.86	6.72
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14.31	6.84	6.72
14.32	6.84	6.74
14.33	6.84	6.72
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14.37	6.84	6.72
14.39	6.84	6.72
14.40	6.84	6.72
14.41	6.8	6.72
14.43	6.84	6.72
14.44	6.84	6.74
14.45	6.84	6.74
14.47	6.84	6.72
14.48	6.84	6.74
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14.51	6.8	6.74
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14.71	6.8	6.66
14.72	6.8	6.66
14.73	6.8	6.66
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14.76	6.8	6.66
14.77	6.8	6.66
14.79	6.8	6.66
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15.15	6.72	6.66
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15.23	6.72	6.66

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15.76	6.72	6.66
15.77	6.72	6.66
15.79	6.68	6.66
15.80	6.68	6.66
15.81	6.68	6.66
15.83	6.68	6.66
15.84	6.66	6.66
15.85	6.66	6.66
15.87	6.66	6.62
15.88	6.66	6.62
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16.23	6.62	6.62
16.24	6.62	6.62
16.25	6.62	6.62
16.27	6.62	6.62
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16.37	6.62	6.56
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16.40	6.6	6.54
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16.43	6.6	6.56
16.44	6.6	6.56
16.45	6.6	6.56
16.47	6.6	6.56
16.48	6.6	6.54
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16.60	6.6	6.56
16.61	6.6	6.56

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16.65	6.56	6.56
16.67	6.56	6.56
16.68	6.56	7.48
16.69	6.56	15.62
16.71	9.64	23.14
16.72	17.98	26.12
16.73	23.9	29.88
16.75	27.32	31.34
16.76	30.22	33.2
16.77	31.92	34.22
16.79	33.36	34.82
16.80	34.46	35.34
16.81	34.88	35.7
16.83	35.44	35.86
16.84	35.74	36.04
16.85	35.92	36.14
16.87	36.08	36.22
16.88	36.16	36.32
16.89	36.22	36.32
16.91	36.28	36.34
16.92	36.32	36.38
16.93	36.34	36.4
16.95	36.38	36.4
16.96	36.4	36.4
16.97	36.4	36.4
16.99	36.44	36.4
17.00	36.46	36.44
17.01	36.46	36.44
17.03	36.5	36.44
17.04	36.5	36.46
17.05	36.5	36.46
17.07	36.5	36.5
17.08	36.5	36.5
17.09	36.5	36.5
17.11	36.5	36.5
17.12	36.5	36.5
17.13	36.5	36.5
17.15	36.52	36.52
17.16	36.52	36.52
17.17	36.56	36.52
17.19	36.52	36.56
17.20	36.52	36.52
17.21	36.56	36.56
17.23	36.56	36.56
17.24	36.6	36.56
17.25	36.6	36.56
17.27	36.56	36.56
17.28	36.6	36.6
17.29	36.56	36.6
17.31	36.6	36.6

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17.33	36.6	36.6
17.35	36.6	36.6
17.36	36.56	36.6
17.37	36.56	36.56
17.39	36.56	36.56
17.40	36.56	36.56
17.41	36.52	36.56
17.43	36.52	36.56
17.44	36.52	36.56
17.45	36.52	36.56
17.47	36.52	36.52
17.48	36.52	36.52
17.49	36.52	36.52
17.51	36.52	36.52
17.52	36.52	36.52
17.53	36.5	36.52
17.55	36.5	36.52
17.56	36.5	36.52
17.57	36.5	36.52
17.59	36.5	36.52
17.60	36.5	36.5
17.61	36.5	36.5
17.63	36.5	36.5
17.64	36.5	36.5
17.65	36.5	36.5
17.67	36.5	36.5
17.68	36.5	36.5
17.69	36.5	36.5
17.71	36.5	36.52
17.72	36.5	36.52
17.73	36.5	36.56
17.75	36.52	36.6
17.76	36.52	36.62
17.77	36.56	36.66
17.79	36.6	36.74
17.80	36.66	36.86
17.81	36.74	36.96
17.83	36.86	37.14
17.84	36.96	37.3
17.85	37.2	37.6
17.87	37.36	37.96
17.88	37.76	38.3
17.89	38.12	38.82
17.91	38.54	39.4
17.92	39.16	39.98
17.93	39.82	40.72
17.95	40.52	41.32
17.96	41.38	42.2
17.97	42.18	43.06
17.99	43.22	43.8
18.00	44.22	44.64

18.01	45.1	45.44
18.03	46.2	46.06
18.04	47.22	46.72
18.05	48	47.22
18.07	48.86	47.64
18.08	49.46	48
18.09	50.08	48.12
18.11	50.6	48.18
18.12	50.78	48.16
18.13	50.88	48
18.15	50.88	47.64
18.16	50.68	47.42
18.17	50.32	46.96
18.19	50.08	46.38
18.20	49.54	46.02
18.21	48.82	45.32
18.23	48.38	44.84
18.24	47.54	44.22
18.25	46.94	43.68
18.27	46.2	43.22
18.28	45.5	42.66
18.29	45.04	42.14
18.31	44.18	41.74
18.32	43.54	41.32
18.33	43.06	40.98
18.35	42.48	40.58
18.36	42.06	40.26
18.37	41.54	39.98
18.39	41.08	39.7
18.40	40.74	39.46
18.41	40.38	39.28
18.43	40.06	39.1
18.44	39.8	38.94
18.45	39.56	38.78
18.47	39.36	38.64
18.48	39.16	38.54
18.49	38.98	38.46
18.51	38.82	38.3
18.52	38.66	38.24
18.53	38.52	38.14
18.55	38.42	38.08
18.56	38.34	38.02
18.57	38.24	37.94
18.59	38.14	37.9
18.60	38.06	37.84
18.61	38.02	37.76
18.63	37.94	37.72
18.64	37.84	37.66
18.65	37.82	37.62
18.67	37.72	37.56
18.68	37.66	37.5
18.69	37.62	37.48

18.71	37.56	37.44
18.72	37.54	37.38
18.73	37.48	37.36
18.75	37.44	37.3
18.76	37.38	37.3
18.77	37.36	37.26
18.79	37.36	37.24
18.80	37.3	37.2
18.81	37.3	37.18
18.83	37.24	37.14
18.84	37.2	37.14
18.85	37.18	37.14
18.87	37.14	37.1
18.88	37.14	37.08
18.89	37.1	37.04
18.91	37.08	37.04
18.92	37.04	37.02
18.93	37.02	36.98
18.95	36.98	36.96
18.96	36.96	36.96
18.97	36.96	36.96
18.99	36.92	36.96
19.00	36.92	36.96
19.01	36.9	36.96
19.03	36.9	36.92
19.04	36.9	36.9
19.05	36.86	36.86
19.07	36.86	36.86
19.08	36.84	36.86
19.09	36.84	36.86
19.11	36.8	36.86
19.12	36.78	36.84
19.13	36.78	36.8
19.15	36.78	36.78
19.16	36.74	36.78
19.17	36.74	36.78
19.19	36.74	36.78

CA003733 - NOPR - GOOD	CA003734 - NOPR - GOOD	CA003735 - NOPR - GOOD
36.04	36.74	36.74
36.04	36.74	36.74
31.56	36.74	36.74
26.34	36.78	36.78
19.22	31.44	31.32
15.14	26.12	23.78
13.22	19.08	19.04
10.86	15.08	15.08
9.74	12.76	12.72
8.86	10.8	10.8
8.24	9.68	9.52
7.94	8.7	8.76
7.56	8.06	8.14
7.36	7.7	7.76
7.24	7.36	7.5
7.14	7.14	7.32
7.08	7.02	7.2
7.02	6.9	7.12
6.98	6.86	7.02
6.96	6.8	6.98
6.92	6.78	6.92
6.9	6.74	6.9
6.86	6.72	6.86
6.84	6.72	6.86
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6.68	6.68	6.68
6.68	6.66	6.68
6.68	6.66	6.66
6.66	6.66	6.66
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6.5	6.54	6.5
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6.54	6.54	6.5
6.5	6.54	6.5
6.5	6.54	6.5
6.54	6.54	6.5
6.62	6.54	6.5
6.8	6.56	6.54
7.02	6.68	6.6
7.26	6.86	6.72
7.62	7.12	6.92

8	7.48	7.14
8.58	7.94	7.48
9.24	8.48	7.96
9.88	9.4	8.34
10.68	10.56	8.88
11.48	11.84	9.46
12.24	13.52	9.92
13.1	15.02	10.56
13.8	17	10.92
14.62	18.96	11.62
15.5	20.56	12.2
16.02	22.36	12.76
16.72	24.02	13.42
17.36	25.32	13.94
17.86	26.94	14.7
18.44	27.74	15.48
18.7	28.96	16.14
19.04	29.76	16.9
19.22	30.16	17.6
19.22	30.52	18.06
19.04	30.54	18.52
18.8	30.28	18.74
18.38	29.78	18.8
17.86	29.18	18.7
17.4	28.26	18.44
16.76	27.2	18.04
16.14	26.22	17.48
15.6	25	17.08
14.98	23.98	16.48
14.5	22.74	16
13.88	21.58	15.36
13.3	20.6	14.68
12.88	19.5	14.32
12.4	18.34	13.76
11.94	17.66	13.18
11.62	16.78	12.88
11.26	16.12	12.4
11.02	15.36	12.14
10.74	14.58	11.78
10.46	14.2	11.48
10.28	13.58	11.3
10.1	13.16	11.08
9.92	12.88	10.92
9.86	12.52	10.78
9.74	12.32	10.66
9.64	12	10.56
9.56	11.82	10.4
9.46	11.62	10.32
9.4	11.48	10.22
9.3	11.32	10.1
9.22	11.2	9.98
9.18	11.08	9.88

9.1	10.98	9.76
9.04	10.84	9.68
8.94	10.72	9.52
8.86	10.62	9.4
8.76	10.46	9.28
8.66	10.32	9.16
8.58	10.2	9.04
8.52	10.04	8.94
8.42	9.92	8.86
8.4	9.74	8.78
8.34	9.62	8.7
8.24	9.5	8.64
8.18	9.4	8.58
8.14	9.3	8.54
8.08	9.22	8.48
8.06	9.12	8.46
8.06	9.06	8.42
8.02	9	8.4
7.96	8.92	8.36
7.96	8.88	8.34
7.94	8.82	8.28
7.88	8.76	8.24
7.84	8.72	8.2
7.82	8.66	8.18
7.78	8.6	8.12
7.78	8.58	8.08
7.72	8.48	8.06
7.7	8.46	8
7.66	8.4	7.96
7.62	8.34	7.96
7.6	8.34	7.94
7.6	8.28	7.9
7.54	8.24	7.88
7.54	8.2	7.84
7.5	8.18	7.84
7.5	8.14	7.82
7.48	8.12	7.82
7.44	8.08	7.78
7.44	8.06	7.76
7.42	8.02	7.72
7.42	8	7.7
7.42	7.96	7.7
7.38	7.94	7.66
7.36	7.94	7.66
7.36	7.88	7.62
7.36	7.88	7.6
7.32	7.84	7.6
7.32	7.82	7.6
7.32	7.78	7.56
7.3	7.76	7.56
7.3	7.72	7.56
7.26	7.7	7.54

7.26	7.7	7.54
7.24	7.66	7.54
7.24	7.66	7.5
7.24	7.62	7.5
7.2	7.62	7.5
7.18	7.6	7.48
7.18	7.56	7.44
7.18	7.56	7.44
7.18	7.5	7.42
7.14	7.5	7.42
7.14	7.5	7.42
7.14	7.48	7.38
7.14	7.48	7.36
7.14	7.44	7.32
7.14	7.44	7.32
7.14	7.44	7.32
7.14	7.44	7.32
7.14	7.42	7.3
7.12	7.42	7.3
7.12	7.42	7.26
7.08	7.42	7.26
7.08	7.38	7.24
7.08	7.36	7.24
7.08	7.36	7.2
7.08	7.32	7.2
7.08	7.32	7.18
7.04	7.32	7.18
7.04	7.32	7.18
7.04	7.3	7.14
7.02	7.26	7.14
7.02	7.26	7.14
6.98	7.3	7.14
6.98	7.26	7.14
6.98	7.26	7.14
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6.96	7.18	7.12
6.9	7.18	7.12
6.92	7.14	7.08
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6.9	7.18	7.08
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6.9	7.14	7.08

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6.74	6.92	6.86
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6.72	6.9	6.84
6.72	6.9	6.86
6.72	6.92	6.86
6.72	6.9	6.84
6.72	6.9	6.84
6.72	6.9	6.84
6.72	6.9	6.84
6.72	6.9	6.84
6.74	6.9	6.84
6.74	6.9	6.84
6.74	6.9	6.84
6.78	6.9	6.86
6.78	6.9	6.86
6.78	6.96	6.86
6.78	6.98	6.9
6.78	6.98	6.9
6.78	6.98	6.9
6.78	7.02	6.9
6.78	7.02	6.9
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6.8	7.04	6.96
6.8	7.08	6.98
6.8	7.08	6.98
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6.84	7.08	7.02
6.84	7.08	7.02
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6.84	7.08	7.02
6.86	7.12	7.02
6.86	7.14	7.02
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6.92	7.2	7.08
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6.92	7.2	7.08
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7.14	7.44	7.26
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7.14	7.6	7.32
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7.14	7.6	7.36
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7.14	7.62	7.36
7.14	7.62	7.36
7.14	7.62	7.36
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7.18	7.6	7.38
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7.12	7.96	7.32
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7.14	7.96	7.32
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7.14	8	7.36
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7.24	8.08	7.36
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7.24	8.12	7.36
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7.3	8.24	7.38
7.3	8.28	7.38
7.3	8.34	7.42
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7.38	8.58	7.54
7.38	8.58	7.56
7.42	8.58	7.56
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7.44	8.54	7.56
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7.5	8.76	7.62
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7.54	8.78	7.7
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7.56	8.88	7.72
7.56	8.94	7.76
7.6	8.94	7.78
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7.62	9.04	7.78
7.66	9.04	7.82
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7.84	9.18	8.06
7.88	9.22	8.06
7.88	9.22	8.08
7.88	9.24	8.06
7.9	9.28	8.06
7.94	9.3	8.06
7.94	9.4	8.06
7.96	9.4	8.06
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7.88	9.5	8.08
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7.82	9.4	8.08
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7.78	9.36	8.08
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7.76	9.36	8.06
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7.62	9.36	8.02
7.6	9.36	8.02
7.6	9.34	8.02
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7.44	9.34	7.96
7.42	9.3	7.94
7.42	9.3	7.9
7.42	9.3	7.88
7.42	9.3	7.84
7.38	9.3	7.78
7.38	9.28	7.78
7.36	9.22	7.72
7.32	9.22	7.72
7.32	9.22	7.7
7.32	9.12	7.7
7.32	9.12	7.7
7.3	9.06	7.66
7.3	9.04	7.62
7.26	9.04	7.62
7.26	9	7.6
7.24	8.98	7.6
7.24	8.94	7.6
7.24	8.94	7.56
7.24	8.94	7.54
7.24	8.94	7.5
7.2	8.92	7.48
7.18	8.86	7.48
7.18	8.86	7.44

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7.18	8.76	7.42
7.18	8.72	7.42
7.18	8.66	7.42
7.14	8.66	7.38
7.14	8.6	7.36
7.14	8.58	7.36
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7.14	8.54	7.3
7.14	8.52	7.26
7.14	8.48	7.26
7.12	8.48	7.26
7.08	8.42	7.24
7.08	8.4	7.24
7.08	8.36	7.26
7.08	8.34	7.26
7.04	8.28	7.26
7.02	8.24	7.26
7.02	8.2	7.24
6.98	8.18	7.24
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6.98	7.88	7.18
6.98	7.84	7.18
6.98	7.78	7.18
6.96	7.78	7.18
6.96	7.72	7.14
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6.92	7.7	7.18
6.92	7.66	7.18
6.9	7.62	7.18
6.9	7.6	7.18
6.9	7.56	7.2
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6.9	7.5	7.14
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6.86	7.48	7.14
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6.8	7.32	7.08

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6.74	7.14	7.02
6.74	7.14	7.02
6.74	7.12	7.02
6.74	7.12	6.98
6.74	7.12	7.02
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6.74	7.12	6.98
6.74	7.12	7.02
6.72	7.12	6.98
6.72	7.12	6.98
6.72	7.12	6.98

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6.72	7.04	6.9
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6.72	7.04	6.9
6.72	7.02	6.9
6.68	7.02	6.9
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6.62	6.98	6.86
6.62	6.98	6.86
6.62	6.96	6.86
6.62	6.92	6.86
6.62	6.9	6.84
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6.62	6.8	6.74
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6.6	6.8	6.72
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6.6	6.8	6.72
6.6	6.8	6.72
6.6	6.8	6.72
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6.6	6.8	6.72
6.6	6.78	6.72
6.6	6.78	6.72
6.6	6.78	6.72
6.56	6.78	6.72
6.56	6.74	6.72
6.56	6.74	6.72
6.56	6.74	6.68
6.56	6.74	6.68
6.56	6.72	6.68
6.56	6.72	6.68
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6.56	6.72	6.68
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6.56	6.72	6.68
6.56	6.74	6.68
6.56	6.72	6.68
6.56	6.72	6.68
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6.56	6.72	6.68
6.54	6.68	6.68
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6.54	6.68	6.68
6.54	6.68	6.68

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35.92	36.52	36.6
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35.86	36.46	36.6
35.86	36.46	36.6
35.86	36.46	36.6
35.82	36.46	36.6
35.82	36.46	36.6
35.86	36.46	36.56
35.86	36.46	36.6
35.86	36.44	36.56
35.86	36.44	36.56
35.88	36.44	36.6
35.88	36.44	36.6
35.92	36.44	36.6
35.94	36.46	36.6
35.94	36.46	36.6
35.98	36.5	36.62
36.04	36.5	36.68
36.14	36.56	36.72
36.28	36.6	36.78
36.4	36.66	36.9
36.6	36.78	36.98
36.84	36.86	37.2
37.2	36.98	37.48
37.68	37.24	37.72
38.06	37.42	38.12
38.78	37.76	38.54
39.36	38.2	39.04
40.2	38.54	39.7
41.1	39.18	40.32
41.94	39.74	41.2
42.96	40.46	42.14
43.98	41.22	42.96
44.92	41.96	44.06
45.9	42.84	45.16
46.7	43.76	46.12

47.58	44.52	47.22
48.34	45.44	48.1
48.82	46.12	49.08
49.26	46.88	50.02
49.54	47.54	50.5
49.6	48	51.06
49.54	48.44	51.42
49.34	48.7	51.54
48.98	48.82	51.54
48.5	48.82	51.42
48	48.74	51.06
47.3	48.46	50.56
46.56	48.12	50.14
45.96	47.76	49.34
45.2	47.28	48.74
44.52	46.72	47.92
43.76	46.2	47.08
43	45.6	46.54
42.44	45.04	45.54
41.78	44.46	44.76
41.04	43.7	44.1
40.68	43.28	43.4
40.06	42.76	42.84
39.76	42.14	42.18
39.28	41.78	41.6
38.9	41.22	41.14
38.7	40.96	40.68
38.36	40.46	40.26
38.12	40.14	39.94
37.94	39.86	39.64
37.76	39.56	39.36
37.66	39.3	39.12
37.48	39.12	38.9
37.36	38.9	38.76
37.26	38.78	38.58
37.14	38.6	38.42
37.04	38.46	38.34
36.98	38.36	38.24
36.92	38.24	38.14
36.86	38.12	38.06
36.8	38.02	38
36.78	37.94	37.94
36.72	37.88	37.84
36.68	37.78	37.78
36.66	37.76	37.76
36.62	37.66	37.66
36.6	37.6	37.66
36.52	37.56	37.6
36.5	37.5	37.56
36.46	37.44	37.5
36.46	37.42	37.48
36.4	37.38	37.42

36.4	37.32	37.38
36.4	37.3	37.36
36.38	37.24	37.32
36.38	37.2	37.3
36.34	37.18	37.3
36.32	37.14	37.26
36.32	37.1	37.2
36.32	37.04	37.18
36.28	37.02	37.14
36.26	36.98	37.14
36.22	36.96	37.1
36.22	36.96	37.08
36.2	36.96	37.04
36.2	36.92	37.04
36.16	36.9	37.02
36.14	36.86	36.98
36.14	36.86	36.96
36.14	36.86	36.96
36.1	36.86	36.96
36.1	36.86	36.96
36.1	36.84	36.96
36.08	36.8	36.92
36.08	36.8	36.92
36.08	36.78	36.9
36.08	36.78	36.9
36.08	36.78	36.9
36.08	36.74	36.86
36.08	36.74	36.86
36.04	36.72	36.86
36.04	36.68	36.84
36.04	36.68	36.84
36.02	36.68	36.8
36.02	36.68	36.8
36.02	36.68	36.78
36.02	36.68	36.78
36.02	36.68	36.78
35.98	36.68	36.78

CA003736 - NOPR - GOOD	CA003737 - NOPR - GOOD	CA003738 - NOPR - GOOD
36.62	36.2	36.4
36.62	36.2	36.4
36.62	36.22	36.44
36.62	36.22	36.4
31.68	30.86	31.52
24.04	25.6	25.12
19.26	18.74	19.16
15.16	15.38	15.1
12.42	12.6	12.76
10.84	10.72	10.78
9.52	9.82	9.46
8.66	8.78	8.7
8.14	8.24	8.12
7.76	7.9	7.78
7.5	7.62	7.5
7.32	7.48	7.32
7.2	7.32	7.24
7.14	7.24	7.14
7.08	7.18	7.08
7.04	7.14	7.04
7.02	7.08	7.02
6.98	7.04	7.02
6.96	6.98	6.98
6.92	6.96	6.98
6.9	6.92	6.98
6.9	6.9	6.96
6.9	6.9	6.92
6.84	6.9	6.9
6.84	6.9	6.9
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6.8	6.86	6.84
6.8	6.86	6.84
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6.78	6.86	6.8
6.78	6.86	6.8
6.78	6.84	6.8
6.78	6.84	6.8
6.78	6.84	6.8
6.74	6.8	6.78
6.74	6.8	6.78
6.74	6.8	6.74
6.72	6.8	6.74
6.72	6.78	6.74
6.72	6.78	6.74
6.72	6.74	6.72
6.72	6.72	6.72
6.72	6.72	6.72
6.72	6.72	6.72
6.72	6.72	6.68

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6.72	6.72	6.66
6.68	6.72	6.66
6.68	6.72	6.62
6.68	6.72	6.62
6.66	6.72	6.62
6.66	6.72	6.62
6.66	6.72	6.6
6.66	6.68	6.6
6.66	6.68	6.6
6.66	6.68	6.56
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6.62	6.66	6.6
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6.5	6.5	6.5
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6.5	6.54	6.5

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6.5	6.46	6.54
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6.46	6.54	6.5
6.46	6.54	6.5
6.54	6.56	6.5
6.62	6.72	6.54
6.72	6.9	6.72
7.02	7.08	6.98

7.32	7.42	7.32
7.62	7.94	7.9
8.12	8.34	8.66
8.58	9.04	9.62
9.3	9.68	11.02
10.1	10.62	12.32
10.8	11.74	14.26
11.66	12.42	16.2
12.52	13.62	17.8
13.3	14.52	19.68
14.26	15.36	21.66
15.04	16.26	22.74
16.12	17	24.14
17.12	17.88	25.2
18.04	18.7	26.3
19.1	19.34	27.38
20.24	20.08	27.9
20.88	20.7	28.56
21.78	21.12	28.86
22.18	21.48	28.9
22.7	21.66	28.72
22.88	21.72	28.44
22.86	21.54	27.64
22.62	21.3	26.76
22.18	20.76	25.9
21.66	20.3	24.78
21.02	19.72	23.62
20.38	18.86	22.56
19.6	18.4	21.4
18.8	17.48	20.38
18.12	16.72	19.26
17.36	16.12	18.24
16.6	15.44	17.46
16	14.9	16.58
15.32	14.26	15.84
14.8	13.68	15.2
14.22	13.22	14.62
13.74	12.72	14.16
13.34	12.32	13.68
12.96	12.02	13.28
12.6	11.68	12.96
12.32	11.44	12.6
12.02	11.2	12.32
11.88	10.98	12.08
11.62	10.84	11.78
11.44	10.66	11.62
11.32	10.52	11.36
11.14	10.4	11.08
11.02	10.28	10.92
10.9	10.2	10.66
10.74	10.1	10.46
10.66	9.98	10.28

10.5	9.88	10.08
10.34	9.8	9.92
10.22	9.64	9.74
10.1	9.58	9.62
9.98	9.42	9.5
9.82	9.34	9.36
9.74	9.22	9.28
9.64	9.06	9.18
9.52	9	9.06
9.42	8.88	9
9.36	8.76	8.94
9.28	8.7	8.86
9.22	8.6	8.78
9.12	8.58	8.7
9.06	8.52	8.64
9.04	8.46	8.58
8.94	8.42	8.48
8.92	8.36	8.46
8.86	8.34	8.36
8.86	8.3	8.34
8.78	8.24	8.28
8.72	8.24	8.2
8.66	8.18	8.14
8.64	8.14	8.12
8.58	8.12	8.06
8.52	8.06	8.02
8.48	8.06	8
8.42	8	7.96
8.4	7.96	7.94
8.36	7.96	7.88
8.3	7.88	7.84
8.28	7.88	7.82
8.24	7.84	7.78
8.2	7.82	7.76
8.18	7.78	7.7
8.14	7.78	7.66
8.12	7.76	7.62
8.08	7.76	7.6
8.06	7.72	7.6
8.02	7.7	7.6
8.02	7.7	7.6
8	7.62	7.56
7.96	7.6	7.54
7.96	7.6	7.54
7.94	7.6	7.5
7.94	7.56	7.5
7.9	7.5	7.5
7.88	7.5	7.48
7.84	7.48	7.44
7.82	7.44	7.42
7.78	7.42	7.42
7.78	7.42	7.38

7.76	7.42	7.36
7.72	7.38	7.36
7.72	7.38	7.32
7.7	7.38	7.32
7.7	7.38	7.32
7.7	7.38	7.32
7.62	7.36	7.3
7.6	7.36	7.26
7.6	7.32	7.24
7.6	7.32	7.24
7.56	7.32	7.24
7.56	7.3	7.2
7.56	7.3	7.18
7.54	7.3	7.18
7.54	7.26	7.18
7.5	7.24	7.14
7.5	7.24	7.14
7.5	7.24	7.14
7.48	7.2	7.14
7.48	7.18	7.14
7.48	7.14	7.12
7.48	7.14	7.12
7.44	7.14	7.12
7.44	7.14	7.12
7.44	7.14	7.12
7.42	7.14	7.12
7.42	7.14	7.08
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7.42	7.12	7.08
7.38	7.12	7.08
7.38	7.12	7.08
7.36	7.12	7.04
7.32	7.08	7.04
7.32	7.08	7.02
7.32	7.08	7.02
7.32	7.08	7.02
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7.3	7.04	6.98
7.3	7.02	6.98
7.26	7.02	6.98
7.26	7.02	6.98
7.24	7.02	6.98
7.24	7.02	6.98
7.24	6.98	6.98

7.24	6.98	6.98
7.2	6.98	6.96
7.18	6.98	6.96
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7.84	7.54	8.66
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7.96	7.56	8.86
7.96	7.56	8.86
7.96	7.6	8.82
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7.96	7.6	8.78
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8.06	7.54	8.76
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8.28	7.78	9.24
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8.3	7.82	9.3
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8.06	7.72	9.04
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8	7.7	8.98
7.96	7.66	8.98
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7.88	7.6	8.94
7.88	7.56	8.92
7.82	7.54	8.88
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7.76	7.5	8.86
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7.24	7.08	7.82
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6.9	6.78	6.98
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6.9	6.78	6.98
6.9	6.78	6.98
6.9	6.78	6.98
6.9	6.78	6.98
6.9	6.78	6.98
6.9	6.78	6.98
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6.9	6.78	6.98
6.86	6.78	6.98
6.9	6.78	6.98
6.86	6.78	6.98
6.9	6.78	6.98
6.86	6.78	6.98
6.9	6.78	6.98
6.9	6.74	6.98
6.9	6.74	6.98
6.86	6.74	6.98
6.9	6.74	6.98
6.9	6.74	6.98
6.86	6.74	6.98
6.86	6.72	6.98
6.86	6.72	6.98
6.86	6.72	6.98
6.86	6.72	6.98
6.86	6.72	6.98
6.86	6.68	6.98
6.86	6.68	6.96
6.84	6.68	6.96
6.8	6.66	6.92
6.8	6.66	6.92
6.8	6.66	6.92
6.8	6.66	6.9

[illegible]

[illegible]

36.68	36.52	36.5
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36.72	36.52	36.5
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36.68	36.52	36.5
36.68	36.52	36.5
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36.68	36.52	36.46
36.68	36.52	36.46
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36.68	36.5	36.44
36.68	36.5	36.44
36.66	36.5	36.44
36.66	36.5	36.4
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36.66	36.52	36.4
36.68	36.56	36.4
36.68	36.6	36.4
36.72	36.6	36.44
36.78	36.68	36.5
36.84	36.74	36.5
36.9	36.84	36.6
37.02	36.98	36.66
37.14	37.14	36.78
37.38	37.36	36.96
37.62	37.56	37.14
37.94	37.94	37.48
38.34	38.46	37.84
38.9	38.82	38.2
39.36	39.56	38.78
40.16	40.1	39.28
40.72	40.8	40.06
41.78	41.78	41.04
42.78	42.38	41.68
43.68	43.54	42.84
44.8	44.5	43.92
45.86	45.34	44.8

46.84	46.3	45.9
47.88	47.06	46.6
48.68	47.88	47.8
49.54	48.58	48.64
50.26	49.08	49.2
50.76	49.5	49.92
51.14	49.74	50.38
51.34	49.84	50.6
51.4	49.8	50.68
51.24	49.62	50.6
51.02	49.28	50.36
50.6	48.86	49.98
50.04	48.4	49.56
49.5	47.76	48.98
48.76	47.08	48.28
48	46.48	47.64
47.3	45.74	46.88
46.48	45.16	46.24
45.78	44.38	45.44
44.96	43.68	44.64
44.22	43.12	43.98
43.54	42.48	43.28
42.84	41.8	42.64
42.26	41.42	42.08
41.78	40.92	41.5
41.14	40.52	41.08
40.8	40.14	40.62
40.32	39.74	40.16
39.94	39.48	39.88
39.64	39.18	39.52
39.36	38.9	39.28
39.18	38.76	39.1
38.9	38.54	38.82
38.72	38.46	38.72
38.6	38.3	38.52
38.46	38.18	38.4
38.34	38.08	38.3
38.24	37.96	38.2
38.12	37.9	38.12
38.06	37.84	38.02
37.96	37.76	37.94
37.9	37.72	37.9
37.84	37.66	37.84
37.76	37.56	37.78
37.72	37.56	37.76
37.66	37.5	37.68
37.62	37.48	37.66
37.6	37.44	37.6
37.56	37.38	37.56
37.54	37.38	37.5
37.5	37.36	37.48
37.48	37.3	37.44

37.42	37.3	37.38
37.38	37.24	37.36
37.36	37.2	37.32
37.32	37.2	37.3
37.3	37.18	37.26
37.26	37.14	37.24
37.24	37.14	37.2
37.2	37.08	37.18
37.2	37.04	37.14
37.2	37.04	37.1
37.18	37.04	37.08
37.14	37.02	37.04
37.14	36.98	37.04
37.1	36.96	37.02
37.08	36.96	36.98
37.04	36.92	36.96
37.04	36.9	36.96
37.04	36.86	36.92
37.04	36.86	36.92
37.02	36.86	36.9
37.02	36.86	36.9
37.02	36.86	36.86
36.98	36.84	36.86
36.98	36.84	36.84
36.96	36.84	36.84
36.96	36.8	36.8
36.96	36.8	36.78
36.96	36.78	36.78
36.92	36.78	36.78
36.9	36.78	36.78
36.9	36.78	36.74
36.86	36.74	36.72
36.86	36.74	36.72
36.86	36.72	36.68
36.86	36.72	36.68
36.86	36.72	36.66
36.86	36.68	36.66

CA003739 - NOPR - GOOD	CA003740 - NOPR - GOOD	CA003741 - NOPR - GOOD
36.46	36.14	36.38
36.46	36.14	36.38
34.36	32.74	36.34
24.94	25.9	36.38
19.04	19.78	31.16
16.2	16.12	25.84
12.7	13.06	18.9
11.02	10.74	15.5
9.58	9.82	12.66
8.64	8.86	10.78
8.06	8.14	9.68
7.6	7.78	8.76
7.24	7.44	8.18
7.08	7.26	7.84
6.9	7.12	7.54
6.8	6.98	7.38
6.72	6.92	7.26
6.68	6.9	7.2
6.66	6.84	7.14
6.62	6.8	7.12
6.62	6.78	7.08
6.6	6.74	7.08
6.6	6.72	7.04
6.6	6.72	7.02
6.6	6.72	6.98
6.6	6.72	6.98
6.6	6.72	6.98
6.62	6.72	6.96
6.62	6.72	6.92
6.62	6.72	6.92
6.62	6.72	6.9
6.62	6.72	6.9
6.62	6.68	6.9
6.62	6.68	6.9
6.62	6.68	6.86
6.6	6.68	6.86
6.6	6.68	6.86
6.6	6.68	6.86
6.6	6.68	6.86
6.6	6.66	6.84
6.6	6.66	6.8
6.6	6.62	6.8
6.56	6.62	6.8
6.56	6.62	6.8
6.54	6.62	6.8
6.54	6.62	6.78
6.56	6.62	6.78
6.56	6.6	6.74
6.56	6.6	6.72
6.56	6.56	6.72
6.56	6.56	6.68

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6.54	6.54	6.62
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6.5	6.54	6.54

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6.46	6.54	6.54
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6.5	6.54	6.46
6.46	6.54	6.46
6.5	6.54	6.46
6.54	6.54	6.46
6.62	6.62	6.46
6.8	6.74	6.54
6.98	6.92	6.62

7.24	7.2	6.92
7.62	7.56	7.32
8.12	8.02	7.9
8.86	8.76	8.78
9.62	9.74	9.62
10.78	10.84	11.94
12	12.36	14.56
13.16	13.76	17.34
14.5	15.72	20.94
15.78	17.64	24.5
16.82	19.28	27.46
18.1	21.18	30.48
18.76	22.88	32.56
19.8	24.3	34.58
20.56	26.04	36.1
21.12	26.94	37.04
21.64	28.42	37.84
22	29.42	38.4
22.28	30.1	38.54
22.44	30.68	38.52
22.4	30.94	38.26
22.18	30.94	37.66
21.78	30.6	36.68
21.34	30.12	35.88
20.66	29.26	34.28
20.08	28.26	33.02
19.22	27.26	31.58
18.4	25.94	29.6
17.66	24.82	28.44
16.78	23.4	26.42
15.8	22.04	24.82
15.2	20.94	23.5
14.32	19.68	22
13.82	18.34	20.9
13.12	17.6	19.62
12.42	16.44	18.5
12.02	15.84	17.6
11.44	15.02	16.66
11.02	14.16	15.84
10.66	13.7	15.2
10.34	13.04	14.56
10.1	12.54	14.06
9.82	12.18	13.62
9.64	11.82	13.16
9.5	11.56	12.84
9.3	11.3	12.52
9.22	11.08	12.2
9.12	10.92	12.02
9	10.74	11.82
8.92	10.58	11.66
8.82	10.46	11.44
8.72	10.38	11.26

8.66	10.28	11.16
8.54	10.16	11.02
8.46	10.04	10.84
8.4	9.94	10.72
8.3	9.82	10.5
8.2	9.74	10.38
8.12	9.62	10.2
8.02	9.5	10
7.96	9.36	9.88
7.88	9.24	9.74
7.78	9.12	9.62
7.76	9.04	9.5
7.7	8.94	9.4
7.62	8.82	9.3
7.6	8.76	9.18
7.54	8.7	9.12
7.5	8.64	9.04
7.5	8.58	8.94
7.44	8.54	8.88
7.42	8.48	8.86
7.42	8.46	8.76
7.38	8.4	8.72
7.36	8.36	8.66
7.32	8.34	8.58
7.3	8.3	8.54
7.26	8.24	8.48
7.24	8.18	8.42
7.24	8.14	8.4
7.2	8.12	8.34
7.2	8.06	8.34
7.18	8.02	8.28
7.18	7.96	8.24
7.14	7.96	8.2
7.14	7.9	8.18
7.14	7.88	8.14
7.12	7.88	8.12
7.12	7.84	8.06
7.08	7.82	8.06
7.12	7.78	8.02
7.08	7.78	7.96
7.08	7.76	7.96
7.08	7.72	7.9
7.04	7.7	7.88
7.04	7.7	7.84
7.02	7.66	7.82
7.02	7.62	7.78
6.98	7.6	7.78
6.98	7.6	7.76
6.98	7.6	7.72
6.98	7.56	7.72
6.98	7.54	7.7
6.96	7.5	7.7

6.96	7.48	7.66
6.96	7.48	7.62
6.96	7.44	7.6
6.96	7.42	7.6
6.96	7.42	7.56
6.96	7.42	7.56
6.96	7.38	7.54
6.92	7.38	7.5
6.92	7.36	7.5
6.92	7.32	7.48
6.9	7.32	7.44
6.9	7.32	7.42
6.9	7.32	7.42
6.9	7.3	7.42
6.9	7.26	7.42
6.9	7.24	7.38
6.9	7.24	7.38
6.86	7.24	7.38
6.86	7.24	7.36
6.84	7.24	7.32
6.84	7.24	7.32
6.8	7.2	7.32
6.8	7.2	7.32
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6.8	7.2	7.3
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6.78	7.14	7.24
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6.72	7.02	7.08

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6.72	6.98	7.04
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6.72	6.98	7.02
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6.72	6.96	6.98
6.72	6.96	6.98
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6.66	6.84	6.86
6.68	6.84	6.9
6.68	6.86	6.9
6.68	6.9	6.9
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6.68	6.9	6.92
6.72	6.9	6.92
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6.72	6.98	7.02
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6.72	6.96	7.08
6.72	6.96	7.08
6.72	6.98	7.08

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[illegible]

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6.86	7.24	7.36
6.86	7.24	7.32
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6.86	7.24	7.32

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6.86	7.24	7.32
6.86	7.2	7.36
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6.9	7.24	7.36
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6.92	7.2	7.38
6.92	7.2	7.38
6.92	7.24	7.38
6.96	7.24	7.38
6.96	7.24	7.38
6.98	7.24	7.38
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6.98	7.24	7.42
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6.98	7.26	7.42
6.98	7.26	7.42

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6.98	7.3	7.48
6.96	7.3	7.48
6.92	7.26	7.5
6.92	7.2	7.5
6.92	7.2	7.5
6.96	7.24	7.42
6.98	7.24	7.42
6.98	7.26	7.44
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7.08	7.42	7.72
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7.08	7.42	7.78
7.08	7.42	7.78
7.08	7.44	7.78
7.12	7.44	7.78
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7.12	7.44	7.82
7.12	7.44	7.84
7.12	7.44	7.88

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7.12	7.44	7.94
7.12	7.48	7.96
7.12	7.48	7.96
7.12	7.5	7.96
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7.14	7.56	7.96
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7.14	7.6	7.96
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7.18	7.6	8.02
7.18	7.6	8.06
7.2	7.62	8.06
7.2	7.62	8.06
7.2	7.62	8.08
7.2	7.62	8.08
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7.2	7.62	8.14
7.2	7.62	8.14
7.2	7.66	8.14
7.24	7.66	8.14
7.24	7.7	8.14
7.24	7.7	8.14
7.24	7.7	8.18
7.24	7.7	8.2
7.26	7.7	8.2
7.26	7.7	8.2
7.26	7.72	8.24
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7.3	7.72	8.24
7.3	7.72	8.24
7.3	7.76	8.24
7.3	7.78	8.28
7.3	7.78	8.3
7.32	7.78	8.34
7.32	7.78	8.34
7.32	7.78	8.36
7.36	7.78	8.4
7.36	7.82	8.42
7.36	7.84	8.46
7.36	7.88	8.48
7.38	7.88	8.48
7.38	7.88	8.48
7.38	7.88	8.48
7.38	7.88	8.48

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7.42	7.96	8.48
7.44	7.96	8.52
7.48	7.96	8.52
7.5	8	8.54
7.5	8.02	8.54
7.5	8.02	8.58
7.5	8.06	8.58
7.54	8.06	8.6
7.54	8.08	8.64
7.54	8.12	8.64
7.54	8.12	8.64
7.56	8.12	8.64
7.56	8.12	8.64
7.6	8.12	8.64
7.6	8.14	8.64
7.6	8.14	8.66
7.62	8.14	8.66
7.66	8.14	8.66
7.7	8.14	8.7
7.7	8.14	8.7
7.7	8.2	8.72
7.7	8.2	8.76
7.72	8.24	8.76
7.76	8.28	8.78
7.76	8.28	8.78
7.76	8.3	8.82
7.76	8.3	8.82
7.76	8.3	8.86
7.78	8.34	8.86
7.78	8.34	8.88
7.78	8.34	8.92
7.78	8.34	8.94
7.78	8.34	8.94
7.78	8.36	8.98
7.78	8.4	9.04
7.82	8.4	9.06
7.82	8.42	9.1
7.82	8.46	9.12
7.82	8.48	9.12
7.82	8.48	9.16
7.82	8.52	9.18
7.82	8.52	9.16
7.84	8.52	9.16
7.84	8.52	9.16
7.88	8.54	9.18
7.88	8.54	9.18
7.88	8.54	9.18
7.94	8.54	9.22
7.94	8.58	9.24
7.96	8.58	9.28

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7.96	8.6	9.3
7.96	8.64	9.3
8	8.66	9.3
8	8.66	9.3
8	8.7	9.3
8.02	8.7	9.34
8.02	8.7	9.34
8.02	8.72	9.34
8.06	8.72	9.34
8.06	8.72	9.34
8.06	8.76	9.34
8.08	8.76	9.34
8.12	8.78	9.34
8.12	8.82	9.36
8.14	8.86	9.36
8.14	8.86	9.36
8.14	8.88	9.4
8.14	8.88	9.4
8.14	8.88	9.4
8.14	8.92	9.4
8.18	8.92	9.4
8.2	8.92	9.46
8.2	8.92	9.5
8.24	8.94	9.5
8.24	8.94	9.52
8.28	8.98	9.56
8.28	8.98	9.58
8.3	9.04	9.58
8.28	9.04	9.58
8.28	9.06	9.58
8.28	9.1	9.58
8.28	9.12	9.56
8.28	9.12	9.56
8.28	9.12	9.56
8.28	9.12	9.56
8.3	9.16	9.56
8.34	9.16	9.56
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8.34	9.16	9.5
8.34	9.16	9.52
8.34	9.16	9.5
8.36	9.18	9.5
8.36	9.22	9.5
8.36	9.22	9.5
8.34	9.22	9.46
8.34	9.22	9.46
8.34	9.22	9.42
8.34	9.22	9.42
8.34	9.22	9.42
8.34	9.24	9.42
8.34	9.24	9.42

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8.34	9.28	9.42
8.36	9.3	9.42
8.36	9.3	9.42
8.4	9.28	9.42
8.4	9.28	9.42
8.4	9.28	9.42
8.36	9.24	9.42
8.36	9.24	9.46
8.36	9.28	9.46
8.36	9.28	9.46
8.36	9.3	9.42
8.36	9.3	9.42
8.36	9.34	9.4
8.36	9.36	9.4
8.34	9.4	9.36
8.34	9.42	9.36
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8.36	9.42	9.3
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8.36	9.4	9.3
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8.36	9.34	9.3
8.36	9.3	9.28
8.36	9.3	9.24
8.36	9.3	9.22
8.36	9.3	9.22
8.34	9.3	9.18
8.34	9.34	9.12
8.34	9.34	9.1
8.34	9.3	9.06
8.34	9.3	9.04
8.34	9.3	9.04
8.3	9.3	9
8.3	9.28	8.94
8.3	9.28	8.94
8.3	9.24	8.88
8.3	9.22	8.86
8.3	9.22	8.86
8.28	9.22	8.82
8.28	9.18	8.78
8.28	9.18	8.76
8.24	9.18	8.7
8.24	9.16	8.66
8.24	9.16	8.66
8.24	9.12	8.6
8.24	9.12	8.6
8.24	9.12	8.58
8.24	9.1	8.54
8.24	9.06	8.48
8.24	9.04	8.46

8.24	9.04	8.4
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8.14	8.98	8.3
8.14	8.94	8.24
8.14	8.94	8.2
8.12	8.94	8.14
8.08	8.94	8.12
8.08	8.92	8.06
8.06	8.92	8.06
8.06	8.88	8
8.06	8.88	7.96
8.06	8.86	7.9
8.02	8.86	7.88
8	8.82	7.82
7.96	8.78	7.78
7.94	8.76	7.76
7.94	8.76	7.7
7.9	8.76	7.7
7.88	8.76	7.62
7.88	8.72	7.6
7.84	8.7	7.6
7.82	8.7	7.6
7.78	8.66	7.56
7.78	8.66	7.54
7.76	8.66	7.5
7.72	8.66	7.5
7.7	8.66	7.48
7.7	8.6	7.44
7.66	8.58	7.42
7.6	8.54	7.42
7.6	8.52	7.42
7.54	8.48	7.38
7.5	8.46	7.38
7.5	8.4	7.38
7.5	8.36	7.38
7.44	8.34	7.38
7.42	8.28	7.36
7.42	8.24	7.32
7.38	8.18	7.32
7.36	8.14	7.32
7.32	8.08	7.32
7.32	8.02	7.3
7.3	7.96	7.3
7.26	7.94	7.3
7.24	7.88	7.3
7.24	7.84	7.3
7.2	7.78	7.3
7.18	7.78	7.3
7.18	7.76	7.3
7.14	7.72	7.26
7.14	7.7	7.3
7.12	7.7	7.26

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6.96	7.24	7.08
6.96	7.24	7.08
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6.96	7.2	7.08
6.96	7.2	7.04
6.96	7.18	7.04
6.96	7.18	7.04
6.96	7.18	7.04
6.96	7.18	7.08
6.96	7.14	7.04
6.96	7.18	7.04
6.96	7.18	7.04
6.96	7.14	7.02
6.98	7.14	7.02
6.96	7.14	7.04
6.96	7.14	7.04
6.96	7.14	7.04
6.96	7.14	7.08
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6.96	7.14	7.08
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6.92	7.14	7.08
6.92	7.14	7.08
6.92	7.14	7.08
6.92	7.14	7.04
6.92	7.14	7.08
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6.92	7.12	7.02
6.9	7.12	6.98
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6.9	7.08	6.98
6.9	7.08	6.96
6.86	7.04	6.96
6.86	7.04	6.96
6.86	7.04	6.96
6.86	7.02	6.96

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6.72	6.8	6.78
6.78	6.78	6.78
12.6	6.9	6.74
20.3	12.84	6.74
26.28	20.24	6.74
28.66	25.3	13.74
31.62	28.26	18.8
33.26	30.74	25.08
34.24	32.44	28.16
35.06	33.42	30.36
35.46	34.28	32.5
35.94	34.76	33.36
36.2	35.16	34.4
36.34	35.44	34.98
36.46	35.62	35.34
36.56	35.74	35.62
36.6	35.86	35.8
36.66	35.86	35.92
36.68	35.94	36.04
36.74	35.94	36.08
36.78	36.02	36.14
36.78	36.04	36.16
36.84	36.04	36.2
36.84	36.04	36.2
36.84	36.08	36.22
36.78	36.1	36.26
36.78	36.14	36.28
36.74	36.14	36.32
36.74	36.14	36.32
36.74	36.14	36.34
36.74	36.14	36.38
36.78	36.14	36.38
36.78	36.14	36.4
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36.86	36.14	36.4
36.92	36.16	36.4
36.96	36.16	36.4
36.96	36.2	36.4
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36.86	36.2	36.4
36.84	36.2	36.4
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36.86	36.22	36.4
36.92	36.22	36.44
36.96	36.22	36.44
36.96	36.22	36.44
36.92	36.22	36.44
36.92	36.22	36.46
36.92	36.22	36.46

36.9	36.22	36.46
36.86	36.22	36.5
36.86	36.22	36.46
36.86	36.22	36.46
36.9	36.22	36.5
36.92	36.22	36.5
36.96	36.22	36.5
36.96	36.22	36.5
36.96	36.2	36.46
36.96	36.2	36.46
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36.92	36.16	36.46
36.92	36.2	36.46
36.92	36.2	36.44
36.96	36.2	36.44
36.96	36.16	36.44
36.96	36.16	36.44
36.96	36.16	36.44
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36.96	36.16	36.4
36.96	36.16	36.4
36.96	36.16	36.4
36.92	36.16	36.4
36.9	36.14	36.4
36.9	36.14	36.4
36.9	36.14	36.4
36.9	36.16	36.4
36.96	36.2	36.44
37.02	36.22	36.46
37.04	36.22	36.5
37.14	36.28	36.5
37.26	36.34	36.6
37.42	36.4	36.62
37.62	36.56	36.72
37.84	36.74	36.84
38.14	36.92	36.96
38.54	37.24	37.2
38.98	37.66	37.42
39.58	38	37.72
40.44	38.54	38.2
41.04	39.1	38.54
42.14	39.88	39.3
42.78	40.96	40
44.1	41.62	40.72
45.26	42.9	41.62
46.06	43.98	42.42
47.48	45.04	43.48
48.58	46.2	44.52

49.5	46.94	45.44
50.42	48.24	46.48
51.08	49.2	47.46
51.72	49.9	48.18
52.18	50.6	48.98
52.4	51.08	49.5
52.42	51.36	49.96
52.3	51.48	50.24
52.04	51.48	50.32
51.58	51.24	50.26
51.12	50.88	50.04
50.36	50.42	49.74
49.6	49.8	49.26
48.88	49.08	48.76
47.98	48.38	48.06
47.12	47.54	47.36
46.36	46.84	46.7
45.5	45.96	45.9
44.8	45.08	45.04
43.98	44.38	44.5
43.12	43.64	43.76
42.66	42.84	43.22
42.02	42.3	42.54
41.44	41.56	41.84
41.02	41.16	41.48
40.46	40.62	40.9
40.16	40.06	40.44
39.74	39.8	40.1
39.42	39.36	39.74
39.18	39.12	39.48
38.98	38.82	39.22
38.82	38.6	38.98
38.64	38.46	38.82
38.46	38.2	38.64
38.34	38.06	38.46
38.2	37.94	38.36
38.12	37.82	38.2
38.06	37.76	38.12
38	37.62	38.02
37.94	37.54	37.94
37.9	37.48	37.88
37.84	37.38	37.84
37.82	37.3	37.78
37.76	37.26	37.76
37.72	37.2	37.68
37.66	37.18	37.66
37.66	37.1	37.6
37.66	37.04	37.54
37.66	37.04	37.48
37.66	36.98	37.44
37.62	36.96	37.38
37.6	36.9	37.38

37.56	36.86	37.32
37.56	36.84	37.3
37.6	36.8	37.26
37.6	36.78	37.2
37.6	36.74	37.2
37.6	36.68	37.18
37.6	36.68	37.14
37.56	36.66	37.1
37.5	36.62	37.04
37.48	36.62	37.04
37.44	36.6	37.04
37.42	36.6	37.02
37.42	36.56	36.98
37.38	36.52	36.96
37.38	36.5	36.96
37.38	36.5	36.96
37.38	36.46	36.92
37.38	36.46	36.92
37.38	36.44	36.92
37.38	36.44	36.92
37.38	36.4	36.9
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37.38	36.4	36.8
37.36	36.38	36.78
37.32	36.38	36.78
37.3	36.38	36.78
37.3	36.34	36.78
37.3	36.32	36.78
37.26	36.32	36.78
37.26	36.32	36.78
37.24	36.32	36.74
37.2	36.32	36.74
37.2	36.32	36.74

CA003742 - NOPR - GOOD	CA003743 - NOPR - GOOD	CA003744 - NOPR - GOOD
36.86	36.74	36.68
36.86	36.74	36.68
36.86	36.74	32.66
36.86	36.74	24.88
31.58	36.74	19.9
26.18	36.74	15.62
19.14	31.26	12.72
15.66	24.68	11.08
12.78	18.9	9.74
10.9	15.5	8.72
9.82	12.7	8.34
8.94	10.84	7.94
8.36	9.8	7.7
8.02	8.94	7.44
7.76	8.4	7.3
7.6	8.06	7.2
7.48	7.78	7.12
7.42	7.6	7.02
7.36	7.48	6.98
7.32	7.38	6.96
7.3	7.32	6.92
7.26	7.3	6.9
7.24	7.26	6.9
7.2	7.24	6.84
7.18	7.24	6.8
7.14	7.2	6.8
7.14	7.18	6.8
7.08	7.14	6.78
7.08	7.14	6.78
7.08	7.12	6.78
7.04	7.08	6.74
7.04	7.08	6.72
6.98	7.02	6.72
6.98	6.98	6.72
6.96	6.98	6.72
6.92	6.98	6.68
6.9	6.96	6.68
6.9	6.92	6.66
6.9	6.9	6.62
6.86	6.9	6.62
6.86	6.84	6.62
6.84	6.84	6.62
6.8	6.8	6.62
6.8	6.8	6.62
6.8	6.8	6.62
6.78	6.8	6.62
6.74	6.8	6.62
6.72	6.78	6.62
6.72	6.78	6.62
6.72	6.78	6.62
6.72	6.78	6.62

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6.54	6.62	6.62
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6.6	6.66	7.42

6.74	6.84	8.12
7.04	7.14	8.88
7.48	7.62	9.58
8.28	8.4	10.9
9.3	9.4	11.66
11.36	11.02	13.16
14.12	12.88	14.4
17.16	15.84	15.42
21.24	19.02	16.58
25.4	21.76	17.64
28.8	24.82	18.5
32.38	27.38	19.4
34.76	29.12	20.14
36.96	30.92	21
38.72	31.68	21.76
39.46	32.48	22.36
40.32	33.12	22.92
40.68	33.36	23.34
40.86	33.64	23.56
40.84	33.7	23.62
40.62	33.64	23.52
40.2	33.44	23.08
39.56	33.12	22.56
38.76	32.48	21.92
37.56	31.58	21.08
36.46	30.64	20.36
34.82	29.32	19.34
33.12	28.16	18.4
31.56	26.58	17.6
29.64	25.06	16.66
27.84	23.74	15.8
26.3	22.18	15.1
24.6	20.78	14.38
23.26	19.62	13.8
21.7	18.34	13.16
20.14	17.42	12.58
19.28	16.32	12.14
18.12	15.22	11.68
16.94	14.68	11.24
16.3	13.8	11.02
15.36	13.16	10.68
14.9	12.78	10.46
14.12	12.2	10.28
13.62	11.94	10.08
13.28	11.54	9.94
12.82	11.26	9.82
12.48	11.02	9.68
12.24	10.84	9.62
12	10.66	9.5
11.82	10.56	9.42
11.62	10.4	9.34
11.48	10.32	9.22

11.36	10.2	9.12
11.16	10.1	9
11.02	10	8.88
10.92	9.86	8.82
10.74	9.74	8.66
10.58	9.64	8.6
10.44	9.5	8.52
10.28	9.4	8.4
10.14	9.24	8.36
9.98	9.12	8.28
9.82	9.04	8.2
9.74	8.92	8.14
9.62	8.78	8.08
9.52	8.7	8.06
9.4	8.64	8
9.3	8.58	7.96
9.24	8.48	7.94
9.18	8.42	7.88
9.12	8.4	7.88
9.04	8.34	7.84
8.98	8.3	7.78
8.94	8.24	7.78
8.86	8.2	7.76
8.78	8.18	7.7
8.76	8.14	7.66
8.7	8.08	7.6
8.66	8.06	7.56
8.6	8.02	7.54
8.54	7.96	7.5
8.52	7.96	7.5
8.46	7.9	7.44
8.4	7.88	7.42
8.36	7.84	7.42
8.34	7.78	7.42
8.28	7.78	7.38
8.24	7.76	7.36
8.18	7.72	7.32
8.14	7.7	7.32
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8.14	7.66	7.3
8.12	7.66	7.3
8.08	7.62	7.3
8.06	7.62	7.3
8.02	7.6	7.26
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7.96	7.56	7.24
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7.88	7.48	7.18
7.84	7.48	7.18
7.84	7.48	7.14

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7.78	7.42	7.14
7.76	7.42	7.14
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7.72	7.36	7.12
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7.62	7.3	6.98
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7.42	7.18	6.96
7.38	7.14	6.96
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7.36	7.14	6.92
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7.02	6.9	6.8
7.04	6.9	6.8
7.04	6.92	6.84
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7.78	7.32	7.14

7.82	7.32	7.14
7.82	7.32	7.14
7.84	7.32	7.12
7.84	7.32	7.08
7.88	7.32	7.12
7.88	7.32	7.14
7.78	7.3	7.14
7.76	7.24	7.18
7.78	7.24	7.18
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7.88	7.3	7.2
7.88	7.32	7.24
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7.96	7.32	7.24
7.96	7.32	7.24
7.96	7.32	7.24
8	7.32	7.24
8	7.32	7.24
8.02	7.32	7.24
8.02	7.36	7.24
8.06	7.36	7.26
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8.06	7.38	7.3
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8.06	7.42	7.3
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8.06	7.38	7.32
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8.4	7.66	7.48
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8.6	7.72	7.6
8.64	7.76	7.62
8.66	7.76	7.62
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8.88	7.82	7.76
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8.88	7.84	7.76
8.92	7.88	7.78
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8.94	7.88	7.78

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9.12	7.94	7.9
9.12	7.96	7.94
9.12	7.96	7.96
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9.18	8	7.96
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9.22	8	8.06
9.22	8	8.06
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9.24	8.02	8.14
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9.34	8.08	8.24
9.34	8.12	8.24
9.34	8.14	8.24
9.34	8.14	8.28
9.36	8.14	8.3
9.36	8.14	8.34
9.4	8.14	8.34
9.4	8.14	8.4
9.42	8.14	8.4
9.42	8.14	8.4
9.46	8.14	8.46
9.46	8.14	8.48
9.46	8.14	8.48
9.5	8.18	8.52
9.5	8.2	8.54
9.5	8.24	8.58
9.5	8.24	8.58
9.56	8.28	8.58
9.58	8.28	8.58

9.62	8.3	8.58
9.64	8.3	8.58
9.68	8.3	8.58
9.7	8.3	8.6
9.74	8.3	8.6
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9.74	8.3	8.66
9.74	8.3	8.7
9.76	8.3	8.72
9.76	8.3	8.76
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9.82	8.4	8.88
9.82	8.42	8.88
9.86	8.42	8.92
9.86	8.42	8.94
9.86	8.42	8.94
9.86	8.42	8.98
9.86	8.4	9
9.86	8.4	9
9.86	8.4	9
9.86	8.4	9
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9.82	8.36	9.16
9.82	8.36	9.16
9.82	8.36	9.16
9.82	8.36	9.18
9.82	8.36	9.16
9.82	8.4	9.16
9.82	8.4	9.16

9.82	8.4	9.16
9.82	8.46	9.18
9.82	8.48	9.18
9.8	8.48	9.18
9.8	8.48	9.22
9.8	8.48	9.22
9.76	8.52	9.22
9.76	8.52	9.22
9.74	8.52	9.22
9.74	8.52	9.22
9.74	8.52	9.22
9.7	8.52	9.16
9.7	8.52	9.12
9.7	8.52	9.1
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9.68	8.52	9.04
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9.68	8.52	9.04
9.68	8.52	9
9.68	8.52	9
9.68	8.52	8.98
9.64	8.48	8.98
9.64	8.48	8.98
9.64	8.48	8.94
9.62	8.48	8.94
9.62	8.52	8.92
9.58	8.52	8.88
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9.58	8.52	8.86
9.56	8.52	8.82
9.56	8.52	8.82
9.52	8.48	8.78
9.5	8.48	8.76
9.42	8.46	8.76
9.4	8.4	8.72
9.36	8.4	8.7
9.34	8.36	8.66
9.3	8.34	8.66
9.24	8.34	8.64
9.22	8.3	8.6
9.16	8.28	8.58
9.12	8.24	8.54
9.1	8.24	8.52
9.04	8.24	8.48
9	8.18	8.48
8.94	8.14	8.48
8.88	8.12	8.48
8.86	8.06	8.48
8.76	8.02	8.48
8.72	8	8.46
8.66	7.96	8.42
8.6	7.9	8.4

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8.46	7.78	8.34
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8.36	7.7	8.24
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8.24	7.6	8.14
8.24	7.56	8.12
8.18	7.56	8.08
8.14	7.54	8.02
8.12	7.5	8
8.06	7.48	7.96
8.06	7.42	7.94
8	7.42	7.88
7.96	7.38	7.88
7.94	7.36	7.84
7.9	7.36	7.82
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7.84	7.26	7.72
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7.76	7.2	7.66
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7.12	6.9	6.96
7.12	6.9	6.98
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7.14	6.96	6.86
7.12	6.92	6.84
7.08	6.9	6.84
7.08	6.9	6.8
7.08	6.9	6.8
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6.8	6.68	26.82
7.14	7.24	30.3
17.12	16.06	32.22
23.2	22.56	33.36
26.76	26.34	34.34
29.78	29.52	34.98
31.82	31.7	35.36
33.02	32.98	35.7
34.02	34.06	35.86
34.6	34.66	36.04
35.1	35.18	36.14
35.44	35.56	36.22
35.62	35.76	36.26
35.8	35.94	36.28
35.92	36.08	36.32
35.98	36.14	36.32
36.04	36.2	36.34
36.08	36.22	36.38
36.1	36.26	36.4
36.14	36.28	36.4
36.14	36.28	36.44
36.16	36.32	36.44
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36.28	36.34	36.5
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36.56	36.44	36.52
36.6	36.44	36.52
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36.34	36.46	36.6
36.38	36.46	36.66
36.4	36.46	36.74
36.44	36.5	36.84
36.46	36.52	36.98
36.56	36.6	37.14
36.62	36.66	37.38
36.74	36.78	37.76
36.9	36.9	38.02
37.04	37.04	38.46
37.36	37.3	39
37.68	37.62	39.56
38.06	38	40.38
38.58	38.46	40.9
39.06	38.94	41.88
39.8	39.64	42.72
40.62	40.56	43.48
41.38	41.16	44.34
42.38	42.32	45.02
43.4	43.28	45.78

44.26	44.04	46.48
45.32	45.26	46.94
46.14	45.96	47.4
47.12	47.12	47.7
48	48	47.82
48.62	48.52	47.86
49.2	49.28	47.8
49.62	49.74	47.52
49.84	49.98	47.18
49.9	50.1	46.82
49.86	50.08	46.26
49.62	49.9	45.72
49.28	49.56	45.2
48.88	49.16	44.52
48.28	48.58	44.04
47.54	47.92	43.4
47.06	47.3	42.82
46.3	46.56	42.32
45.68	46.06	41.78
44.92	45.16	41.16
44.1	44.38	40.86
43.64	43.82	40.34
42.94	43.12	40.1
42.24	42.44	39.7
41.88	41.96	39.4
41.22	41.42	39.22
40.96	40.98	38.94
40.44	40.52	38.76
40.06	40.14	38.64
39.8	39.8	38.46
39.52	39.48	38.36
39.28	39.22	38.2
39.1	39	38.12
38.88	38.78	38.02
38.76	38.64	37.96
38.6	38.46	37.9
38.48	38.3	37.84
38.4	38.2	37.76
38.3	38.08	37.72
38.2	38.02	37.66
38.12	37.94	37.6
38.02	37.84	37.56
38	37.78	37.5
37.9	37.72	37.48
37.84	37.66	37.42
37.78	37.6	37.38
37.76	37.54	37.36
37.68	37.5	37.3
37.66	37.48	37.26
37.56	37.38	37.2
37.54	37.38	37.18
37.48	37.32	37.14

37.48	37.3	37.1
37.38	37.26	37.08
37.36	37.2	37.04
37.32	37.2	37.04
37.3	37.14	37.04
37.26	37.14	37.02
37.2	37.14	36.98
37.2	37.08	36.96
37.14	37.04	36.96
37.14	36.98	36.92
37.14	36.96	36.9
37.08	36.96	36.9
37.04	36.96	36.9
37.02	36.92	36.86
37.02	36.92	36.86
36.96	36.9	36.86
36.96	36.86	36.86
36.96	36.86	36.86
36.96	36.86	36.86
36.92	36.86	36.86
36.9	36.86	36.86
36.86	36.84	36.86
36.86	36.8	36.86
36.86	36.78	36.84
36.84	36.78	36.84
36.84	36.78	36.8
36.84	36.78	36.8
36.8	36.78	36.8
36.78	36.78	36.78
36.78	36.74	36.78
36.78	36.74	36.78
36.78	36.74	36.78
36.72	36.74	36.78
36.72	36.74	36.78
36.68	36.74	36.74
36.68	36.72	36.74
36.68	36.72	36.74
36.68	36.68	36.72

CA003745 - NOPR - GOOD	CA003746 - NOPR - GOOD	CA003747 - NOPR - GOOD
36.56	36.6	36.52
36.56	36.6	36.52
32.2	33.12	34.36
26.82	24.14	26.04
19.54	20.2	19.84
15.38	15.22	16.2
12.96	12.48	13.1
10.96	10.92	10.8
10	9.68	9.88
8.86	9.06	8.94
8.24	8.4	8.36
7.88	8.02	7.88
7.56	7.82	7.54
7.36	7.66	7.42
7.24	7.54	7.24
7.14	7.44	7.14
7.12	7.38	7.12
7.04	7.32	7.08
6.98	7.26	7.02
6.98	7.2	7.02
6.92	7.14	6.98
6.9	7.08	6.98
6.9	7.08	6.98
6.86	7.02	6.98
6.84	6.98	6.98
6.8	6.96	6.96
6.8	6.92	6.96
6.8	6.9	6.96
6.78	6.9	6.96
6.74	6.86	6.96
6.72	6.8	6.92
6.72	6.8	6.9
6.72	6.78	6.9
6.72	6.78	6.9
6.72	6.74	6.9
6.72	6.74	6.9
6.68	6.72	6.86
6.68	6.72	6.86
6.68	6.68	6.84
6.66	6.68	6.8
6.66	6.66	6.8
6.66	6.66	6.8
6.62	6.62	6.8
6.62	6.62	6.78
6.62	6.62	6.78
6.62	6.62	6.74
6.62	6.6	6.74
6.62	6.6	6.72
6.62	6.6	6.72
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6.62	6.56	6.72

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6.54	6.54	6.62
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6.54	6.54	6.72
6.54	6.56	7.08
6.62	6.62	7.66
6.72	6.8	8.12
6.9	6.98	9
7.2	7.42	10.5

7.44	8.06	11.9
8.08	8.94	14.98
9.22	10.52	17.18
10.16	12.64	22.28
12.18	14.96	26.86
13.74	18	30.92
15.8	20.56	35.56
17.7	23.66	39.64
19.14	26.36	42.72
20.7	28.28	45.74
21.92	30.24	47.8
22.8	31.98	49.66
23.66	32.78	50.9
24.24	33.82	51.48
24.78	34.24	51.64
25.2	34.64	51.3
25.4	34.72	50.5
25.48	34.6	48.98
25.4	34.08	47.92
25.14	33.38	45.92
24.72	32.56	43.48
24.24	31.4	41.88
23.44	30.3	39.12
22.44	28.8	37.2
21.78	27.34	34.8
20.6	26.04	32.56
19.6	24.5	30.76
18.7	23.08	28.66
17.7	21.86	26.8
17.08	20.5	25.3
16.02	19.5	23.66
15.2	18.34	22.46
14.56	17.3	21.12
13.86	16.52	19.98
13.24	15.66	19.14
12.72	14.9	18.24
12.2	14.34	17.48
11.84	13.68	16.94
11.44	13.36	16.36
11.1	12.88	15.94
10.86	12.52	15.48
10.62	12.3	15.1
10.38	12	14.78
10.22	11.78	14.44
10.04	11.54	14.04
9.92	11.36	13.8
9.76	11.16	13.42
9.64	10.98	13.24
9.56	10.8	12.94
9.42	10.66	12.58
9.3	10.46	12.4
9.22	10.32	12.06

9.12	10.1	11.82
9.04	9.92	11.6
8.94	9.8	11.38
8.78	9.62	11.26
8.7	9.46	11.02
8.6	9.34	10.86
8.52	9.22	10.74
8.46	9.12	10.56
8.36	9.04	10.44
8.34	8.94	10.34
8.24	8.88	10.2
8.18	8.82	10.1
8.14	8.76	10
8.06	8.7	9.88
8.06	8.64	9.82
8	8.58	9.7
7.96	8.52	9.58
7.94	8.48	9.56
7.9	8.42	9.42
7.88	8.4	9.36
7.84	8.34	9.28
7.78	8.3	9.22
7.78	8.24	9.12
7.76	8.14	9.06
7.7	8.08	9
7.7	8.06	8.94
7.66	8	8.88
7.6	7.96	8.86
7.6	7.94	8.76
7.56	7.88	8.72
7.54	7.84	8.66
7.5	7.82	8.64
7.5	7.78	8.58
7.5	7.76	8.54
7.48	7.76	8.48
7.44	7.7	8.46
7.42	7.7	8.4
7.42	7.66	8.36
7.38	7.62	8.34
7.36	7.6	8.3
7.32	7.6	8.24
7.32	7.56	8.24
7.32	7.56	8.24
7.3	7.54	8.2
7.3	7.5	8.18
7.26	7.5	8.14
7.24	7.48	8.14
7.24	7.48	8.08
7.24	7.44	8.06
7.2	7.42	8.06
7.2	7.42	8.02
7.18	7.42	8

7.14	7.42	7.96
7.14	7.38	7.94
7.14	7.38	7.9
7.14	7.36	7.88
7.14	7.32	7.88
7.14	7.32	7.84
7.12	7.32	7.84
7.12	7.32	7.82
7.12	7.3	7.78
7.12	7.3	7.78
7.12	7.3	7.76
7.12	7.3	7.76
7.12	7.26	7.72
7.08	7.24	7.7
7.08	7.24	7.7
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7.04	7.08	7.54
7.04	7.08	7.54
7.02	7.08	7.54
7.02	7.08	7.5
6.98	7.08	7.5
6.98	7.08	7.5
6.98	7.08	7.48
6.98	7.08	7.44
6.98	7.08	7.42
6.98	7.08	7.42
6.98	7.08	7.42
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6.96	7.08	7.38
6.96	7.08	7.38
6.92	7.04	7.38
6.92	7.04	7.38
6.92	7.04	7.36
6.9	7.04	7.36
6.9	7.02	7.36
6.9	7.02	7.36
6.9	6.98	7.36
6.9	6.98	7.32
6.9	6.98	7.32
6.9	6.98	7.32
6.86	6.98	7.3
6.86	6.98	7.3
6.86	6.98	7.3
6.86	6.98	7.3

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6.86	6.98	7.3
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6.84	6.98	7.26
6.8	6.98	7.24
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6.8	6.96	7.24
6.8	6.92	7.2
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6.74	6.8	7.04
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6.74	6.78	7.02
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6.78	6.78	7.02
6.78	6.8	7.04
6.78	6.8	7.08
6.8	6.8	7.08
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6.8	6.84	7.12
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6.96	6.98	7.42
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6.96	6.98	7.66
6.96	6.98	7.66

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6.98	7.04	7.7
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6.98	7.08	7.88
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7.04	7.12	7.96
7.04	7.12	7.96
7.04	7.14	7.96
7.04	7.12	7.96

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6.98	7.08	7.9
7.02	7.12	7.9
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7.08	7.14	7.96
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7.08	7.18	7.96
7.12	7.18	8
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7.36	7.7	8.64
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7.42	7.7	8.76
7.42	7.7	8.76
7.42	7.7	8.76
7.42	7.7	8.82
7.42	7.7	8.86
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7.44	7.7	8.92
7.44	7.7	8.94
7.48	7.72	9
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7.56	7.94	9.5
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7.6	7.96	9.74
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7.62	8.02	9.82
7.62	8.02	9.88
7.66	8.06	9.88
7.7	8.06	9.92
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7.7	8.08	9.94
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7.78	8.08	10.2
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7.84	8.18	10.22
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7.84	8.28	10.26
7.88	8.3	10.28
7.88	8.34	10.28
7.88	8.34	10.32
7.9	8.34	10.38
7.94	8.34	10.4
7.94	8.34	10.44
7.96	8.36	10.46
7.96	8.4	10.5
7.96	8.4	10.52
7.96	8.42	10.56
7.96	8.46	10.58
7.96	8.48	10.66
7.96	8.48	10.66
7.96	8.48	10.72
8	8.52	10.74
8.02	8.52	10.78
8.06	8.52	10.8
8.06	8.52	10.84
8.06	8.52	10.86
8.06	8.52	10.9
8.08	8.52	10.92
8.08	8.52	10.96
8.08	8.54	10.98
8.12	8.58	11.02
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8.12	8.66	11.16
8.12	8.66	11.24
8.14	8.66	11.26
8.14	8.66	11.36
8.14	8.7	11.36
8.14	8.7	11.42
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8.14	8.7	11.44
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8.24	8.76	11.36
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8.52	9.04	11.38
8.52	9.04	11.44
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8.42	8.98	11.68
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8.4	8.86	11.74
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8.28	8.52	11.24
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8.12	8.36	11.16
8.08	8.34	11.16
8.06	8.3	11.16
8.02	8.24	11.1
8	8.24	11.08
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7.94	8.14	10.92
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7.32	7.26	9.94
7.32	7.26	9.92
7.3	7.24	9.86
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17.46	15.08	25.6
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26.98	25.82	31.04
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35.74	35.74	36.04
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36.16	36.2	36.28
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36.38	36.5	36.56
36.4	36.52	36.66
36.4	36.6	36.68
36.46	36.62	36.8
36.5	36.68	36.96
36.6	36.74	37.1
36.68	36.84	37.38
36.78	36.96	37.56
36.92	37.1	38.02
37.08	37.26	38.54
37.36	37.5	39.04
37.66	37.84	39.74
38.02	38.18	40.52
38.48	38.64	41.32
39.16	39.18	42.3
39.64	39.74	43.18
40.38	40.62	44.34
41.04	41.14	45.48
41.96	42.18	46.42
43	43.1	47.54
43.68	43.88	48.62
44.84	44.8	49.4
45.78	45.54	50.24

46.56	46.38	50.78
47.4	47.14	51.3
47.88	47.7	51.6
48.62	48.24	51.72
49.08	48.62	51.66
49.26	48.82	51.48
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48.96	48.3	49.38
48.68	47.94	48.46
48.06	47.4	47.88
47.48	46.84	46.88
47.02	46.26	46.18
46.24	45.6	45.48
45.5	45.04	44.5
44.92	44.38	43.98
44.22	43.68	43.12
43.68	43.12	42.44
43	42.54	41.94
42.38	41.96	41.36
41.94	41.5	40.92
41.42	41.02	40.46
40.96	40.64	40.06
40.58	40.26	39.76
40.22	39.86	39.46
39.94	39.64	39.18
39.64	39.36	38.98
39.36	39.1	38.78
39.22	38.9	38.64
39	38.72	38.46
38.88	38.6	38.34
38.76	38.46	38.2
38.64	38.3	38.12
38.54	38.24	38
38.46	38.12	37.94
38.36	38.02	37.84
38.34	37.94	37.76
38.24	37.88	37.72
38.2	37.84	37.66
38.12	37.76	37.62
38.08	37.72	37.56
38.02	37.66	37.5
37.96	37.62	37.48
37.94	37.56	37.44
37.9	37.54	37.38
37.84	37.48	37.38
37.78	37.48	37.3
37.76	37.42	37.3
37.68	37.38	37.24
37.66	37.36	37.2
37.6	37.3	37.18

37.56	37.26	37.14
37.5	37.24	37.14
37.48	37.2	37.08
37.48	37.18	37.04
37.38	37.14	37.04
37.36	37.1	36.98
37.32	37.08	36.96
37.3	37.04	36.96
37.26	37.04	36.96
37.2	37.02	36.96
37.18	36.98	36.9
37.14	36.96	36.9
37.14	36.96	36.86
37.1	36.92	36.86
37.08	36.9	36.86
37.04	36.9	36.86
37.04	36.86	36.84
37.02	36.86	36.84
36.96	36.86	36.84
36.96	36.86	36.84
36.96	36.84	36.84
36.96	36.84	36.84
36.92	36.8	36.8
36.9	36.8	36.8
36.9	36.8	36.78
36.9	36.78	36.78
36.86	36.78	36.78
36.86	36.78	36.78
36.86	36.78	36.78
36.86	36.78	36.78
36.84	36.78	36.74
36.84	36.74	36.74
36.84	36.74	36.74
36.84	36.72	36.74
36.84	36.72	36.74
36.84	36.68	36.74
36.8	36.68	36.74

CA003748 - NOPR - GOOD	CA003749 - NOPR - GOOD	CA003750 - NOPR - GOOD
36.6	36.96	38.54
36.6	36.96	38.54
36.6	36.96	34.46
36.6	36.96	27.28
33.66	34.08	20.7
25.48	25.76	16.18
18.68	18.86	13.52
15.94	16.06	11.26
12.52	12.6	9.98
10.92	10.68	8.88
9.64	9.74	8.14
8.76	8.58	7.7
8.4	8.14	7.36
7.9	7.6	7.12
7.62	7.3	6.98
7.5	7.14	6.9
7.38	6.98	6.84
7.32	6.92	6.8
7.26	6.86	6.78
7.24	6.8	6.78
7.2	6.8	6.74
7.14	6.78	6.74
7.14	6.78	6.74
7.12	6.74	6.74
7.12	6.74	6.74
7.08	6.74	6.74
7.08	6.74	6.78
7.08	6.74	6.78
7.08	6.74	6.78
7.04	6.74	6.78
7.02	6.74	6.78
7.02	6.74	6.78
6.98	6.72	6.78
6.98	6.72	6.78
6.98	6.72	6.78
6.98	6.72	6.78
6.96	6.72	6.78
6.92	6.72	6.78
6.9	6.72	6.78
6.9	6.72	6.74
6.86	6.72	6.74
6.86	6.72	6.72
6.84	6.72	6.72
6.84	6.72	6.72
6.8	6.72	6.72
6.8	6.72	6.68
6.8	6.68	6.68
6.8	6.68	6.68
6.8	6.68	6.66
6.78	6.66	6.62
6.78	6.66	6.62

6.74	6.62	6.62
6.74	6.62	6.62
6.72	6.62	6.62
6.72	6.62	6.62
6.72	6.62	6.62
6.68	6.62	6.62
6.68	6.62	6.62
6.68	6.6	6.62
6.66	6.6	6.62
6.66	6.6	6.62
6.66	6.56	6.62
6.66	6.56	6.62
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6.66	6.56	6.6
6.66	6.56	6.6
6.66	6.56	6.6
6.66	6.56	6.6
6.66	6.56	6.6
6.66	6.56	6.6
6.66	6.56	6.6
6.68	6.56	6.6
6.68	6.56	6.56
6.68	6.56	6.56
6.68	6.56	6.56
6.68	6.56	6.6
6.68	6.56	6.56
6.68	6.56	6.56
6.68	6.56	6.54
6.68	6.56	6.54
6.68	6.56	6.54
6.68	6.56	6.54
6.68	6.56	6.54
6.68	6.6	6.54
6.68	6.6	6.54
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6.62	6.56	6.56
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6.62	6.56	6.56
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6.6	6.56	6.56
6.6	6.54	6.6
6.6	6.56	6.6
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6.56	6.56	6.56
6.56	6.56	6.56
6.56	6.54	6.6
6.56	6.56	6.6
6.56	6.56	6.6
6.56	6.56	6.6
6.56	6.56	6.56
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6.56	6.54	6.56
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6.54	6.54	6.56
6.56	6.54	6.6
6.56	6.54	6.56

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7.96	7.36	13.46
8.54	7.78	16.24
9.98	8.48	18.5
11.66	9.4	20.3
13.7	10.5	22.16
16.72	12.14	23.62
19.6	14.04	24.68
23.66	15.96	25.64
27.64	18.34	26.28
30.82	20.32	26.86
34.28	22.76	27.32
37.14	25	27.62
39.1	26.74	27.86
40.98	28.62	27.98
42.14	30.48	27.96
43.22	31.44	27.78
43.92	32.84	27.46
44.1	33.48	26.88
44.04	34.3	26.18
43.68	34.7	25.42
43.06	34.76	24.42
42.12	34.48	23.38
41.32	33.96	22.44
39.58	33.26	21.12
37.94	32.2	20.38
36.4	31.18	19.22
34.52	29.76	18.04
32.66	28.28	17.36
30.98	27	16.26
29.08	25.48	15.56
27.58	23.98	14.78
25.82	22.76	14.04
24.2	21.4	13.62
22.92	20.36	12.9
21.52	19.14	12.42
20.3	18.04	12.06
19.38	17.18	11.66
18.4	16.26	11.42
17.7	15.48	11.14
16.9	14.86	10.92
16.2	14.1	10.78
15.84	13.74	10.62
15.32	13.24	10.46
14.9	12.78	10.38
14.58	12.54	10.26
14.12	12.24	10.14
13.94	12.02	10
13.54	11.82	9.86
13.24	11.62	9.74
13	11.54	9.58
12.7	11.32	9.42
12.48	11.16	9.3

12.18	11.04	9.16
11.9	10.9	9.04
11.66	10.74	8.88
11.38	10.56	8.76
11.16	10.4	8.64
11.02	10.28	8.48
10.8	10.1	8.36
10.66	9.98	8.3
10.46	9.82	8.24
10.32	9.7	8.14
10.2	9.62	8.08
10.08	9.5	8.02
9.94	9.4	8
9.82	9.3	7.96
9.74	9.22	7.9
9.64	9.12	7.88
9.56	9.04	7.84
9.42	8.94	7.82
9.36	8.92	7.78
9.3	8.82	7.76
9.22	8.76	7.72
9.12	8.66	7.7
9.06	8.6	7.66
9	8.58	7.6
8.94	8.48	7.56
8.88	8.42	7.5
8.86	8.4	7.5
8.78	8.36	7.48
8.72	8.34	7.42
8.66	8.28	7.42
8.64	8.24	7.38
8.58	8.18	7.36
8.54	8.14	7.32
8.48	8.12	7.32
8.46	8.08	7.32
8.4	8.06	7.3
8.36	8	7.3
8.34	7.96	7.3
8.28	7.96	7.3
8.24	7.94	7.3
8.2	7.9	7.3
8.14	7.88	7.3
8.14	7.84	7.26
8.08	7.78	7.26
8.06	7.78	7.24
8.06	7.76	7.24
8	7.72	7.24
8	7.7	7.24
7.96	7.7	7.2
7.96	7.66	7.18
7.96	7.66	7.18
7.9	7.62	7.14

7.88	7.6	7.14
7.88	7.6	7.12
7.84	7.56	7.08
7.82	7.54	7.08
7.78	7.54	7.08
7.78	7.5	7.04
7.78	7.5	7.04
7.76	7.5	7.04
7.72	7.48	7.04
7.7	7.48	7.04
7.7	7.48	7.04
7.66	7.44	7.04
7.62	7.44	7.04
7.62	7.42	7.02
7.6	7.42	7.02
7.6	7.38	7.02
7.6	7.36	6.98
7.6	7.36	6.98
7.56	7.32	6.98
7.56	7.32	6.96
7.54	7.32	6.96
7.5	7.3	6.96
7.5	7.3	6.96
7.5	7.3	6.92
7.5	7.3	6.9
7.5	7.3	6.9
7.5	7.26	6.9
7.48	7.24	6.9
7.44	7.24	6.9
7.42	7.24	6.9
7.42	7.24	6.9
7.38	7.24	6.9
7.36	7.2	6.86
7.36	7.2	6.86
7.32	7.2	6.86
7.32	7.18	6.86
7.32	7.14	6.86
7.32	7.14	6.86
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7.32	7.12	6.86
7.32	7.12	6.86
7.32	7.12	6.86
7.32	7.08	6.86
7.3	7.08	6.86
7.3	7.08	6.84
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7.24	7.04	6.8
7.2	7.04	6.8

7.18	7.04	6.8
7.18	7.04	6.8
7.18	7.04	6.8
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7.14	7.02	6.8
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7.14	7.02	6.78
7.14	7.02	6.78
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7.14	6.98	6.8
7.14	6.98	6.8
7.14	6.98	6.78
7.14	6.98	6.78
7.14	6.98	6.78
7.12	6.98	6.78
7.12	6.98	6.78
7.12	6.96	6.78
7.08	6.96	6.74
7.08	6.96	6.78
7.08	6.92	6.74
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7.08	6.9	6.72
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7.08	6.9	6.72
7.04	6.9	6.72
7.04	6.9	6.72
7.02	6.9	6.72
7.02	6.9	6.72
7.04	6.9	6.72
7.04	6.9	6.72
7.02	6.9	6.72
7.02	6.86	6.72
7.02	6.86	6.72
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6.98	6.86	6.72
6.98	6.86	6.72
6.98	6.86	6.72
6.98	6.86	6.68
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6.96	6.86	6.68

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7.38	7.2	6.9
7.42	7.2	6.92
7.42	7.2	6.92
7.42	7.24	6.96
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7.7	7.3	6.92
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7.66	7.3	6.96
7.66	7.32	6.96
7.66	7.32	6.92
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7.66	7.3	6.96
7.66	7.3	6.96
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7.66	7.3	6.96
7.7	7.3	6.92
7.66	7.3	6.96
7.7	7.32	6.96
7.7	7.3	6.96
7.7	7.3	6.96
7.7	7.3	6.92
7.7	7.32	6.92
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7.7	7.32	6.96
7.7	7.32	6.96
7.7	7.36	6.96
7.7	7.36	6.96
7.7	7.36	6.96
7.7	7.38	6.98
7.7	7.36	6.98
7.7	7.36	6.98
7.7	7.36	6.98
7.7	7.38	6.98
7.7	7.38	6.96

[illegible]

8.12	7.56	7.04
8.12	7.6	7.04
8.14	7.6	7.04
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.14	7.6	7.08
8.18	7.6	7.08
8.18	7.62	7.12
8.18	7.62	7.08
8.2	7.62	7.12
8.2	7.66	7.08
8.24	7.66	7.08
8.24	7.66	7.08
8.24	7.66	7.08
8.24	7.66	7.12
8.24	7.66	7.12
8.28	7.66	7.12
8.28	7.66	7.14
8.3	7.66	7.14
8.3	7.66	7.14
8.34	7.7	7.18
8.34	7.7	7.18
8.36	7.7	7.18
8.4	7.72	7.18
8.4	7.72	7.18
8.4	7.76	7.2
8.4	7.78	7.2
8.4	7.78	7.2
8.4	7.78	7.2
8.42	7.78	7.2
8.42	7.78	7.2
8.42	7.78	7.24
8.42	7.78	7.24
8.42	7.82	7.24
8.42	7.82	7.24
8.46	7.84	7.24
8.46	7.84	7.24
8.46	7.88	7.24
8.46	7.88	7.24
8.48	7.88	7.24
8.48	7.88	7.24
8.48	7.88	7.24
8.48	7.9	7.26
8.48	7.94	7.26
8.52	7.96	7.26
8.54	7.96	7.26

8.54	7.96	7.26
8.54	7.96	7.3
8.58	7.96	7.3
8.58	7.96	7.3
8.58	7.96	7.3
8.58	7.96	7.3
8.58	7.96	7.3
8.58	7.96	7.3
8.6	7.96	7.32
8.6	7.96	7.32
8.6	8	7.32
8.64	8	7.36
8.66	8.02	7.38
8.66	8.02	7.38
8.7	8.06	7.38
8.7	8.06	7.38
8.72	8.06	7.38
8.72	8.06	7.36
8.76	8.08	7.36
8.76	8.12	7.36
8.76	8.14	7.38
8.76	8.14	7.38
8.76	8.14	7.42
8.76	8.18	7.38
8.76	8.2	7.42
8.72	8.2	7.42
8.72	8.24	7.42
8.72	8.24	7.42
8.72	8.24	7.42
8.72	8.24	7.42
8.76	8.24	7.42
8.76	8.24	7.42
8.82	8.24	7.42
8.86	8.28	7.42
8.86	8.28	7.42
8.88	8.3	7.44
8.88	8.34	7.44
8.88	8.36	7.48
8.88	8.4	7.48
8.88	8.4	7.48
8.92	8.4	7.5
8.88	8.4	7.5
8.88	8.4	7.5
8.92	8.4	7.5
8.92	8.4	7.5
8.92	8.4	7.54
8.92	8.4	7.56
8.92	8.42	7.56
8.92	8.42	7.6
8.92	8.46	7.6
8.92	8.46	7.6
8.92	8.48	7.6
8.92	8.48	7.6

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8.88	8.48	7.6
8.88	8.52	7.6
8.86	8.52	7.6
8.86	8.52	7.6
8.86	8.54	7.6
8.88	8.54	7.6
8.88	8.54	7.6
8.88	8.52	7.62
8.88	8.52	7.62
8.92	8.52	7.62
8.92	8.52	7.62
8.92	8.52	7.62
8.92	8.52	7.66
8.92	8.52	7.66
8.92	8.52	7.66
8.92	8.54	7.66
8.92	8.58	7.66
8.92	8.58	7.66
8.92	8.58	7.66
8.92	8.58	7.7
8.94	8.58	7.7
8.94	8.58	7.7
8.94	8.58	7.7
8.98	8.58	7.7
8.98	8.58	7.72
9	8.58	7.72
9.04	8.58	7.76
9.04	8.58	7.76
9.04	8.58	7.76
9.04	8.6	7.76
9.04	8.6	7.72
9.04	8.64	7.76
9.06	8.64	7.78
9.06	8.64	7.78
9.06	8.64	7.78
9.06	8.64	7.78
9.06	8.66	7.78
9.06	8.66	7.78
9.06	8.66	7.78
9.06	8.66	7.78
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9.06	8.66	7.78
9.06	8.66	7.78
9.06	8.66	7.78
9.06	8.66	7.78
9.12	8.7	7.78
9.12	8.72	7.78
9.12	8.76	7.78
9.16	8.76	7.78
9.18	8.78	7.78
9.22	8.78	7.78

9.24	8.82	7.78
9.24	8.82	7.78
9.24	8.82	7.82
9.28	8.82	7.78
9.28	8.82	7.78
9.24	8.82	7.78
9.22	8.82	7.78
9.22	8.82	7.76
9.18	8.82	7.76
9.18	8.82	7.72
9.18	8.82	7.72
9.18	8.82	7.72
9.16	8.82	7.76
9.16	8.82	7.76
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.16	8.82	7.72
9.12	8.82	7.72
9.12	8.82	7.72
9.12	8.82	7.72
9.1	8.82	7.72
9.1	8.78	7.72
9.1	8.76	7.72
9.1	8.72	7.72
9.06	8.7	7.72
9.04	8.66	7.72
9.04	8.66	7.72
8.98	8.66	7.72
8.98	8.66	7.72
8.94	8.66	7.76
8.94	8.66	7.78
8.94	8.66	7.76
8.94	8.66	7.76
8.94	8.64	7.76
8.94	8.6	7.72
8.94	8.6	7.72
8.98	8.6	7.72
9	8.58	7.7
9.04	8.58	7.7
9.04	8.58	7.66
9.04	8.58	7.66
9.04	8.58	7.62

9	8.58	7.62
8.98	8.58	7.62
8.94	8.58	7.62
8.94	8.54	7.62
8.92	8.54	7.62
8.86	8.54	7.6
8.82	8.54	7.6
8.78	8.54	7.6
8.76	8.58	7.6
8.7	8.58	7.56
8.66	8.54	7.56
8.64	8.54	7.56
8.6	8.52	7.54
8.6	8.48	7.54
8.58	8.46	7.5
8.58	8.4	7.5
8.54	8.36	7.5
8.52	8.34	7.5
8.48	8.3	7.5
8.42	8.24	7.48
8.4	8.24	7.48
8.36	8.2	7.48
8.34	8.18	7.42
8.28	8.14	7.42
8.24	8.14	7.36
8.2	8.12	7.32
8.14	8.08	7.32
8.12	8.08	7.26
8.06	8.06	7.24
8.02	8.06	7.24
7.96	8	7.24
7.94	8	7.2
7.88	7.96	7.18
7.82	7.94	7.14
7.78	7.9	7.14
7.72	7.88	7.14
7.7	7.84	7.12
7.62	7.84	7.08
7.6	7.82	7.08
7.56	7.82	7.08
7.5	7.78	7.04
7.5	7.76	7.04
7.48	7.72	7.04
7.44	7.7	7.04
7.42	7.66	7.02
7.38	7.62	7.02
7.32	7.6	7.02
7.32	7.56	7.02
7.32	7.54	6.98
7.3	7.5	6.98
7.26	7.48	6.98
7.24	7.42	6.98

[illegible]

[illegible]

6.92	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.96	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.9	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
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6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
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6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
6.92	6.98	6.86
6.9	6.96	6.84
6.92	6.96	6.84
6.9	6.96	6.8
6.9	6.92	6.8
6.9	6.92	6.8
6.86	6.9	6.8
6.86	6.9	6.8
6.86	6.9	6.78
6.86	6.9	6.78
6.86	6.9	6.74

[illegible]

6.68	6.78	6.66
6.68	6.78	11.84
6.68	6.78	20.2
6.68	6.78	25.98
6.68	6.78	29.32
6.68	6.78	32.56
7.5	7.3	33.88
15.62	15.32	35.46
22.28	22.18	36.34
26.18	26.22	36.86
29.48	29.66	37.3
31.4	31.64	37.56
33.06	33.32	37.78
34.14	34.48	37.94
34.8	35.16	38.02
35.34	35.7	38.08
35.74	36.14	38.14
35.98	36.32	38.18
36.22	36.5	38.2
36.32	36.6	38.2
36.4	36.68	38.24
36.46	36.78	38.26
36.5	36.78	38.3
36.52	36.84	38.3
36.56	36.86	38.3
36.6	36.86	38.34
36.6	36.9	38.36
36.62	36.9	38.36
36.62	36.92	38.4
36.66	36.92	38.4
36.66	36.96	38.4
36.66	36.96	38.4
36.66	36.96	38.4
36.66	36.96	38.4
36.66	36.96	38.4
36.68	36.96	38.4
36.68	36.96	38.42
36.68	36.98	38.42
36.68	36.98	38.42
36.68	36.98	38.42
36.68	37.02	38.42
36.68	36.98	38.42
36.68	36.98	38.42
36.68	37.02	38.42
36.68	36.98	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.68	37.04	38.42
36.68	37.04	38.42
36.68	37.02	38.42

36.68	37.04	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.68	37.04	38.42
36.68	37.04	38.42
36.68	37.04	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.68	37.02	38.42
36.66	37.02	38.42
36.66	37.02	38.42
36.66	36.98	38.42
36.66	36.98	38.42
36.66	36.98	38.42
36.66	36.96	38.4
36.66	36.96	38.4
36.66	36.96	38.4
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36.66	36.96	38.4
36.66	36.96	38.4
36.66	36.96	38.4
36.62	36.96	38.4
36.62	36.96	38.4
36.62	36.96	38.42
36.62	36.96	38.46
36.62	36.96	38.46
36.62	36.96	38.52
36.66	36.96	38.58
36.66	36.96	38.64
36.68	36.96	38.72
36.68	36.96	38.84
36.72	36.98	39
36.78	37.04	39.3
36.86	37.04	39.48
36.98	37.1	39.88
37.14	37.18	40.38
37.3	37.2	40.78
37.56	37.32	41.5
37.96	37.48	42.12
38.24	37.62	42.96
38.82	37.84	43.92
39.18	38.06	44.74
39.82	38.46	45.8
40.72	38.84	46.88
41.3	39.28	47.82
42.36	39.86	48.88
43.28	40.58	49.74
44.12	41.04	50.72
45.16	41.96	51.58

45.96	42.44	52.12
46.9	43.4	52.68
47.72	44.22	53.08
48.38	44.92	53.22
48.98	45.62	53.28
49.4	46.3	53.2
49.66	46.84	52.92
49.8	47.4	52.52
49.78	47.72	52.1
49.62	48.04	51.46
49.28	48.24	50.68
48.92	48.28	50.14
48.38	48.28	49.38
47.8	48.18	48.74
47.22	48	47.92
46.5	47.7	47.02
45.92	47.4	46.5
45.2	46.96	45.66
44.5	46.5	45.04
43.92	46.12	44.5
43.22	45.6	43.92
42.58	45.04	43.46
42.12	44.64	42.94
41.56	44.1	42.52
41.14	43.7	42.18
40.72	43.22	41.8
40.22	42.66	41.5
39.98	42.36	41.22
39.64	41.88	40.98
39.4	41.56	40.8
39.18	41.16	40.62
38.94	40.86	40.4
38.82	40.62	40.32
38.64	40.32	40.16
38.48	40.04	40.06
38.4	39.82	39.94
38.26	39.64	39.82
38.2	39.46	39.8
38.12	39.28	39.68
38.02	39.1	39.62
37.96	38.98	39.56
37.9	38.82	39.48
37.84	38.7	39.42
37.78	38.6	39.36
37.76	38.48	39.34
37.72	38.4	39.28
37.66	38.3	39.24
37.6	38.24	39.22
37.56	38.18	39.18
37.54	38.08	39.12
37.5	38	39.1
37.48	37.94	39.06

[illegible]

CA003751 - NOPR - GOOD	CA003752 - NOPR - GOOD	CA003753 - NOPR - GOOD
36.92	36.66	36.44
36.92	36.66	36.44
32.4	36.66	31.8
25.82	36.66	26.42
19.68	31.82	20.12
15.48	25.32	15.78
13	19.32	13.24
10.92	15.2	10.98
9.52	12.82	10.1
8.72	10.84	9.04
8.06	9.52	8.46
7.7	8.76	8.18
7.36	8.14	7.82
7.14	7.76	7.66
7.02	7.44	7.5
6.92	7.24	7.38
6.86	7.12	7.32
6.8	6.98	7.24
6.8	6.92	7.18
6.78	6.9	7.14
6.78	6.86	7.08
6.74	6.8	7.08
6.74	6.8	7.02
6.74	6.78	6.98
6.74	6.74	6.98
6.74	6.72	6.98
6.74	6.72	6.92
6.74	6.72	6.92
6.72	6.72	6.9
6.72	6.72	6.9
6.72	6.72	6.86
6.72	6.72	6.84
6.72	6.68	6.8
6.72	6.68	6.8
6.72	6.68	6.8
6.72	6.68	6.8
6.72	6.68	6.8
6.72	6.66	6.8
6.72	6.66	6.78
6.68	6.66	6.74
6.68	6.66	6.78
6.68	6.62	6.74
6.66	6.62	6.72
6.66	6.62	6.72
6.66	6.62	6.72
6.62	6.62	6.68
6.62	6.62	6.68
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6.62	6.6	6.66
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6.62	6.6	6.66

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6.54	6.54	6.6
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6.54	6.54	6.56
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6.5	6.46	6.56
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6.6	6.54	6.96
6.74	6.54	7.3
7.08	6.54	7.84
7.44	6.62	8.46
7.96	6.8	9.58
8.76	7.02	11.04

9.68	7.32	12.7
11.24	7.78	15.2
13.1	8.28	18.1
14.92	9.18	20.94
17.28	10.32	24.42
19.66	11.56	27.1
21.7	13.34	30.18
23.96	15.2	33.14
25.66	17	34.52
27.68	19.08	36.22
29.7	20.78	37.62
30.74	22.76	38.18
32.28	24.84	38.72
33.14	26	38.82
33.9	27.8	38.58
34.3	28.9	38.08
34.4	30.12	37.56
34.14	31.12	36.38
33.64	31.76	35.12
32.92	32.26	33.88
31.86	32.48	32.28
30.92	32.38	30.94
29.52	32.02	29.18
28.1	31.5	27.52
26.92	30.6	26.12
25.42	29.52	24.48
24.04	28.54	22.98
22.88	27.2	21.76
21.64	25.66	20.44
20.66	24.72	19.4
19.6	23.16	18.24
18.52	22.34	17.24
17.98	21.06	16.44
17.28	19.68	15.56
16.54	18.98	14.86
16.18	17.8	14.28
15.6	16.9	13.62
15.32	16.2	13.24
14.86	15.48	12.78
14.5	15.08	12.36
14.22	14.4	12.18
13.82	13.92	11.88
13.48	13.58	11.68
13.18	13.22	11.48
12.88	12.88	11.36
12.6	12.64	11.2
12.26	12.36	11.08
11.96	12.18	10.92
11.72	11.9	10.84
11.44	11.68	10.68
11.16	11.48	10.56
10.96	11.26	10.4

10.74	11.02	10.26
10.56	10.84	10.1
10.38	10.66	9.94
10.22	10.46	9.8
10.1	10.28	9.68
9.98	10.1	9.5
9.86	9.98	9.4
9.76	9.82	9.24
9.68	9.7	9.12
9.58	9.58	9
9.5	9.5	8.88
9.4	9.42	8.78
9.3	9.34	8.76
9.24	9.24	8.66
9.18	9.22	8.64
9.12	9.12	8.58
9.04	9.04	8.52
8.98	9	8.48
8.92	8.92	8.46
8.82	8.86	8.4
8.76	8.76	8.36
8.72	8.66	8.34
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8.64	8.54	8.24
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8.52	8.4	8.14
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8.4	8.28	8.06
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8.14	8.02	7.88
8.08	8	7.84
8.06	7.96	7.82
8.06	7.94	7.78
8.02	7.9	7.78
8	7.88	7.72
7.96	7.82	7.7
7.94	7.78	7.7
7.9	7.78	7.66
7.88	7.76	7.62
7.88	7.72	7.6
7.84	7.7	7.6
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7.78	7.62	7.56
7.78	7.6	7.56
7.76	7.6	7.54
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8.46	7.76	7.96

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8.46	8	8.08
8.46	8.02	8.14
8.48	8.06	8.14
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8.58	8.46	8.76
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8.58	8.48	8.82

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8.54	8.48	8.86
8.52	8.48	8.86
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8.48	8.58	8.94
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8.64	8.76	9.24
8.66	8.76	9.24
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8.7	8.92	9.28
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8.66	9	9.4
8.66	9.04	9.42
8.66	9.04	9.42
8.7	9.04	9.46
8.72	9.04	9.46
8.76	9.06	9.46
8.78	9.1	9.42
8.86	9.12	9.4
8.86	9.16	9.4
8.86	9.16	9.34

8.88	9.18	9.34
8.88	9.22	9.34
8.88	9.22	9.36
8.92	9.24	9.4
8.92	9.24	9.4
8.92	9.3	9.4
8.92	9.3	9.46
8.92	9.3	9.5
8.94	9.34	9.52
8.94	9.34	9.56
8.98	9.34	9.58
8.98	9.34	9.58
8.98	9.34	9.58
8.98	9.3	9.58
8.98	9.34	9.58
8.94	9.34	9.58
8.94	9.36	9.58
8.94	9.4	9.58
8.94	9.42	9.58
8.94	9.5	9.58
8.92	9.52	9.58
8.92	9.58	9.58
8.94	9.58	9.58
8.92	9.62	9.58
8.92	9.62	9.58
8.88	9.62	9.58
8.86	9.64	9.58
8.82	9.62	9.58
8.76	9.62	9.56
8.72	9.62	9.5
8.7	9.62	9.5
8.66	9.62	9.42
8.66	9.62	9.4
8.66	9.64	9.36
8.66	9.64	9.34
8.66	9.64	9.3
8.64	9.64	9.3
8.6	9.64	9.28
8.58	9.62	9.28
8.58	9.58	9.3
8.52	9.58	9.3
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8.48	9.52	9.3
8.48	9.5	9.3
8.48	9.5	9.3
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8.48	9.5	9.3
8.42	9.5	9.28
8.4	9.46	9.28
8.36	9.42	9.24
8.34	9.4	9.22
8.3	9.4	9.22

8.28	9.36	9.18
8.2	9.3	9.18
8.18	9.3	9.16
8.14	9.24	9.12
8.12	9.22	9.12
8.06	9.22	9.1
8	9.12	9.06
7.96	9.12	9.04
7.94	9.06	9.04
7.88	9	9.04
7.88	8.94	9
7.84	8.92	8.94
7.78	8.86	8.94
7.78	8.76	8.88
7.72	8.72	8.86
7.7	8.66	8.82
7.66	8.6	8.76
7.6	8.58	8.72
7.6	8.52	8.7
7.54	8.48	8.66
7.5	8.46	8.66
7.48	8.42	8.6
7.42	8.4	8.58
7.38	8.34	8.52
7.36	8.3	8.42
7.32	8.28	8.36
7.32	8.24	8.28
7.32	8.2	8.2
7.3	8.14	8.14
7.3	8.14	8.06
7.26	8.08	8.02
7.24	8.06	7.94
7.24	8.06	7.88
7.24	8	7.88
7.24	7.96	7.82
7.2	7.96	7.78
7.18	7.9	7.76
7.18	7.88	7.7
7.14	7.84	7.7
7.14	7.82	7.62
7.14	7.78	7.6
7.14	7.76	7.56
7.12	7.72	7.54
7.08	7.7	7.5
7.08	7.7	7.5
7.08	7.66	7.48
7.08	7.62	7.48
7.08	7.62	7.42
7.04	7.6	7.42
7.04	7.6	7.42
7.04	7.6	7.38
7.04	7.6	7.38

7.04	7.6	7.38
7.04	7.6	7.38
7.04	7.56	7.36
7.04	7.54	7.36
7.04	7.54	7.32
7.04	7.5	7.32
7.04	7.5	7.32
7.04	7.5	7.32
7.04	7.5	7.3
7.04	7.5	7.3
7.04	7.48	7.3
7.02	7.48	7.3
7.02	7.44	7.3
7.02	7.44	7.3
7.02	7.42	7.3
7.02	7.42	7.3
7.02	7.42	7.3
7.02	7.38	7.3
6.98	7.36	7.3
6.98	7.36	7.3
6.98	7.36	7.26
6.98	7.32	7.26
6.98	7.32	7.26
6.98	7.32	7.24
6.96	7.32	7.24
6.96	7.32	7.24
6.96	7.32	7.2
6.96	7.32	7.2
6.96	7.32	7.2
6.96	7.3	7.2
6.96	7.26	7.2
6.96	7.26	7.2
6.92	7.3	7.2
6.92	7.26	7.2
6.92	7.24	7.2
6.92	7.24	7.2
6.92	7.24	7.2
6.92	7.24	7.2
6.9	7.24	7.18
6.9	7.2	7.18
6.9	7.2	7.18
6.9	7.18	7.14
6.9	7.18	7.14
6.9	7.2	7.18
6.9	7.18	7.14
6.9	7.18	7.14
6.9	7.18	7.14
6.9	7.18	7.14
6.9	7.18	7.14
6.9	7.14	7.14
6.9	7.14	7.14

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6.68	6.72	6.78
6.72	6.72	6.78
6.72	6.72	11.26
8.86	6.72	19.2
16.26	6.72	25.4
22.74	6.72	27.9
26.56	10.84	30.94
29.78	20.02	32.16
32.22	25.24	33.7
33.24	28.28	34.52
34.46	30.86	35.04
35.04	32.62	35.44
35.52	33.64	35.7
35.86	34.52	35.86
36.04	35.04	36.04
36.22	35.44	36.1
36.34	35.74	36.16
36.4	35.92	36.22
36.46	36.04	36.26
36.5	36.14	36.28
36.52	36.2	36.32
36.56	36.26	36.32
36.56	36.28	36.34
36.6	36.32	36.38
36.6	36.34	36.38
36.6	36.34	36.4
36.62	36.38	36.4
36.66	36.38	36.4
36.66	36.4	36.4
36.68	36.4	36.4
36.68	36.4	36.4
36.72	36.4	36.4
36.72	36.4	36.4
36.74	36.4	36.4
36.74	36.4	36.44
36.74	36.44	36.44
36.74	36.46	36.46
36.78	36.46	36.46
36.78	36.46	36.46
36.78	36.5	36.46
36.78	36.5	36.46
36.78	36.5	36.5
36.78	36.5	36.46
36.78	36.5	36.5
36.78	36.5	36.5
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36.78	36.5	36.5
36.78	36.5	36.46
36.78	36.52	36.46
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36.78	36.5	36.46
36.78	36.5	36.46
36.78	36.5	36.44
36.74	36.5	36.44
36.74	36.5	36.44
36.72	36.5	36.4
36.72	36.46	36.4
36.72	36.46	36.4
36.72	36.44	36.4
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36.68	36.4	36.4
36.68	36.4	36.4
36.68	36.4	36.44
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36.72	36.4	36.4
36.72	36.4	36.44
36.72	36.4	36.44
36.74	36.4	36.46
36.74	36.44	36.5
36.78	36.44	36.5
36.8	36.44	36.6
36.86	36.46	36.6
36.96	36.5	36.68
37.04	36.52	36.78
37.18	36.6	36.9
37.32	36.66	37.04
37.54	36.74	37.2
37.9	36.86	37.48
38.12	37.02	37.78
38.66	37.24	38.12
39.22	37.48	38.54
39.8	37.82	39.04
40.56	38.2	39.56
41.26	38.64	40.2
42.26	39.18	40.78
43.28	39.86	41.54
44.22	40.5	42.32
45.38	41.3	43
46.54	42	43.82
47.54	42.94	44.64
48.74	43.98	45.26

49.6	44.64	46.12
50.6	45.68	46.54
51.42	46.5	47.12
51.94	47.06	47.64
52.5	47.88	47.88
52.86	48.28	48.18
52.94	48.82	48.28
52.94	49.16	48.3
52.82	49.28	48.24
52.52	49.4	48.12
52.12	49.34	47.82
51.66	49.22	47.48
51.02	48.92	47.22
50.2	48.7	46.66
49.68	48.18	46.26
48.88	47.66	45.72
48.18	47.3	45.2
47.36	46.64	44.74
46.42	46.06	44.18
45.9	45.5	43.64
45.04	44.92	43.22
44.38	44.4	42.72
43.88	43.82	42.32
43.12	43.24	41.88
42.76	42.78	41.48
42.14	42.3	41.14
41.66	41.8	40.8
41.26	41.42	40.5
40.9	41.04	40.26
40.52	40.72	39.98
40.26	40.34	39.8
39.94	39.98	39.56
39.74	39.8	39.34
39.48	39.56	39.22
39.28	39.3	39.06
39.1	39.12	38.9
38.94	38.9	38.82
38.82	38.78	38.7
38.66	38.64	38.6
38.54	38.46	38.48
38.46	38.36	38.4
38.36	38.2	38.34
38.24	38.12	38.26
38.18	38.02	38.2
38.12	37.94	38.14
38.02	37.84	38.08
38	37.76	38.02
37.9	37.68	37.96
37.84	37.66	37.9
37.82	37.56	37.84
37.76	37.54	37.82
37.68	37.48	37.76

37.62	37.44	37.68
37.56	37.38	37.66
37.56	37.32	37.6
37.5	37.3	37.5
37.48	37.26	37.48
37.42	37.2	37.44
37.38	37.2	37.38
37.36	37.14	37.36
37.32	37.1	37.32
37.3	37.08	37.3
37.3	37.04	37.26
37.24	37.04	37.2
37.2	37.02	37.18
37.2	36.98	37.14
37.18	36.96	37.14
37.18	36.92	37.08
37.14	36.9	37.04
37.14	36.86	37.02
37.14	36.86	36.98
37.1	36.86	36.96
37.08	36.86	36.96
37.08	36.8	36.92
37.08	36.8	36.9
37.04	36.78	36.86
37.04	36.78	36.86
37.04	36.78	36.84
37.04	36.78	36.8
37.04	36.78	36.78
37.04	36.78	36.78
37.02	36.78	36.78
36.98	36.78	36.78
36.98	36.74	36.78
36.96	36.72	36.78
36.96	36.72	36.74
36.96	36.68	36.72
36.96	36.68	36.68
36.92	36.68	36.68

CA003754 - NOPR - GOOD	CA003755 - NOPR - GOOD	CA003756 - NOPR - GOOD
36.4	36.46	36.38
36.4	36.46	36.4
33.02	32.92	32.54
24.14	24.04	26.04
20.18	20.12	19.84
15.2	15.16	15.6
12.42	12.42	13.12
10.8	11.1	11.08
9.46	9.56	9.74
8.82	8.92	8.94
8.06	8.14	8.34
7.6	7.7	7.94
7.42	7.5	7.6
7.14	7.24	7.42
6.98	7.08	7.26
6.92	7.04	7.18
6.84	6.96	7.08
6.8	6.9	7.02
6.78	6.86	6.98
6.72	6.84	6.92
6.72	6.8	6.9
6.72	6.8	6.9
6.68	6.8	6.86
6.66	6.8	6.84
6.66	6.78	6.8
6.62	6.78	6.8
6.62	6.74	6.8
6.62	6.74	6.78
6.62	6.74	6.74
6.6	6.72	6.72
6.56	6.72	6.72
6.56	6.72	6.72
6.56	6.72	6.72
6.54	6.72	6.72
6.54	6.72	6.72
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6.54	6.62	6.66
6.54	6.66	6.68
6.54	6.62	6.66
6.54	6.62	6.66
6.54	6.62	6.66
6.54	6.62	6.66

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6.54	6.54	6.54
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6.54	6.54	6.5
6.5	6.54	6.5
6.54	6.54	6.54
6.6	6.72	6.62
6.66	7.02	6.74
6.8	7.42	7.04
6.98	8.14	7.38
7.24	9.1	7.82
7.7	10.38	8.54

8.4	12.26	9.56
9.16	14.32	10.74
10.4	17.52	12.46
12.18	21.02	14.12
13.42	24.24	16.36
15.72	28.08	18.62
17	31.62	20.56
19.1	34.46	22.8
21.36	37.42	24.88
22.62	39.56	26.56
24.68	41.74	28.56
26.3	43.7	29.58
27.58	44.64	30.92
28.9	45.74	32.04
29.78	46.2	32.38
30.68	46.3	32.74
31.22	45.96	32.78
31.44	45.48	32.44
31.4	44.18	31.82
31.12	42.7	31.1
30.64	41.2	29.96
29.9	39.24	28.8
29.18	37.56	27.68
28.1	35.36	26.34
26.82	33.24	25.24
26	31.5	23.84
24.6	29.42	22.52
23.62	27.46	21.46
22.46	25.9	20.26
21.3	24.16	19.02
20.56	22.86	18.34
19.34	21.36	17.28
18.44	19.84	16.78
17.66	19.04	16.06
16.84	17.98	15.32
16.24	16.9	14.96
15.56	16.36	14.4
14.98	15.56	14
14.52	15.2	13.68
14.04	14.68	13.34
13.64	14.22	13.12
13.34	13.94	12.76
12.96	13.58	12.46
12.7	13.28	12.2
12.4	13.06	11.94
12.08	12.78	11.66
11.88	12.58	11.44
11.6	12.3	11.16
11.36	12.06	10.96
11.1	11.82	10.74
10.86	11.54	10.5
10.68	11.3	10.34

10.44	11.08	10.14
10.2	10.84	9.98
10.08	10.66	9.82
9.88	10.44	9.68
9.7	10.22	9.58
9.58	10.08	9.5
9.42	9.88	9.36
9.34	9.74	9.28
9.22	9.62	9.18
9.1	9.5	9.1
9	9.4	9.04
8.88	9.3	8.94
8.78	9.22	8.88
8.76	9.18	8.78
8.66	9.12	8.72
8.6	9.04	8.66
8.48	9	8.58
8.42	8.94	8.52
8.4	8.92	8.46
8.34	8.86	8.4
8.24	8.76	8.4
8.2	8.72	8.34
8.14	8.66	8.24
8.12	8.58	8.24
8.06	8.52	8.18
8	8.46	8.14
7.96	8.4	8.08
7.9	8.34	8.06
7.88	8.28	8.02
7.88	8.24	7.96
7.82	8.2	7.96
7.78	8.14	7.9
7.78	8.12	7.88
7.72	8.08	7.84
7.7	8.06	7.78
7.66	8.06	7.78
7.62	8.02	7.76
7.6	8	7.72
7.6	7.96	7.7
7.56	7.94	7.66
7.5	7.9	7.6
7.5	7.88	7.6
7.48	7.88	7.6
7.44	7.84	7.56
7.42	7.82	7.56
7.42	7.78	7.56
7.42	7.78	7.54
7.42	7.78	7.5
7.42	7.76	7.5
7.38	7.7	7.5
7.36	7.7	7.5
7.36	7.66	7.48

7.32	7.62	7.48
7.32	7.62	7.48
7.32	7.6	7.44
7.32	7.6	7.44
7.32	7.56	7.42
7.3	7.54	7.42
7.3	7.54	7.42
7.26	7.5	7.36
7.26	7.5	7.36
7.24	7.48	7.32
7.24	7.44	7.32
7.2	7.42	7.32
7.2	7.42	7.32
7.18	7.42	7.3
7.18	7.38	7.3
7.18	7.38	7.3
7.14	7.38	7.3
7.14	7.38	7.3
7.14	7.38	7.26
7.14	7.38	7.26
7.14	7.36	7.26
7.14	7.36	7.24
7.14	7.32	7.24
7.12	7.32	7.2
7.12	7.32	7.2
7.08	7.32	7.18
7.08	7.3	7.18
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6.98	7.14	7.02
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6.98	7.14	6.98
6.96	7.12	6.98
6.96	7.12	6.98
6.96	7.12	6.98
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6.92	7.08	6.96
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6.9	6.98	6.92
6.86	6.98	6.92
6.86	6.98	6.92
6.84	6.98	6.92
6.84	6.98	6.9
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6.98	7.2	7.04
7.02	7.24	7.08
7.02	7.24	7.08
7.02	7.24	7.08
7.04	7.24	7.08
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7.12	7.38	7.12

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7.36	7.7	7.38
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7.38	7.7	7.42
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7.42	7.72	7.42

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7.42	7.72	7.48
7.42	7.72	7.48
7.42	7.72	7.48
7.42	7.76	7.48
7.42	7.78	7.5
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7.44	7.82	7.5
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7.6	8.06	7.54
7.6	8.06	7.56
7.62	8.08	7.6
7.62	8.12	7.62
7.66	8.12	7.62
7.66	8.14	7.66
7.66	8.14	7.66
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7.7	8.2	7.7
7.7	8.24	7.72
7.7	8.24	7.76
7.7	8.28	7.78
7.7	8.34	7.78
7.72	8.34	7.82
7.72	8.36	7.82
7.72	8.4	7.82
7.76	8.4	7.84
7.76	8.42	7.88
7.72	8.48	7.88
7.76	8.48	7.88

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7.76	8.54	7.9
7.76	8.54	7.94
7.76	8.54	7.94
7.76	8.58	7.96
7.76	8.58	8
7.76	8.6	8.02
7.78	8.64	8.06
7.82	8.66	8.06
7.82	8.7	8.06
7.84	8.72	8.12
7.88	8.76	8.12
7.88	8.76	8.14
7.9	8.78	8.14
7.9	8.78	8.14
7.94	8.82	8.2
7.96	8.82	8.24
7.96	8.82	8.24
8	8.82	8.24
8.02	8.82	8.3
8.06	8.82	8.34
8.06	8.86	8.34
8.06	8.88	8.34
8.08	8.92	8.36
8.08	8.94	8.4
8.08	8.94	8.4
8.08	8.98	8.46
8.08	9.04	8.48
8.12	9.04	8.48
8.14	9.06	8.52
8.14	9.1	8.58
8.14	9.12	8.6
8.14	9.12	8.64
8.18	9.12	8.66
8.18	9.12	8.66
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8.18	9.24	8.76
8.2	9.28	8.76
8.2	9.3	8.76
8.2	9.3	8.76
8.2	9.34	8.76
8.24	9.36	8.78
8.24	9.36	8.86
8.3	9.36	8.86
8.34	9.36	8.86
8.34	9.36	8.88
8.34	9.4	8.88
8.34	9.4	8.92
8.34	9.4	8.92
8.34	9.4	8.92

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8.34	9.42	8.92
8.34	9.46	8.92
8.34	9.5	8.94
8.34	9.5	8.94
8.34	9.52	9
8.34	9.56	9.04
8.36	9.56	9.04
8.36	9.56	9.04
8.4	9.58	9.06
8.4	9.58	9.1
8.42	9.58	9.12
8.46	9.58	9.12
8.46	9.62	9.1
8.48	9.68	9.1
8.48	9.74	9.1
8.48	9.74	9.12
8.48	9.8	9.12
8.48	9.82	9.12
8.48	9.86	9.16
8.48	9.92	9.16
8.48	9.92	9.18
8.52	9.94	9.22
8.54	9.98	9.22
8.54	9.98	9.22
8.54	10	9.22
8.58	10	9.24
8.58	10	9.24
8.58	10.08	9.24
8.58	10.1	9.28
8.58	10.1	9.3
8.58	10.16	9.3
8.58	10.2	9.36
8.6	10.22	9.4
8.66	10.28	9.42
8.66	10.28	9.46
8.66	10.34	9.5
8.7	10.38	9.5
8.72	10.4	9.5
8.72	10.46	9.5
8.72	10.46	9.5
8.72	10.5	9.52
8.72	10.5	9.58
8.72	10.52	9.62
8.72	10.52	9.68
8.72	10.52	9.7
8.76	10.56	9.74
8.76	10.56	9.76
8.76	10.56	9.8
8.76	10.58	9.82
8.76	10.58	9.82
8.76	10.62	9.8

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8.78	10.62	9.74
8.78	10.62	9.74
8.82	10.62	9.7
8.78	10.58	9.7
8.78	10.56	9.68
8.78	10.56	9.68
8.76	10.56	9.68
8.76	10.52	9.68
8.76	10.52	9.7
8.72	10.56	9.74
8.72	10.56	9.74
8.7	10.58	9.74
8.72	10.58	9.74
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8.72	10.62	9.74
8.72	10.62	9.68
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8.76	10.62	9.68
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8.76	10.62	9.68
8.76	10.62	9.68
8.76	10.58	9.68
8.76	10.56	9.64
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8.76	10.52	9.64
8.76	10.46	9.68
8.76	10.46	9.68
8.76	10.46	9.68
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8.72	10.46	9.58
8.72	10.46	9.58
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8.66	10.46	9.56
8.66	10.46	9.52
8.66	10.46	9.52
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8.64	10.46	9.52
8.6	10.44	9.5
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8.58	10.38	9.52
8.58	10.38	9.56

8.54	10.34	9.56
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8.52	10.34	9.58
8.48	10.34	9.62
8.42	10.32	9.58
8.4	10.28	9.58
8.36	10.28	9.56
8.34	10.28	9.56
8.3	10.28	9.5
8.24	10.26	9.5
8.2	10.26	9.42
8.14	10.2	9.4
8.12	10.16	9.4
8.06	10.1	9.36
8.02	10.1	9.3
7.96	10.08	9.3
7.9	10.04	9.28
7.84	10	9.22
7.82	10	9.18
7.76	9.98	9.12
7.7	9.98	9.06
7.7	9.92	9.04
7.62	9.92	8.98
7.6	9.88	8.94
7.56	9.82	8.88
7.5	9.82	8.86
7.5	9.74	8.82
7.5	9.7	8.76
7.44	9.68	8.76
7.44	9.58	8.7
7.42	9.56	8.66
7.38	9.5	8.6
7.38	9.4	8.58
7.32	9.36	8.48
7.32	9.3	8.46
7.32	9.28	8.4
7.3	9.22	8.34
7.3	9.22	8.34
7.26	9.16	8.28
7.26	9.12	8.24
7.24	9.1	8.18
7.24	9.04	8.14
7.24	9.04	8.12
7.2	9	8.08
7.2	8.94	8.06
7.14	8.92	8.06
7.14	8.86	8
7.12	8.82	7.96
7.12	8.76	7.96
7.08	8.7	7.96
7.08	8.66	7.94
7.08	8.64	7.9

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7.04	8.48	7.88
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7.04	8.34	7.82
7.02	8.28	7.82
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6.98	8.14	7.78
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6.96	8	7.7
6.92	7.96	7.7
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6.96	7.94	7.66
6.96	7.94	7.62
6.96	7.88	7.62
6.92	7.88	7.62
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6.78	7.54	7.3
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12.26	15.44	12.84
18.76	22.1	21.3
24.38	26.64	24.68
27.64	29.26	28.94
30.42	31.5	31.32
32.62	32.84	32.68
33.5	33.9	33.88
34.46	34.76	34.54
35.18	35.1	35.12
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35.88	35.7	35.76
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36.22	36.02	36.1
36.32	36.08	36.16
36.34	36.14	36.22
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36.4	36.2	36.32
36.44	36.22	36.32
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41.42	41.8	41.9
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45.92	46.24	46.5

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47.54	48	48.46
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48.88	49.04	49.68
49.44	49.54	50.02
49.84	49.72	50.42
50.08	49.86	50.6
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50.08	49.54	50.32
49.84	49.26	50.04
49.54	48.8	49.62
49.08	48.22	49.2
48.56	47.82	48.58
48.06	47.22	47.98
47.46	46.7	47.4
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46.24	45.26	46.02
45.6	44.9	45.44
45.04	44.1	44.76
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43.7	43	43.6
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42.66	42.14	42.54
42.32	41.6	42.02
41.78	41.14	41.56
41.32	40.8	41.16
40.96	40.44	40.72
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40.2	39.86	40.06
39.92	39.58	39.8
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39.18	38.94	39.16
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37.08	36.9	36.96
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36.96	36.74	36.8
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7.26	6.54	6.96
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12.14	6.66	12.32
14.2	7.02	14.74
16.38	7.38	18.18
18.52	8	21.54
21.42	8.82	26
23.08	9.58	30.24
25.9	11.44	33.56
28.14	13.62	37.14
29.6	16.02	39.88
31.96	19.2	42.02
33.44	21.94	44.46
35.1	25.48	45.54
36.44	28.72	46.9
37.3	31.22	48
38.06	33.88	48.34
38.42	36.08	48.46
38.42	37.66	48.24
38.12	39.18	47.64
37.6	40.16	46.38
36.66	41.08	45.44
35.56	41.74	43.48
34.52	41.88	41.66
33.12	41.74	39.92
31.68	41.26	37.78
30.42	40.52	36.04
28.9	39.42	33.82
27.7	38.54	31.74
26.22	36.72	30.06
24.68	35.06	28.08
23.86	33.54	26.3
22.52	31.7	24.84
21.52	29.94	23.26
20.76	28.38	22.04
19.92	26.68	20.66
19.44	25.3	19.5
18.7	23.72	18.62
18.12	22.34	17.64
17.7	21.24	16.7
17.24	20.08	16.2
16.82	19.04	15.6
16.44	18.28	15.16
16.08	17.48	14.7
15.74	16.9	14.28
15.38	16.26	14.06
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14.68	15.36	13.52
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11.94	12.18	11.62
11.72	11.96	11.38
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9.86	9.5	9.4
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9.68	9.28	9.22
9.64	9.22	9.12
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9.5	9.04	9
9.42	8.98	8.94
9.36	8.92	8.88
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9.18	8.72	8.7
9.12	8.66	8.64
9.06	8.64	8.6
9.04	8.58	8.58
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8.94	8.48	8.48
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8.28	7.42	7.62
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9.28	7.72	7.96
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9.86	7.96	8.54
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10.34	8.24	8.6
10.38	8.24	8.64
10.4	8.24	8.66
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10.78	9.06	8.58
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10.58	9.04	8.36
10.56	9.04	8.34
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10.38	9	7.88
10.32	9	7.82
10.28	9	7.78
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10.22	9	7.62
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10.2	8.98	7.5

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10.08	8.86	7.42
10.04	8.86	7.42
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9.94	8.86	7.32
9.94	8.86	7.32
9.92	8.86	7.32
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9.86	8.72	7.18
9.82	8.72	7.14
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9.22	8.4	7.02
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9	8.24	6.98
8.94	8.24	6.98
8.92	8.2	6.98
8.86	8.14	6.96
8.78	8.14	6.96
8.76	8.14	6.96
8.72	8.12	6.96
8.7	8.06	6.96
8.66	8.06	6.96
8.58	8.02	6.92

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8.48	7.96	6.92
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7.96	7.76	6.86
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36.56	36.86	37.76
36.62	36.86	37.76
36.68	36.86	37.82
36.78	36.86	37.84
36.9	36.86	37.94
37.04	36.86	38.02
37.3	36.86	38.14
37.5	36.9	38.3
37.88	36.96	38.52
38.3	36.96	38.82
38.76	37.02	39.04
39.36	37.1	39.56
40.06	37.18	40.06
40.8	37.36	40.58
41.68	37.54	41.26
42.48	37.76	41.88
43.52	38.08	42.76
44.74	38.4	43.64
45.44	38.88	44.4
46.48	39.42	45.44
47.48	39.94	46.38
48.28	40.72	47.22

49.26	41.5	48.16
49.72	42.24	48.86
50.32	43.18	49.62
50.82	43.94	50.3
50.96	44.96	50.68
51.12	46.08	51.08
51.08	46.72	51.34
50.9	47.64	51.36
50.6	48.56	51.3
50.32	48.98	51.14
49.74	49.6	50.82
49.16	49.96	50.32
48.62	50.24	49.96
47.92	50.42	49.34
47.36	50.42	48.58
46.6	50.24	48.1
45.86	49.98	47.28
45.32	49.68	46.82
44.62	49.22	45.96
43.94	48.88	45.26
43.4	48.16	44.8
42.84	47.54	44.1
42.38	47.08	43.48
41.88	46.3	43
41.42	45.62	42.48
41.08	45.04	42.12
40.72	44.46	41.68
40.28	43.92	41.3
40.06	43.34	40.98
39.8	42.78	40.64
39.58	42.36	40.4
39.34	41.88	40.2
39.1	41.44	39.98
38.98	41.1	39.8
38.78	40.74	39.64
38.64	40.46	39.46
38.54	40.16	39.36
38.4	39.86	39.28
38.3	39.7	39.16
38.2	39.46	39.1
38.12	39.28	38.98
38.02	39.12	38.9
37.94	38.94	38.82
37.84	38.84	38.76
37.78	38.72	38.72
37.72	38.6	38.64
37.68	38.54	38.64
37.62	38.4	38.58
37.56	38.34	38.54
37.5	38.24	38.52
37.48	38.18	38.46
37.42	38.12	38.46

37.36	38.02	38.4
37.3	37.96	38.36
37.3	37.9	38.34
37.24	37.84	38.3
37.18	37.84	38.3
37.14	37.76	38.24
37.14	37.72	38.2
37.1	37.68	38.2
37.08	37.66	38.18
37.04	37.6	38.14
37.02	37.56	38.14
36.98	37.5	38.12
36.96	37.48	38.12
36.92	37.48	38.12
36.9	37.44	38.08
36.86	37.44	38.06
36.86	37.38	38.02
36.84	37.38	38.02
36.84	37.36	38
36.8	37.36	37.96
36.8	37.32	37.96
36.8	37.3	37.96
36.78	37.3	37.94
36.78	37.3	37.94
36.78	37.26	37.94
36.78	37.24	37.94
36.74	37.2	37.94
36.68	37.2	37.94
36.68	37.2	37.94
36.68	37.18	37.9
36.66	37.18	37.9
36.66	37.14	37.88
36.66	37.14	37.88
36.62	37.14	37.88
36.62	37.14	37.88
36.62	37.14	37.88
36.62	37.14	37.88

CA003760 - NOPR - GOOD	CA003761 - NOPR - GOOD	CA003762 - NOPR - GOOD
36.22	36.38	38.46
36.22	36.38	38.46
33.12	36.38	33.5
26.22	36.38	25.4
19.14	36.38	21.14
16.26	36.38	15.86
13.16	36.38	13.76
10.74	36.32	11.16
9.82	31.04	9.74
8.66	23.4	9.04
8.14	18.04	8.2
7.78	14.86	7.76
7.42	12.2	7.5
7.3	10.68	7.3
7.14	9.4	7.18
7.08	8.48	7.08
7.02	8.02	6.98
6.98	7.6	6.98
6.96	7.3	6.92
6.96	7.14	6.9
6.96	7.02	6.9
6.96	6.96	6.9
6.92	6.9	6.9
6.92	6.84	6.86
6.92	6.84	6.86
6.9	6.84	6.86
6.9	6.84	6.84
6.9	6.84	6.84
6.9	6.84	6.84
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.8	6.8
6.9	6.8	6.8
6.86	6.8	6.8
6.84	6.8	6.8
6.8	6.84	6.78
6.8	6.84	6.78
6.8	6.8	6.74
6.78	6.8	6.74
6.74	6.8	6.78
6.74	6.8	6.74
6.74	6.8	6.74
6.72	6.8	6.72
6.72	6.78	6.72
6.72	6.78	6.72
6.72	6.74	6.72
6.68	6.74	6.72
6.68	6.72	6.72
6.66	6.72	6.72
6.66	6.72	6.72

[illegible]

6.56	6.54	6.62
6.56	6.54	6.62
6.54	6.54	6.62
6.54	6.54	6.62
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.56	6.54	6.6
6.54	6.54	6.62
6.56	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.6
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.56
6.54	6.54	6.54
6.54	6.54	6.56
6.54	6.54	6.54
6.54	6.54	6.54
6.54	6.54	6.54
6.54	6.54	6.54
6.54	6.54	6.56
6.54	6.54	6.56
6.56	6.54	6.56
6.54	6.54	6.54
6.56	6.54	6.56
6.56	6.54	6.56

[illegible]

[illegible]

13.68	6.56	10.28
17.24	6.72	10.86
20.82	6.9	11.72
24.38	7.36	12.4
28.66	7.88	13.28
32.2	8.66	14.28
36.4	10	14.86
40.16	11.54	15.9
43.1	14.28	16.72
46.14	17.54	17.46
48.82	20.66	18.24
50.9	24.62	18.86
53.04	28.44	19.5
54.54	31.52	20.02
56.06	34.82	20.3
57.1	37.2	20.48
57.62	39.74	20.44
57.8	41.84	20.24
57.46	43.4	19.86
56.68	45.04	19.44
55.38	46.66	18.82
54.02	47.46	18.16
51.94	48.56	17.54
49.34	48.98	16.82
47.64	49.34	16.12
45.1	49.28	15.48
42.64	48.96	14.7
40.44	48.06	14.32
37.54	46.64	13.74
35.94	45.5	13.16
33.2	43.36	12.84
31.06	42	12.4
29.36	39.3	12.08
27.46	37.02	11.78
26.1	35.06	11.5
24.48	32.74	11.26
23.08	30.6	11.04
22.06	28.8	10.84
20.96	26.82	10.66
20.06	25.3	10.46
19.38	23.6	10.28
18.64	22.1	10.1
18.16	20.94	9.92
17.54	19.72	9.74
17.08	18.7	9.58
16.7	17.88	9.4
16.26	17.08	9.3
15.84	16.54	9.12
15.56	15.9	9.04
15.2	15.38	8.92
14.92	14.98	8.82
14.58	14.58	8.76

14.16	14.22	8.66
13.94	13.92	8.58
13.52	13.62	8.52
13.24	13.42	8.46
13.04	13.12	8.4
12.7	12.88	8.34
12.52	12.7	8.28
12.26	12.42	8.24
12.08	12.24	8.14
11.94	12	8.08
11.78	11.74	8.06
11.62	11.56	7.96
11.5	11.36	7.9
11.36	11.16	7.84
11.26	11.02	7.78
11.16	10.84	7.76
11.04	10.74	7.72
10.96	10.58	7.7
10.84	10.46	7.66
10.74	10.34	7.62
10.66	10.22	7.6
10.5	10.14	7.56
10.4	10.04	7.54
10.28	9.94	7.5
10.2	9.88	7.5
10.1	9.8	7.48
10	9.7	7.48
9.88	9.64	7.44
9.82	9.58	7.44
9.76	9.5	7.42
9.74	9.42	7.38
9.68	9.36	7.38
9.58	9.3	7.36
9.56	9.24	7.32
9.5	9.22	7.32
9.42	9.16	7.32
9.4	9.1	7.3
9.3	9.04	7.3
9.24	8.98	7.3
9.22	8.92	7.26
9.12	8.88	7.24
9.1	8.82	7.24
9.04	8.76	7.24
8.98	8.7	7.24
8.94	8.64	7.24
8.86	8.58	7.2
8.86	8.54	7.2
8.82	8.48	7.2
8.76	8.48	7.2
8.76	8.42	7.18
8.7	8.4	7.18
8.66	8.34	7.14

8.64	8.3	7.14
8.6	8.28	7.14
8.58	8.28	7.12
8.54	8.24	7.12
8.52	8.2	7.08
8.48	8.14	7.08
8.42	8.12	7.08
8.4	8.12	7.04
8.4	8.08	7.04
8.34	8.06	7.04
8.34	8.02	7.02
8.34	8	7.02
8.28	8	7.02
8.24	7.96	7.02
8.24	7.96	7.02
8.2	7.96	6.98
8.2	7.94	6.98
8.2	7.9	6.98
8.18	7.88	6.98
8.18	7.88	6.98
8.14	7.88	6.96
8.14	7.84	6.96
8.14	7.84	6.92
8.14	7.82	6.9
8.12	7.78	6.9
8.12	7.76	6.9
8.08	7.72	6.9
8.06	7.7	6.9
8.06	7.7	6.9
8.02	7.7	6.86
8	7.7	6.86
7.96	7.7	6.86
7.96	7.66	6.86
7.96	7.66	6.86
7.96	7.62	6.86
7.94	7.6	6.86
7.94	7.6	6.86
7.9	7.6	6.86
7.9	7.56	6.86
7.9	7.54	6.86
7.9	7.54	6.86
7.9	7.5	6.86
7.88	7.5	6.86
7.88	7.5	6.86
7.84	7.5	6.86
7.82	7.5	6.86
7.78	7.48	6.86
7.78	7.48	6.86
7.78	7.48	6.86
7.78	7.44	6.86
7.78	7.44	6.86
7.78	7.44	6.84

7.78	7.44	6.84
7.76	7.44	6.84
7.76	7.44	6.84
7.76	7.42	6.84
7.72	7.42	6.84
7.7	7.42	6.84
7.7	7.42	6.8
7.7	7.42	6.8
7.7	7.42	6.8
7.7	7.42	6.8
7.7	7.42	6.8
7.66	7.42	6.8
7.62	7.42	6.8
7.6	7.38	6.8
7.6	7.36	6.78
7.56	7.32	6.78
7.54	7.3	6.78
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7.5	7.26	6.78
7.5	7.26	6.74
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7.5	7.26	6.74
7.5	7.26	6.74
7.5	7.24	6.74
7.5	7.24	6.74
7.5	7.24	6.74
7.5	7.24	6.74
7.5	7.24	6.72
7.48	7.24	6.72
7.44	7.2	6.72
7.42	7.2	6.72
7.42	7.2	6.72
7.42	7.18	6.72
7.38	7.14	6.72
7.36	7.14	6.72
7.36	7.14	6.72
7.36	7.14	6.72
7.36	7.14	6.72
7.32	7.14	6.72
7.32	7.14	6.72
7.32	7.14	6.72
7.32	7.14	6.72
7.32	7.14	6.72
7.32	7.12	6.72
7.32	7.12	6.72
7.32	7.12	6.72
7.32	7.08	6.72
7.32	7.08	6.72
7.32	7.08	6.72
7.32	7.08	6.72

7.32	7.08	6.72
7.32	7.08	6.72
7.32	7.08	6.72
7.32	7.08	6.72
7.3	7.08	6.72
7.3	7.08	6.72
7.3	7.04	6.72
7.3	7.04	6.72
7.3	7.04	6.72
7.3	7.04	6.72
7.26	7.04	6.68
7.26	7.04	6.68
7.24	7.04	6.68
7.26	7.02	6.72
7.26	7.02	6.72
7.3	7.02	6.72
7.32	7.02	6.72
7.36	7.02	6.72
7.38	7.02	6.74
7.42	7.02	6.74
7.42	7.02	6.78
7.44	7.04	6.8
7.48	7.08	6.8
7.5	7.08	6.8
7.5	7.12	6.8
7.54	7.14	6.8
7.56	7.14	6.8
7.6	7.14	6.8
7.6	7.18	6.8
7.6	7.18	6.8
7.6	7.2	6.8
7.6	7.2	6.8
7.6	7.2	6.8
7.6	7.2	6.8
7.6	7.2	6.8
7.6	7.2	6.8
7.62	7.2	6.84
7.66	7.2	6.8
7.7	7.2	6.84
7.7	7.2	6.84
7.7	7.24	6.84
7.7	7.24	6.86
7.7	7.26	6.86
7.7	7.3	6.86
7.72	7.32	6.86
7.72	7.32	6.86
7.72	7.32	6.86
7.72	7.36	6.86
7.72	7.36	6.86
7.72	7.36	6.86
7.72	7.36	6.86

7.76	7.36	6.86
7.76	7.36	6.86
7.78	7.38	6.86
7.78	7.38	6.86
7.78	7.38	6.86
7.82	7.38	6.86
7.82	7.42	6.86
7.82	7.42	6.86
7.82	7.42	6.86
7.84	7.42	6.86
7.84	7.44	6.86
7.88	7.44	6.86
7.88	7.44	6.86
7.88	7.44	6.86
7.88	7.44	6.86
7.88	7.48	6.9
7.88	7.48	6.9
7.88	7.48	6.86
7.88	7.48	6.9
7.88	7.5	6.9
7.9	7.5	6.9
7.9	7.54	6.9
7.94	7.56	6.9
7.94	7.56	6.9
7.96	7.6	6.9
7.96	7.6	6.9
7.96	7.6	6.92
7.96	7.6	6.9
8	7.6	6.92
8	7.6	6.92
8	7.62	6.92
8.02	7.62	6.92
8.06	7.62	6.92
8.06	7.62	6.96
8.06	7.62	6.92
8.06	7.62	6.96
8.06	7.62	6.96
8.08	7.62	6.96
8.08	7.62	6.98
8.12	7.66	6.98
8.12	7.66	6.98
8.12	7.66	6.98
8.14	7.66	6.98
8.14	7.7	6.98
8.14	7.7	6.98
8.14	7.7	6.98
8.14	7.7	6.98
8.14	7.7	6.98
8.14	7.7	7.02
8.14	7.7	7.02
8.18	7.72	7.02

8.18	7.72	7.02
8.18	7.76	6.98
8.18	7.78	6.98
8.18	7.78	6.98
8.18	7.78	6.98
8.18	7.78	7.02
8.18	7.78	7.02
8.18	7.78	7.02
8.2	7.78	7.02
8.24	7.78	7.02
8.24	7.78	7.02
8.24	7.78	7.02
8.28	7.78	7.02
8.24	7.78	7.02
8.28	7.78	7.02
8.28	7.78	7.02
8.24	7.78	7.02
8.28	7.78	7.02
8.28	7.82	7.02
8.24	7.82	7.02
8.24	7.82	7.02
8.24	7.82	7.02
8.24	7.82	7.02
8.24	7.82	7.02
8.24	7.82	7.02
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8.24	7.82	7.02
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8.24	7.84	7.02
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8.28	7.82	7.02
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8.28	7.88	7.02
8.28	7.88	7.02
8.28	7.88	7.02
8.3	7.88	7.02
8.3	7.88	7.02
8.3	7.88	7.02
8.34	7.88	7.02
8.34	7.88	7.02
8.34	7.9	7.02
8.34	7.9	7.02
8.34	7.94	7.02
8.34	7.94	7.02
8.34	7.94	7.02
8.34	7.94	7.02
8.3	7.96	7.02
8.3	7.96	7.02
8.3	7.96	7.02

8.3	7.96	7.02
8.28	7.96	7.02
8.3	7.96	7.02
8.3	7.96	7.02
8.3	7.96	7.04
8.3	7.96	7.04
8.3	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
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8.34	7.96	7.04
8.34	7.96	7.04
8.34	7.96	7.04
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8.34	7.96	7.02
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8.4	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.4	8	7.02
8.4	8	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.42	7.96	7.02
8.42	8	7.02
8.4	8	7.02
8.42	7.96	7.02
8.4	7.96	7.02
8.4	7.96	7.02
8.42	7.96	7.02
8.42	7.96	7.02
8.42	8	7.02
8.4	8	7.02
8.4	8	7.04
8.4	8.02	7.04
8.4	8.02	7.04
8.4	8.06	7.04
8.4	8.06	7.04
8.4	8.06	7.04
8.4	8.06	7.04

8.4	8.06	7.04
8.42	8.06	7.04
8.46	8.06	7.04
8.46	8.06	7.04
8.48	8.06	7.04
8.48	8.06	7.04
8.48	8.06	7.04
8.46	8.06	7.04
8.46	8.06	7.04
8.46	8.06	7.02
8.46	8.06	7.02
8.46	8.06	7.04
8.46	8.06	7.04
8.46	8.06	7.04
8.42	8.06	7.04
8.42	8.06	7.04
8.42	8.06	7.04
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8.48	8.12	6.98
8.54	8.14	6.98
8.58	8.14	6.98
8.6	8.14	6.98
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9	8.34	7.02
9.04	8.34	7.02
9.04	8.34	7.02

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9.92	8.86	7.14
9.94	8.86	7.14
9.98	8.86	7.14
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10.04	8.88	7.18
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10.68	9.34	7.38
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10.86	9.5	7.78
10.84	9.5	7.78
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10.74	9.46	7.82
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10.46	9.06	7.54

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10.04	8.76	7.42
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10	8.64	7.38
10	8.6	7.38
10	8.58	7.38
10	8.58	7.38
9.98	8.54	7.38
9.94	8.48	7.38
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9.92	8.46	7.36
9.92	8.42	7.32
9.86	8.42	7.32
9.82	8.4	7.3
9.76	8.4	7.26
9.74	8.36	7.24
9.68	8.34	7.24
9.64	8.34	7.24
9.58	8.34	7.24
9.52	8.34	7.24
9.5	8.3	7.2
9.42	8.24	7.2
9.4	8.24	7.2
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9.24	8.12	7.2
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8.98	7.88	7.2
8.92	7.84	7.2
8.86	7.78	7.18
8.82	7.78	7.18

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36.46	36.14	38.46
36.56	36.14	38.54
36.68	36.16	38.64
36.86	36.2	38.78
37.04	36.22	39
37.32	36.22	39.24
37.66	36.28	39.52
38.02	36.32	39.88
38.54	36.44	40.26
39.16	36.56	40.78
39.74	36.72	41.44
40.52	36.92	41.88
41.48	37.14	42.72
42.12	37.5	43.36
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44.9	39.04	45.48
45.96	39.88	46.38
46.54	40.44	47.06
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49.02	44.5	48.86
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49.34	46.5	49.14
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48.92	49.16	48.74
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47.48	50.62	47.58
47.08	50.82	47.06
46.38	50.84	46.6
45.62	50.72	46.02
45.2	50.48	45.48
44.38	50.08	44.96
43.7	49.68	44.46
43.22	49.08	43.98
42.58	48.4	43.48
42.14	47.8	43
41.6	47.02	42.64
41.14	46.3	42.24
40.74	45.66	41.88
40.34	44.92	41.56
39.98	44.32	41.26
39.7	43.6	41.04
39.4	42.94	40.8
39.18	42.42	40.52
38.9	41.88	40.4
38.72	41.32	40.22
38.58	40.92	40.06
38.46	40.44	39.98
38.3	40.16	39.86
38.18	39.74	39.8
38.06	39.42	39.68
37.96	39.24	39.58
37.84	38.94	39.52
37.76	38.76	39.46
37.72	38.54	39.36
37.66	38.4	39.34
37.56	38.3	39.28
37.5	38.12	39.24
37.48	38	39.18
37.42	37.9	39.16
37.36	37.82	39.12
37.3	37.72	39.1
37.26	37.62	39.04
37.2	37.56	39
37.14	37.48	38.98
37.14	37.42	38.94
37.08	37.36	38.9
37.04	37.3	38.9

37.02	37.26	38.88
36.96	37.24	38.82
36.92	37.18	38.82
36.86	37.14	38.78
36.86	37.08	38.78
36.84	37.04	38.76
36.8	37.02	38.72
36.78	36.96	38.72
36.78	36.92	38.7
36.74	36.9	38.66
36.74	36.86	38.64
36.72	36.86	38.64
36.72	36.84	38.64
36.68	36.78	38.6
36.68	36.78	38.6
36.68	36.74	38.58
36.66	36.72	38.58
36.6	36.68	38.58
36.6	36.68	38.58
36.6	36.66	38.54
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36.56	36.6	38.54
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36.46	36.5	38.48
36.44	36.46	38.48
36.44	36.46	38.48
36.4	36.44	38.48
36.4	36.44	38.48

CA003763 - NOPR - GOOD	CA003764 - NOPR - GOOD	CA003765 - NOPR - GOOD
36.34	36.4	36.16
36.32	36.4	36.16
36.32	32.5	36.16
36.32	24.82	36.2
31.76	19.84	32.56
23.14	15.56	24.6
19.4	12.7	18.86
15.28	11.02	15.48
12.14	9.64	12.64
10.92	8.6	10.74
9.4	8.2	9.68
8.7	7.78	8.76
8.2	7.5	8.24
7.72	7.32	7.78
7.54	7.18	7.5
7.32	7.12	7.36
7.24	7.08	7.2
7.14	6.98	7.12
7.08	6.98	7.04
7.04	6.96	6.98
7.02	6.92	6.92
6.98	6.9	6.9
6.98	6.9	6.86
6.92	6.86	6.84
6.9	6.86	6.8
6.9	6.84	6.8
6.9	6.8	6.8
6.9	6.8	6.78
6.86	6.78	6.78
6.84	6.74	6.74
6.84	6.72	6.74
6.8	6.72	6.74
6.8	6.72	6.72
6.8	6.72	6.72
6.78	6.72	6.72
6.78	6.72	6.72
6.74	6.72	6.72
6.72	6.72	6.72
6.72	6.72	6.72
6.72	6.68	6.72
6.72	6.68	6.68
6.72	6.68	6.68
6.72	6.68	6.68
6.72	6.66	6.68
6.72	6.66	6.68
6.72	6.62	6.66
6.72	6.62	6.66
6.72	6.62	6.66
6.72	6.62	6.66
6.72	6.62	6.62

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6.72	6.56	6.66
6.72	6.56	6.62
6.68	6.56	6.62
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6.66	6.54	6.6
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6.54	6.54	6.44
6.54	6.56	6.44
6.54	6.62	6.46
6.54	6.8	6.54
6.66	7.08	6.56
6.84	7.42	6.74
6.98	8	7.04
7.32	8.7	7.32

7.7	9.82	8.08
8.2	11.38	9.06
8.98	12.42	10.1
9.58	14.32	12.32
10.96	15.72	13.92
12.26	17.28	17.46
13.46	19.4	20.6
14.98	20.66	23.38
16.54	22.82	26.62
17.92	24.6	29.54
19.5	26.12	31.86
20.78	27.84	34.22
22.28	29.08	35.94
23.62	30.48	37.78
24.68	31.64	39.28
25.82	32.38	40.28
26.74	32.92	41.2
27.38	33.14	41.74
27.92	33.02	41.88
28.08	32.56	41.6
28.08	32.02	41.22
27.84	31.04	40.1
27.5	29.76	38.9
26.74	28.9	37.88
26.06	27.38	35.94
25.08	26.06	34.54
24.1	25.14	32.66
23.22	23.62	30.82
22.16	22.8	29.3
21.12	21.4	27.5
20.3	20.3	25.84
19.32	19.44	24.48
18.56	18.52	22.94
17.66	17.7	21.82
16.9	17.06	20.5
16.26	16.38	19.38
15.62	15.9	18.52
15.08	15.38	17.58
14.62	14.92	16.78
14.16	14.58	16.2
13.82	14.22	15.56
13.46	13.92	15.14
13.12	13.64	14.68
12.88	13.36	14.22
12.6	13.16	14
12.32	12.88	13.68
12.18	12.6	13.34
11.94	12.42	13.16
11.78	12.18	12.88
11.56	11.9	12.7
11.36	11.68	12.4
11.24	11.44	12.14

11.02	11.26	11.96
10.84	11.02	11.66
10.66	10.84	11.42
10.5	10.74	11.2
10.38	10.56	11.02
10.2	10.4	10.84
10.08	10.28	10.66
9.94	10.2	10.46
9.82	10.1	10.32
9.74	10	10.2
9.68	9.92	10.08
9.58	9.86	9.94
9.5	9.76	9.86
9.4	9.7	9.76
9.3	9.62	9.68
9.22	9.56	9.58
9.18	9.5	9.56
9.1	9.4	9.46
9.04	9.3	9.4
8.98	9.22	9.34
8.92	9.12	9.24
8.82	9.04	9.18
8.76	8.98	9.12
8.7	8.92	9.04
8.64	8.86	8.98
8.58	8.82	8.88
8.54	8.76	8.86
8.48	8.7	8.76
8.46	8.66	8.72
8.4	8.64	8.66
8.36	8.58	8.6
8.34	8.54	8.58
8.28	8.52	8.52
8.24	8.48	8.46
8.18	8.42	8.4
8.14	8.4	8.36
8.14	8.36	8.34
8.08	8.34	8.3
8.06	8.28	8.24
8.02	8.24	8.24
7.96	8.2	8.18
7.96	8.14	8.14
7.96	8.12	8.08
7.94	8.08	8.06
7.9	8.06	8.06
7.88	8.02	8.02
7.84	8	7.96
7.82	7.96	7.94
7.78	7.96	7.9
7.78	7.94	7.88
7.78	7.9	7.88
7.78	7.9	7.84

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7.72	7.88	7.78
7.7	7.84	7.78
7.7	7.82	7.78
7.7	7.78	7.76
7.7	7.76	7.72
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7.62	7.7	7.66
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7.42	7.48	7.42
7.38	7.48	7.42
7.38	7.48	7.42
7.36	7.48	7.42
7.32	7.44	7.42
7.32	7.44	7.42
7.32	7.44	7.38
7.32	7.44	7.38
7.32	7.42	7.38
7.3	7.42	7.36
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7.26	7.38	7.32
7.24	7.36	7.32
7.24	7.32	7.32
7.24	7.32	7.32
7.24	7.32	7.32
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7.02	7.12	7.08
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7.04	7.12	7.08
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6.9	6.98	6.86
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6.9	7.04	6.9
6.92	7.04	6.9
6.96	7.08	6.9
6.96	7.08	6.92
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7.7	8.24	7.96
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7.62	8.48	8.24
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7.66	8.66	8.52
7.66	8.66	8.54
7.7	8.7	8.58
7.7	8.7	8.58
7.72	8.72	8.6
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7.78	8.88	8.76
7.82	8.92	8.76
7.84	8.94	8.78
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7.88	8.94	8.78
7.9	8.94	8.82
7.9	8.94	8.86
7.9	8.94	8.88
7.9	8.94	8.92
7.9	8.94	8.92
7.94	8.98	8.98
7.94	9	9.04
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7.96	9.12	9.18
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7.96	9.22	9.22
8	9.24	9.22
8.02	9.28	9.22
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8.24	9.62	9.58
8.24	9.58	9.64
8.28	9.62	9.68
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8.34	9.64	9.7
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8.36	9.68	9.74
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8.4	9.68	9.8
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8.42	9.7	9.88
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8.4	9.8	9.94
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8.42	9.98	10.1
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8.58	9.94	10.4
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8.6	10	10.46
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8.72	9.94	10.46
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8.86	9.92	10.56
8.86	9.92	10.56
8.86	9.92	10.56
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8.52	9.86	10.86
8.48	9.86	10.86
8.46	9.86	10.86
8.4	9.86	10.86
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8.3	9.82	10.84
8.24	9.82	10.8
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8.18	9.82	10.68
8.14	9.8	10.66
8.14	9.76	10.62
8.08	9.74	10.58
8.06	9.7	10.56
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8.02	9.64	10.5
8	9.62	10.46
7.96	9.58	10.46

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7.94	9.5	10.44
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7.88	9.4	10.46
7.88	9.34	10.46
7.84	9.3	10.46
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7.76	9.18	10.46
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7.72	9.12	10.46
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7.7	8.98	10.38
7.66	8.94	10.34
7.62	8.92	10.28
7.6	8.88	10.26
7.6	8.86	10.22
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7.48	8.34	9.8
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7.42	8.18	9.58
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7.42	8.12	9.5
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7.38	8.06	9.42
7.36	8.02	9.4
7.32	7.96	9.36
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7.24	7.66	8.48
7.24	7.66	8.46
7.24	7.62	8.42
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7.18	7.62	8.34
7.14	7.62	8.34
7.14	7.62	8.28
7.14	7.62	8.24
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13.42	27.98	15.56
19.62	30.88	21.14
24.9	32.04	25.9
29	33.48	29.58
30.64	34.18	31.04
32.66	34.76	32.84
33.64	35.16	33.84
34.46	35.4	34.46
35	35.62	34.94
35.34	35.74	35.24
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35.82	35.86	35.64
35.94	35.94	35.74
36.04	35.94	35.82
36.08	36.02	35.88
36.14	36.02	35.92
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36.26	36.14	36.14
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36.32	36.2	36.14
36.32	36.22	36.14
36.34	36.28	36.16
36.38	36.38	36.22
36.4	36.46	36.26
36.44	36.6	36.32
36.52	36.78	36.38
36.6	36.98	36.44
36.72	37.24	36.6
36.9	37.6	36.78
37.08	37.94	36.96
37.32	38.52	37.26
37.66	39.12	37.54
38.02	39.74	37.96
38.46	40.56	38.48
38.94	41.6	39
39.62	42.24	39.7
40.34	43.4	40.58
40.98	44.1	41.2
41.88	45.32	42.12
42.76	46.3	42.9
43.52	46.94	43.92
44.52	47.94	45.04

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46.08	49.2	46.76
46.84	49.68	47.54
47.28	49.9	48.12
47.92	50.08	48.74
48.24	50.08	49.04
48.52	49.96	49.4
48.64	49.66	49.54
48.64	49.26	49.54
48.5	48.82	49.4
48.24	48.28	49.14
48	47.72	48.86
47.48	47.02	48.3
47.06	46.3	47.94
46.48	45.68	47.22
45.86	44.96	46.56
45.32	44.26	45.96
44.74	43.68	45.26
44.1	43	44.62
43.54	42.52	43.98
42.94	41.94	43.36
42.48	41.38	42.84
41.9	40.98	42.24
41.42	40.52	41.68
41.02	40.1	41.22
40.58	39.8	40.78
40.16	39.42	40.34
39.92	39.22	39.98
39.62	38.9	39.64
39.36	38.64	39.36
39.1	38.52	39.1
38.84	38.3	38.78
38.72	38.18	38.64
38.54	38.02	38.42
38.4	37.9	38.26
38.3	37.82	38.12
38.14	37.66	37.94
38.06	37.56	37.84
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37.88	37.44	37.6
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37.72	37.3	37.44
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37.6	37.2	37.36
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37.48	37.1	37.2
37.44	37.04	37.18
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37.38	36.96	37.08
37.3	36.92	37.02
37.26	36.86	36.98
37.24	36.86	36.96

37.18	36.8	36.9
37.14	36.78	36.86
37.1	36.78	36.84
37.04	36.72	36.8
37.04	36.72	36.78
37.02	36.68	36.74
36.96	36.68	36.72
36.96	36.66	36.68
36.9	36.62	36.68
36.86	36.62	36.66
36.86	36.6	36.62
36.84	36.6	36.62
36.8	36.6	36.62
36.78	36.56	36.6
36.78	36.56	36.6
36.74	36.52	36.6
36.74	36.5	36.6
36.72	36.5	36.56
36.72	36.5	36.56
36.68	36.46	36.56
36.68	36.44	36.52
36.68	36.44	36.52
36.68	36.4	36.52
36.66	36.4	36.5
36.62	36.4	36.5
36.62	36.4	36.5
36.6	36.4	36.5
36.6	36.4	36.46
36.6	36.38	36.46
36.56	36.38	36.46
36.56	36.38	36.44
36.56	36.34	36.44
36.56	36.34	36.4
36.52	36.32	36.4
36.52	36.32	36.4
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36.52	36.32	36.4

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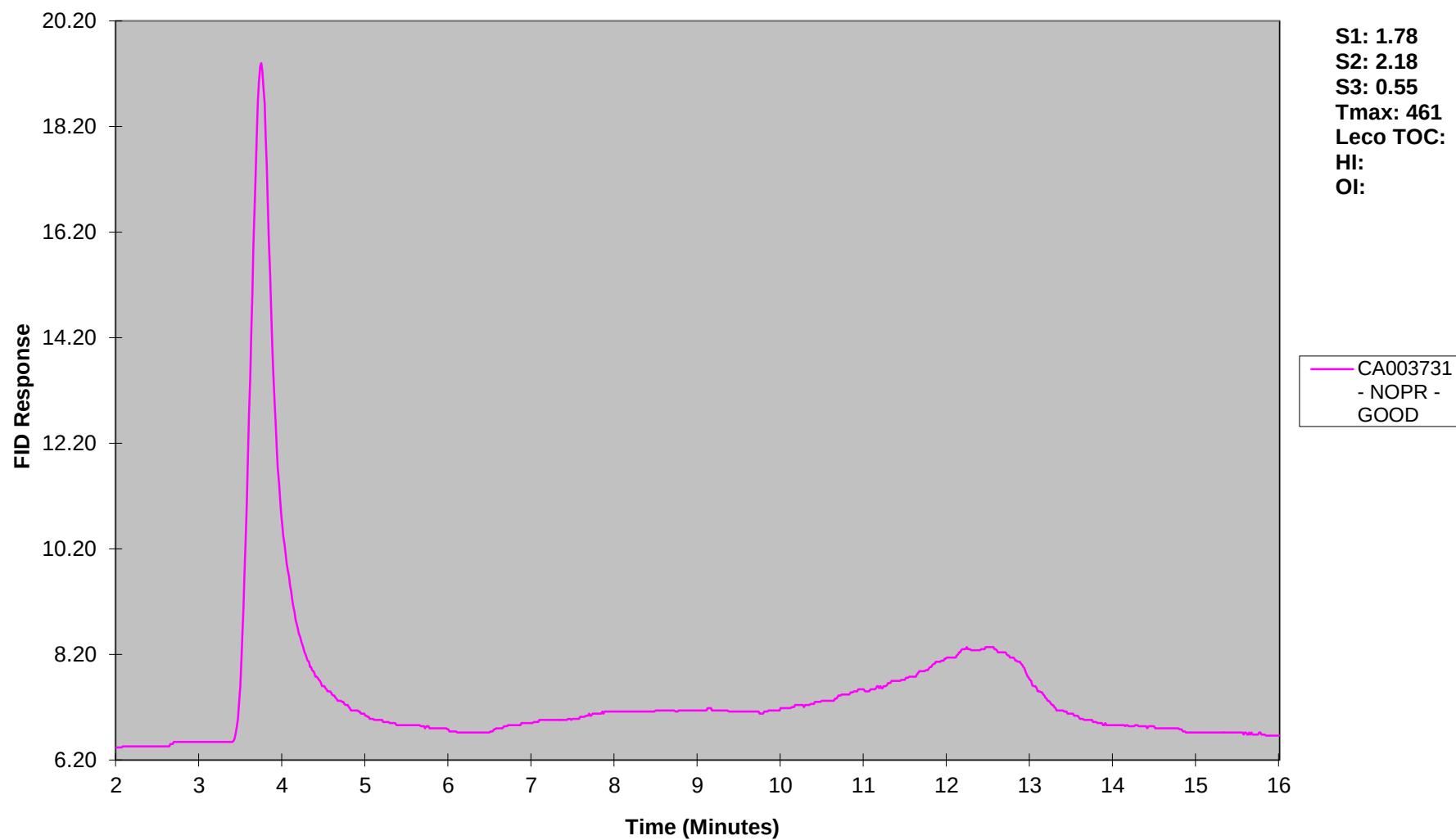
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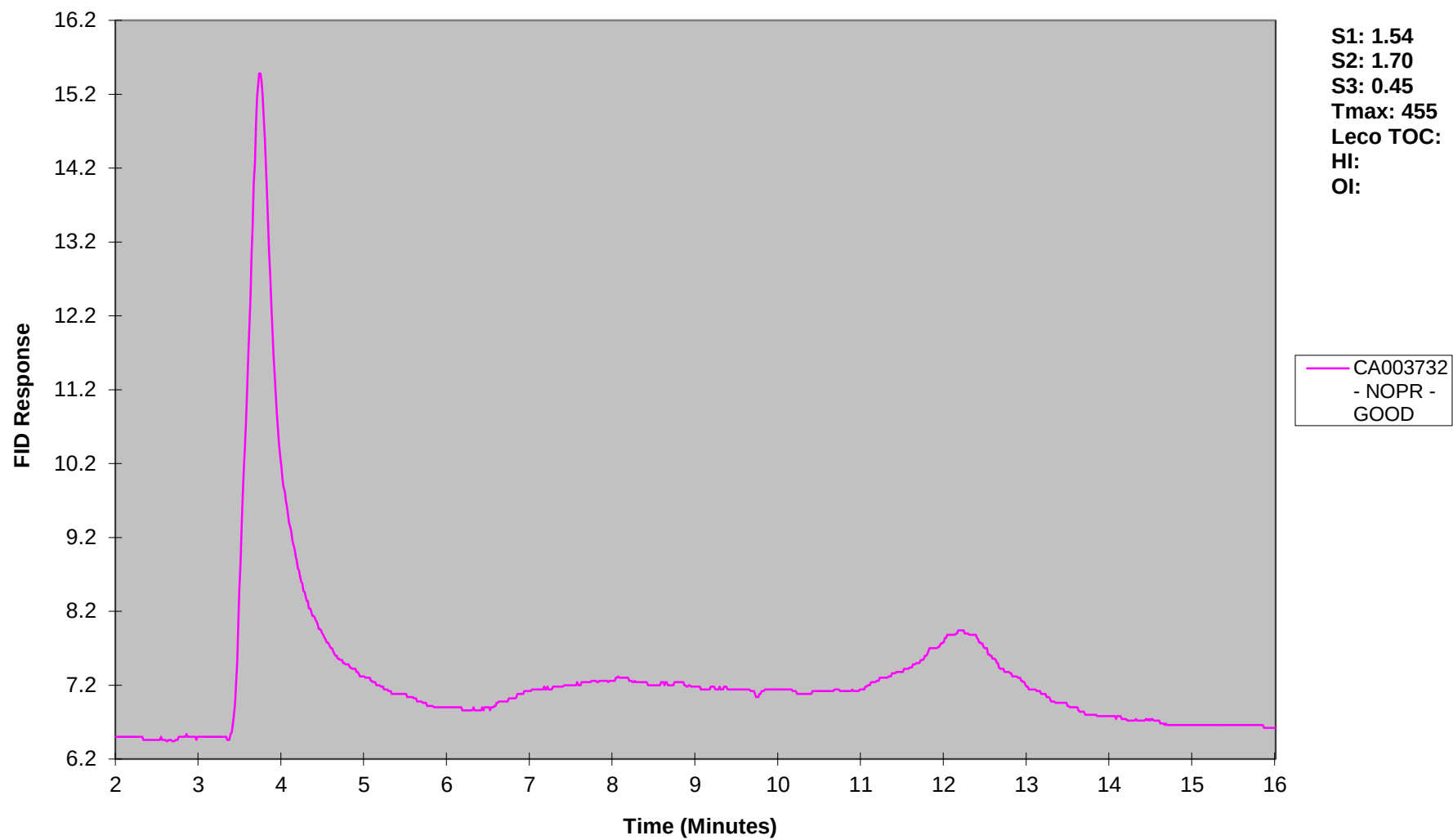
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Well Name: COPRC LOON CREEK O-06, Depth: 1624.12

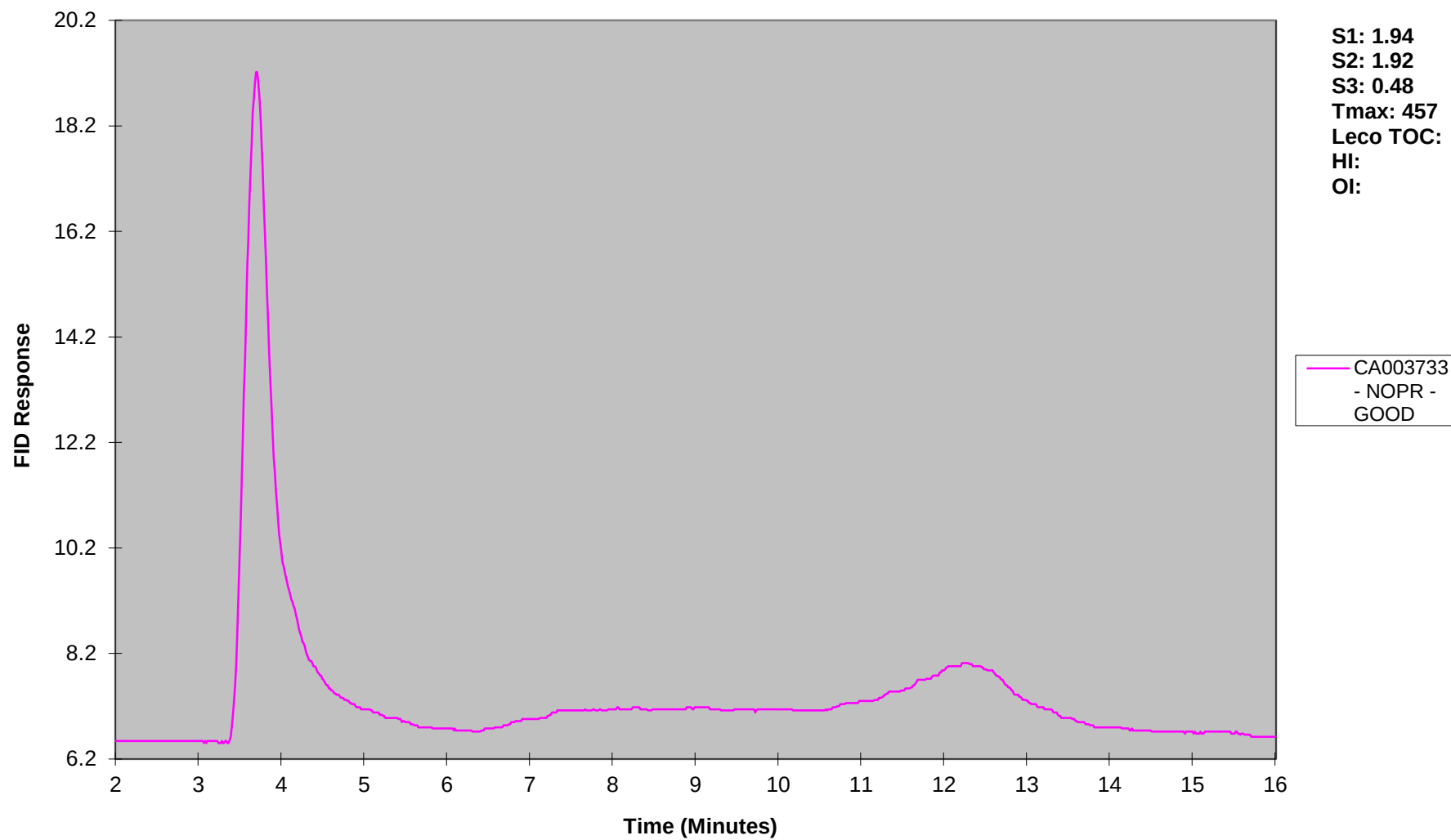


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Well Name: COPRC LOON CREEK O-06, Depth: 1633.46

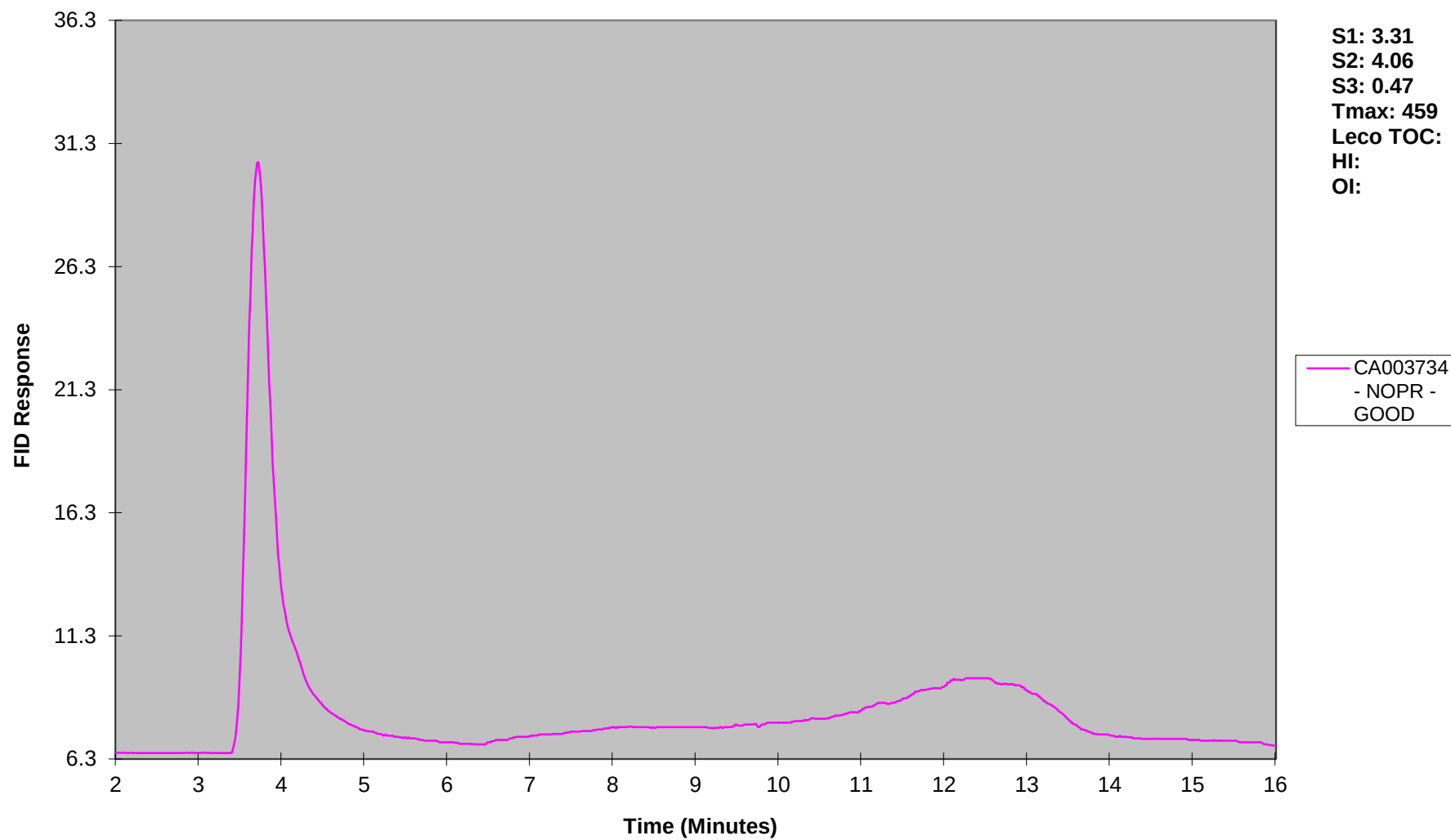


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HI:
OI:

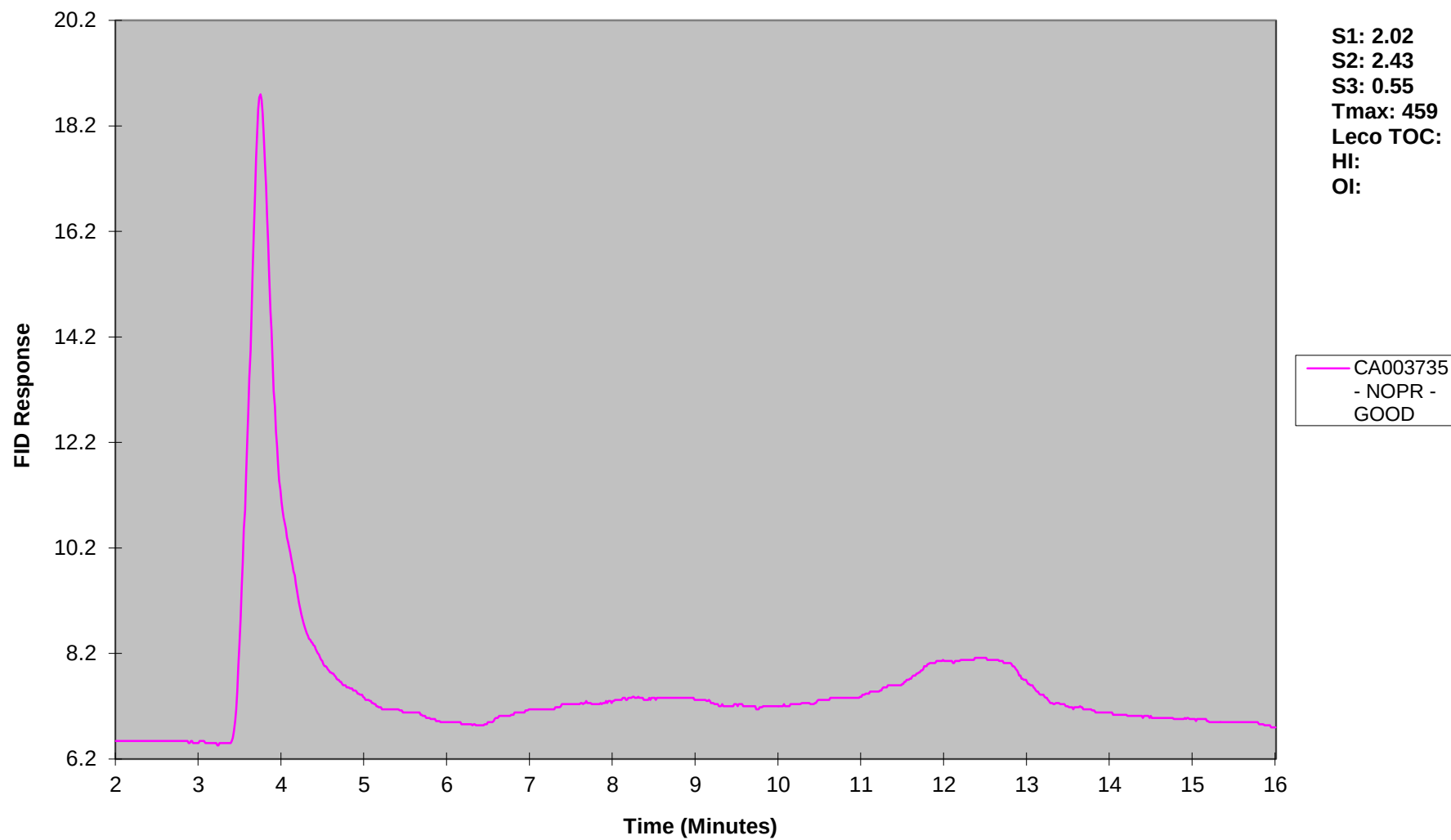
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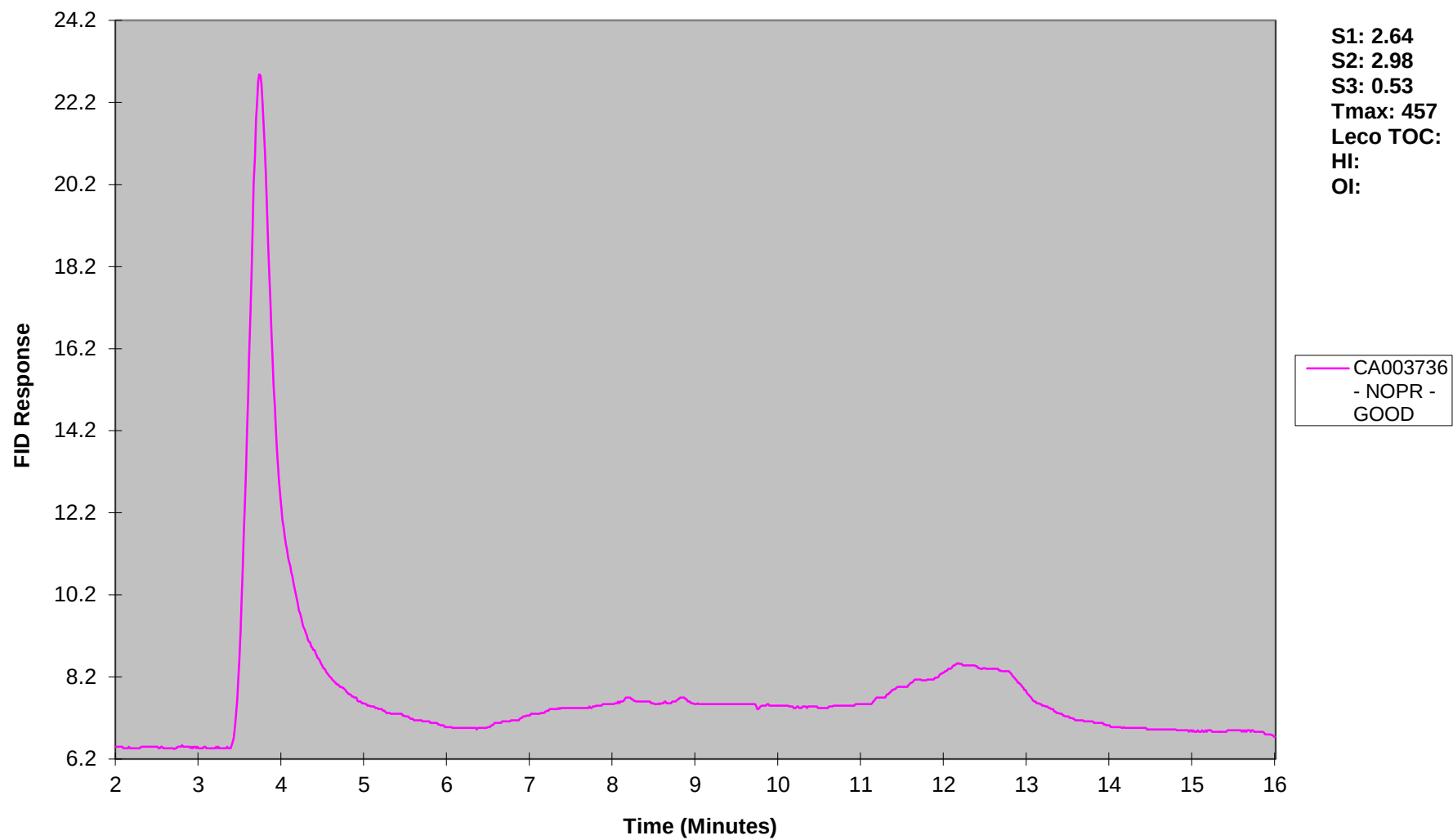
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Well Name: COPRC LOON CREEK O-06, Depth: 1645.50



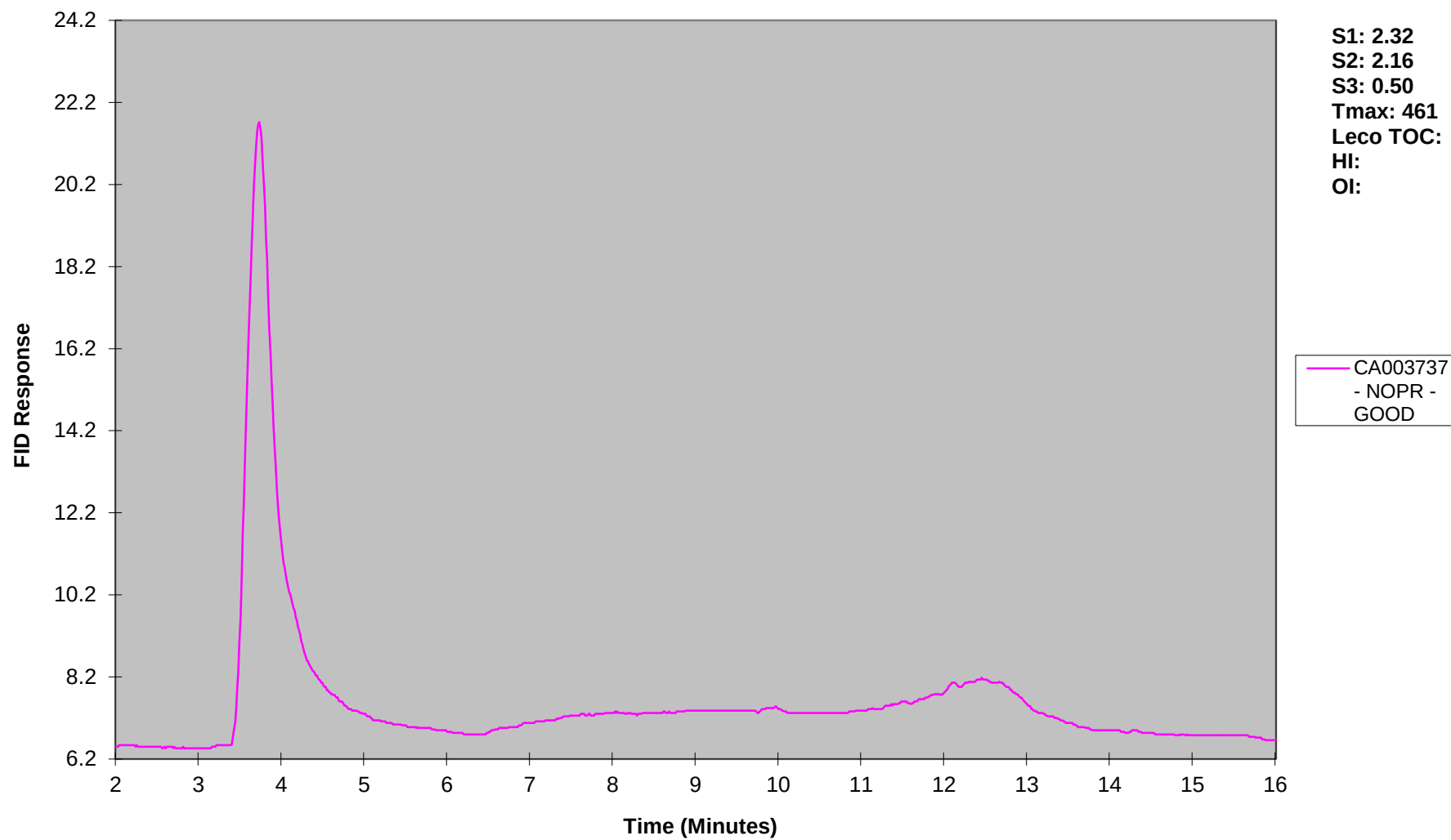
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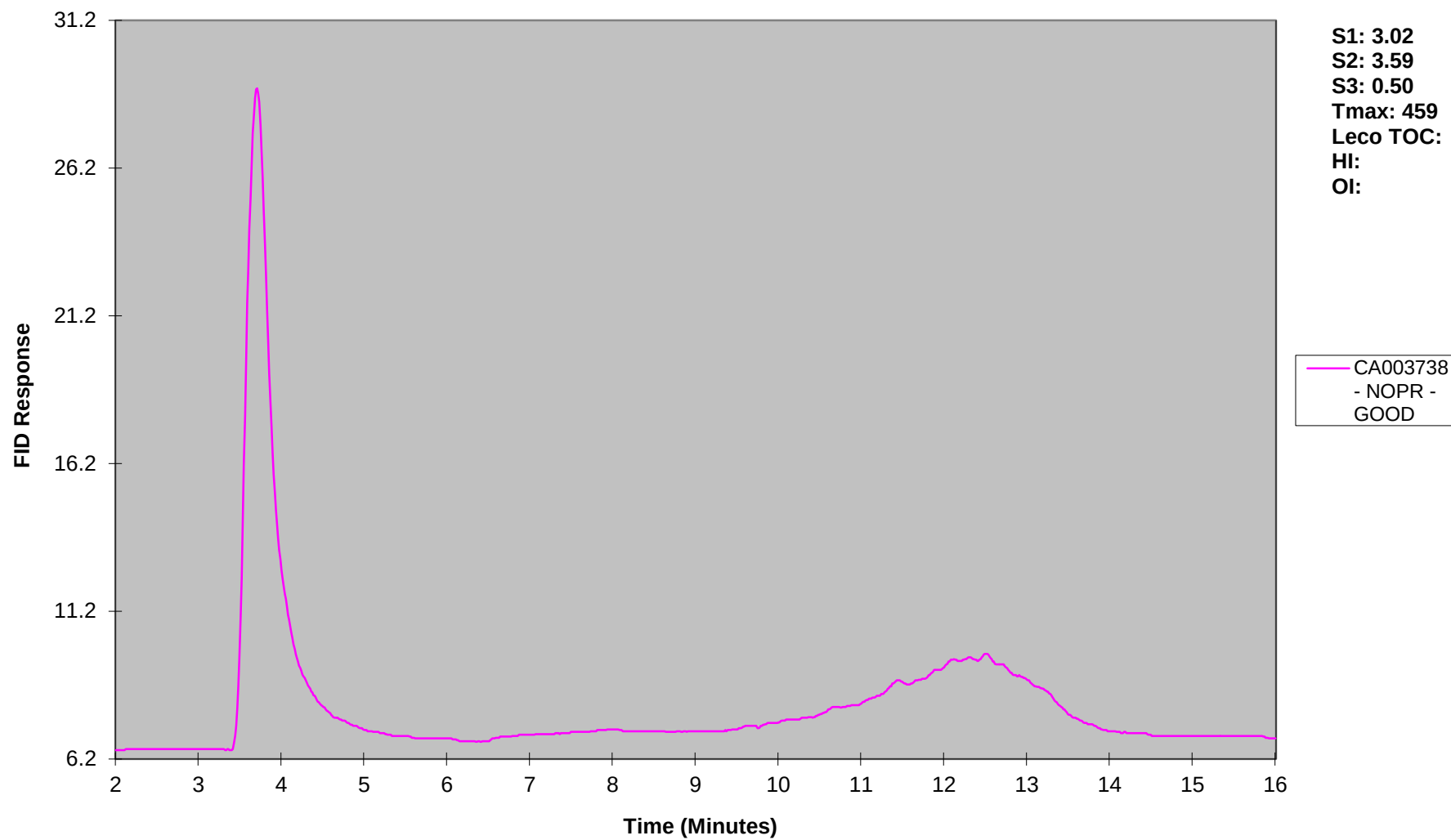
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Well Name: COPRC LOON CREEK O-06, Depth: 1667.12



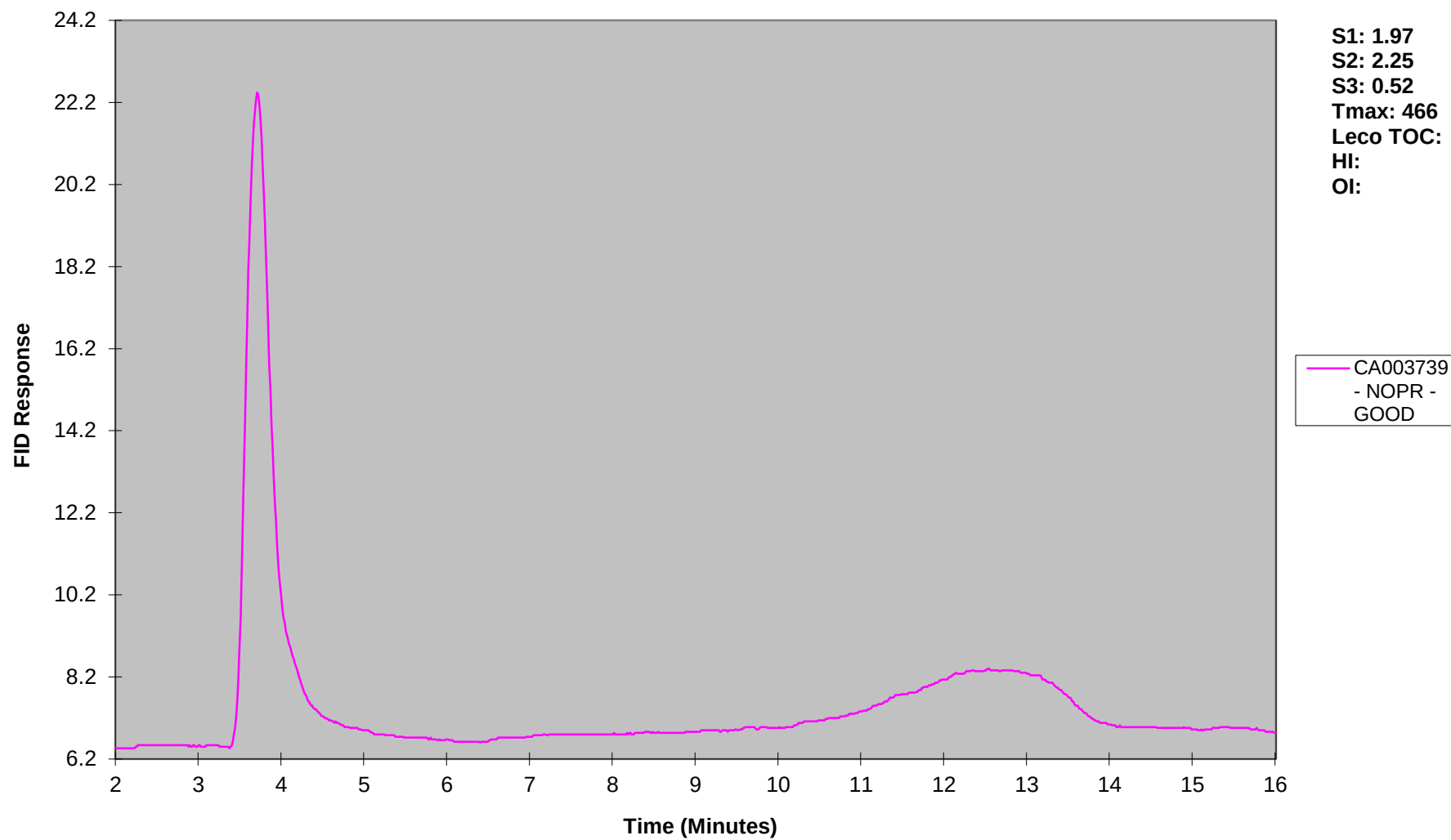
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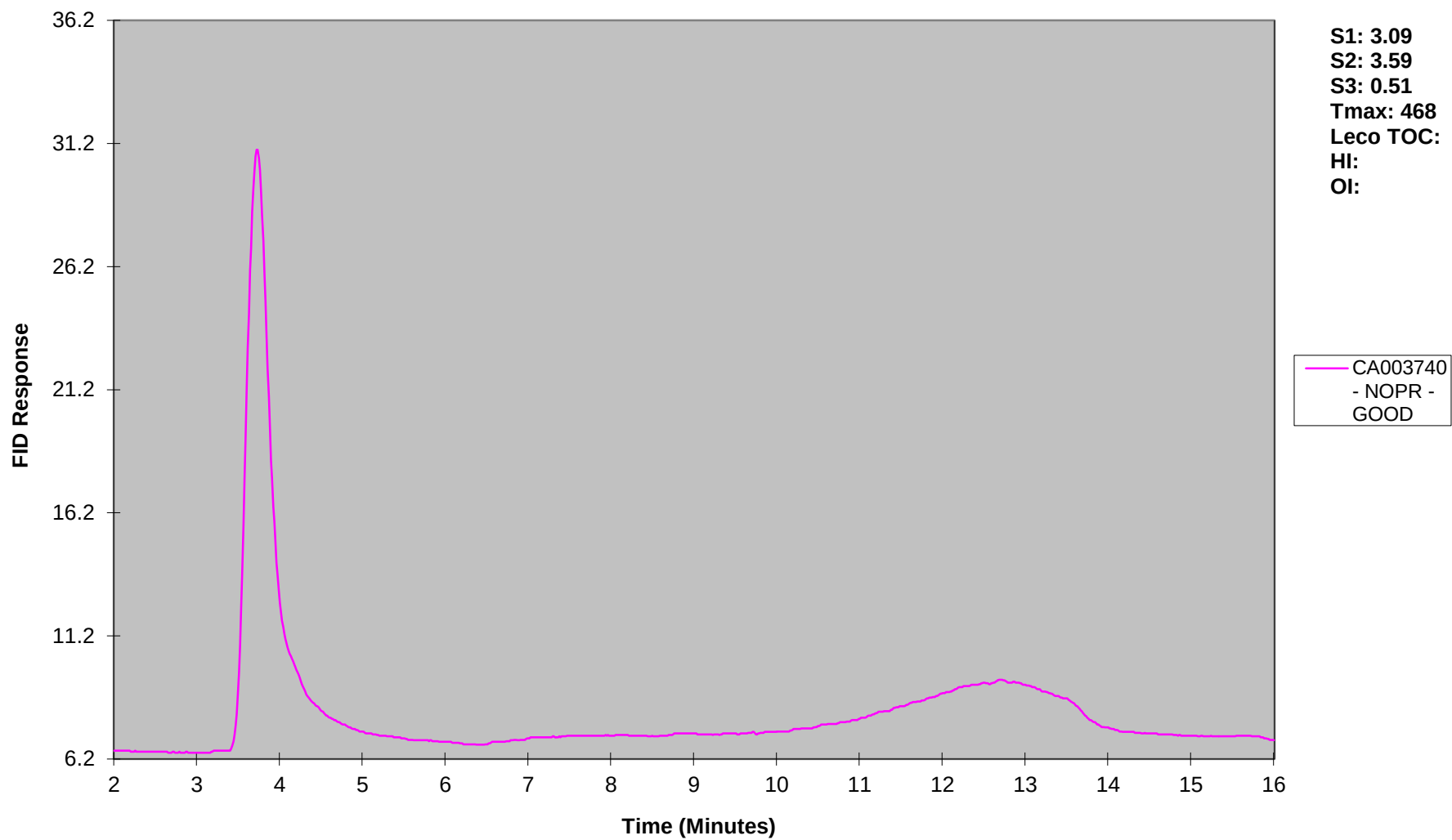
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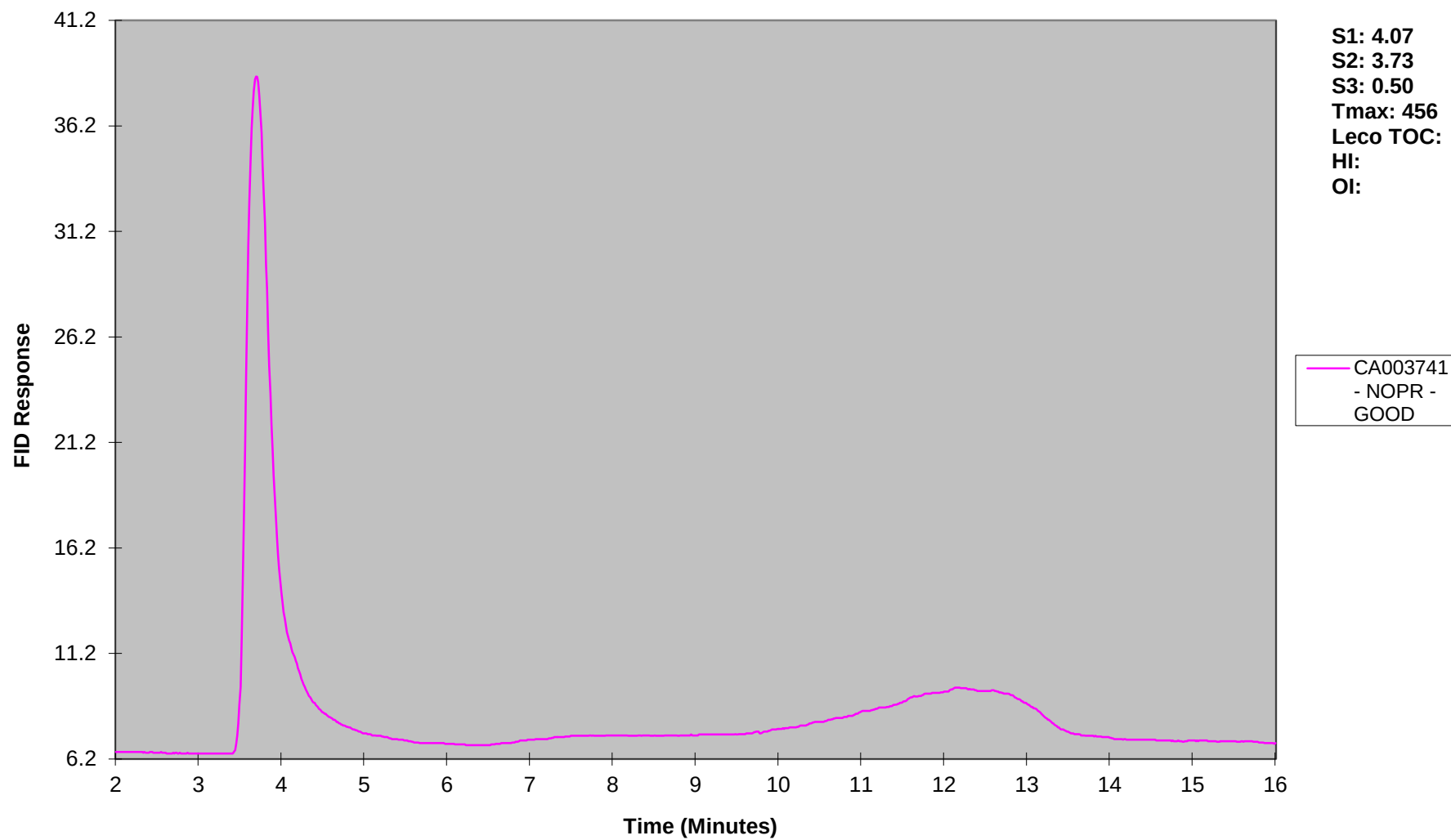
Lab ID: CP316271, Client ID: CA003739, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1688.67



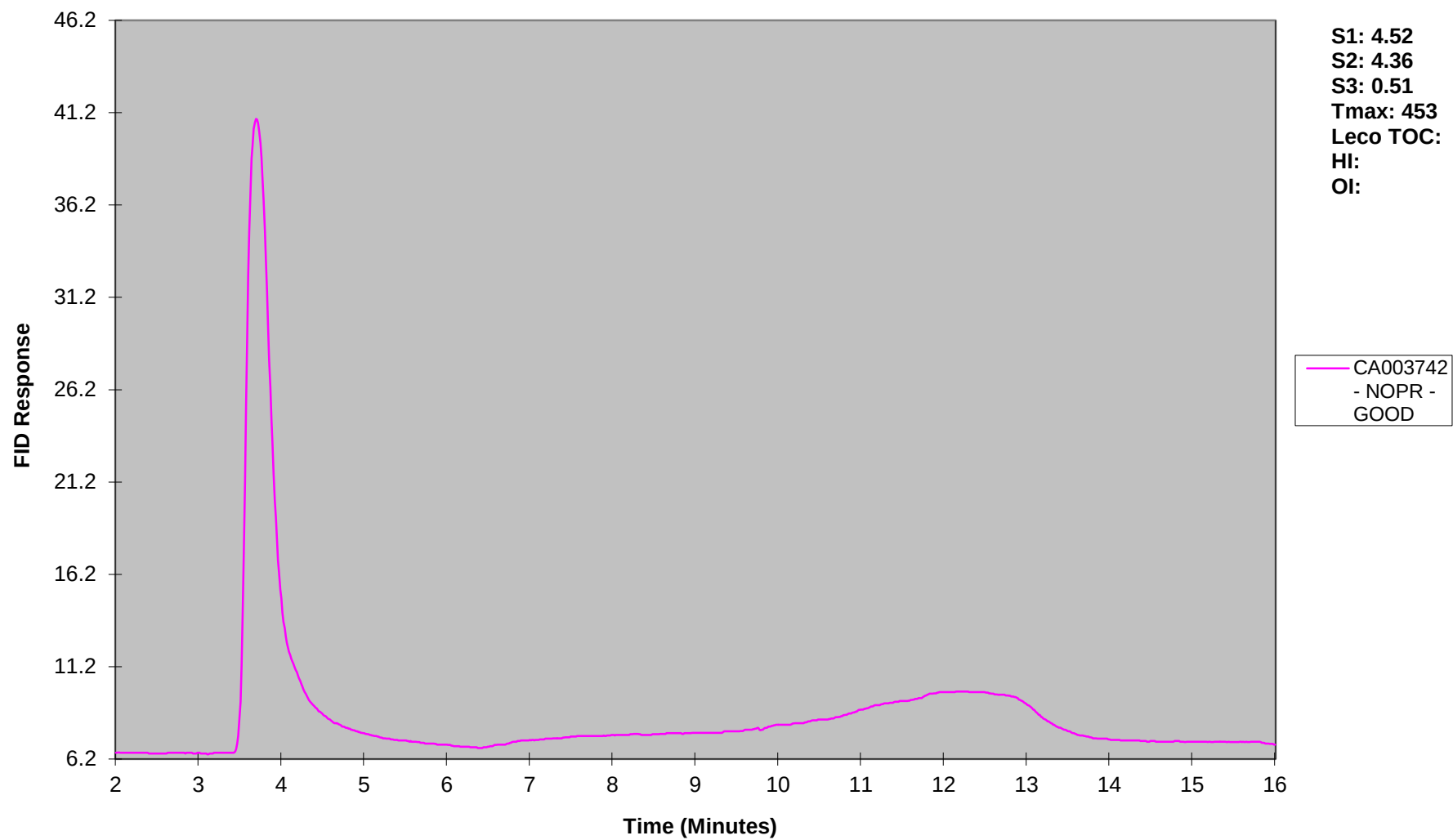
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Well Name: COPRC LOON CREEK O-06, Depth: 1691.77



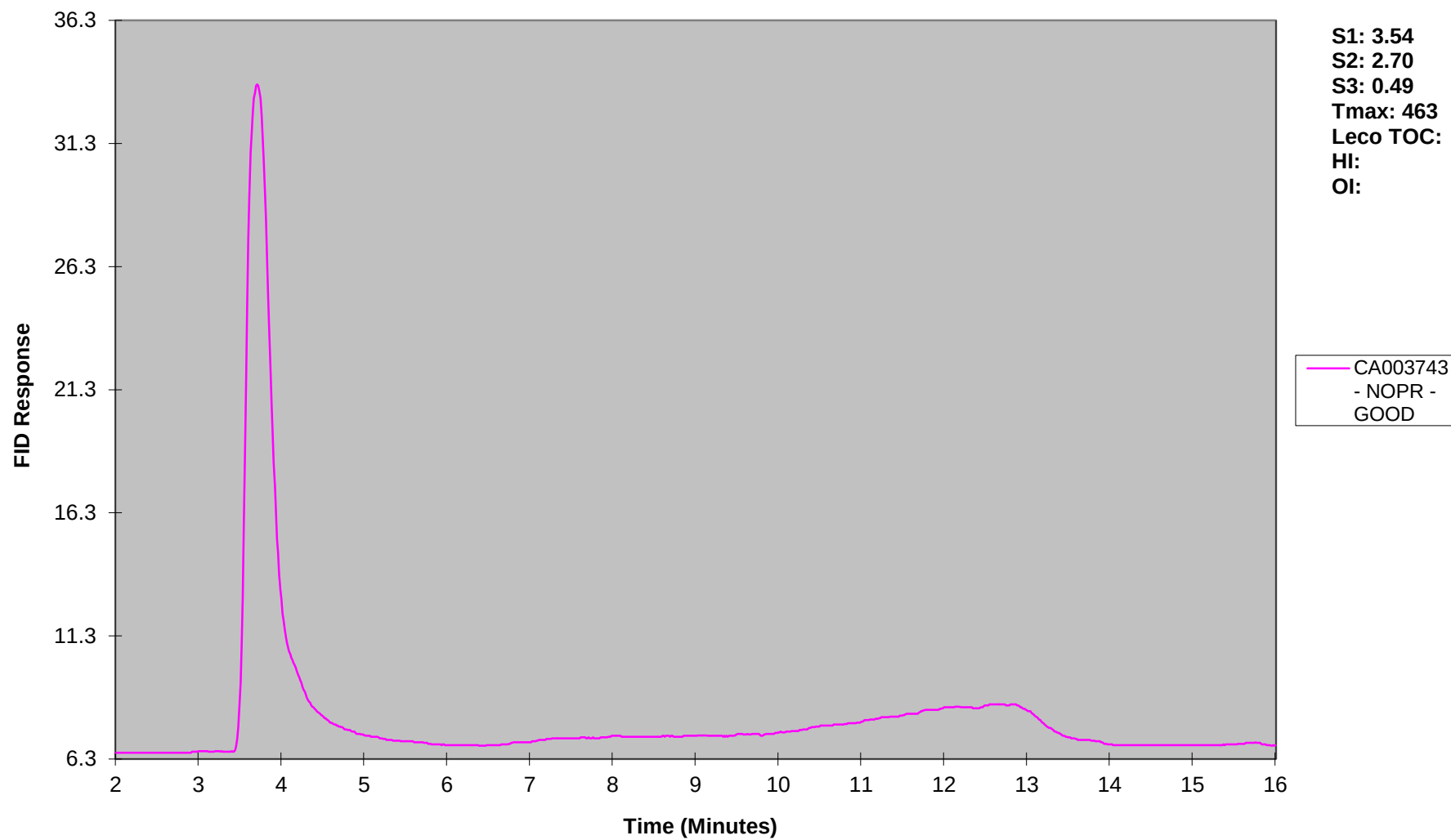
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Well Name: COPRC LOON CREEK O-06, Depth: 1696.08



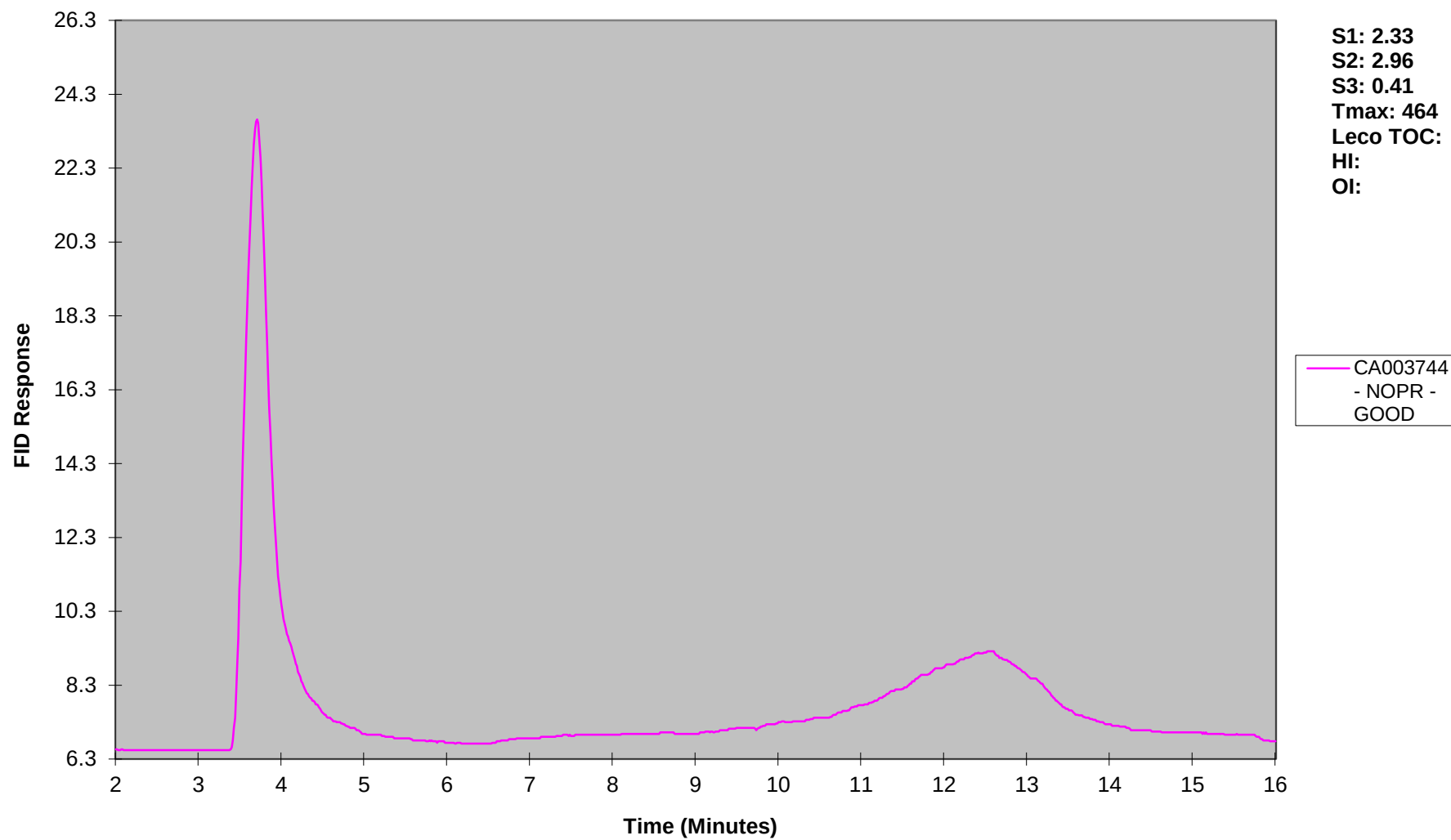
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Well Name: COPRC LOON CREEK O-06, Depth: 1698.65



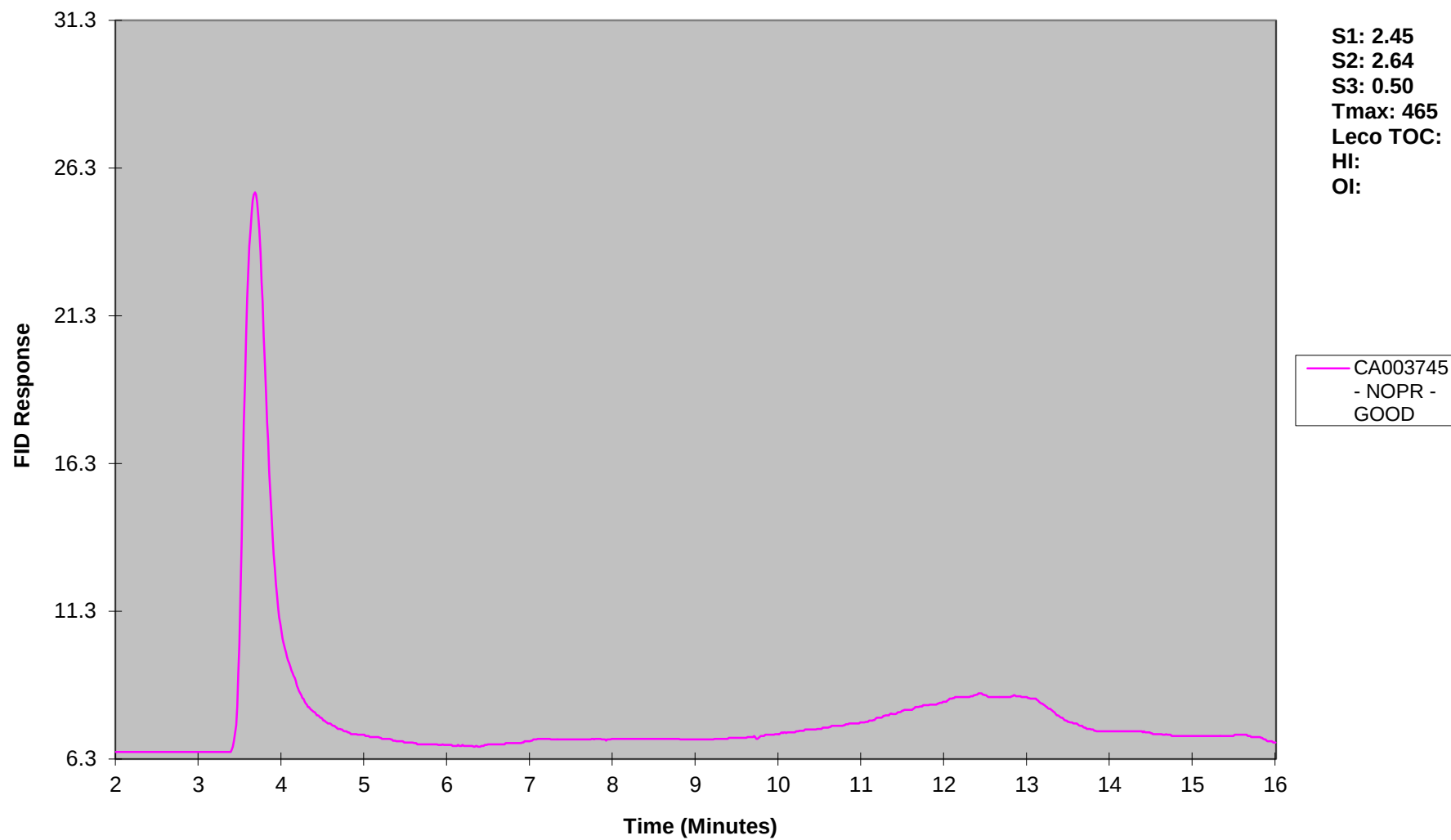
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Well Name: COPRC LOON CREEK O-06, Depth: 1703.10



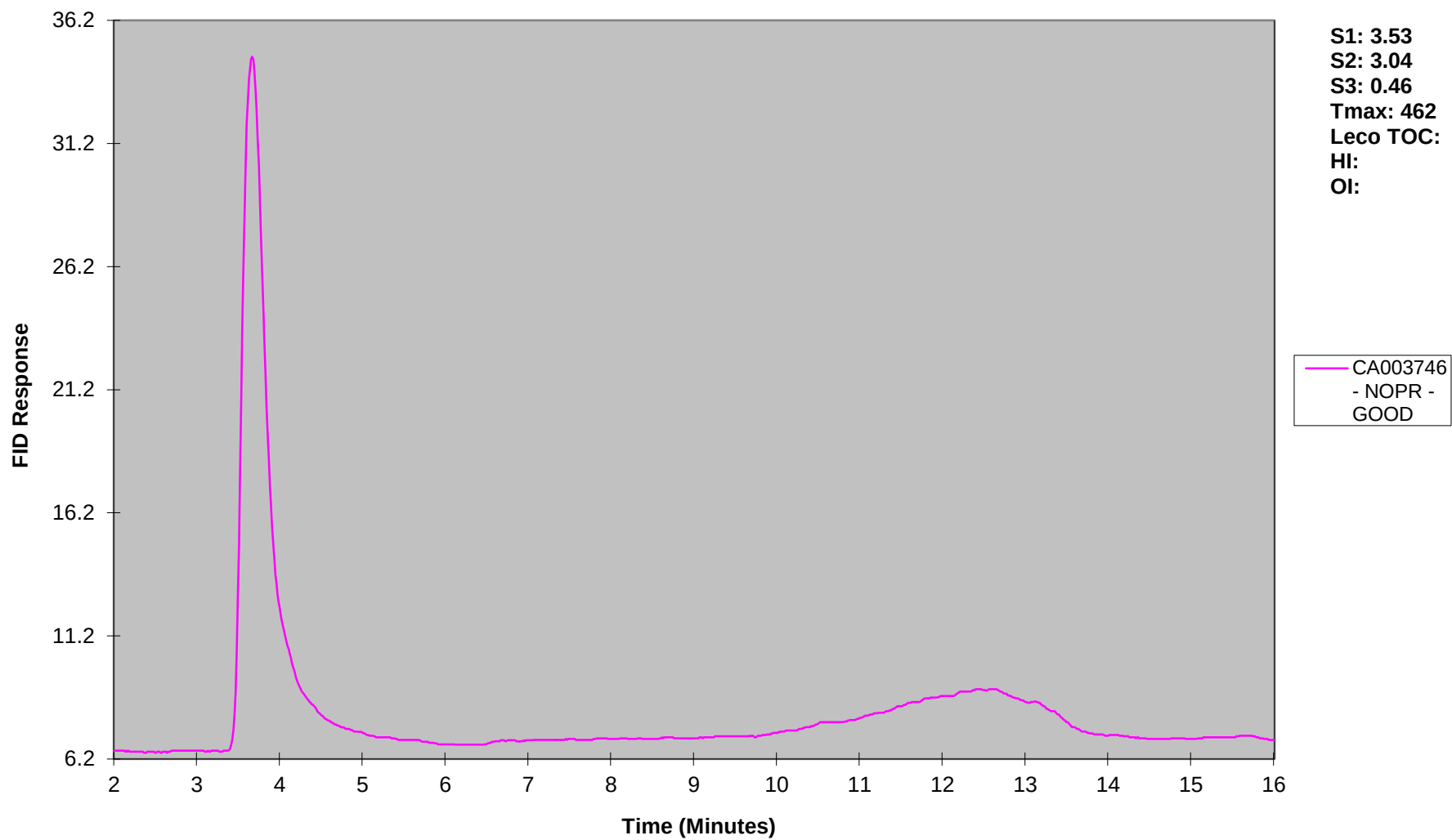
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Well Name: COPRC LOON CREEK O-06, Depth: 1706.66



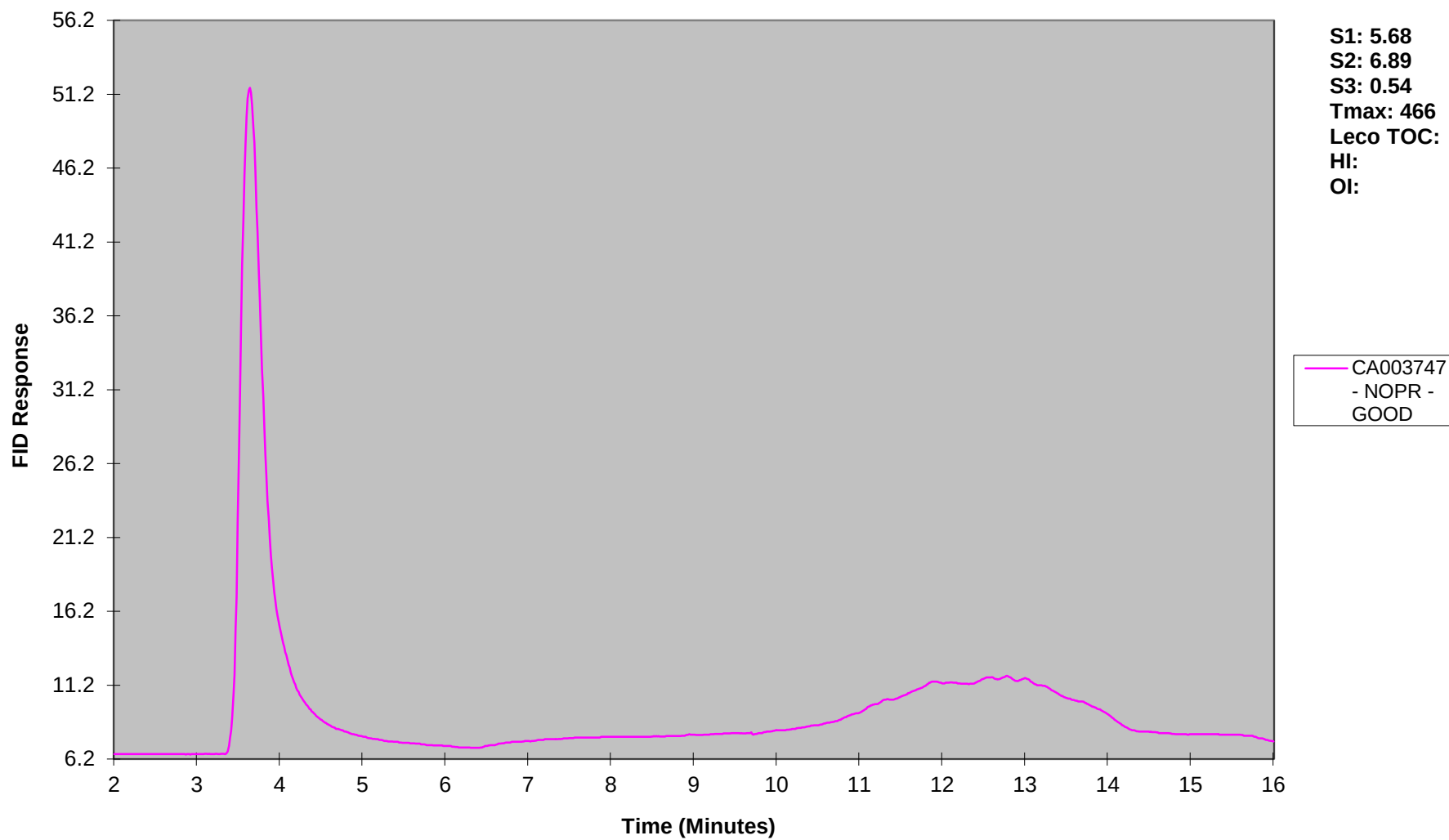
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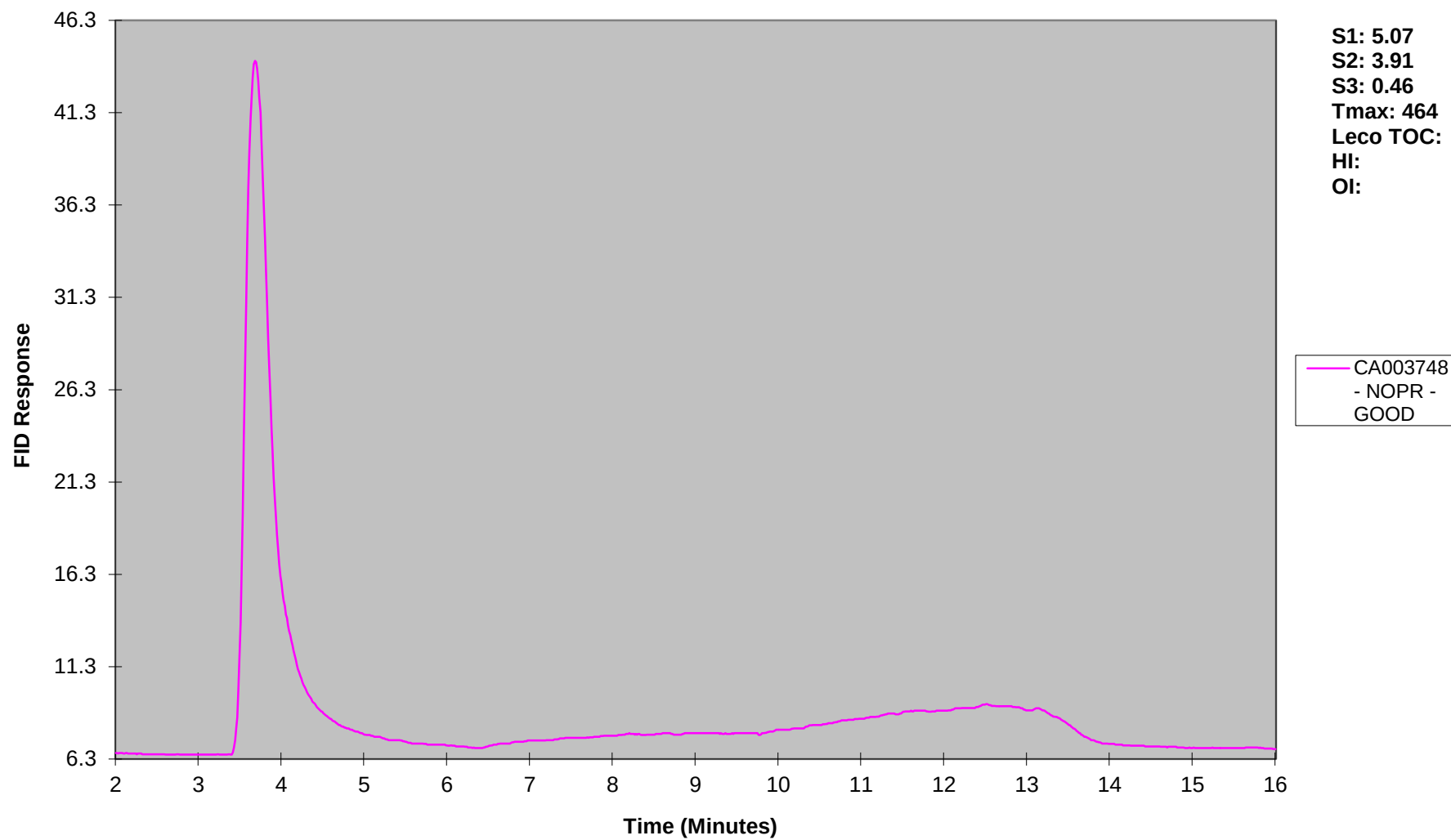
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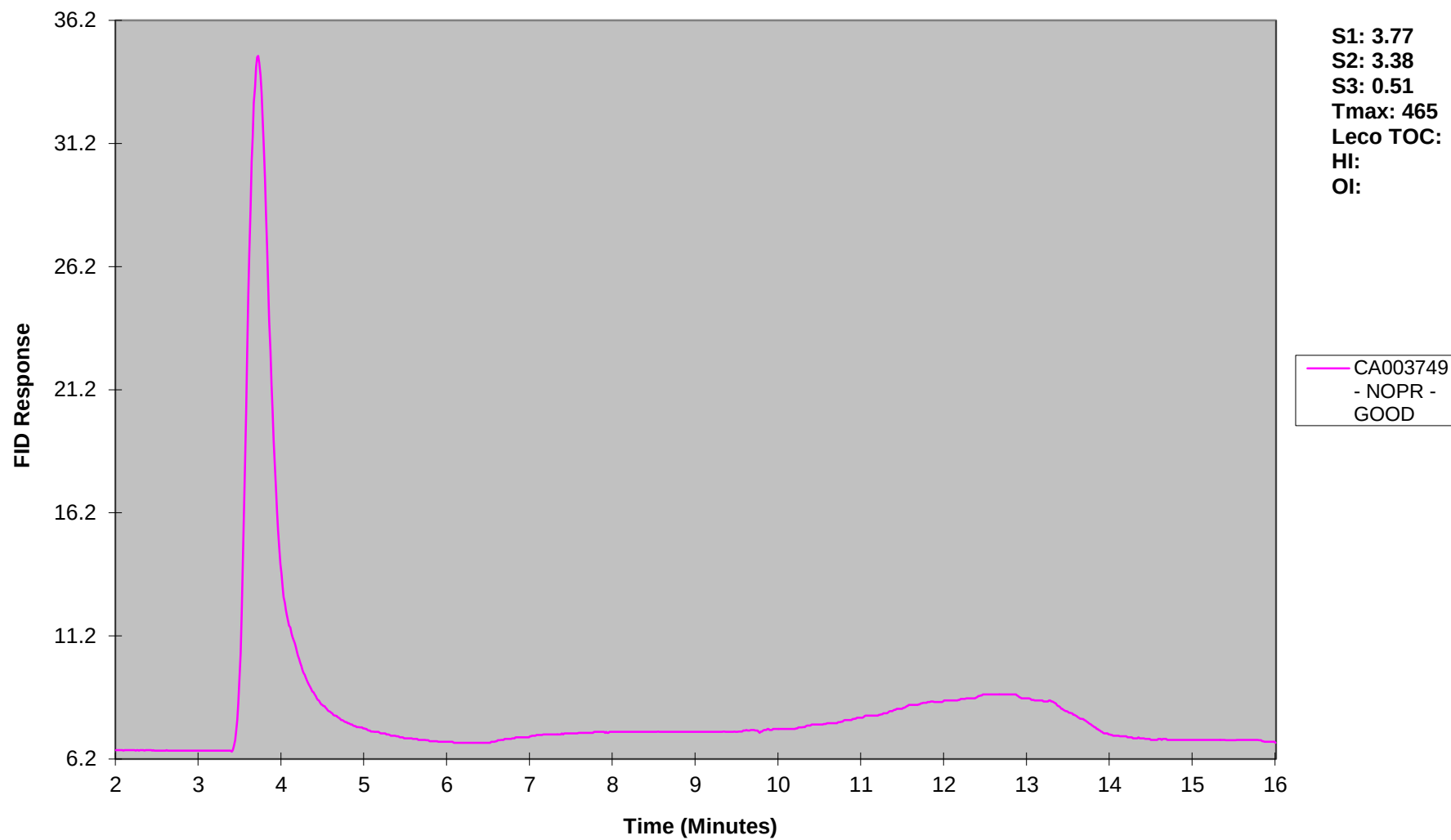
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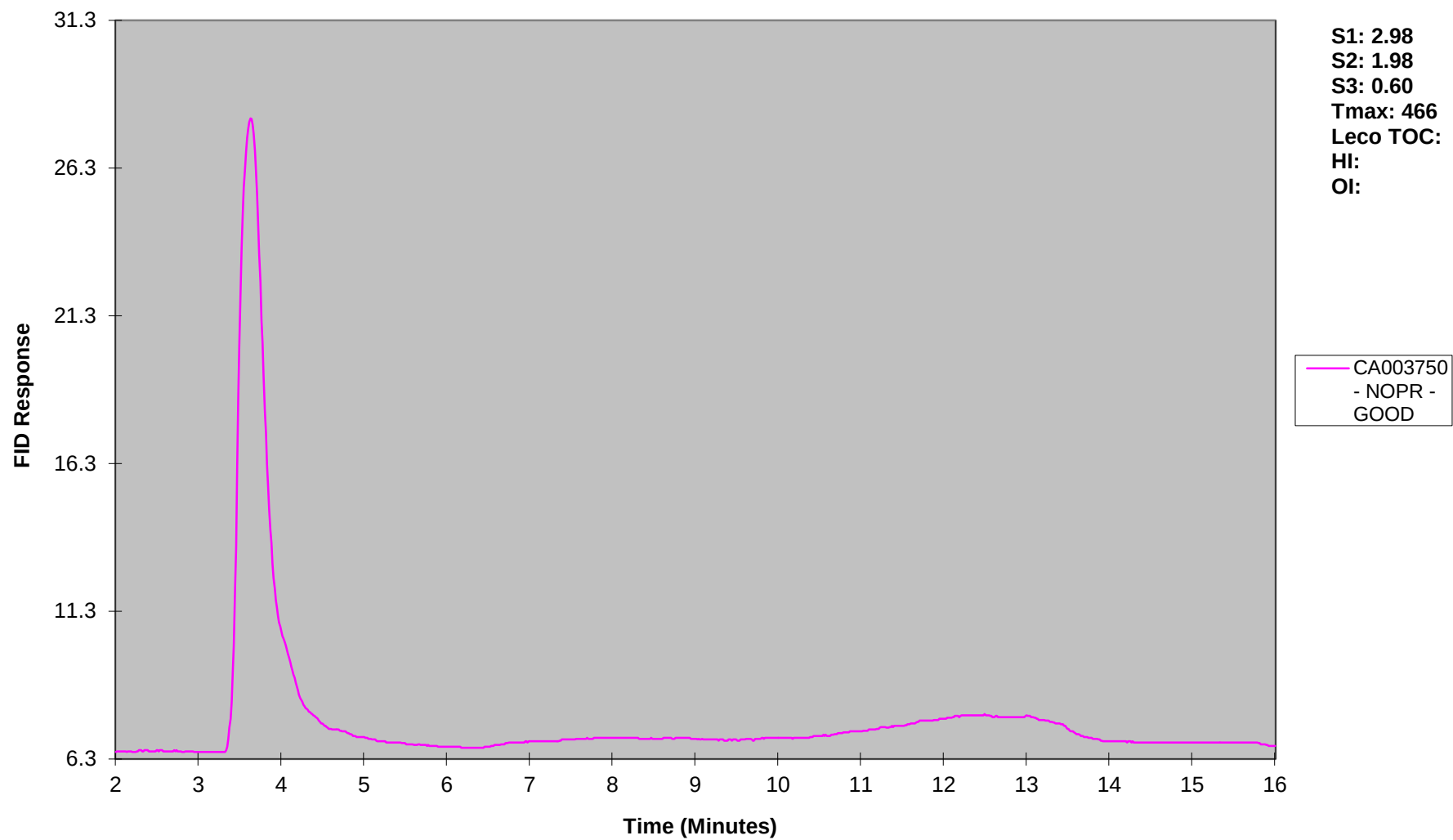
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Well Name: COPRC LOON CREEK O-06, Depth: 1723.68



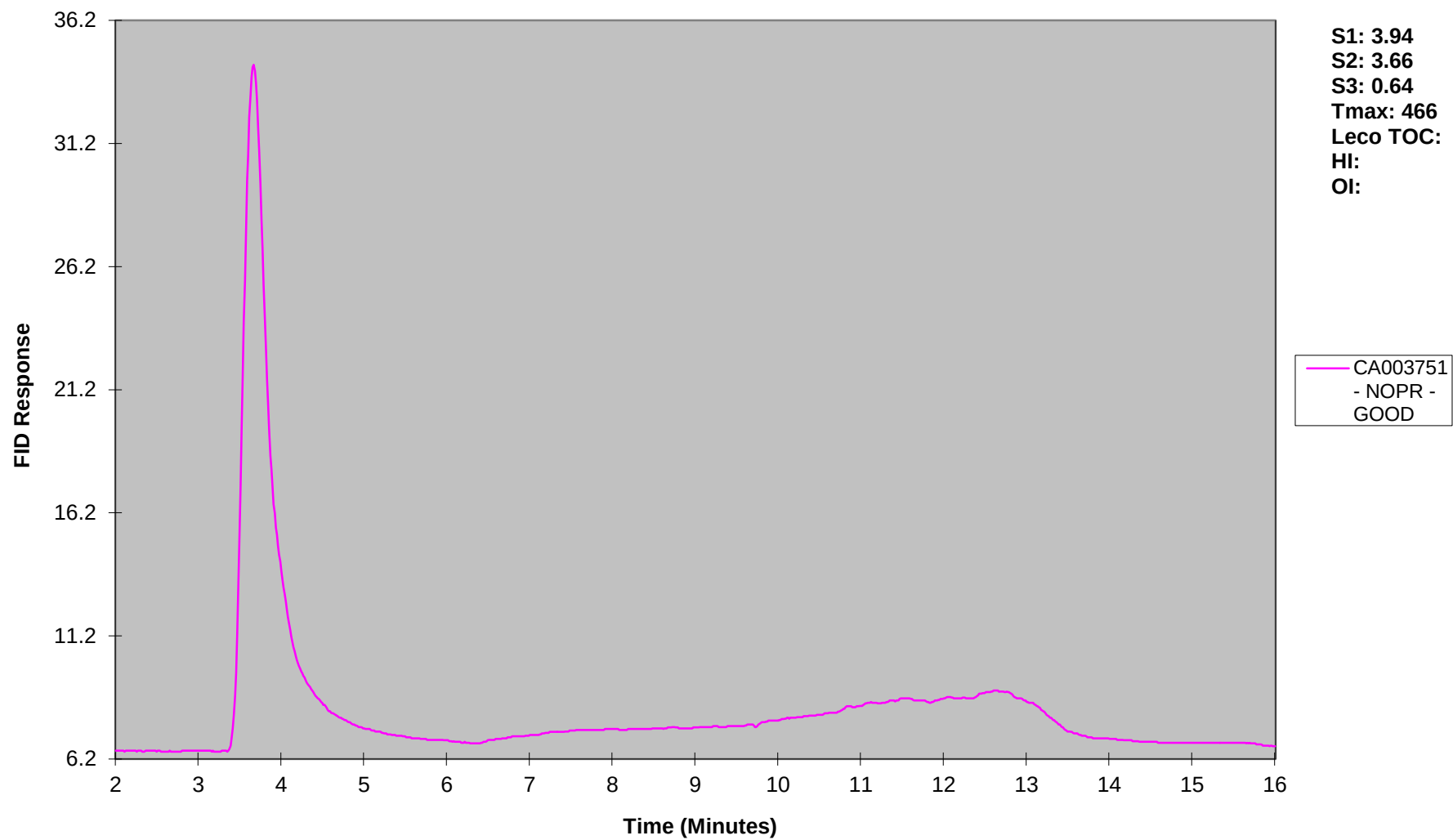
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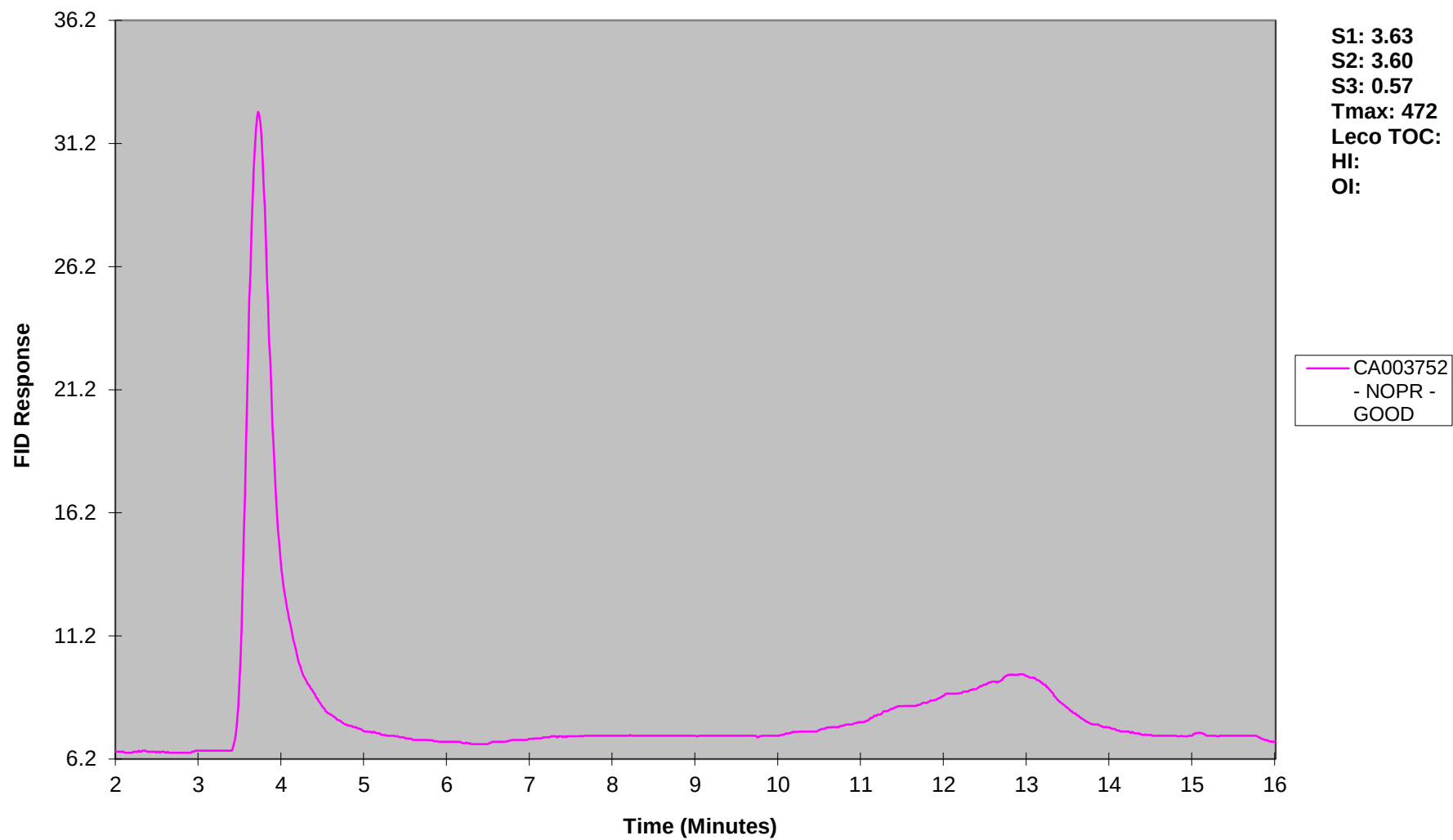
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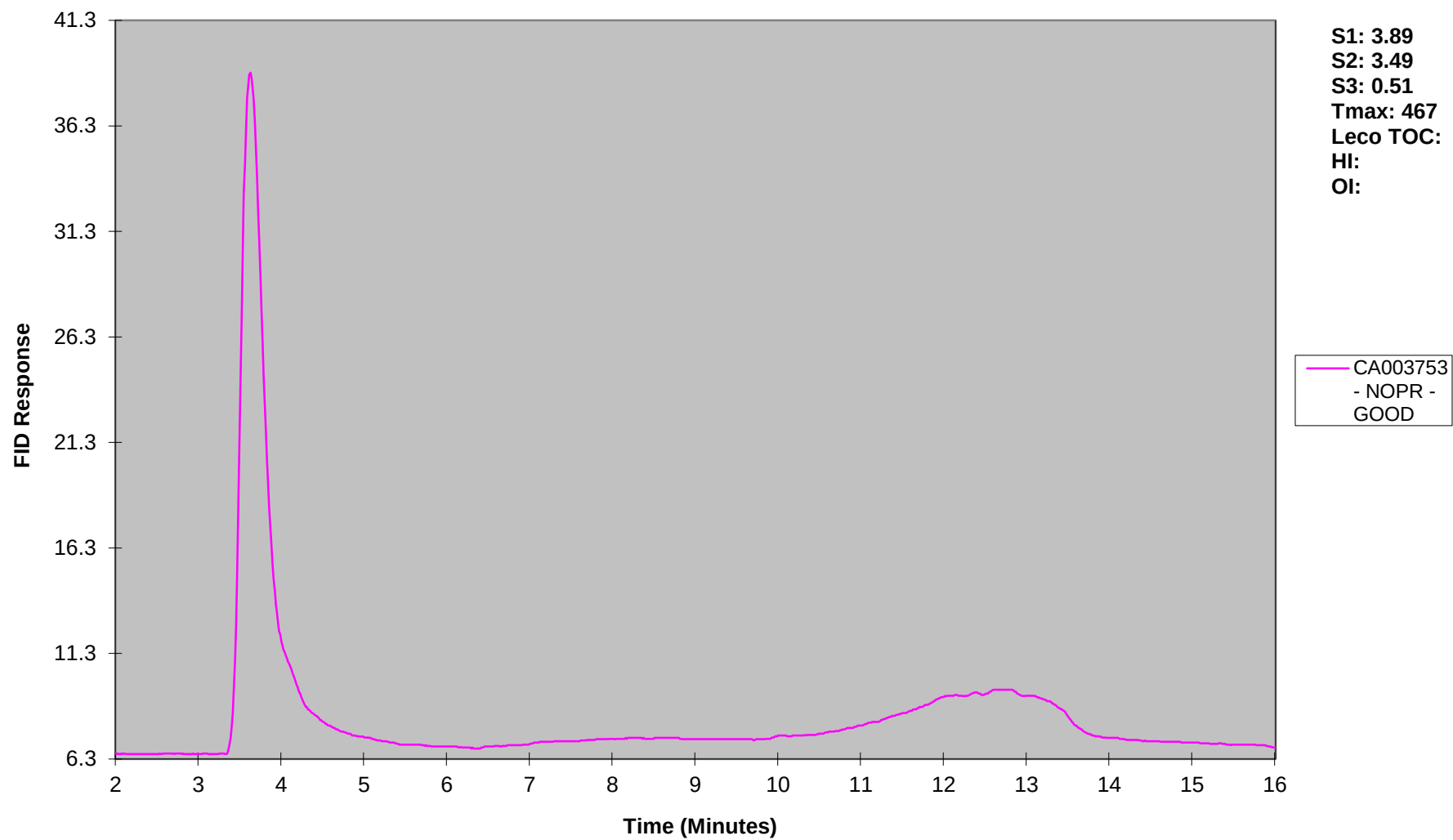
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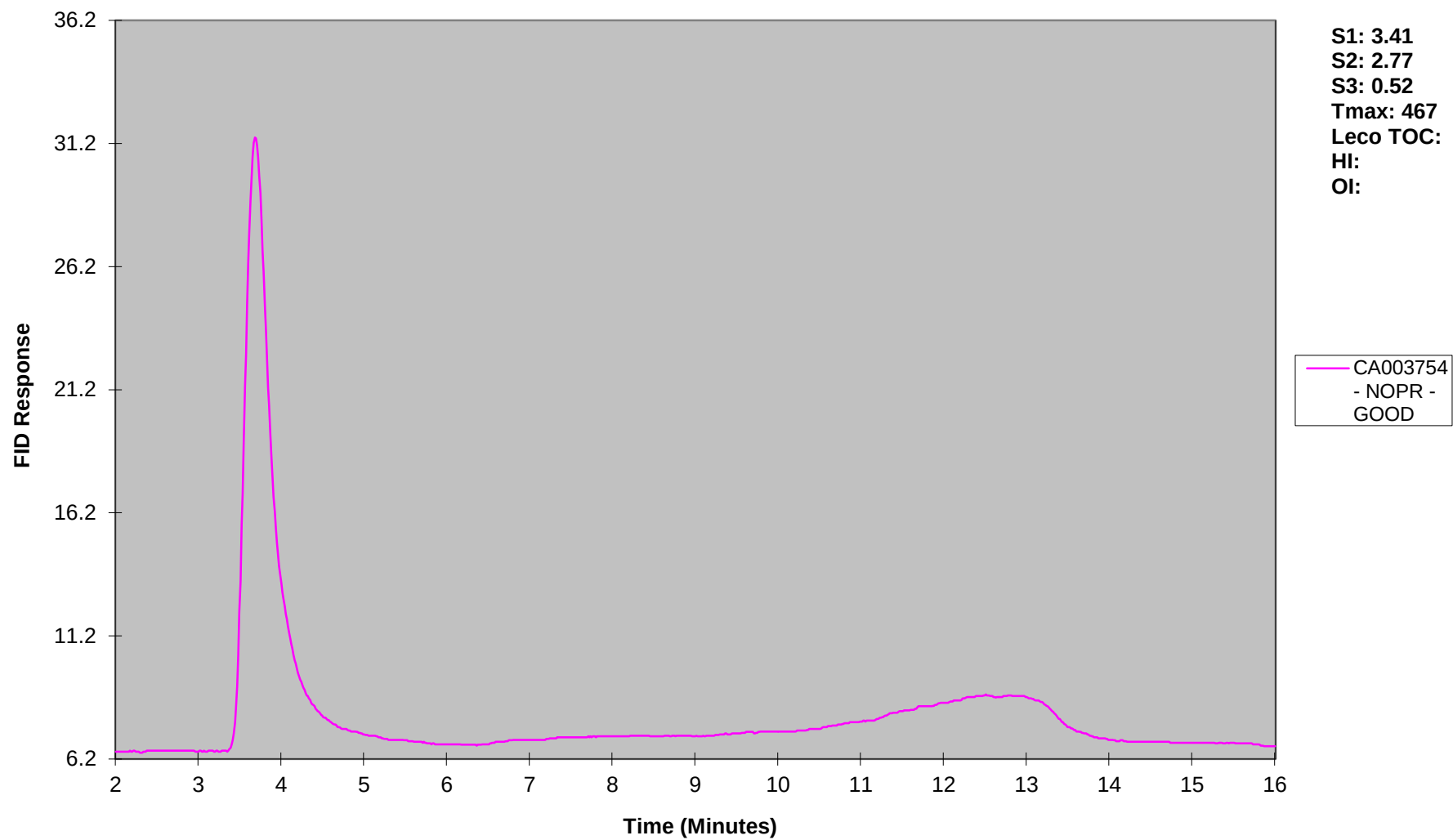
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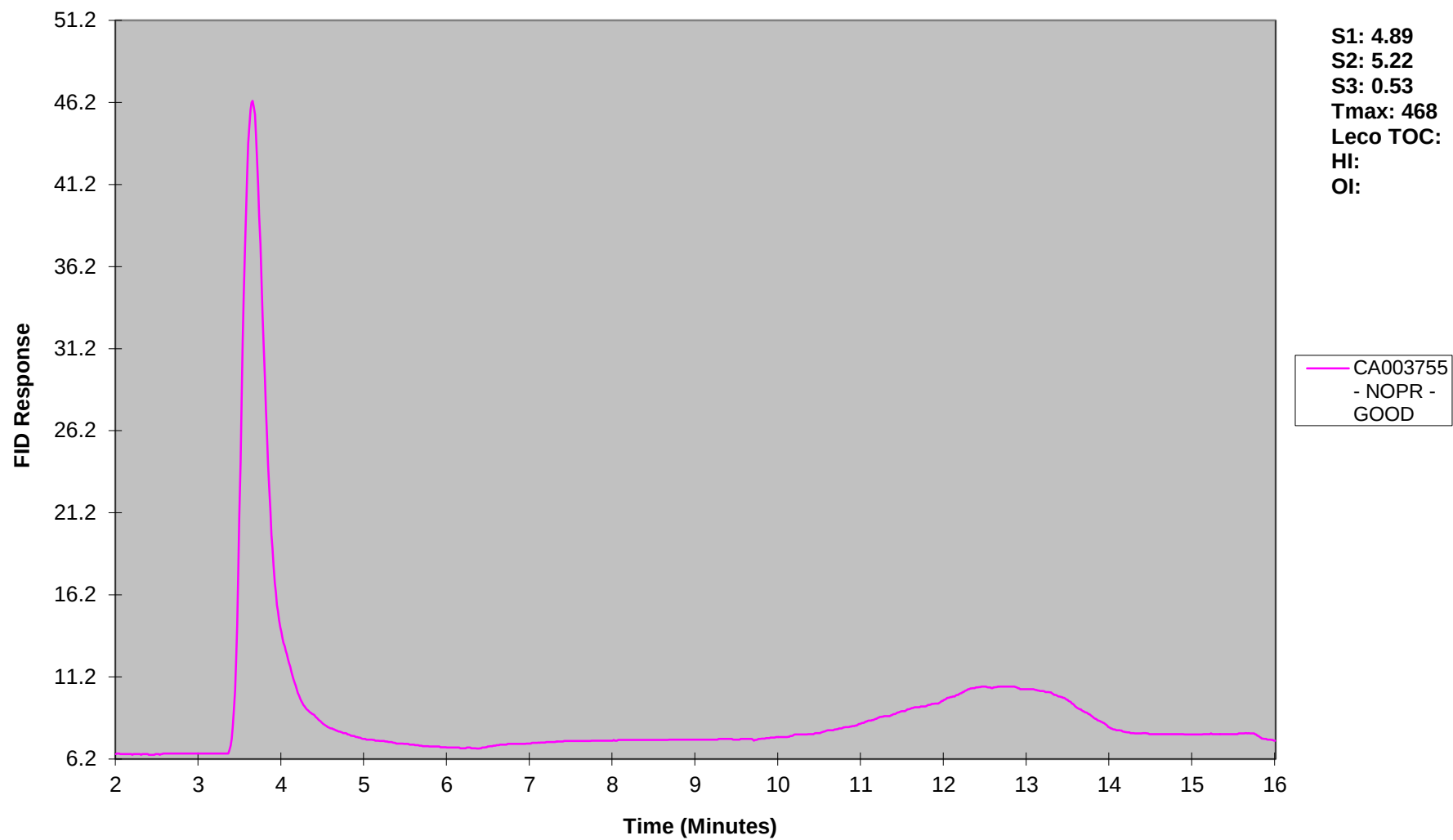
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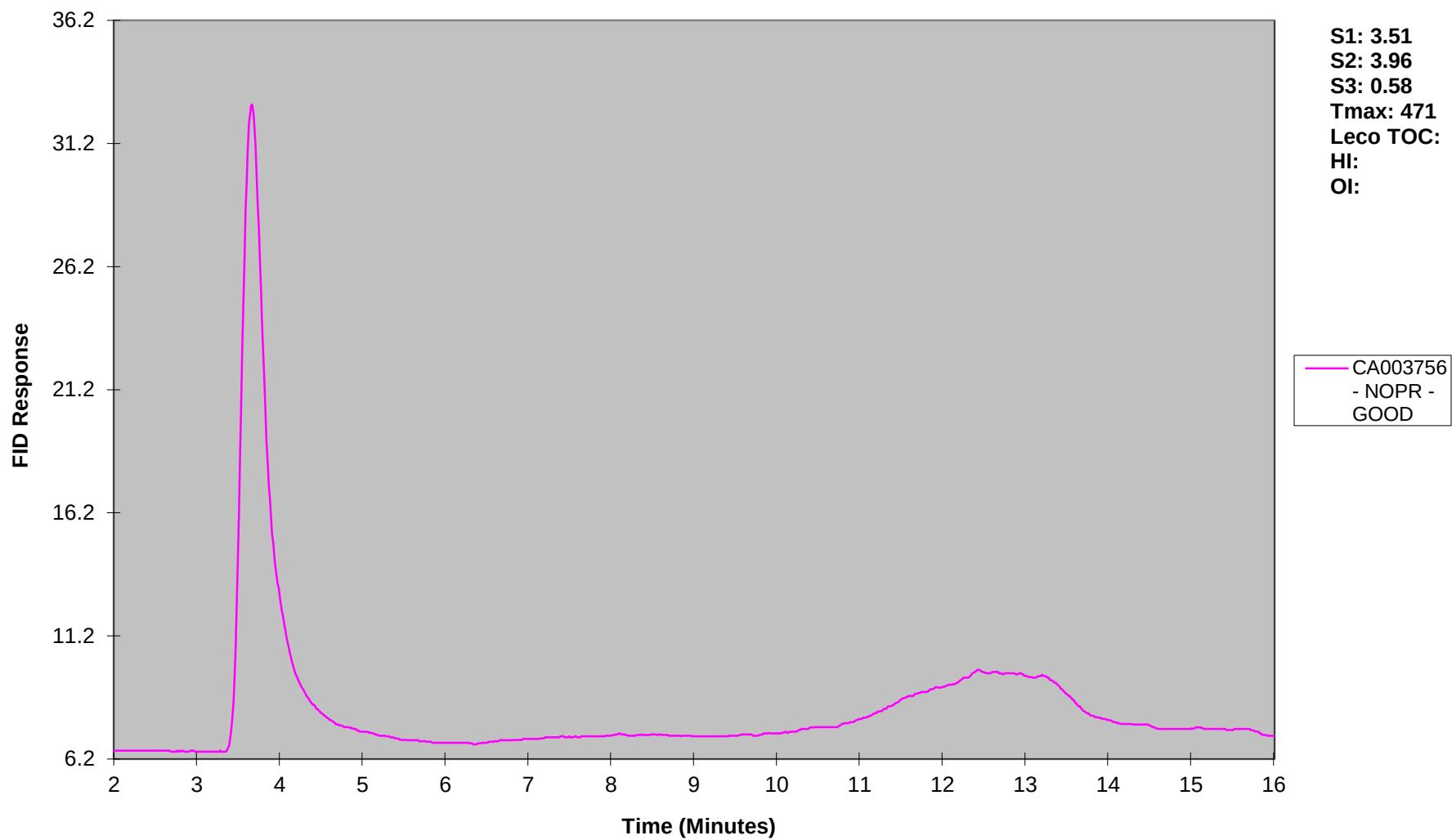
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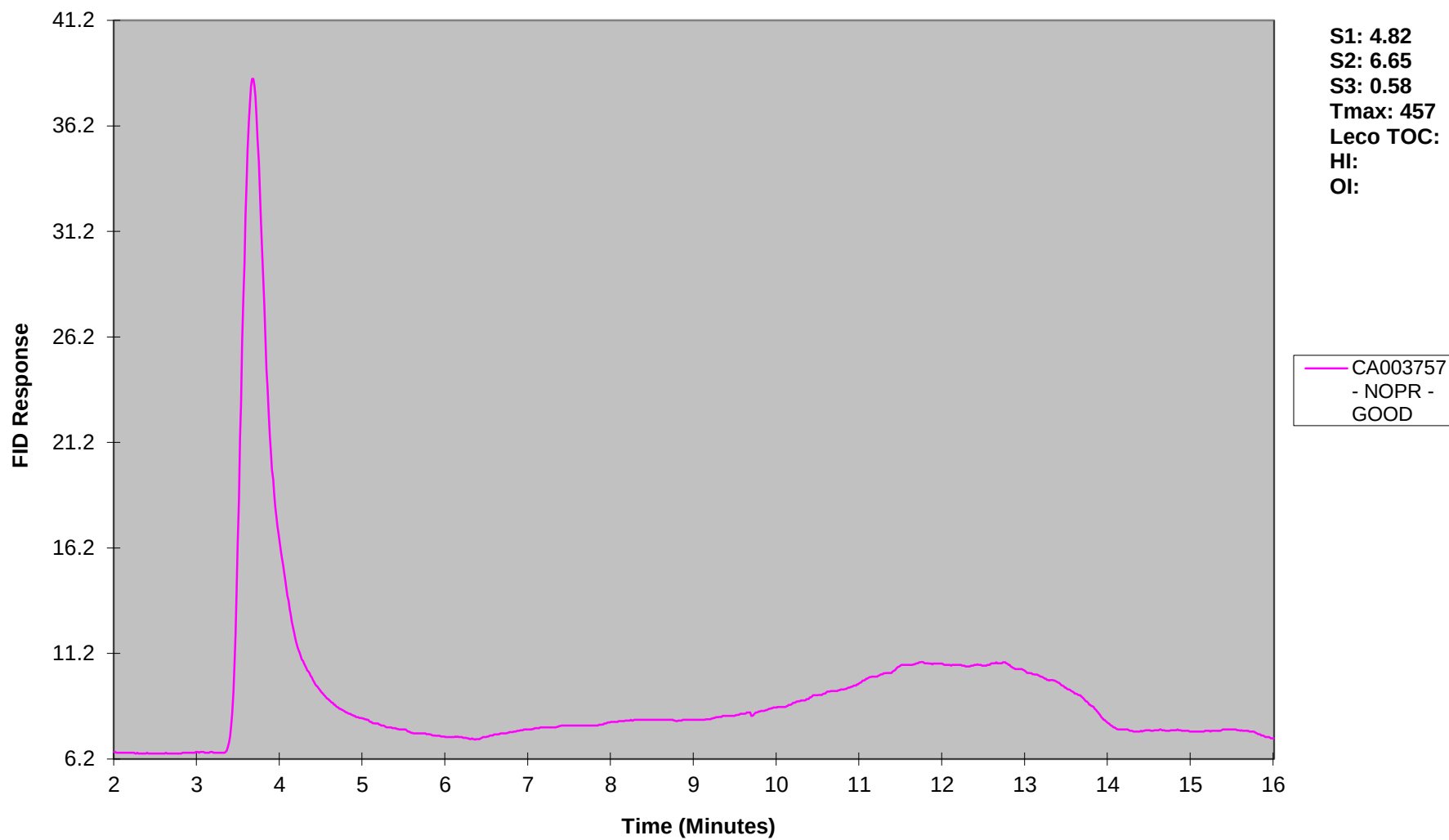
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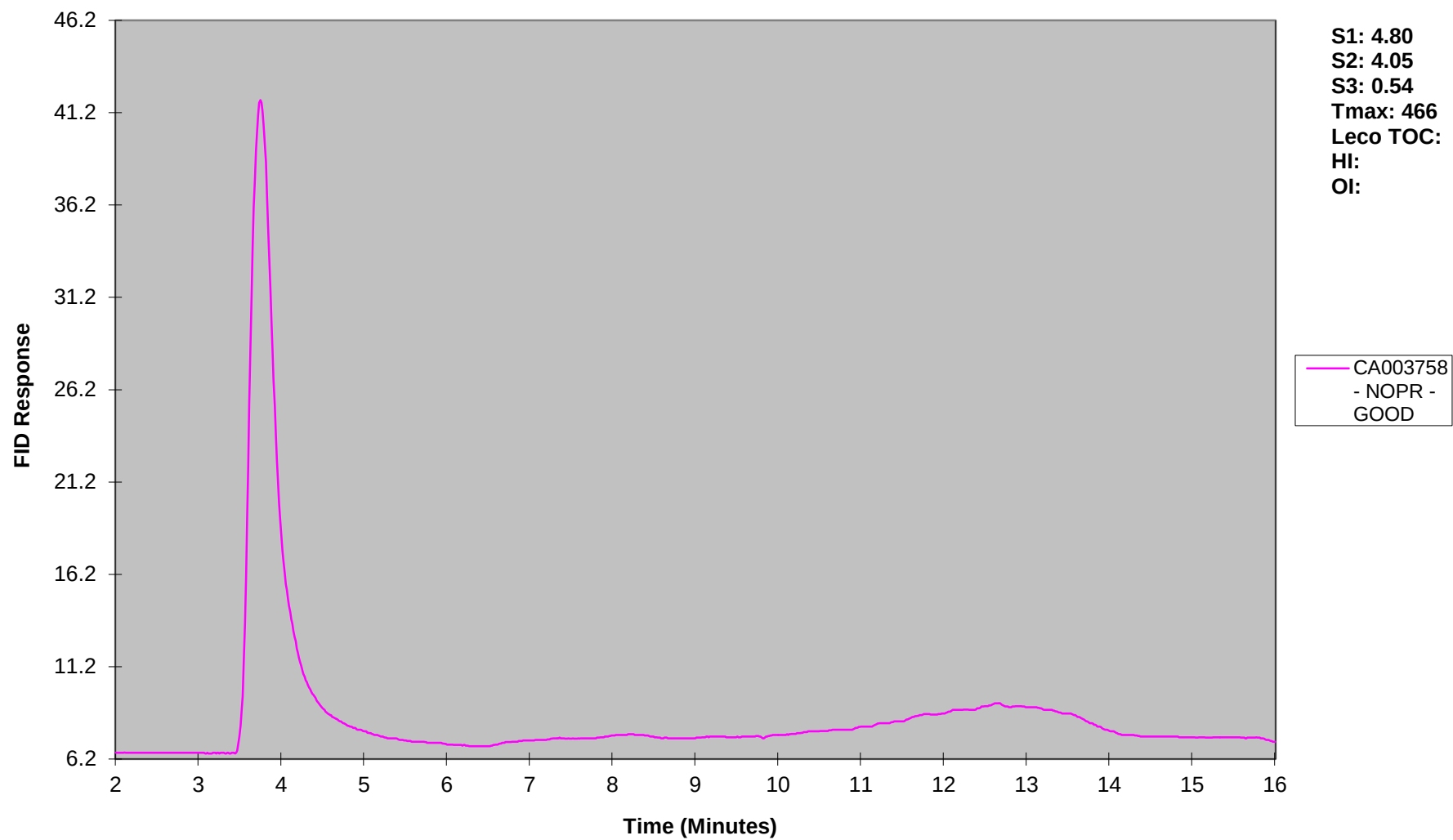
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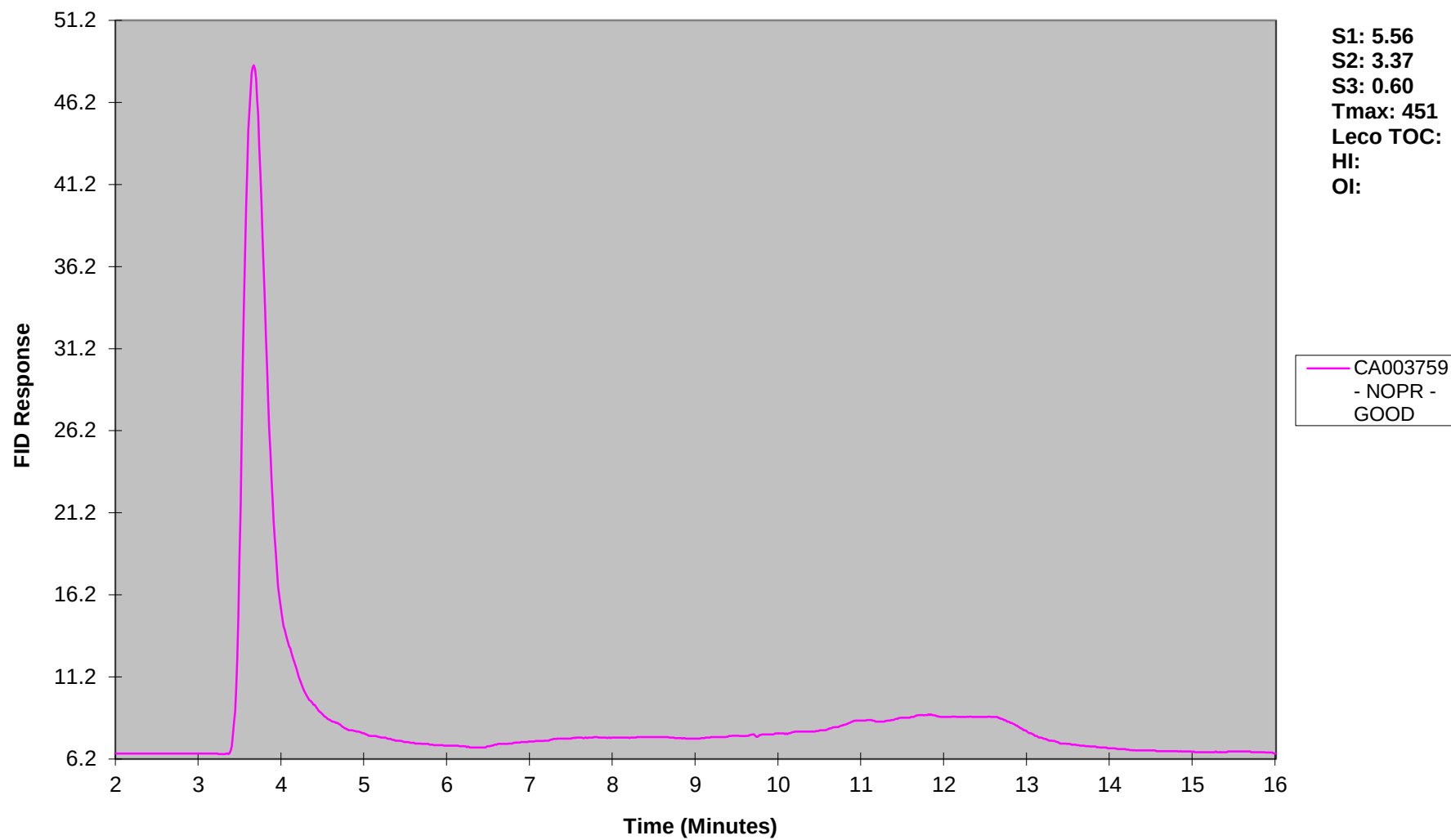
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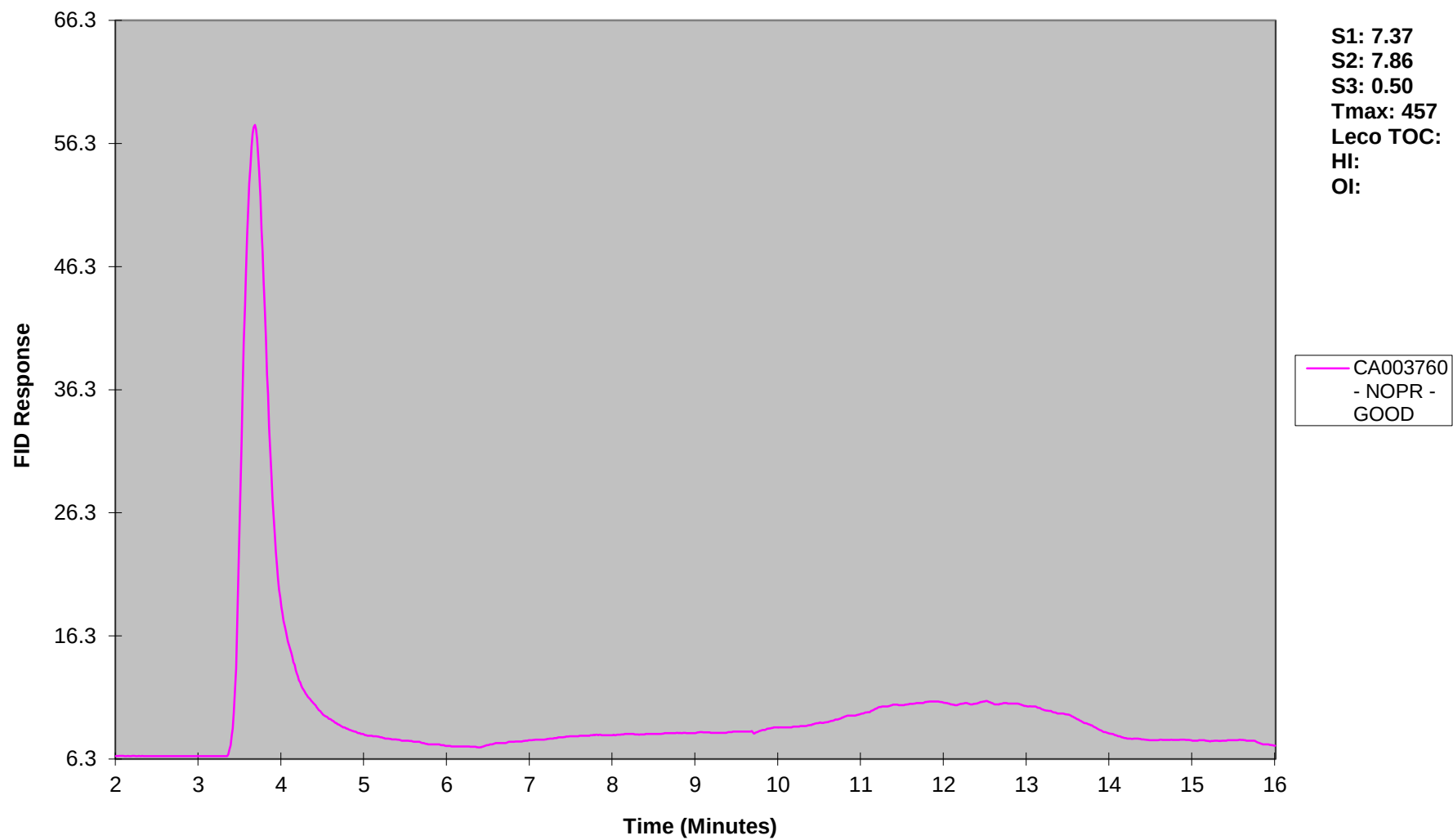
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Well Name: COPRC LOON CREEK O-06, Depth: 1767.31



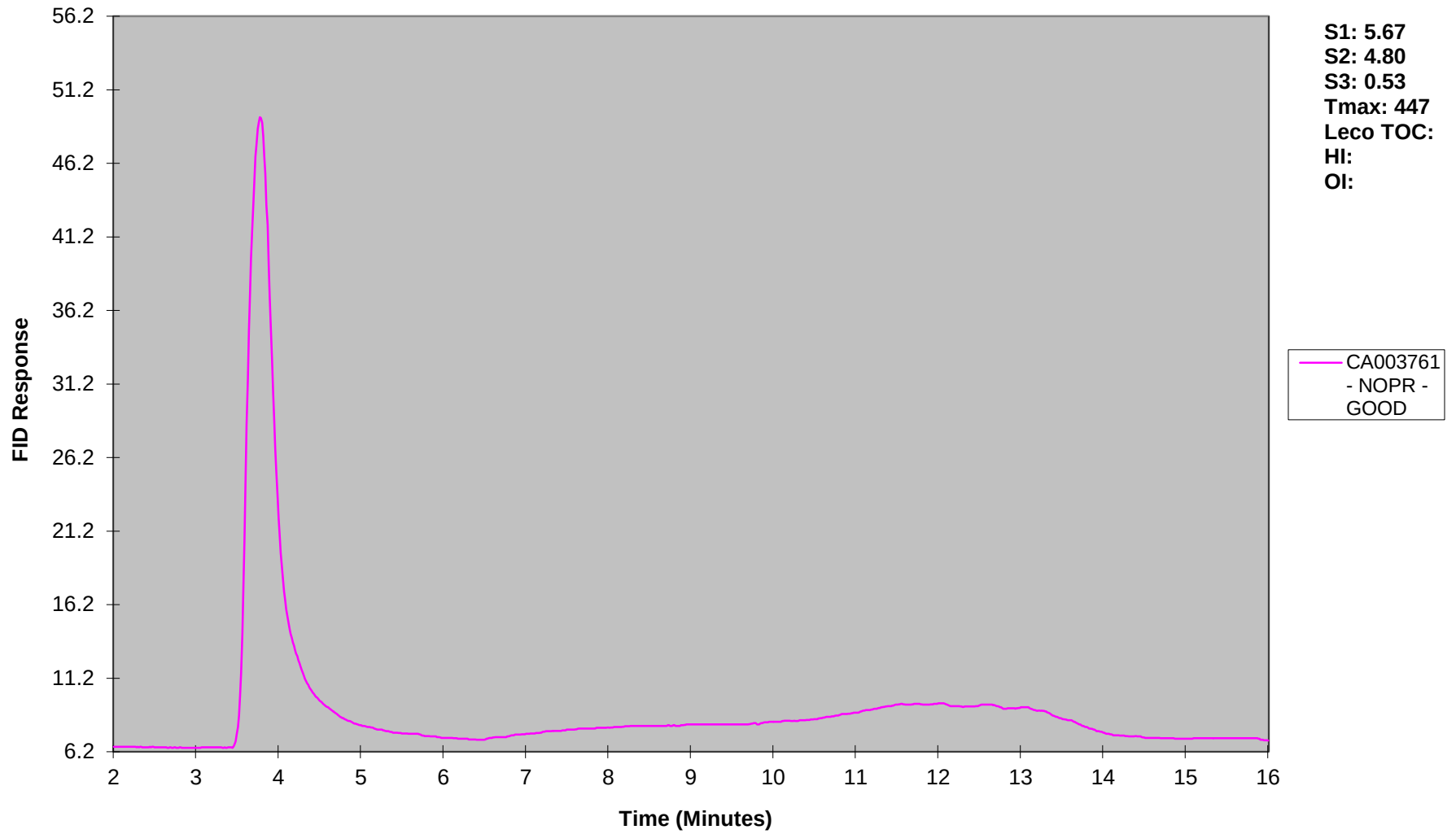
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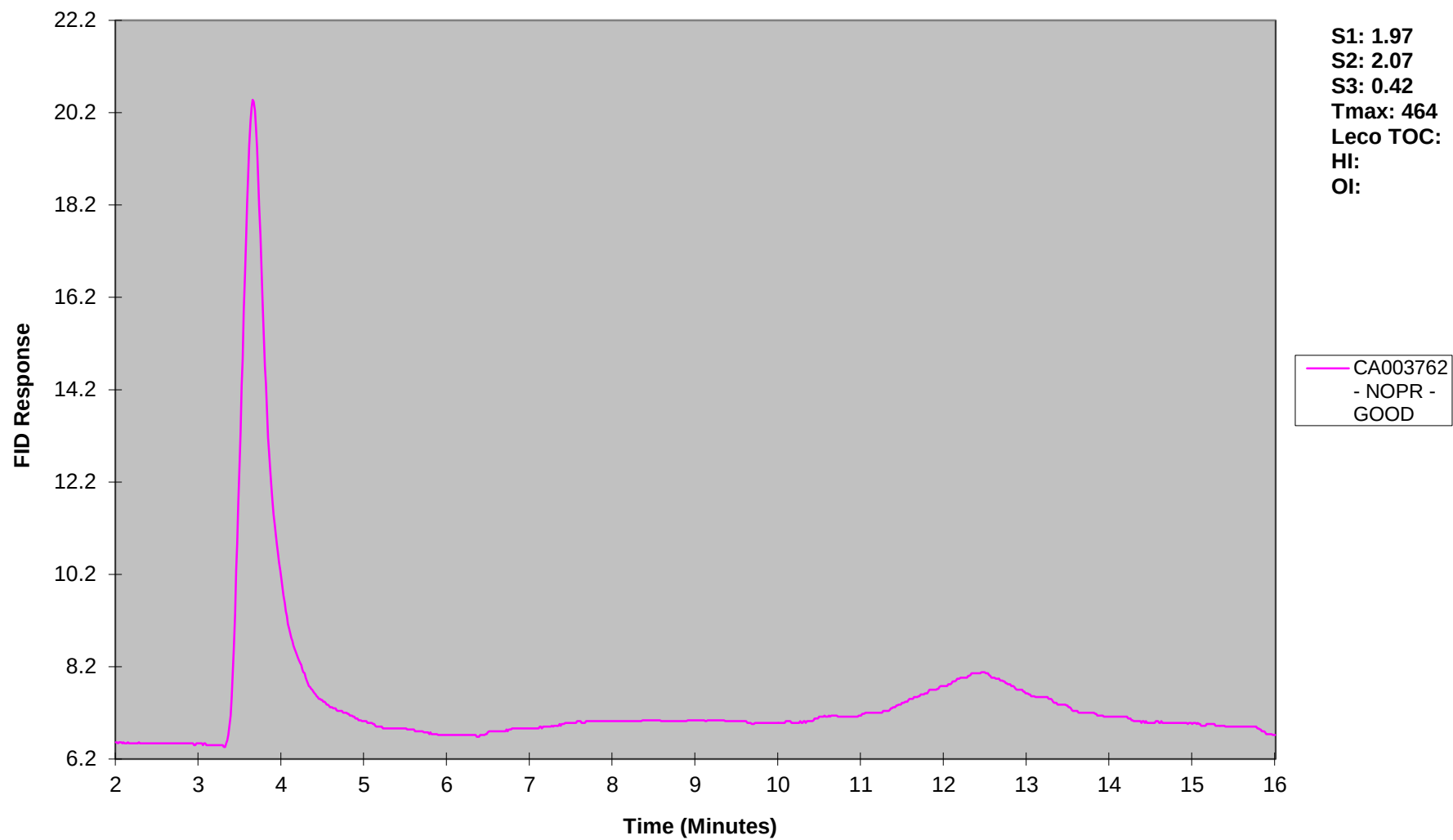
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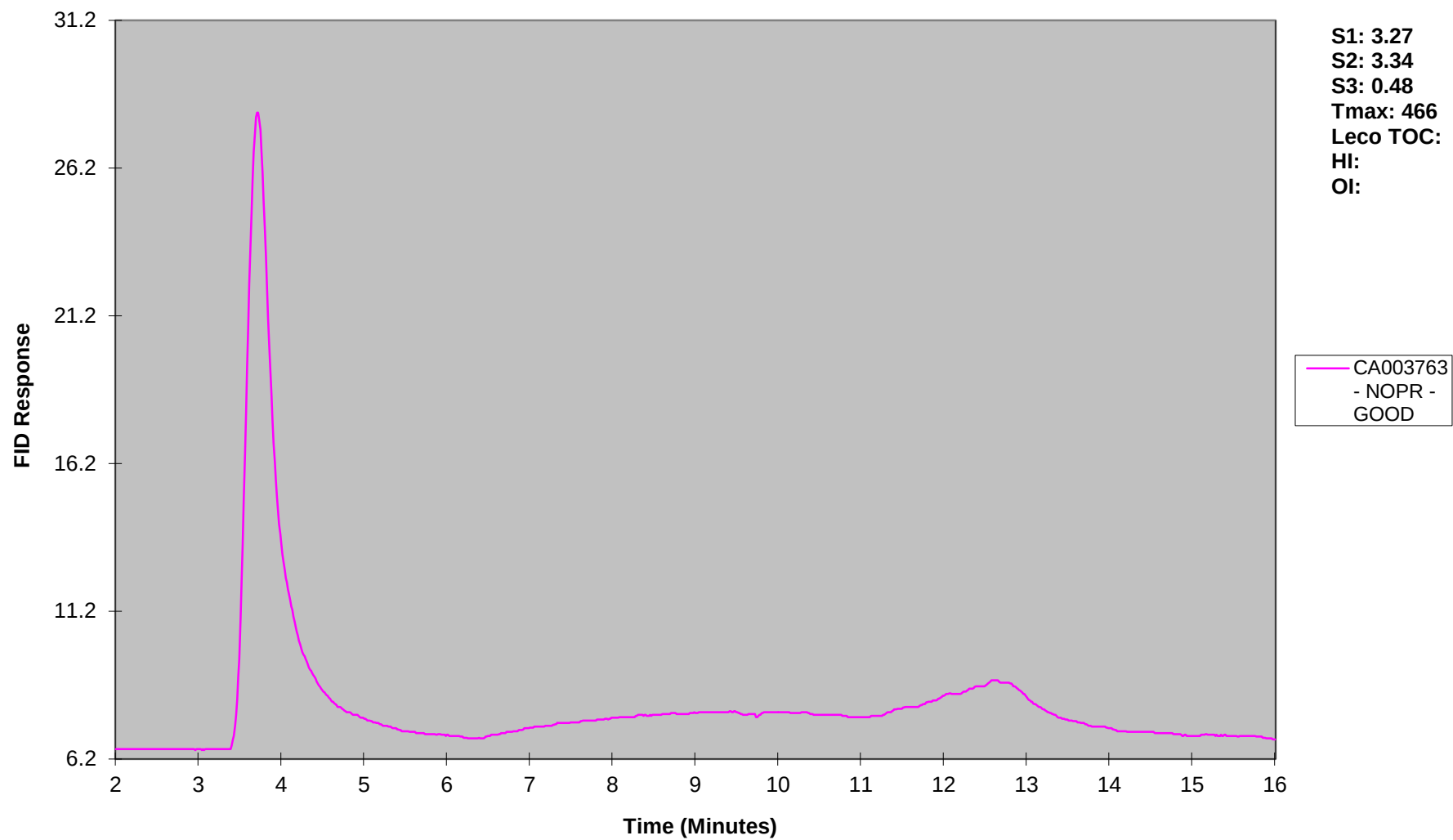
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Well Name: COPRC LOON CREEK O-06, Depth: 1782.50



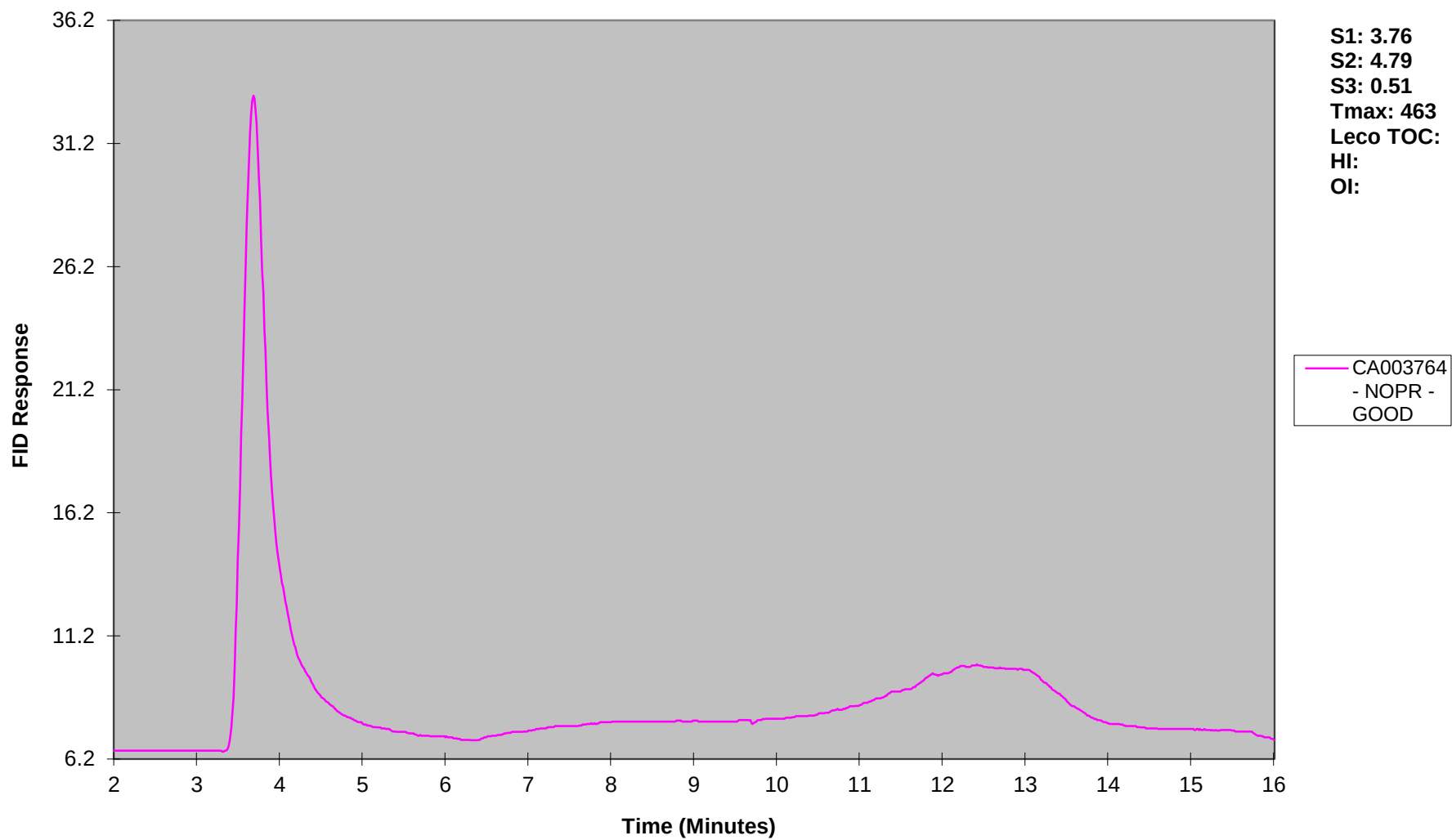
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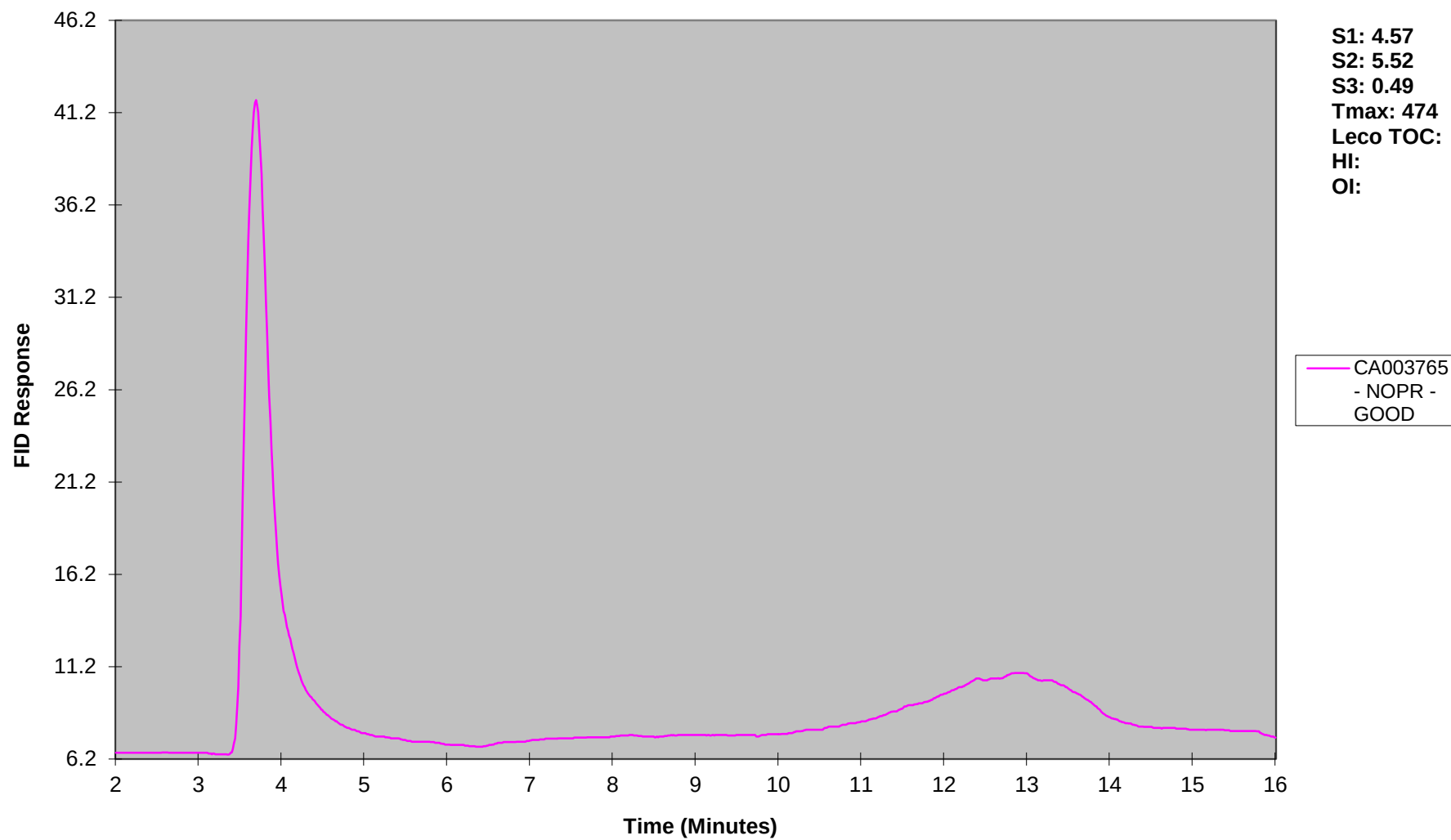
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Well Name: COPRC LOON CREEK O-06, Depth: 1792.13



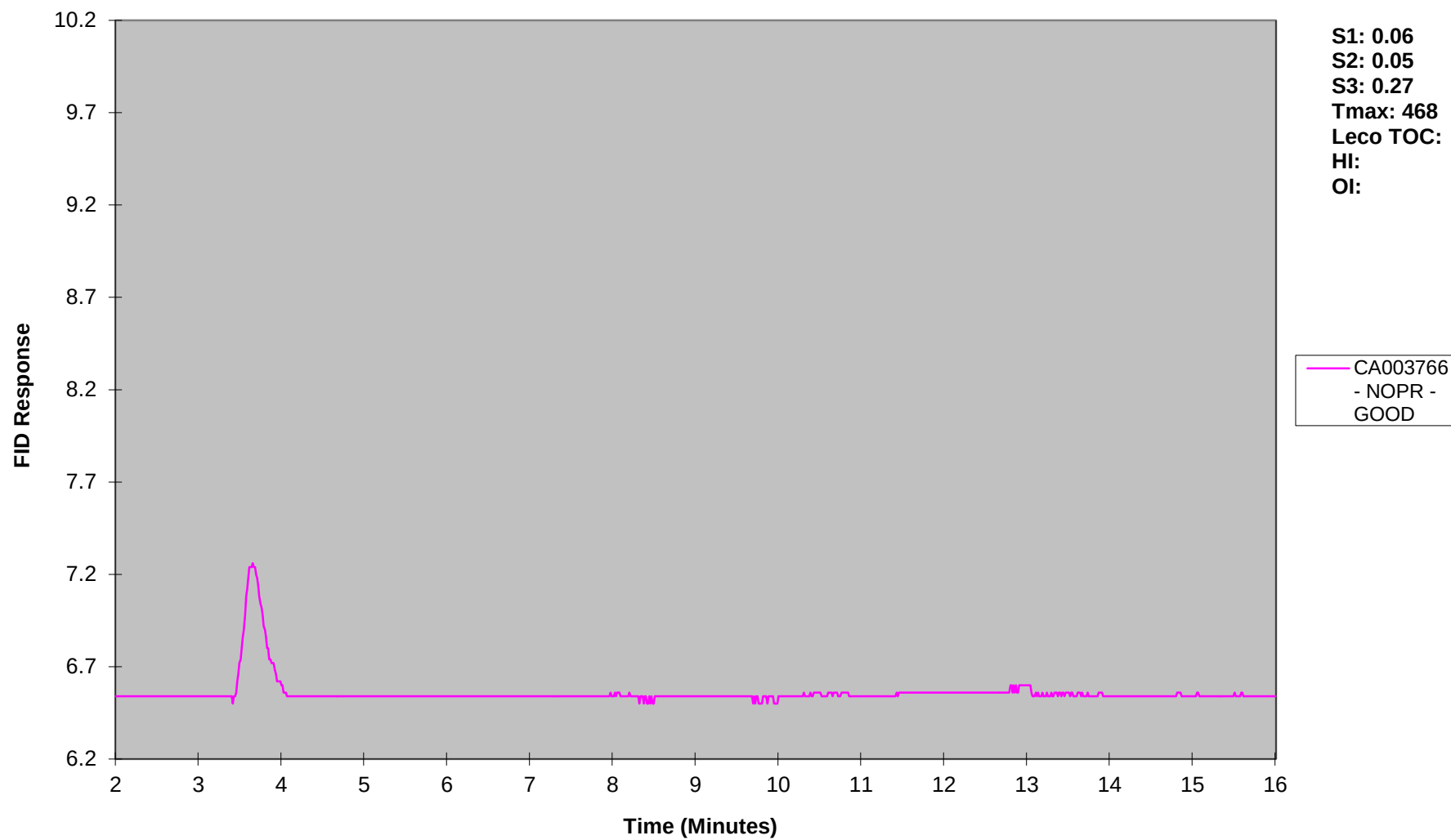
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Well Name: COPRC LOON CREEK O-06, Depth: 1796.09



Lab ID: CP316297, Client ID: CA003765, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1804.46



Lab ID: CP316298, Client ID: CA003766, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1810.53



REQNUM: BH-63173

LAB ID	CLIENT ID	PREP	WELL NAME	TOP DEPTH	BASE DEPTH	S1	S2	S3
CP317188	CA004051	NOPR	COPRC LOON CREEK O-06	1630.66		1.68	1.29	0.31
CP317189	CA004052	NOPR	COPRC LOON CREEK O-06	1639.69		2.66	2.48	0.50
CP317190	CA004053	NOPR	COPRC LOON CREEK O-06	1649.25		2.74	2.56	0.44
CP317191	CA004054	NOPR	COPRC LOON CREEK O-06	1657.61		1.86	1.48	0.24
CP317192	CA004055	NOPR	COPRC LOON CREEK O-06	1666.88		1.71	1.59	0.28
CP317193	CA004056	NOPR	COPRC LOON CREEK O-06	1676.31		2.21	2.1	0.33
CP317194	CA004057	NOPR	COPRC LOON CREEK O-06	1685.15		3.21	3.05	0.53
CP317195	CA004058	NOPR	COPRC LOON CREEK O-06	1694.04		4.99	3.52	0.5
CP317196	CA004059	NOPR	COPRC LOON CREEK O-06	1703.61		4.38	2.87	0.56
CP317197	CA004060	NOPR	COPRC LOON CREEK O-06	1712.11		5.8	3.79	0.41
CP317198	CA004061	NOPR	COPRC LOON CREEK O-06	1720.58		4.2	2.98	0.43
CP317199	CA004062	NOPR	COPRC LOON CREEK O-06	1731.25		2.9	1.68	0.32
CP317200	CA004063	NOPR	COPRC LOON CREEK O-06	1739.88		2.79	2.31	0.63
CP317201	CA004064	NOPR	COPRC LOON CREEK O-06	1749.12		1.71	1.28	0.54
CP317202	CA004065	NOPR	COPRC LOON CREEK O-06	1758.81		3.93	3.35	0.7
CP317203	CA004066	NOPR	COPRC LOON CREEK O-06	1767.56		6.66	3.92	0.43
CP317204	CA004067	NOPR	COPRC LOON CREEK O-06	1776.91		8.71	6.5	0.46
CP317205	CA004068	NOPR	COPRC LOON CREEK O-06	1786.3		4	3.16	0.53
CP317206	CA004069	NOPR	COPRC LOON CREEK O-06	1794.62		2.98	2.88	0.36
CP317207	CA004070	NOPR	COPRC LOON CREEK O-06	1803.81		3.99	3.66	0.62

TMAX	LECO	TOC	HI	OI
455		1.67	77	19
463		2.69	92	19
463		2.96	86	15
454		1.9	78	13
452		1.82	87	15
462		2.69	78	12
468		3.23	94	16
462		3.29	107	15
465		2.85	101	20
466		3.63	104	11
465		3.32	90	13
468		2.47	68	13
458		2.46	94	26
471		2.18	59	25
469		3.97	84	18
469		3.63	108	12
461		4.81	135	10
468		3.23	98	16
465		2.79	103	13
472		3.95	93	16

Time (Minutes)	Temp °C	CA004051 - NOPR - GOOD	CA004052 - NOPR - GOOD
0.00		16.76	16.84
0.01		16.76	16.84
0.03		16.76	16.84
0.04		16.76	16.84
0.05		15.22	15.28
0.07		12.32	13.1
0.08		11.08	11.08
0.09		9.52	9.52
0.11		8.92	8.92
0.12		8.14	8.2
0.13		7.72	7.9
0.15		7.44	7.62
0.16		7.26	7.48
0.17		7.14	7.42
0.19		7.08	7.32
0.20		6.98	7.26
0.21		6.96	7.26
0.23		6.92	7.2
0.24		6.92	7.2
0.25		6.90	7.18
0.27		6.90	7.14
0.28		6.90	7.12
0.29		6.90	7.12
0.31		6.90	7.08
0.32		6.90	7.04
0.33		6.90	6.98
0.35		6.90	6.98
0.36		6.90	6.96
0.37		6.90	6.92
0.39		6.90	6.92
0.40		6.90	6.9
0.41		6.86	6.9
0.43		6.86	6.9
0.44		6.86	6.9
0.45		6.86	6.9
0.47		6.86	6.9
0.48		6.86	6.86
0.49		6.86	6.86
0.51		6.86	6.86
0.52		6.84	6.84
0.53		6.86	6.84
0.55		6.84	6.84
0.56		6.84	6.84
0.57		6.84	6.84
0.59		6.80	6.84
0.60		6.80	6.84
0.61		6.80	6.8
0.63		6.80	6.8
0.64		6.80	6.8
0.65		6.80	6.8
0.67		6.84	6.8

0.68	6.84	6.8
0.69	6.84	6.8
0.71	6.80	6.8
0.72	6.80	6.8
0.73	6.84	6.8
0.75	6.80	6.8
0.76	6.84	6.8
0.77	6.84	6.8
0.79	6.84	6.8
0.80	6.80	6.8
0.81	6.84	6.8
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0.91	6.80	6.8
0.92	6.80	6.8
0.93	6.80	6.8
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0.96	6.80	6.8
0.97	6.80	6.8
0.99	6.80	6.8
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1.01	6.80	6.8
1.03	6.80	6.8
1.04	6.80	6.8
1.05	6.80	6.8
1.07	6.80	6.8
1.08	6.80	6.8
1.09	6.80	6.8
1.11	6.80	6.8
1.12	6.80	6.8
1.13	6.80	6.8
1.15	6.80	6.8
1.16	6.80	6.8
1.17	6.80	6.8
1.19	6.80	6.8
1.20	6.80	6.8
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1.23	6.80	6.8
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1.25	6.80	6.8
1.27	6.80	6.8
1.28	6.80	6.8
1.29	6.80	6.8
1.31	6.80	6.8
1.32	6.80	6.8
1.33	6.80	6.8
1.35	6.80	6.8
1.36	6.80	6.8

1.37	6.80	6.8
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2.99	6.80	6.84
3.00	6.80	6.84
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3.07	6.80	6.96
3.08	6.90	7.08
3.09	6.98	7.24
3.11	7.08	7.38
3.12	7.26	7.72
3.13	7.50	8
3.15	7.72	8.66
3.16	8.18	9.4
3.17	8.46	10.16
3.19	9.12	11.2
3.20	9.74	12.3
3.21	10.26	13.4
3.23	10.92	14.7
3.24	11.56	15.86
3.25	12.14	17.3
3.27	12.82	18.92
3.28	13.36	19.84
3.29	14.12	21.28
3.31	14.78	22.18
3.32	15.26	23.16
3.33	15.80	23.92
3.35	16.20	24.42
3.36	16.58	24.82
3.37	16.88	25.06
3.39	17.02	25.06
3.40	17.06	24.88
3.41	17.02	24.68
3.43	16.90	24.16
3.44	16.70	23.66

3.45	16.48	23.16
3.47	16.18	22.52
3.48	15.78	21.82
3.49	15.54	21.2
3.51	15.08	20.5
3.52	14.74	19.92
3.53	14.40	19.2
3.55	14.04	18.4
3.56	13.76	17.94
3.57	13.42	17.22
3.59	13.10	16.72
3.60	12.82	16.12
3.61	12.52	15.6
3.63	12.26	15.2
3.64	12.06	14.74
3.65	11.78	14.32
3.67	11.62	13.94
3.68	11.38	13.62
3.69	11.16	13.3
3.71	11.02	12.96
3.72	10.84	12.6
3.73	10.72	12.42
3.75	10.52	12.12
3.76	10.38	11.9
3.77	10.26	11.68
3.79	10.14	11.5
3.80	9.98	11.36
3.81	9.92	11.14
3.83	9.80	10.98
3.84	9.74	10.84
3.85	9.62	10.68
3.87	9.56	10.52
3.88	9.46	10.44
3.89	9.36	10.28
3.91	9.30	10.2
3.92	9.22	10.08
3.93	9.16	9.94
3.95	9.06	9.86
3.96	9.04	9.76
3.97	8.98	9.7
3.99	8.92	9.62
4.00	8.86	9.52
4.01	8.82	9.46
4.03	8.76	9.36
4.04	8.70	9.3
4.05	8.66	9.24
4.07	8.60	9.18
4.08	8.54	9.12
4.09	8.54	9.06
4.11	8.46	9
4.12	8.46	8.98
4.13	8.42	8.94

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4.16	8.36	8.82
4.17	8.30	8.78
4.19	8.28	8.76
4.20	8.24	8.72
4.21	8.18	8.66
4.23	8.18	8.64
4.24	8.14	8.58
4.25	8.14	8.54
4.27	8.12	8.52
4.28	8.08	8.48
4.29	8.08	8.46
4.31	8.02	8.46
4.32	8.00	8.42
4.33	8.00	8.36
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4.36	7.94	8.3
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4.49	7.78	8.02
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4.76	7.54	7.72
4.77	7.50	7.7
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4.81	7.48	7.62
4.83	7.44	7.62

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4.85	7.44	7.62
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4.88	7.42	7.62
4.89	7.42	7.6
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5.08	7.36	7.54
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5.45	7.18	7.36
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5.48	7.18	7.36
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5.52	7.18	7.32

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5.63	7.18	7.26
5.64	7.14	7.26
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5.68	7.14	7.24
5.69	7.12	7.24
5.71	7.12	7.24
5.72	7.12	7.24
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5.77	7.08	7.2
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6.71	7.24	7.36
6.72	7.24	7.36
6.73	7.24	7.36
6.75	7.24	7.36
6.76	7.24	7.36
6.77	7.24	7.36
6.79	7.24	7.38
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6.87	7.26	7.44
6.88	7.26	7.44
6.89	7.30	7.44
6.91	7.30	7.44

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7.67	7.42	7.7
7.68	7.42	7.7
7.69	7.44	7.72
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7.76	7.44	7.76
7.77	7.48	7.76
7.79	7.48	7.76
7.80	7.48	7.78
7.81	7.44	7.76
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7.87	7.48	7.78
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7.96	7.48	7.82
7.97	7.48	7.82
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8.00	7.48	7.82
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8.87	7.36	7.82
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8.92	7.36	7.82
8.93	7.36	7.82
8.95	7.36	7.82
8.96	7.36	7.82
8.97	7.36	7.78
8.99	7.36	7.78

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9.19	7.36	7.78
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9.40	7.32	7.72
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9.73	7.24	7.7
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9.76	7.24	7.7
9.77	7.26	7.7
9.79	7.24	7.7
9.80	7.24	7.7
9.81	7.24	7.72
9.83	7.26	7.72
9.84	7.26	7.72
9.85	7.24	7.72
9.87	7.26	7.7
9.88	7.26	7.72
9.89	7.26	7.7
9.91	7.24	7.72
9.92	7.24	7.72
9.93	7.26	7.72
9.95	7.24	7.72
9.96	7.26	7.72
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10.03	7.26	7.72
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10.09	7.26	7.72
10.11	7.26	7.72
10.12	7.26	7.72
10.13	7.26	7.72
10.15	7.26	7.72
10.16	7.26	7.72
10.17	7.26	7.72
10.19	7.26	7.72
10.20	7.26	7.72
10.21	7.26	7.72
10.23	7.26	7.72
10.24	7.26	7.72
10.25	7.26	7.76
10.27	7.26	7.76
10.28	7.26	7.76
10.29	7.26	7.76
10.31	7.3	7.78
10.32	7.26	7.78
10.33	7.26	7.78
10.35	7.26	7.78
10.36	7.3	7.78
10.37	7.26	7.82

10.39	7.3	7.78
10.40	7.3	7.78
10.41	7.3	7.78
10.43	7.3	7.78
10.44	7.32	7.78
10.45	7.32	7.78
10.47	7.32	7.78
10.48	7.32	7.78
10.49	7.32	7.78
10.51	7.32	7.78
10.52	7.36	7.78
10.53	7.36	7.82
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10.56	7.36	7.82
10.57	7.36	7.82
10.59	7.36	7.82
10.60	7.36	7.82
10.61	7.36	7.82
10.63	7.36	7.82
10.64	7.36	7.82
10.65	7.36	7.82
10.67	7.36	7.84
10.68	7.36	7.84
10.69	7.36	7.84
10.71	7.36	7.88
10.72	7.36	7.88
10.73	7.36	7.88
10.75	7.36	7.88
10.76	7.36	7.88
10.77	7.38	7.88
10.79	7.38	7.88
10.80	7.38	7.88
10.81	7.42	7.88
10.83	7.42	7.88
10.84	7.42	7.9
10.85	7.44	7.9
10.87	7.44	7.9
10.88	7.44	7.9
10.89	7.44	7.9
10.91	7.44	7.94
10.92	7.44	7.94
10.93	7.44	7.96
10.95	7.48	7.96
10.96	7.48	8
10.97	7.5	8
10.99	7.5	8
11.00	7.5	8.02
11.01	7.5	8.02
11.03	7.54	8.06
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11.05	7.54	8.06
11.07	7.54	8.06

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11.09	7.54	8.06
11.11	7.54	8.06
11.12	7.54	8.08
11.13	7.54	8.08
11.15	7.54	8.08
11.16	7.54	8.12
11.17	7.54	8.12
11.19	7.56	8.14
11.20	7.56	8.14
11.21	7.6	8.14
11.23	7.6	8.14
11.24	7.6	8.14
11.25	7.6	8.18
11.27	7.6	8.18
11.28	7.62	8.18
11.29	7.62	8.18
11.31	7.62	8.2
11.32	7.62	8.24
11.33	7.62	8.28
11.35	7.62	8.28
11.36	7.62	8.3
11.37	7.62	8.3
11.39	7.62	8.3
11.40	7.66	8.34
11.41	7.7	8.34
11.43	7.7	8.34
11.44	7.72	8.36
11.45	7.72	8.36
11.47	7.72	8.4
11.48	7.76	8.4
11.49	7.76	8.4
11.51	7.76	8.42
11.52	7.78	8.42
11.53	7.78	8.42
11.55	7.78	8.46
11.56	7.78	8.46
11.57	7.78	8.46
11.59	7.78	8.46
11.60	7.82	8.48
11.61	7.82	8.52
11.63	7.82	8.52
11.64	7.82	8.54
11.65	7.84	8.54
11.67	7.84	8.58
11.68	7.84	8.58
11.69	7.88	8.58
11.71	7.88	8.6
11.72	7.88	8.6
11.73	7.88	8.6
11.75	7.88	8.64
11.76	7.9	8.64

11.77	7.9	8.64
11.79	7.9	8.66
11.80	7.9	8.66
11.81	7.94	8.66
11.83	7.94	8.66
11.84	7.96	8.7
11.85	7.96	8.7
11.87	7.96	8.7
11.88	8	8.72
11.89	8	8.72
11.91	8	8.72
11.92	8.02	8.76
11.93	8.02	8.78
11.95	8.06	8.82
11.96	8.06	8.82
11.97	8.06	8.86
11.99	8.06	8.86
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12.15	8.06	8.88
12.16	8.06	8.88
12.17	8.02	8.88
12.19	8	8.92
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12.21	8	8.92
12.23	8	8.92
12.24	8	8.92
12.25	7.94	8.94
12.27	7.94	8.94
12.28	7.9	8.98
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12.31	7.9	8.98
12.32	7.9	8.98
12.33	7.9	8.98
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12.36	7.88	8.98
12.37	7.88	8.98
12.39	7.88	8.98
12.40	7.84	8.98
12.41	7.82	8.98
12.43	7.82	8.98
12.44	7.82	8.98
12.45	7.82	8.94

12.47	7.78	8.94
12.48	7.76	8.94
12.49	7.72	8.94
12.51	7.72	8.94
12.52	7.7	8.92
12.53	7.66	8.92
12.55	7.62	8.92
12.56	7.62	8.92
12.57	7.62	8.92
12.59	7.62	8.92
12.60	7.62	8.92
12.61	7.6	8.92
12.63	7.56	8.88
12.64	7.56	8.88
12.65	7.54	8.86
12.67	7.54	8.82
12.68	7.54	8.78
12.69	7.54	8.76
12.71	7.54	8.72
12.72	7.54	8.72
12.73	7.5	8.7
12.75	7.48	8.64
12.76	7.44	8.6
12.77	7.44	8.54
12.79	7.44	8.54
12.80	7.42	8.48
12.81	7.38	8.46
12.83	7.38	8.46
12.84	7.36	8.4
12.85	7.36	8.36
12.87	7.36	8.34
12.88	7.36	8.28
12.89	7.36	8.28
12.91	7.36	8.24
12.92	7.36	8.18
12.93	7.36	8.18
12.95	7.32	8.14
12.96	7.3	8.14
12.97	7.3	8.12
12.99	7.26	8.08
13.00	7.26	8.08
13.01	7.26	8.06
13.03	7.24	8
13.04	7.2	8
13.05	7.18	8
13.07	7.18	7.96
13.08	7.18	7.94
13.09	7.18	7.9
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13.12	7.18	7.88
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13.15	7.18	7.82

13.16	7.18	7.82
13.17	7.18	7.82
13.19	7.18	7.82
13.20	7.18	7.78
13.21	7.18	7.76
13.23	7.14	7.72
13.24	7.14	7.72
13.25	7.12	7.7
13.27	7.12	7.66
13.28	7.12	7.62
13.29	7.08	7.62
13.31	7.08	7.62
13.32	7.08	7.62
13.33	7.08	7.62
13.35	7.08	7.62
13.36	7.08	7.62
13.37	7.08	7.6
13.39	7.08	7.6
13.40	7.08	7.6
13.41	7.08	7.56
13.43	7.08	7.56
13.44	7.08	7.54
13.45	7.08	7.54
13.47	7.08	7.54
13.48	7.08	7.54
13.49	7.08	7.54
13.51	7.08	7.54
13.52	7.04	7.54
13.53	7.04	7.54
13.55	7.02	7.54
13.56	7.02	7.5
13.57	7.02	7.48
13.59	7.02	7.5
13.60	6.98	7.5
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13.63	6.98	7.44
13.64	6.98	7.44
13.65	6.98	7.44
13.67	6.98	7.44
13.68	6.98	7.44
13.69	6.98	7.44
13.71	6.96	7.44
13.72	6.96	7.42
13.73	6.96	7.38
13.75	6.96	7.38
13.76	6.96	7.38
13.77	6.92	7.38
13.79	6.92	7.36
13.80	6.92	7.36
13.81	6.92	7.36
13.83	6.92	7.36
13.84	6.92	7.36

13.85	6.92	7.36
13.87	6.92	7.36
13.88	6.9	7.36
13.89	6.9	7.36
13.91	6.9	7.36
13.92	6.9	7.36
13.93	6.9	7.36
13.95	6.9	7.36
13.96	6.9	7.36
13.97	6.9	7.36
13.99	6.9	7.36
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14.01	6.9	7.36
14.03	6.9	7.36
14.04	6.9	7.36
14.05	6.9	7.36
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14.32	6.9	7.26
14.33	6.9	7.26
14.35	6.9	7.24
14.36	6.9	7.24
14.37	6.9	7.24
14.39	6.9	7.24
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15.23	6.84	7.14

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15.37	6.84	7.14
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15.44	6.8	7.14
15.45	6.8	7.14
15.47	6.84	7.14
15.48	6.8	7.12
15.49	6.8	7.12
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15.76	6.8	7.02
15.77	6.8	7.02
15.79	6.8	6.98
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15.81	6.8	6.98
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15.85	6.8	6.98
15.87	6.8	6.98
15.88	6.8	6.98
15.89	6.8	6.96
15.91	6.8	6.96
15.92	6.8	6.92

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15.95	6.8	6.92
15.96	6.8	6.92
15.97	6.8	6.96
15.99	6.8	6.98
16.00	6.8	6.98
16.01	6.8	6.98
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16.12	6.8	6.96
16.13	6.8	6.96
16.15	6.8	6.92
16.16	6.8	6.92
16.17	6.8	6.92
16.19	6.8	6.92
16.20	6.8	6.92
16.21	6.8	6.92
16.23	6.8	6.92
16.24	6.8	6.92
16.25	6.8	6.92
16.27	6.8	6.92
16.28	6.8	6.92
16.29	6.8	6.92
16.31	6.8	6.92
16.32	6.8	6.92
16.33	6.8	6.92
16.35	6.8	8.72
16.36	7.72	10.9
16.37	10.9	12.72
16.39	12.72	13.82
16.40	13.82	14.74
16.41	14.78	15.38
16.43	15.32	15.74
16.44	15.74	16.06
16.45	16.06	16.26
16.47	16.24	16.38
16.48	16.38	16.48
16.49	16.52	16.52
16.51	16.58	16.58
16.52	16.64	16.6
16.53	16.66	16.64
16.55	16.7	16.66
16.56	16.7	16.66
16.57	16.72	16.66
16.59	16.72	16.7
16.60	16.72	16.7
16.61	16.72	16.7

16.63	16.72	16.7
16.64	16.76	16.7
16.65	16.76	16.7
16.67	16.72	16.7
16.68	16.76	16.7
16.69	16.76	16.7
16.71	16.76	16.66
16.72	16.72	16.66
16.73	16.72	16.66
16.75	16.72	16.66
16.76	16.72	16.66
16.77	16.72	16.66
16.79	16.72	16.66
16.80	16.72	16.66
16.81	16.72	16.66
16.83	16.72	16.66
16.84	16.72	16.66
16.85	16.72	16.64
16.87	16.76	16.64
16.88	16.76	16.66
16.89	16.76	16.66
16.91	16.76	16.66
16.92	16.76	16.66
16.93	16.76	16.7
16.95	16.76	16.7
16.96	16.76	16.72
16.97	16.78	16.72
16.99	16.82	16.76
17.00	16.82	16.76
17.01	16.84	16.78
17.03	16.88	16.84
17.04	16.94	16.9
17.05	17.02	16.96
17.07	17.06	17.06
17.08	17.12	17.16
17.09	17.22	17.22
17.11	17.3	17.36
17.12	17.48	17.48
17.13	17.58	17.66
17.15	17.8	17.92
17.16	18	18.12
17.17	18.22	18.46
17.19	18.56	18.82
17.20	18.82	19.2
17.21	19.28	19.74
17.23	19.84	20.2
17.24	20.32	20.94
17.25	21	21.86
17.27	21.76	22.46
17.28	22.52	23.56
17.29	23.56	24.56
17.31	24.2	25.46

17.32	25.4	26.48
17.33	26.34	27.26
17.35	27.1	28.1
17.36	27.86	28.72
17.37	28.38	29.06
17.39	28.72	29.2
17.40	28.78	29.06
17.41	28.62	28.66
17.43	28.14	27.86
17.44	27.32	27.28
17.45	26.68	26.04
17.47	25.48	24.9
17.48	24.78	23.92
17.49	23.4	22.8
17.51	22.4	22
17.52	21.58	21
17.53	20.7	20.2
17.55	19.96	19.62
17.56	19.4	19.02
17.57	18.9	18.5
17.59	18.5	18.24
17.60	18.16	17.92
17.61	17.86	17.76
17.63	17.74	17.58
17.64	17.54	17.42
17.65	17.46	17.36
17.67	17.36	17.3
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17.69	17.28	17.24
17.71	17.24	17.22
17.72	17.22	17.22
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17.76	17.22	17.22
17.77	17.22	17.22
17.79	17.22	17.22
17.80	17.24	17.24
17.81	17.28	17.24
17.83	17.3	17.28
17.84	17.34	17.3
17.85	17.4	17.36
17.87	17.4	17.4
17.88	17.42	17.42
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17.92	17.52	17.48
17.93	17.52	17.48
17.95	17.54	17.48
17.96	17.54	17.48
17.97	17.54	17.48
17.99	17.52	17.48
18.00	17.48	17.46

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18.05	17.36	17.3
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18.08	17.3	17.24
18.09	17.28	17.22
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18.12	17.22	17.16
18.13	17.18	17.12
18.15	17.16	17.08
18.16	17.12	17.06
18.17	17.08	17.02
18.19	17.06	17.02
18.20	17.02	17.02
18.21	17.02	17
18.23	17.02	16.96
18.24	17	16.94
18.25	16.96	16.94
18.27	16.94	16.94
18.28	16.94	16.9
18.29	16.9	16.88
18.31	16.88	16.88
18.32	16.84	16.84
18.33	16.84	16.84
18.35	16.84	16.84
18.36	16.84	16.84
18.37	16.84	16.84
18.39	16.84	16.84
18.40	16.84	16.84
18.41	16.84	16.84
18.43	16.84	16.84
18.44	16.84	16.84
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18.48	16.84	16.84
18.49	16.84	16.84
18.51	16.84	16.84
18.52	16.84	16.88
18.53	16.84	16.88
18.55	16.82	16.9
18.56	16.82	16.94
18.57	16.82	16.94
18.59	16.82	16.94
18.60	16.82	16.96
18.61	16.82	16.96
18.63	16.82	17
18.64	16.82	17
18.65	16.82	17
18.67	16.82	17.02
18.68	16.82	17.02
18.69	16.82	17.02

18.71	16.82	17.06
18.72	16.82	17.08
18.73	16.82	17.12
18.75	16.78	17.12
18.76	16.82	17.16
18.77	16.82	17.18
18.79	16.82	17.18
18.80	16.82	17.22
18.81	16.82	17.22
18.83	16.82	17.22
18.84	16.82	17.24
18.85	16.82	17.24
18.87	16.82	17.28
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18.89	16.84	17.34
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18.93	16.82	17.42
18.95	16.82	17.46
18.96	16.82	17.48
18.97	16.84	17.48
18.99	16.82	17.54
19.00	16.78	17.58
19.01	16.78	17.6
19.03	16.82	17.64
19.04	16.82	17.66
19.05	16.82	17.7
19.07	16.82	17.76
19.08	16.82	17.76
19.09	16.82	17.8
19.11	16.82	17.86
19.12	16.82	17.92
19.13	16.82	17.94
19.15	16.82	17.94
19.16	16.84	17.98
19.17	16.84	18.04
19.19	16.84	18.04

CA004053 - NOPR - GOOD	CA004054 - NOPR - GOOD	CA004055 - NOPR - GOOD
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18.58	17.52	17.12
18.56	17.54	17.12
18.56	17.52	17.12
17.48	15.96	15.42
13.8	13.22	13.16
11.56	11.44	11.14
10.26	9.76	9.94
9.16	9.1	8.98
8.54	8.28	8.36
8.06	7.84	8
7.72	7.62	7.76
7.56	7.44	7.6
7.42	7.32	7.5
7.3	7.26	7.42
7.26	7.2	7.36
7.2	7.18	7.32
7.18	7.12	7.3
7.14	7.12	7.26
7.12	7.08	7.26
7.08	7.08	7.26
7.08	7.04	7.2
7.02	6.98	7.18
6.98	6.98	7.18
6.96	6.96	7.12
6.96	6.92	7.08
6.92	6.92	7.04
6.9	6.9	6.98
6.9	6.9	6.98
6.9	6.9	6.96
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6.86	6.9	6.9
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6.74	6.78	6.8
6.78	6.78	6.78
6.84	6.8	6.8
6.92	6.9	6.86
7.02	6.98	6.96
7.18	7.14	7.08
7.32	7.36	7.3
7.62	7.62	7.5
8.08	7.9	7.88
8.54	8.4	8.28
9.46	8.92	8.86
10.28	9.42	9.56
11.6	10.16	9.98
13.04	10.58	10.72
14.4	11.32	11.26
16.24	11.9	11.74
18.12	12.42	12.3
19.74	13.06	12.72
21.92	13.62	13.28
22.94	14.28	13.8
24.6	14.96	14.22
25.7	15.5	14.74
26.36	16.2	15.14
26.86	16.78	15.48
27.04	17.12	15.78
26.94	17.48	15.94
26.68	17.7	16.06
26.3	17.86	16.08
25.66	17.94	16.02
24.88	17.88	15.9
24.32	17.76	15.78

23.32	17.52	15.54
22.68	17.28	15.32
21.86	16.94	15.08
21.08	16.6	14.8
20.42	16.2	14.5
19.66	15.74	14.28
18.96	15.48	13.94
18.38	14.98	13.74
17.74	14.68	13.42
17.24	14.28	13.16
16.66	13.92	12.94
16.06	13.64	12.7
15.72	13.34	12.48
15.16	13.04	12.26
14.74	12.78	12.06
14.4	12.52	11.9
14	12.3	11.68
13.74	12.06	11.5
13.4	11.78	11.38
13.1	11.66	11.16
12.84	11.42	11.04
12.58	11.26	10.9
12.3	11.08	10.74
12.08	10.96	10.62
11.82	10.8	10.5
11.68	10.62	10.38
11.44	10.5	10.28
11.26	10.4	10.16
11.1	10.26	10.08
10.96	10.16	9.98
10.8	10.08	9.86
10.66	9.92	9.8
10.5	9.86	9.7
10.4	9.76	9.62
10.26	9.68	9.56
10.14	9.62	9.5
10.04	9.52	9.42
9.92	9.46	9.34
9.86	9.36	9.3
9.76	9.34	9.24
9.64	9.24	9.18
9.62	9.18	9.12
9.52	9.12	9.06
9.42	9.06	9.04
9.34	9.04	8.98
9.24	9	8.94
9.18	8.98	8.92
9.12	8.92	8.86
9.04	8.86	8.82
8.98	8.82	8.76
8.94	8.76	8.72
8.88	8.72	8.7

8.82	8.7	8.66
8.78	8.66	8.64
8.72	8.64	8.54
8.7	8.58	8.54
8.64	8.54	8.52
8.6	8.52	8.48
8.54	8.48	8.46
8.52	8.46	8.46
8.48	8.42	8.42
8.46	8.4	8.36
8.42	8.4	8.36
8.4	8.36	8.34
8.36	8.34	8.28
8.34	8.28	8.28
8.28	8.28	8.24
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8.06	8.08	8.08
8.02	8.06	8.08
8	8.02	8.06
7.96	8	8.02
7.94	8	8
7.9	7.96	8
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7.82	7.9	7.94
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7.76	7.84	7.84
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7.66	7.78	7.78
7.62	7.76	7.78
7.62	7.76	7.76
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7.84	7.32	7.44
7.84	7.32	7.44
7.84	7.32	7.42
7.84	7.36	7.44
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7.88	7.36	7.42
7.84	7.36	7.42
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7.84	7.36	7.44
7.84	7.36	7.42
7.84	7.36	7.42

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7.9	7.36	7.48
7.9	7.36	7.48
7.94	7.36	7.48
7.94	7.36	7.48
7.94	7.36	7.5
7.96	7.36	7.5
7.96	7.36	7.5
7.96	7.38	7.5
8	7.38	7.5
8	7.42	7.5
8	7.38	7.5
8	7.38	7.5
8	7.42	7.5
8.02	7.42	7.54
8.06	7.42	7.54
8.06	7.44	7.54
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8.08	7.44	7.54
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8.18	7.54	7.6
8.18	7.54	7.6
8.2	7.54	7.6
8.24	7.54	7.6

8.28	7.54	7.6
8.28	7.54	7.62
8.28	7.54	7.62
8.3	7.54	7.62
8.3	7.56	7.62
8.34	7.56	7.62
8.34	7.56	7.62
8.34	7.56	7.62
8.34	7.6	7.62
8.36	7.6	7.62
8.36	7.6	7.66
8.36	7.6	7.66
8.4	7.6	7.66
8.4	7.62	7.7
8.42	7.62	7.7
8.46	7.62	7.72
8.46	7.62	7.72
8.48	7.62	7.72
8.52	7.62	7.76
8.54	7.62	7.76
8.54	7.66	7.78
8.54	7.66	7.78
8.58	7.7	7.78
8.58	7.7	7.78
8.58	7.72	7.78
8.6	7.72	7.78
8.64	7.72	7.78
8.64	7.76	7.82
8.64	7.76	7.82
8.66	7.78	7.82
8.66	7.78	7.84
8.66	7.78	7.84
8.66	7.82	7.88
8.72	7.82	7.88
8.72	7.82	7.88
8.72	7.82	7.88
8.76	7.82	7.88
8.76	7.84	7.88
8.78	7.88	7.9
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8.82	7.9	7.9
8.86	7.9	7.9
8.86	7.9	7.94
8.86	7.9	7.96
8.86	7.9	7.96
8.88	7.9	8
8.92	7.94	8
8.92	7.94	8
8.92	7.94	8
8.94	7.96	8
8.94	7.96	8

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8.98	8	8.06
8.98	8	8.06
8.98	8	8.06
8.98	8.02	8.06
8.98	8.02	8.06
9	8.06	8.06
9.04	8.06	8.06
9.06	8.06	8.06
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9.12	8.06	8.06
9.12	8.06	8.06
9.12	8.06	8.02
9.12	8.02	8
9.16	8.02	8
9.16	8	8
9.16	8	7.96
9.16	8	7.96
9.16	8	7.94
9.16	7.96	7.9
9.16	7.94	7.9
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9.22	7.82	7.82
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9.18	7.82	7.82
9.18	7.82	7.82
9.18	7.82	7.82
9.16	7.78	7.78
9.16	7.78	7.76

9.16	7.76	7.76
9.16	7.76	7.72
9.16	7.72	7.72
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9.12	7.72	7.66
9.12	7.7	7.62
9.12	7.66	7.62
9.1	7.66	7.62
9.06	7.62	7.62
9.06	7.62	7.62
9.04	7.62	7.62
9	7.62	7.62
8.98	7.62	7.62
8.98	7.62	7.6
8.98	7.62	7.56
8.94	7.62	7.56
8.92	7.62	7.56
8.92	7.62	7.54
8.92	7.6	7.54
8.88	7.56	7.54
8.86	7.56	7.54
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8.82	7.54	7.54
8.76	7.54	7.54
8.72	7.54	7.54
8.72	7.54	7.5
8.66	7.54	7.5
8.64	7.54	7.5
8.58	7.5	7.48
8.54	7.5	7.48
8.48	7.48	7.44
8.46	7.48	7.44
8.4	7.44	7.44
8.36	7.44	7.44
8.3	7.44	7.44
8.28	7.44	7.42
8.2	7.44	7.42
8.18	7.42	7.38
8.14	7.38	7.38
8.08	7.38	7.36
8.08	7.38	7.36
8.02	7.36	7.36
8	7.36	7.36
7.96	7.36	7.36
7.94	7.36	7.36
7.9	7.36	7.36
7.9	7.36	7.36
7.88	7.36	7.36
7.84	7.36	7.36
7.82	7.36	7.36
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7.78	7.32	7.32
7.76	7.32	7.32
7.72	7.3	7.3
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7.32	7.14	7.2
7.32	7.14	7.18
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7.26	7.14	7.18
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6.86	6.86	6.86
6.9	6.84	6.84
9.06	8.24	8.4
10.8	10.9	11.04
12.96	12.78	12.84
14.16	13.86	13.92
14.86	14.8	14.8
15.5	15.32	15.5
15.84	15.78	15.78
16.12	16.12	16.08
16.32	16.3	16.26
16.44	16.44	16.42
16.54	16.54	16.52
16.6	16.6	16.58
16.66	16.66	16.64
16.66	16.66	16.66
16.7	16.7	16.7
16.72	16.72	16.7
16.72	16.72	16.72
16.76	16.76	16.72
16.76	16.76	16.72
16.76	16.76	16.72

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16.82	16.82	16.78
16.84	16.84	16.82
16.88	16.88	16.82
16.94	16.94	16.88
16.96	16.96	16.94
17.02	17.02	16.96
17.12	17.06	17.02
17.18	17.12	17.12
17.3	17.18	17.22
17.4	17.3	17.3
17.52	17.36	17.4
17.66	17.52	17.54
17.86	17.66	17.74
18.12	17.86	17.92
18.32	18.06	18.16
18.7	18.28	18.52
19.04	18.58	18.8
19.54	18.96	19.28
20.06	19.32	19.62
20.56	19.84	20.36
21.28	20.38	21
22.04	20.94	21.64
22.74	21.76	22.46
23.6	22.24	23.28

24.3	23.16	24.04
25.18	23.86	25.06
26.06	24.5	25.58
26.52	25.14	26.4
27.1	25.54	26.94
27.38	25.88	27.2
27.4	26.04	27.28
27.2	25.94	27.2
26.82	25.66	26.76
26.16	25.08	26.22
25.24	24.62	25.54
24.6	23.74	24.66
23.44	23.22	23.56
22.68	22.18	22.88
21.72	21.42	21.82
20.88	20.78	21.28
20.24	20.08	20.36
19.56	19.5	19.68
19.02	19.04	19.2
18.62	18.62	18.74
18.22	18.34	18.38
17.98	18.06	18.12
17.74	17.82	17.86
17.54	17.7	17.7
17.46	17.54	17.58
17.36	17.48	17.46
17.28	17.4	17.4
17.22	17.4	17.3
17.18	17.36	17.3
17.16	17.34	17.28
17.16	17.3	17.24
17.16	17.3	17.22
17.16	17.3	17.24
17.16	17.3	17.24
17.18	17.34	17.28
17.18	17.4	17.28
17.22	17.4	17.3
17.22	17.42	17.3
17.24	17.46	17.36
17.28	17.48	17.4
17.3	17.48	17.4
17.34	17.52	17.46
17.4	17.58	17.48
17.4	17.6	17.48
17.46	17.66	17.52
17.48	17.66	17.54
17.48	17.7	17.54
17.52	17.7	17.54
17.52	17.74	17.54
17.54	17.7	17.58
17.54	17.7	17.54
17.54	17.66	17.52

17.52	17.64	17.48
17.52	17.6	17.48
17.48	17.58	17.42
17.48	17.54	17.4
17.48	17.48	17.36
17.42	17.46	17.3
17.4	17.4	17.28
17.36	17.36	17.24
17.34	17.3	17.22
17.3	17.3	17.22
17.3	17.28	17.16
17.3	17.24	17.12
17.3	17.22	17.08
17.3	17.22	17.06
17.3	17.18	17.06
17.28	17.12	17.02
17.28	17.12	17.02
17.28	17.08	17.02
17.28	17.06	17
17.28	17.02	16.96
17.28	17.02	16.94
17.28	17.02	16.94
17.28	17.02	16.94
17.28	17.02	16.94
17.28	17.02	16.9
17.3	17.02	16.88
17.3	17.02	16.88
17.3	17	16.84
17.3	17	16.84
17.3	16.96	16.84
17.34	17	16.84
17.34	17	16.84
17.4	17	16.84
17.4	16.96	16.84
17.42	16.96	16.84
17.42	16.96	16.84
17.46	16.96	16.84
17.48	17	16.84
17.48	17	16.84
17.48	16.96	16.84
17.52	17	16.84
17.54	17	16.84
17.54	17	16.84
17.58	17	16.84
17.58	17	16.84
17.6	17	16.84
17.64	17.02	16.84
17.66	17.02	16.84
17.66	17.02	16.84
17.7	17.02	16.88
17.74	17.02	16.88
17.76	17.02	16.88
17.76	17.02	16.9

17.76	17.02	16.9
17.8	17.02	16.9
17.8	17.02	16.9
17.82	17.02	16.94
17.82	17.02	16.94
17.86	17.02	16.94
17.86	17.02	16.94
17.88	17.02	16.96
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18.04	17.02	17.02
18.04	17.02	17.02
18.04	17.06	17.02
18.06	17.06	17.02
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18.1	17.06	17.02
18.1	17.08	17.02
18.12	17.08	17.02
18.12	17.08	17.06
18.12	17.12	17.06
18.12	17.08	17.08
18.16	17.12	17.12
18.16	17.12	17.12
18.18	17.12	17.12
18.22	17.12	17.16
18.22	17.12	17.16
18.22	17.12	17.16
18.24	17.12	17.18
18.24	17.16	17.18
18.24	17.12	17.18
18.28	17.16	17.18
18.28	17.16	17.22

CA004056 - NOPR - GOOD	CA004057 - NOPR - GOOD	CA004058 - NOPR - GOOD
17.48	18.62	16.88
17.48	18.58	16.88
17.48	18.56	16.88
17.48	18.52	16.9
16.06	17.02	15.32
13.24	13.88	12.42
11.2	11.6	11.14
9.98	10.28	9.56
8.86	9.18	8.7
8.42	8.46	8.2
7.94	8.08	7.82
7.7	7.76	7.56
7.56	7.6	7.42
7.48	7.44	7.3
7.42	7.36	7.26
7.36	7.3	7.24
7.36	7.26	7.24
7.32	7.24	7.26
7.26	7.2	7.26
7.24	7.18	7.26
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7.02	6.96	7.2
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6.98	6.92	7.18
6.98	6.9	7.18
6.96	6.9	7.18
6.92	6.9	7.14
6.92	6.9	7.12
6.9	6.86	7.08
6.9	6.86	7.08
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6.9	6.8	7.02
6.9	6.8	7.02
6.9	6.8	6.98
6.9	6.8	6.98
6.9	6.8	6.98
6.9	6.8	6.96
6.9	6.8	6.92
6.9	6.8	6.9
6.86	6.8	6.9

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[illegible]

[illegible]

6.8	6.78	6.8
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6.78	6.74	6.8
6.78	6.74	6.8
6.78	6.78	6.8
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6.78	6.78	6.8
6.8	6.78	6.8
6.78	6.74	6.8
6.78	6.78	6.8
6.8	6.74	6.8
6.86	6.74	6.98
6.98	6.74	7.62
7.12	6.8	8.08
7.3	6.98	8.7
7.6	7.14	9.42
8.08	7.36	10.32
8.48	7.56	11.94
9.22	8	14.22
9.88	8.6	17.12
10.92	9.36	21.48
12.18	10.66	25.64
13.18	12.58	32.66
14.46	14.06	38.52
15.78	17	43.22
16.94	19.38	48.12
18.28	22.56	51.88
19.32	25.66	54.16
20.48	28.2	55.82
21.58	31	56.4
22.1	33.3	56.16
22.74	34.92	55
22.98	36.5	53.9
23.08	37.04	51.64
22.98	37.44	49.86
22.76	37.3	47.42
22.36	36.8	45.02
21.88	35.88	43.02
21.36	34.98	40.62

20.7	33.56	38.42
20.14	32.1	36.62
19.4	30.82	34.54
18.58	29.2	32.98
18.12	27.4	31.18
17.36	26.36	29.3
16.76	24.66	28.2
16.2	23.74	26.42
15.68	22.18	25.08
15.22	21.02	23.96
14.74	20.08	22.76
14.32	19.04	21.88
13.94	18.12	20.84
13.58	17.4	19.92
13.22	16.64	19.2
12.94	16.06	18.38
12.58	15.38	17.64
12.4	14.7	17.06
12.06	14.34	16.32
11.82	13.8	15.96
11.6	13.46	15.32
11.42	13.06	14.86
11.24	12.7	14.46
11.04	12.42	14.06
10.86	12.12	13.76
10.72	11.88	13.4
10.52	11.66	13.06
10.34	11.42	12.82
10.26	11.26	12.52
10.1	11.04	12.24
10	10.8	12.06
9.88	10.68	11.78
9.76	10.5	11.66
9.68	10.34	11.42
9.56	10.22	11.24
9.5	10.08	11.08
9.4	9.98	10.92
9.3	9.86	10.78
9.24	9.74	10.62
9.16	9.64	10.5
9.06	9.52	10.38
9.04	9.46	10.26
8.98	9.36	10.1
8.92	9.28	10.04
8.86	9.22	9.92
8.76	9.12	9.82
8.72	9.06	9.74
8.7	8.98	9.64
8.64	8.92	9.56
8.58	8.86	9.5
8.54	8.82	9.42
8.48	8.72	9.34

8.46	8.7	9.28
8.42	8.64	9.24
8.4	8.58	9.16
8.36	8.54	9.06
8.34	8.52	9.04
8.28	8.46	8.98
8.28	8.42	8.92
8.24	8.36	8.88
8.18	8.36	8.82
8.18	8.3	8.78
8.14	8.28	8.72
8.12	8.24	8.66
8.08	8.18	8.64
8.08	8.18	8.6
8.06	8.14	8.54
8	8.12	8.54
8	8.08	8.48
7.96	8.06	8.46
7.96	8.02	8.42
7.94	8	8.4
7.9	7.96	8.36
7.9	7.94	8.36
7.88	7.9	8.3
7.88	7.9	8.28
7.84	7.9	8.24
7.84	7.88	8.2
7.82	7.84	8.18
7.82	7.82	8.14
7.78	7.82	8.12
7.78	7.82	8.08
7.76	7.82	8.08
7.72	7.78	8.08
7.72	7.76	8.06
7.7	7.72	8.06
7.7	7.72	8.02
7.66	7.7	8
7.66	7.66	8
7.62	7.62	7.96
7.62	7.62	7.94
7.62	7.62	7.9
7.6	7.62	7.9
7.6	7.62	7.9
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7.56	7.6	7.84
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7.44	7.48	7.72
7.44	7.44	7.7
7.44	7.44	7.7
7.44	7.44	7.66
7.42	7.44	7.62
7.38	7.42	7.62
7.38	7.38	7.62
7.38	7.38	7.62
7.36	7.36	7.62
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7.36	7.36	7.6
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7.26	7.2	7.38
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7.32	7.2	7.42
7.32	7.2	7.42
7.32	7.24	7.42
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7.78	7.62	7.82
7.78	7.62	7.82

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7.7	7.62	7.94
7.7	7.62	7.96
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7.62	7.9	8.36
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7.66	7.96	8.4
7.62	8	8.42
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7.66	8.02	8.46
7.66	8.02	8.46
7.66	8.06	8.46
7.7	8.06	8.48
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7.76	8.18	8.72
7.76	8.18	8.76
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7.78	8.24	8.82
7.78	8.28	8.86
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7.82	8.34	8.92
7.82	8.34	8.92
7.82	8.36	8.92
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7.82	8.4	8.94
7.82	8.4	8.98
7.82	8.4	8.98
7.82	8.42	8.98
7.84	8.42	9
7.84	8.46	9

7.88	8.46	9.04
7.88	8.48	9.04
7.88	8.52	9.06
7.88	8.54	9.06
7.88	8.54	9.1
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7.9	8.64	9.12
7.9	8.64	9.12
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7.94	8.66	9.16
7.96	8.66	9.22
8	8.7	9.24
8	8.72	9.24
8	8.72	9.28
8	8.76	9.28
8.02	8.78	9.28
8.02	8.82	9.3
8.06	8.82	9.3
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8.06	8.86	9.34
8.06	8.86	9.34
8.08	8.88	9.36
8.08	8.88	9.36
8.08	8.92	9.4
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8.14	8.98	9.42
8.14	8.98	9.42
8.14	9	9.5
8.18	9.04	9.5
8.18	9.06	9.52
8.18	9.06	9.52
8.2	9.1	9.56
8.24	9.12	9.56
8.24	9.12	9.58
8.28	9.16	9.58
8.28	9.16	9.62
8.3	9.18	9.62
8.3	9.24	9.64
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8.34	9.28	9.64
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8.4	9.36	9.68
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8.48	9.52	9.74
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8.64	9.86	9.88
8.64	9.86	9.88
8.6	9.86	9.88
8.54	9.86	9.86
8.54	9.86	9.86
8.52	9.82	9.86
8.46	9.82	9.82
8.46	9.82	9.82
8.42	9.8	9.8
8.4	9.8	9.8
8.36	9.8	9.8
8.34	9.76	9.76
8.3	9.74	9.74
8.28	9.7	9.7
8.24	9.7	9.7
8.18	9.7	9.7
8.18	9.7	9.7
8.18	9.68	9.68
8.14	9.68	9.68
8.12	9.64	9.64
8.08	9.62	9.62
8.08	9.62	9.62
8.08	9.62	9.62
8.06	9.62	9.62
8.02	9.58	9.56
8	9.58	9.56
7.96	9.56	9.52
7.94	9.52	9.5
7.9	9.5	9.46
7.9	9.46	9.42
7.9	9.42	9.42
7.9	9.42	9.42
7.88	9.4	9.4
7.84	9.36	9.4
7.82	9.34	9.36
7.82	9.34	9.34
7.82	9.3	9.34
7.82	9.28	9.34
7.82	9.24	9.3
7.78	9.22	9.28
7.76	9.16	9.24
7.72	9.12	9.24
7.72	9.06	9.18
7.7	9.04	9.18

7.66	9	9.16
7.62	8.98	9.16
7.62	8.94	9.12
7.62	8.92	9.06
7.62	8.88	9.06
7.62	8.82	9
7.62	8.78	8.98
7.6	8.72	8.98
7.56	8.7	8.94
7.54	8.66	8.92
7.54	8.6	8.88
7.54	8.54	8.86
7.54	8.52	8.82
7.54	8.46	8.78
7.54	8.46	8.76
7.54	8.4	8.72
7.5	8.34	8.7
7.5	8.3	8.66
7.48	8.28	8.64
7.48	8.2	8.64
7.44	8.18	8.6
7.44	8.14	8.54
7.42	8.12	8.52
7.42	8.08	8.48
7.42	8.06	8.46
7.38	8.02	8.42
7.36	8	8.4
7.36	8	8.36
7.36	7.94	8.34
7.36	7.9	8.28
7.36	7.9	8.24
7.36	7.9	8.2
7.36	7.9	8.18
7.36	7.88	8.14
7.36	7.88	8.12
7.36	7.84	8.08
7.32	7.82	8.08
7.32	7.82	8.06
7.3	7.82	8.02
7.3	7.82	8
7.3	7.82	8
7.26	7.82	7.96
7.26	7.78	7.94
7.26	7.76	7.9
7.26	7.76	7.9
7.26	7.72	7.9
7.26	7.72	7.9
7.24	7.72	7.88
7.24	7.72	7.88
7.2	7.7	7.88
7.2	7.7	7.84
7.2	7.7	7.82

7.2	7.66	7.82
7.18	7.66	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.82
7.18	7.62	7.78
7.18	7.62	7.78
7.18	7.62	7.78
7.18	7.62	7.76
7.18	7.6	7.76
7.18	7.6	7.76
7.18	7.6	7.72
7.18	7.6	7.72
7.18	7.6	7.72
7.18	7.6	7.76
7.18	7.56	7.72
7.18	7.56	7.72
7.18	7.56	7.72
7.14	7.54	7.72
7.14	7.54	7.72
7.18	7.54	7.72
7.14	7.54	7.72
7.14	7.54	7.7
7.14	7.54	7.7
7.14	7.54	7.66
7.14	7.54	7.66
7.14	7.54	7.66
7.14	7.54	7.66
7.12	7.54	7.66
7.12	7.54	7.66
7.12	7.54	7.66
7.12	7.54	7.66
7.12	7.54	7.62
7.08	7.54	7.66
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.54	7.62
7.08	7.5	7.62
7.08	7.54	7.62
7.08	7.5	7.62

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7.08	7.42	7.62
7.08	7.42	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.38	7.62
7.04	7.36	7.62
7.02	7.36	7.62
7.04	7.36	7.62
7.02	7.36	7.62
7.02	7.36	7.62
7.02	7.36	7.62
6.98	7.36	7.62
6.98	7.36	7.62
6.98	7.36	7.62
7.02	7.36	7.6
6.98	7.36	7.56
6.98	7.36	7.56
6.98	7.36	7.54
6.96	7.36	7.54
6.96	7.36	7.54
6.96	7.36	7.54
6.96	7.32	7.54
6.96	7.32	7.54
6.96	7.3	7.5
6.96	7.26	7.48
6.96	7.26	7.44
6.92	7.26	7.44
6.92	7.26	7.44
6.92	7.24	7.42
6.92	7.2	7.42
6.92	7.2	7.38
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.36
6.9	7.18	7.32
6.9	7.18	7.32
6.9	7.14	7.3
6.9	7.14	7.3

[illegible]

16.66	16.96	16.76
16.66	17	16.78
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	17	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.66	16.96	16.76
16.7	16.96	16.76
16.7	16.96	16.76
16.7	16.96	16.76
16.72	17	16.76
16.72	17	16.76
16.72	17	16.78
16.76	17	16.78
16.76	17	16.78
16.76	17.02	16.82
16.76	17.02	16.82
16.76	17.02	16.84
16.78	17.02	16.84
16.82	17.02	16.84
16.84	17.02	16.9
16.88	17.06	16.94
16.94	17.12	17
17	17.12	17.06
17.06	17.16	17.12
17.16	17.22	17.18
17.24	17.24	17.3
17.36	17.3	17.4
17.48	17.36	17.52
17.66	17.46	17.7
17.86	17.58	17.86
18.06	17.66	18.12
18.34	17.82	18.28
18.64	18	18.68
19.02	18.22	19.08
19.48	18.52	19.48
19.92	18.74	20.02
20.66	19.2	20.66
21.36	19.62	21.28
22	20.06	22.1
22.8	20.66	22.8

23.62	21.18	23.78
24.38	21.92	24.9
25.2	22.62	25.58
25.82	23.22	26.68
26.42	23.98	27.34
26.92	24.78	28.02
27.06	25.14	28.48
27.04	25.66	28.66
26.86	25.84	28.56
26.34	25.9	28.22
25.66	25.76	27.7
25	25.42	26.92
24.04	24.88	26.12
23.14	24.2	25.06
22.36	23.5	23.78
21.46	22.68	23.04
20.78	22	21.86
19.9	21.18	20.96
19.28	20.38	20.3
18.86	19.92	19.56
18.44	19.26	19.1
18.1	18.9	18.62
17.86	18.46	18.24
17.66	18.18	17.98
17.52	18	17.76
17.4	17.82	17.58
17.34	17.66	17.48
17.28	17.58	17.36
17.22	17.48	17.3
17.22	17.42	17.24
17.18	17.4	17.24
17.18	17.34	17.22
17.18	17.34	17.22
17.18	17.3	17.22
17.18	17.3	17.22
17.22	17.34	17.22
17.22	17.34	17.22
17.22	17.36	17.24
17.24	17.4	17.24
17.24	17.42	17.28
17.28	17.42	17.3
17.3	17.46	17.3
17.36	17.48	17.36
17.4	17.48	17.4
17.42	17.54	17.42
17.48	17.58	17.48
17.48	17.64	17.48
17.52	17.66	17.52
17.52	17.66	17.52
17.54	17.7	17.54
17.54	17.74	17.52
17.54	17.74	17.48

17.54	17.74	17.48
17.52	17.76	17.46
17.48	17.76	17.42
17.48	17.76	17.4
17.46	17.76	17.36
17.4	17.76	17.3
17.36	17.76	17.28
17.3	17.74	17.24
17.3	17.7	17.22
17.28	17.7	17.22
17.24	17.66	17.18
17.22	17.66	17.12
17.22	17.66	17.12
17.22	17.64	17.08
17.16	17.64	17.06
17.12	17.66	17.02
17.08	17.66	17.02
17.08	17.66	17.02
17.06	17.66	17
17.02	17.7	16.96
17.02	17.7	16.96
17.02	17.7	16.94
17.02	17.74	16.94
17.02	17.76	16.94
17.02	17.76	16.9
17.02	17.8	16.9
17	17.8	16.88
17	17.82	16.88
17	17.86	16.88
17	17.88	16.9
17	17.92	16.9
17	17.94	16.9
17	18	16.9
17	18.04	16.9
17	18.06	16.94
17	18.12	16.94
17	18.16	16.94
17	18.18	16.96
17	18.22	16.96
17.02	18.28	17
17	18.32	17
17	18.34	17
17.02	18.4	17.02
17.02	18.46	17.02
17.02	18.5	17.02
17.02	18.56	17.06
17.02	18.58	17.08
17.02	18.64	17.12
17.02	18.7	17.12
17.02	18.74	17.16
17.02	18.8	17.18
17.02	18.86	17.22

17.02	18.92	17.22
17.02	18.96	17.24
17.02	19.02	17.24
17.06	19.04	17.28
17.08	19.1	17.3
17.08	19.16	17.36
17.08	19.2	17.4
17.08	19.26	17.42
17.12	19.32	17.46
17.12	19.38	17.48
17.16	19.4	17.52
17.16	19.48	17.54
17.16	19.5	17.58
17.18	19.56	17.64
17.18	19.6	17.66
17.18	19.66	17.7
17.18	19.72	17.76
17.22	19.74	17.76
17.18	19.8	17.86
17.22	19.84	17.88
17.22	19.9	17.94
17.22	19.92	17.98
17.22	19.98	18
17.22	20.02	18.06
17.22	20.08	18.12
17.22	20.14	18.18
17.22	20.18	18.22
17.22	20.2	18.24
17.22	20.26	18.32
17.22	20.3	18.4
17.22	20.36	18.44
17.22	20.38	18.5
17.22	20.42	18.56
17.24	20.48	18.62
17.28	20.5	18.68
17.28	20.54	18.7
17.28	20.56	18.8

CA004059 - NOPR - GOOD	CA004060 - NOPR - GOOD	CA004061 - NOPR - GOOD
19.28	13.3	17.76
19.26	11.26	17.76
19.22	9.8	17.76
19.2	8.98	17.76
17.88	8.28	15.68
14.52	7.82	13.8
11.74	7.54	11.3
10.62	7.3	9.86
9.28	7.14	9.06
8.7	7.02	8.36
8.24	6.96	7.94
7.96	6.9	7.7
7.82	6.86	7.48
7.76	6.8	7.38
7.72	6.8	7.32
7.7	6.8	7.26
7.66	6.78	7.26
7.62	6.78	7.26
7.62	6.78	7.26
7.6	6.74	7.24
7.56	6.78	7.2
7.54	6.78	7.18
7.5	6.78	7.18
7.48	6.78	7.14
7.44	6.78	7.12
7.42	6.8	7.08
7.36	6.8	7.08
7.32	6.8	7.04
7.26	6.8	7.02
7.24	6.8	6.98
7.2	6.8	6.98
7.18	6.8	6.96
7.18	6.8	6.96
7.14	6.8	6.92
7.12	6.8	6.92
7.08	6.8	6.9
7.08	6.8	6.9
7.08	6.84	6.9
7.08	6.84	6.9
7.08	6.8	6.9
7.08	6.84	6.9
7.04	6.84	6.9
7.04	6.84	6.9
7.04	6.84	6.9
7.02	6.84	6.9
6.98	6.84	6.9
6.98	6.8	6.86
6.98	6.8	6.86
6.98	6.8	6.86
6.98	6.8	6.86
6.96	6.8	6.86

[illegible]

6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
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6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.86	6.84	6.8
6.9	6.84	6.8
6.86	6.84	6.8
6.86	6.84	6.8
6.86	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.86	6.84	6.8
6.86	6.84	6.8
6.9	6.84	6.8
6.9	6.84	6.8
6.86	6.8	6.8
6.86	6.84	6.8
6.86	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.84	6.8
6.84	6.8	6.8
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6.84	6.8	6.8
6.84	6.8	6.8
6.8	6.84	6.8
6.8	6.84	6.8
6.8	6.8	6.8
6.8	6.8	6.8

[illegible]

6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	6.8	6.8
6.8	7.18	6.8
6.8	7.54	6.8
6.8	8.36	6.8
6.8	9.34	6.8
6.8	10.66	6.8
6.8	13.04	6.8
6.98	16.38	6.9
7.42	20.82	7.08
7.82	27.22	7.32
8.36	33.56	7.62
9	42.3	8.06
10.22	52.12	8.58
12.24	57.38	9.58
14.58	64.98	10.9
18.34	68.84	12.42
22.12	71.72	14.78
27.96	72.82	17.6
33.9	72.44	21.28
38.82	70.68	25.2
44.22	68.08	28.72
49.2	65.22	32.98
51.26	61.46	36.92
53.52	58.26	39.92
54.14	54.14	42.88
53.86	49.66	44.84
52.8	47.18	46.44
51.3	43.1	47.46
49.1	39.98	47.6
46.7	37.5	47.3
44.44	34.88	46.38
41.78	32.9	45.54
39.62	30.7	43.74
37.08	28.78	42.26
34.36	27.32	40.28
32.84	25.7	38.26

30.46	24.26	36.56
28.94	23.16	34.52
27.2	21.82	32.6
25.64	21.08	30.98
24.42	19.92	29.18
23.08	19.02	27.74
21.92	18.32	26.1
21	17.54	24.32
19.92	17	23.16
19.16	16.32	21.86
18.28	15.78	20.88
17.34	15.32	19.74
16.84	14.8	18.7
16.06	14.28	17.94
15.48	14	17.06
14.98	13.54	16.3
14.5	13.34	15.72
14.06	12.9	15.1
13.64	12.6	14.62
13.24	12.36	14.06
12.9	12.08	13.54
12.58	11.84	13.24
12.24	11.66	12.78
12	11.42	12.46
11.68	11.3	12.18
11.5	11.08	11.88
11.24	10.9	11.66
11.02	10.8	11.42
10.86	10.58	11.2
10.66	10.46	11.02
10.52	10.34	10.84
10.34	10.2	10.62
10.2	10.1	10.46
10.08	9.98	10.32
9.92	9.88	10.2
9.8	9.8	10.04
9.7	9.68	9.92
9.58	9.62	9.82
9.52	9.52	9.7
9.4	9.42	9.62
9.3	9.34	9.52
9.22	9.24	9.42
9.16	9.16	9.34
9.06	9.12	9.28
8.98	9.06	9.16
8.92	9.04	9.12
8.86	8.94	9.04
8.82	8.88	8.98
8.72	8.82	8.92
8.7	8.78	8.86
8.64	8.72	8.82
8.58	8.7	8.76

8.54	8.64	8.7
8.48	8.6	8.66
8.46	8.54	8.6
8.42	8.52	8.54
8.36	8.48	8.52
8.36	8.46	8.46
8.28	8.42	8.46
8.28	8.36	8.4
8.2	8.36	8.36
8.18	8.3	8.3
8.18	8.28	8.28
8.14	8.24	8.24
8.12	8.2	8.2
8.08	8.18	8.18
8.08	8.18	8.14
8.02	8.14	8.12
8	8.12	8.08
7.96	8.08	8.08
7.94	8.06	8.06
7.9	8.02	8.02
7.9	8	8
7.88	8	7.96
7.84	7.96	7.94
7.84	7.96	7.9
7.82	7.94	7.9
7.82	7.9	7.9
7.82	7.9	7.88
7.78	7.88	7.84
7.76	7.88	7.82
7.72	7.84	7.82
7.7	7.84	7.82
7.66	7.82	7.82
7.66	7.82	7.82
7.62	7.78	7.78
7.62	7.76	7.72
7.62	7.72	7.72
7.62	7.72	7.7
7.62	7.7	7.66
7.56	7.7	7.62
7.56	7.7	7.62
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7.42	7.62	7.26
7.38	7.6	7.24
7.36	7.56	7.2
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7.08	7.18	7.02
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7.08	8.54	6.98
7.08	11.1	7.02
7.08	12.94	6.98
7.08	13.98	6.98
7.08	14.98	6.98
7.08	15.42	6.98
7.5	15.84	9.34
10.2	16.14	11.68
12.58	16.32	13.06
13.52	16.48	14.22
14.68	16.54	14.92
15.16	16.6	15.5
15.74	16.66	15.9
16.06	16.66	16.12
16.24	16.7	16.32
16.42	16.72	16.48
16.54	16.76	16.54
16.58	16.76	16.6
16.66	16.76	16.66
16.66	16.76	16.66
16.72	16.76	16.7
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16.76	16.84	16.72
16.78	16.84	16.72
16.78	16.84	16.76
16.78	16.84	16.76
16.82	16.88	16.76
16.82	16.9	16.76
16.82	16.94	16.76
16.84	16.96	16.76
16.84	17	16.76
16.84	17.02	16.76
16.84	17.08	16.78
16.84	17.16	16.78
16.84	17.22	16.82
16.84	17.3	16.84
16.9	17.36	16.84
16.94	17.48	16.94
16.96	17.64	16.96
17.02	17.76	17.02
17.08	17.94	17.12
17.16	18.18	17.22
17.22	18.4	17.3
17.3	18.7	17.48
17.4	18.98	17.58
17.48	19.38	17.8
17.66	19.84	18
17.82	20.3	18.24
18	21.02	18.56
18.24	21.6	18.86
18.46	22.4	19.34
18.8	23.22	19.86
19.28	23.98	20.42
19.6	24.96	21.18
20.24	25.88	22.18
20.84	26.64	22.82
21.42	27.46	24.14
22.18	28.02	24.88
22.82	28.54	26.4

23.74	28.8	27.68
24.6	28.78	28.72
25.32	28.48	29.84
26.24	27.92	30.82
26.76	27.22	31.38
27.32	26.3	31.82
27.58	25.46	31.82
27.64	24.32	31.44
27.46	23.22	30.74
27.06	22.4	29.9
26.52	21.42	28.66
25.72	20.6	27.58
25	19.96	26.12
23.98	19.22	24.74
22.86	18.9	23.62
22.18	18.4	22.4
21.18	18.06	21.18
20.38	17.86	20.56
19.8	17.66	19.66
19.2	17.52	19.22
18.8	17.42	18.62
18.4	17.34	18.22
18.06	17.3	17.98
17.86	17.24	17.74
17.64	17.22	17.58
17.48	17.22	17.46
17.42	17.22	17.36
17.34	17.22	17.3
17.3	17.22	17.28
17.24	17.22	17.22
17.22	17.22	17.22
17.22	17.22	17.22
17.22	17.22	17.22
17.22	17.24	17.22
17.22	17.28	17.22
17.22	17.3	17.22
17.22	17.36	17.24
17.24	17.4	17.3
17.28	17.42	17.3
17.28	17.46	17.36
17.3	17.48	17.4
17.36	17.48	17.42
17.4	17.52	17.48
17.42	17.54	17.48
17.48	17.54	17.52
17.48	17.54	17.54
17.54	17.54	17.58
17.58	17.52	17.58
17.6	17.48	17.58
17.66	17.48	17.54
17.66	17.42	17.54
17.7	17.4	17.52

17.7	17.36	17.48
17.66	17.3	17.46
17.66	17.3	17.4
17.66	17.28	17.4
17.64	17.24	17.36
17.6	17.22	17.3
17.58	17.22	17.28
17.58	17.18	17.24
17.58	17.16	17.24
17.58	17.12	17.22
17.58	17.12	17.22
17.58	17.06	17.22
17.54	17.06	17.18
17.54	17.02	17.16
17.54	17.02	17.12
17.54	17.02	17.12
17.54	17.02	17.12
17.54	17.02	17.08
17.54	17.02	17.06
17.54	17.02	17.06
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17.58	17.02	17.06
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17.58	17.02	17.02
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17.74	17.02	17.02
17.76	17.06	17.06
17.76	17.06	17.06
17.8	17.08	17.08
17.8	17.08	17.12
17.82	17.12	17.12
17.86	17.12	17.12
17.92	17.16	17.12
17.94	17.16	17.16
17.94	17.16	17.16
17.98	17.18	17.16
18.04	17.18	17.18
18.04	17.18	17.18
18.06	17.22	17.18
18.1	17.22	17.22
18.12	17.22	17.22
18.18	17.22	17.22
18.22	17.24	17.22
18.22	17.24	17.22
18.24	17.28	17.24
18.32	17.28	17.24
18.32	17.3	17.28
18.34	17.3	17.28
18.38	17.3	17.3

18.4	17.3	17.3
18.44	17.34	17.3
18.46	17.36	17.3
18.5	17.4	17.3
18.52	17.42	17.34
18.56	17.46	17.34
18.56	17.48	17.36
18.62	17.48	17.4
18.64	17.48	17.4
18.64	17.52	17.42
18.7	17.54	17.42
18.7	17.58	17.46
18.74	17.58	17.46
18.76	17.58	17.46
18.76	17.58	17.48
18.8	17.58	17.48
18.82	17.6	17.48
18.82	17.64	17.52
18.86	17.64	17.52
18.9	17.66	17.54
18.92	17.66	17.54
18.92	17.74	17.54
18.96	17.74	17.54
18.98	17.76	17.58
18.98	17.76	17.58
19.02	17.76	17.58
19.02	17.76	17.58
19.02	17.8	17.6
19.04	17.82	17.6
19.04	17.86	17.6
19.08	17.86	17.64
19.08	17.86	17.66
19.08	17.86	17.66
19.1	17.86	17.7
19.1	17.88	17.7
19.1	17.92	17.74
19.1	17.94	17.74

CA004062 - NOPR - GOOD	CA004063 - NOPR - GOOD	CA004064 - NOPR - GOOD
17.48	19.2	18.46
17.46	19.2	18.4
17.46	19.16	18.4
17.42	19.1	18.38
16.06	17.3	16.48
12.88	14.58	13.54
11.2	12.12	11.68
9.8	10.4	10.1
8.88	9.42	8.92
8.36	8.46	8.46
7.94	8.08	7.88
7.66	7.62	7.62
7.5	7.36	7.36
7.36	7.26	7.24
7.26	7.18	7.14
7.2	7.08	7.08
7.18	7.04	7.02
7.14	7.02	6.98
7.12	7.02	6.98
7.08	6.98	6.96
7.08	6.98	6.92
7.08	6.98	6.92
7.08	6.98	6.9
7.04	6.96	6.9
7.02	6.92	6.9
6.98	6.92	6.86
6.96	6.9	6.86
6.92	6.9	6.86
6.92	6.86	6.84
6.9	6.86	6.84
6.9	6.84	6.84
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6.86	6.8	6.8
6.84	6.8	6.8
6.86	6.8	6.8
6.84	6.8	6.8
6.86	6.8	6.8
6.86	6.8	6.8
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6.8	6.8	6.78
6.8	6.8	6.74
6.8	6.84	6.74
6.8	6.92	6.78
6.92	7.08	6.78
7.18	7.24	6.78
7.48	7.5	6.9
7.72	7.9	7.04
8.28	8.36	7.26
8.7	9.16	7.48
9.7	10.44	7.84
11.32	11.5	8.4
13	13.58	9.12
15.56	14.92	10.4
18.5	17.8	12.12
21.42	20.3	14.5
24.82	22.46	17.06
27.5	24.88	19.28
30.46	26.98	21.82
33.18	28.48	23.86
34.3	30.1	25.18
35.62	30.7	26.22
36.04	31.34	26.64
35.98	31.5	26.58
35.52	31.34	26.06
34.86	30.88	25.52
33.76	30.36	24.32
32.54	29.52	23.16
31.34	28.6	22.1
29.94	27.78	20.88
28.74	26.68	19.86
27.32	25.42	18.68

25.72	24.68	17.64
24.84	23.44	16.78
23.34	22.76	15.86
22.24	21.6	15.04
21.28	20.66	14.4
20.24	19.86	13.68
19.4	19.02	13.24
18.46	18.22	12.64
17.64	17.54	12.18
16.96	16.84	11.82
16.2	16.3	11.44
15.56	15.66	11.16
15.02	14.98	10.84
14.34	14.58	10.56
14	14.04	10.34
13.42	13.68	10.1
13	13.24	9.86
12.66	12.84	9.7
12.3	12.52	9.52
12.02	12.18	9.4
11.68	11.88	9.22
11.42	11.6	9.06
11.2	11.36	8.98
10.96	11.14	8.86
10.72	10.9	8.72
10.56	10.66	8.66
10.34	10.52	8.58
10.22	10.32	8.52
10.04	10.14	8.42
9.88	9.98	8.34
9.76	9.86	8.28
9.62	9.74	8.18
9.52	9.62	8.14
9.4	9.5	8.08
9.28	9.4	8
9.18	9.28	8
9.1	9.18	7.9
9	9.1	7.88
8.98	9	7.84
8.88	8.94	7.78
8.82	8.88	7.76
8.72	8.78	7.72
8.66	8.72	7.7
8.64	8.64	7.62
8.54	8.64	7.62
8.48	8.54	7.56
8.46	8.48	7.56
8.4	8.46	7.54
8.36	8.4	7.54
8.28	8.36	7.5
8.24	8.34	7.48
8.2	8.28	7.44

8.18	8.24	7.44
8.12	8.18	7.38
8.08	8.18	7.38
8.06	8.12	7.36
8	8.08	7.36
7.96	8.06	7.36
7.94	8.02	7.32
7.9	8	7.3
7.9	8	7.26
7.88	7.96	7.26
7.84	7.94	7.26
7.82	7.9	7.24
7.82	7.88	7.2
7.82	7.84	7.2
7.76	7.82	7.18
7.72	7.82	7.18
7.72	7.82	7.18
7.7	7.78	7.18
7.66	7.76	7.18
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7.54	7.6	7.08
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7.48	7.54	7.08
7.44	7.54	7.04
7.44	7.5	7.04
7.42	7.48	7.04
7.42	7.48	7.04
7.38	7.44	7.02
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7.32	7.42	6.96
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7.26	7.36	6.96

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7.96	8.6	7.44
7.96	8.6	7.44
8	8.6	7.44
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8.18	8.76	7.6
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8.18	8.02	8
8.14	8	8
8.08	7.96	7.96
8.06	7.94	7.94
8.02	7.9	7.9
8	7.88	7.9
7.94	7.84	7.9
7.94	7.82	7.88
7.9	7.78	7.84
7.88	7.76	7.82
7.84	7.72	7.82
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7.78	7.66	7.76
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16.7	16.66	16.96
16.66	16.66	16.96
16.66	16.66	16.94
16.66	16.66	16.96
16.7	16.66	16.96
16.66	16.66	16.94
16.7	16.66	16.94
16.66	16.66	16.94
16.7	16.66	16.94
16.72	16.66	16.94
16.72	16.66	16.94
16.72	16.66	16.94
16.72	16.7	16.94
16.72	16.72	16.94
16.76	16.72	16.94
16.76	16.72	16.94
16.76	16.76	16.96
16.76	16.76	16.96
16.78	16.82	16.96
16.78	16.84	16.96
16.82	16.94	17
16.84	17	17.02
16.9	17.02	17.02
16.94	17.12	17.08
17.02	17.22	17.08
17.08	17.34	17.16
17.16	17.48	17.22
17.28	17.7	17.24
17.4	17.86	17.3
17.52	18.12	17.42
17.66	18.34	17.52
17.86	18.68	17.66
18.1	19.08	17.8
18.38	19.48	18
18.62	20.02	18.22
19.02	20.6	18.46
19.5	21.2	18.8
19.96	22.04	19.16
20.6	22.74	19.56
21.42	23.74	20.2
22.16	24.96	20.56
23.02	25.72	21.4
23.84	27.06	22.18

24.88	28.1	22.88
25.9	28.96	23.78
26.76	29.76	24.5
27.68	30.28	25.42
28.44	30.58	26.36
28.86	30.58	26.86
29.2	30.36	27.5
29.24	29.66	27.78
28.9	28.94	27.8
28.36	27.8	27.62
27.62	26.58	27.28
26.62	25.52	26.58
25.72	24.2	25.76
24.5	22.98	24.96
23.38	22.04	23.96
22.46	21.06	22.94
21.46	20.36	22.12
20.44	19.6	21.08
19.92	18.92	20.56
19.2	18.62	19.74
18.82	18.16	19.2
18.34	17.88	18.8
18	17.7	18.4
17.8	17.52	18.16
17.6	17.4	17.94
17.46	17.3	17.76
17.36	17.24	17.6
17.3	17.22	17.52
17.22	17.18	17.42
17.18	17.16	17.4
17.16	17.16	17.36
17.12	17.16	17.34
17.16	17.18	17.3
17.16	17.18	17.3
17.18	17.22	17.3
17.18	17.24	17.3
17.18	17.3	17.34
17.22	17.34	17.34
17.24	17.4	17.4
17.3	17.42	17.4
17.34	17.46	17.42
17.4	17.52	17.46
17.4	17.58	17.48
17.46	17.58	17.48
17.48	17.64	17.54
17.48	17.66	17.58
17.52	17.66	17.64
17.52	17.66	17.66
17.54	17.66	17.66
17.54	17.66	17.7
17.52	17.66	17.7
17.48	17.66	17.74

17.48	17.64	17.74
17.48	17.6	17.7
17.42	17.58	17.7
17.4	17.54	17.66
17.36	17.52	17.66
17.3	17.48	17.64
17.28	17.48	17.6
17.24	17.46	17.58
17.22	17.46	17.58
17.22	17.42	17.58
17.18	17.42	17.58
17.16	17.42	17.58
17.12	17.42	17.58
17.08	17.42	17.58
17.06	17.42	17.58
17.06	17.42	17.58
17.02	17.42	17.58
17.02	17.46	17.58
17.02	17.46	17.58
17.02	17.48	17.58
17.02	17.48	17.6
17	17.52	17.64
16.96	17.54	17.66
16.96	17.58	17.66
16.96	17.58	17.7
16.94	17.58	17.7
16.94	17.6	17.74
16.96	17.64	17.76
16.96	17.66	17.76
16.96	17.66	17.8
16.96	17.7	17.82
16.96	17.76	17.86
16.96	17.76	17.88
16.96	17.8	17.94
17	17.86	17.98
16.96	17.86	18
16.96	17.88	18.04
17	17.92	18.04
17	17.94	18.1
17	17.94	18.12
17.02	18	18.18
17.02	18.04	18.22
17.02	18.06	18.24
17.02	18.1	18.28
17.02	18.12	18.32
17.02	18.16	18.34
17.02	18.18	18.4
17.02	18.22	18.44
17.02	18.22	18.46
17.02	18.28	18.52
17.02	18.32	18.56
17.02	18.34	18.62

17.06	18.38	18.64
17.06	18.4	18.7
17.06	18.4	18.74
17.08	18.46	18.76
17.08	18.5	18.82
17.12	18.52	18.9
17.12	18.56	18.92
17.12	18.58	18.92
17.12	18.62	18.98
17.16	18.64	19.02
17.16	18.64	19.08
17.16	18.68	19.1
17.18	18.68	19.16
17.18	18.7	19.2
17.18	18.74	19.22
17.18	18.74	19.28
17.22	18.76	19.28
17.22	18.8	19.34
17.22	18.82	19.38
17.22	18.82	19.44
17.22	18.86	19.48
17.22	18.86	19.48
17.22	18.9	19.54
17.22	18.92	19.56
17.22	18.92	19.56
17.24	18.92	19.62
17.24	18.96	19.66
17.28	18.96	19.72
17.28	18.98	19.74
17.28	18.98	19.74
17.28	18.98	19.78
17.28	18.98	19.84
17.3	19.02	19.84
17.3	19.02	19.84
17.3	19.02	19.86
17.3	19.04	19.92
17.3	19.04	19.96

CA004065 - NOPR - GOOD	CA004066 - NOPR - GOOD	CA004067 - NOPR - GOOD
19.66	18.74	17.86
19.6	18.74	17.86
19.56	18.74	17.86
19.54	18.68	17.86
17.8	16.72	16.38
14.44	13.7	13.48
12.02	11.82	11.36
10.58	10.2	10.1
9.42	9.18	8.98
8.78	8.66	8.58
8.28	8.28	8.18
7.96	8.06	8.06
7.78	7.96	8
7.66	7.88	8.02
7.62	7.84	8.02
7.6	7.82	8.06
7.54	7.82	8.06
7.5	7.82	8.06
7.44	7.82	8.06
7.42	7.82	8.02
7.36	7.82	8
7.32	7.76	7.94
7.26	7.72	7.9
7.24	7.7	7.84
7.18	7.62	7.78
7.18	7.62	7.72
7.12	7.54	7.66
7.12	7.5	7.6
7.08	7.44	7.54
7.04	7.38	7.44
7.02	7.36	7.42
6.98	7.26	7.36
6.98	7.24	7.32
6.96	7.2	7.26
6.92	7.18	7.26
6.9	7.14	7.24
6.9	7.12	7.2
6.9	7.08	7.18
6.9	7.08	7.14
6.9	7.08	7.14
6.9	7.04	7.12
6.9	7.04	7.08
6.9	7.04	7.12
6.9	7.04	7.08
6.9	7.02	7.08
6.9	7.02	7.08
6.9	7.02	7.08
6.9	7.02	7.08
6.86	7.02	7.08
6.86	7.02	7.08
6.86	7.02	7.08

6.86	7.02	7.08
6.86	7.02	7.08
6.86	7.02	7.08
6.86	7.02	7.08
6.84	7.02	7.08
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6.84	7.02	7.08
6.84	7.02	7.08
6.84	7.02	7.08
6.84	7.02	7.08
6.84	7.02	7.08
6.84	7.02	7.08
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6.84	7.02	7.08
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6.84	7.02	7.08
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6.84	7.02	7.08
6.8	7.02	7.08
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6.84	7.02	7.08
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6.84	7.02	7.08
6.84	7.02	7.08
6.8	7.04	7.08
6.8	7.04	7.08
6.8	7.04	7.08
6.8	7.04	7.04
6.8	7.04	7.04
6.8	7.04	7.08
6.8	7.04	7.08
6.8	7.04	7.04
6.8	7.04	7.04
6.8	7.04	7.04
6.8	7.04	7.04

[illegible]

[illegible]

6.8	6.86	6.8
6.8	6.86	6.84
6.8	6.84	6.8
6.8	6.84	6.84
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6.8	6.86	7.08
6.9	7.3	7.54
7.02	7.94	8.46
7.14	8.54	9.16
7.36	9.42	10.44
7.72	10.4	12.2
8.18	12.42	14.5
9.04	15.86	18.58
10.56	18.8	24.02
11.94	25.66	30.3
14.9	32.74	40.4
16.84	39.76	46.48
21.08	47.92	57.86
24.72	54.16	66.52
27.78	60.82	71.74
31.18	65.88	79.34
34.12	68.9	83.92
36.22	71.1	86
38.14	72.02	87.74
39.34	71.68	88.1
40.22	70.32	87.18
40.58	69.1	85.06
40.5	66.38	83.34
40.04	63.78	79.84
39.42	61.38	76.62
38.4	58.44	73.64
37.18	56.06	70.16
36.08	53.08	67.26
34.58	50.2	63.72
33.12	47.88	60.42
31.82	45.1	57.68

30.06	42.14	54.44
29.12	40.44	51.48
27.4	37.68	49.02
26.04	36.26	46.2
24.96	33.82	44.04
23.72	31.92	41.54
22.58	30.4	38.88
21.7	28.72	37.08
20.7	27.22	35.06
19.92	25.98	33.54
19.02	24.66	31.76
18.1	23.62	30.22
17.58	22.52	28.96
16.78	21.34	27.58
16.26	20.7	26.12
15.68	19.66	25.32
15.14	19.02	24.04
14.74	18.24	23.38
14.28	17.58	22.24
13.86	17.06	21.46
13.54	16.48	20.78
13.18	15.96	20.06
12.9	15.54	19.38
12.6	15.08	18.82
12.26	14.74	18.24
12.06	14.32	17.8
11.78	13.88	17.28
11.56	13.7	16.76
11.38	13.34	16.44
11.16	13.06	15.96
11.02	12.82	15.62
10.84	12.54	15.26
10.66	12.36	14.92
10.52	12.14	14.64
10.38	11.94	14.32
10.26	11.74	14.04
10.14	11.56	13.86
9.98	11.42	13.58
9.88	11.26	13.4
9.8	11.08	13.16
9.64	10.98	12.96
9.58	10.84	12.78
9.5	10.72	12.6
9.42	10.58	12.4
9.34	10.46	12.24
9.24	10.38	12.06
9.18	10.26	11.94
9.1	10.16	11.78
9.04	10.08	11.66
8.98	9.98	11.54
8.94	9.88	11.42
8.88	9.82	11.3

8.82	9.74	11.16
8.76	9.68	11.08
8.72	9.62	10.98
8.66	9.52	10.86
8.64	9.46	10.78
8.58	9.4	10.72
8.54	9.34	10.62
8.52	9.24	10.52
8.46	9.22	10.44
8.4	9.16	10.34
8.36	9.1	10.28
8.36	9.04	10.2
8.3	9	10.14
8.28	8.98	10.08
8.24	8.92	9.98
8.2	8.92	9.94
8.18	8.86	9.86
8.14	8.82	9.8
8.12	8.76	9.76
8.08	8.72	9.7
8.08	8.7	9.62
8.06	8.64	9.58
8	8.64	9.52
8	8.6	9.5
7.96	8.54	9.42
7.94	8.52	9.4
7.9	8.48	9.34
7.9	8.46	9.3
7.88	8.42	9.24
7.84	8.4	9.22
7.84	8.36	9.18
7.82	8.36	9.16
7.82	8.34	9.1
7.82	8.3	9.06
7.78	8.28	9.04
7.78	8.2	9
7.76	8.2	8.98
7.72	8.18	8.94
7.72	8.18	8.92
7.7	8.14	8.92
7.66	8.12	8.88
7.62	8.12	8.82
7.62	8.08	8.78
7.62	8.08	8.76
7.62	8.08	8.72
7.62	8.06	8.7
7.62	8.02	8.66
7.6	8	8.66
7.6	8	8.64
7.56	7.96	8.64
7.54	7.94	8.6
7.54	7.9	8.58

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7.54	7.9	8.52
7.54	7.9	8.48
7.54	7.9	8.46
7.54	7.88	8.46
7.5	7.88	8.46
7.5	7.84	8.42
7.5	7.82	8.4
7.48	7.82	8.36
7.48	7.82	8.36
7.44	7.82	8.36
7.44	7.82	8.34
7.44	7.82	8.3
7.44	7.78	8.3
7.42	7.76	8.28
7.38	7.76	8.28
7.38	7.72	8.24
7.36	7.72	8.2
7.36	7.7	8.18
7.36	7.7	8.18
7.36	7.66	8.18
7.36	7.66	8.18
7.36	7.62	8.18
7.36	7.62	8.14
7.36	7.62	8.14
7.36	7.62	8.12
7.36	7.62	8.08
7.36	7.62	8.08
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7.32	7.62	8.08
7.32	7.6	8.06
7.3	7.6	8.06
7.26	7.56	8.02
7.26	7.54	8.02
7.26	7.54	8
7.26	7.54	8
7.26	7.54	7.96
7.26	7.54	7.94
7.26	7.54	7.9
7.26	7.54	7.9
7.24	7.54	7.9
7.24	7.54	7.9
7.24	7.5	7.9
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7.2	7.5	7.9
7.2	7.48	7.88
7.2	7.48	7.88
7.18	7.48	7.88
7.18	7.48	7.84
7.18	7.48	7.82

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7.18	7.44	7.82
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7.08	7.3	7.6
7.08	7.3	7.62
7.08	7.3	7.62
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7.08	7.32	7.62

7.12	7.32	7.62
7.12	7.32	7.62
7.12	7.36	7.62
7.12	7.36	7.62
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7.18	7.36	7.78
7.18	7.38	7.78
7.18	7.36	7.78
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7.18	7.42	7.82
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7.18	7.44	7.82
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7.18	7.54	7.96
7.2	7.54	7.96
7.2	7.54	8
7.2	7.54	8
7.2	7.54	8.02
7.2	7.56	8.02
7.24	7.56	8.06
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8.86	9.12	11.2
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8.88	9.12	11.26
8.92	9.16	11.26
8.92	9.16	11.26
8.94	9.18	11.3
8.98	9.18	11.36
8.98	9.24	11.36
9.04	9.24	11.36
9.06	9.24	11.36
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9.1	9.28	11.36
9.1	9.3	11.38
9.12	9.3	11.38
9.16	9.3	11.38
9.16	9.34	11.42
9.22	9.34	11.42
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9.86	9.76	11.6
9.88	9.8	11.6
9.88	9.8	11.56
9.88	9.8	11.6
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9.98	9.86	11.56
9.98	9.88	11.56
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10.14	9.94	11.56
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10.16	9.92	11.38
10.14	9.92	11.38
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10.08	9.88	11.36
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10.04	9.86	11.3
10	9.86	11.26
9.98	9.86	11.26
9.98	9.82	11.2
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9.86	9.7	11.1
9.86	9.7	11.08
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9.82	9.7	11.04
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9.74	9.62	10.92
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9.64	9.56	10.78
9.62	9.52	10.74

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9.58	9.46	10.68
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9.36	9.36	10.56
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9	9.18	10.34
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8.86	9.12	10.26
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8.7	9	10.14
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8.64	8.94	10.08
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8	8.08	8.72
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7.18	7.3	7.72
8.92	8.08	9.92
11.04	10.84	12.08
13.12	12.72	13.36
14.28	13.86	14.44
14.96	14.78	15.26
15.56	15.42	15.6
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16.18	16.08	16.2
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16.96	16.94	16.94
17.02	17	16.96
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17.16	17.12	17.08
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17.42	17.34	17.42
17.54	17.42	17.58
17.74	17.58	17.7
17.94	17.74	17.94
18.12	17.88	18.18
18.4	18.12	18.4
18.74	18.34	18.74
19.04	18.68	19.2
19.48	19.1	19.56
19.9	19.4	20.2
20.5	20.02	20.56
21.28	20.54	21.46
21.94	21.24	22.18
22.8	22	22.94
23.68	22.74	23.86
24.54	23.62	24.82
25.54	24.68	25.66
26.36	25.36	26.62

27.34	26.4	27.34
28.28	26.92	28.2
28.68	27.68	28.74
29.18	28.08	28.94
29.3	28.2	29.02
29.12	28.08	28.84
28.68	27.74	28.36
28.1	27.2	27.64
27.2	26.36	26.86
26.12	25.58	25.78
25.14	24.54	24.5
23.98	23.32	23.74
23.08	22.62	22.68
22	21.52	21.82
20.94	20.78	20.76
20.38	20.02	19.98
19.56	19.38	19.44
19.02	18.92	18.86
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18.24	18.16	18.12
18.04	17.94	17.86
17.8	17.74	17.66
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17.52	17.48	17.4
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17.82	17.7	17.6
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17.76	17.66	17.58
17.76	17.64	17.54

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17.66	17.48	17.42
17.66	17.48	17.4
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17.64	17.3	17.22
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18.04	17.48	17.18
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18.68	17.8	17.36
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18.92	17.92	17.46
18.96	17.94	17.48
18.98	17.94	17.48

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19.08	18	17.58
19.14	18.04	17.58
19.2	18.04	17.6
19.22	18.06	17.64
19.26	18.1	17.66
19.28	18.12	17.66
19.34	18.16	17.7
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19.44	18.22	17.76
19.48	18.22	17.76
19.54	18.24	17.82
19.56	18.28	17.86
19.62	18.32	17.88
19.66	18.32	17.92
19.68	18.34	17.94
19.74	18.34	17.94
19.78	18.38	17.98
19.8	18.4	18
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19.86	18.44	18.06
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20.12	18.56	18.24
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14.28	11.08	11.08
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19.78	13.58	15.08
23.26	15.14	17.94
26.48	16.94	20.9
30.28	18.06	25.14
33.18	20.02	27.64
36.46	21.08	31.92
39.48	22.98	35.06
40.84	24.36	37.36
42.44	25.4	39.52
43.12	26.36	40.86
43.18	27.06	41.8
42.82	27.44	42.24
42.18	27.62	42.14
41.04	27.58	41.5
39.7	27.34	40.58
38.42	26.86	39.52
36.72	26.46	38.12
35.04	25.66	36.86

33.54	25.08	35.18
31.56	24.3	33.54
30.12	23.5	32.14
28.44	22.8	30.48
26.88	22	28.96
25.6	21.2	27.68
24.16	20.56	26
23.08	19.84	25.14
21.82	19.26	23.66
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17.82	16.82	19.9
17.28	16.3	19.02
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15.28	15.1	16.96
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13.88	14	15.28
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13.18	13.4	14.44
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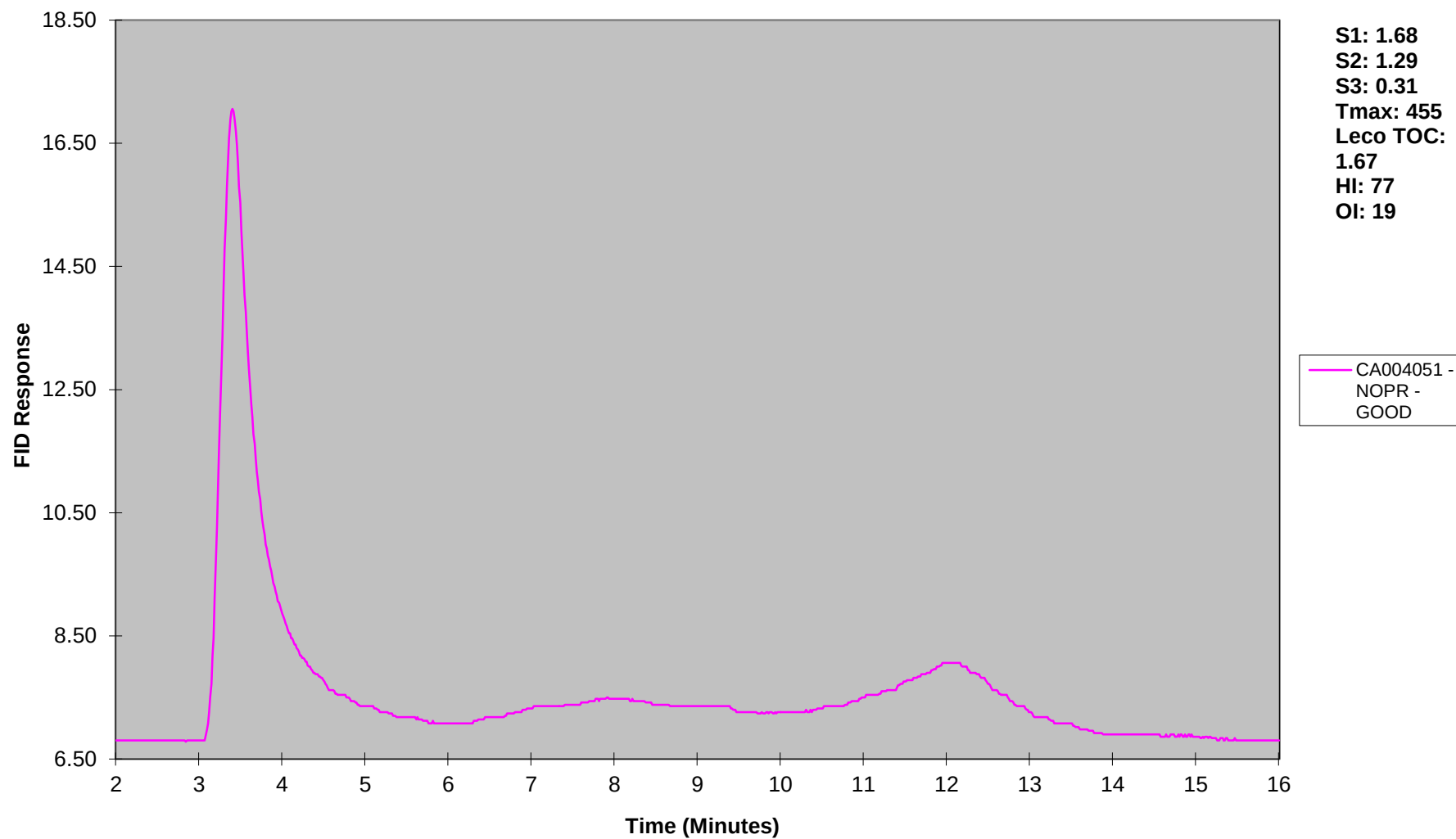
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16.78	16.76	16.72
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16.84	16.76	16.76
16.88	16.82	16.78
16.94	16.84	16.84
17	16.9	16.84
17.06	16.94	16.94
17.12	17.02	16.96
17.22	17.06	17.02
17.3	17.16	17.08
17.42	17.24	17.18
17.52	17.36	17.28
17.7	17.48	17.4
17.94	17.66	17.52
18.1	17.82	17.7
18.4	18.04	17.86
18.74	18.24	18.12
19.08	18.56	18.4
19.54	18.86	18.64
19.98	19.2	19.08
20.62	19.66	19.5
21.3	20.2	19.96
22	20.84	20.56
23.02	21.48	21.12
23.8	22.1	21.92
24.9	22.92	22.88
25.98	23.74	23.5

26.86	24.48	24.6
27.9	25.32	25.54
28.78	25.94	26.3
29.38	26.64	27.14
29.88	27.22	27.68
30.1	27.4	28.16
30	27.5	28.38
29.52	27.32	28.36
29.06	26.94	27.98
27.96	26.34	27.52
26.88	25.66	26.7
25.84	24.74	25.76
24.6	23.78	24.9
23.6	22.98	23.8
22.46	22.04	22.76
21.46	21.18	21.94
20.7	20.38	21
19.92	19.72	20.36
19.28	19.22	19.66
18.82	18.74	18.96
18.34	18.38	18.64
18.12	18.12	18.22
17.82	17.88	17.92
17.64	17.76	17.74
17.52	17.58	17.54
17.4	17.48	17.48
17.34	17.4	17.34
17.3	17.34	17.28
17.24	17.3	17.22
17.22	17.28	17.18
17.22	17.24	17.18
17.22	17.24	17.18
17.22	17.28	17.18
17.22	17.3	17.18
17.24	17.3	17.22
17.3	17.34	17.22
17.34	17.36	17.24
17.36	17.4	17.3
17.4	17.4	17.3
17.42	17.46	17.36
17.46	17.52	17.4
17.48	17.58	17.42
17.52	17.58	17.48
17.58	17.64	17.48
17.6	17.66	17.54
17.64	17.66	17.58
17.66	17.7	17.58
17.66	17.7	17.6
17.64	17.74	17.6
17.6	17.7	17.6
17.58	17.7	17.58
17.58	17.66	17.54

17.54	17.64	17.54
17.52	17.58	17.48
17.48	17.54	17.48
17.48	17.54	17.42
17.46	17.48	17.4
17.4	17.46	17.34
17.4	17.42	17.3
17.34	17.4	17.28
17.3	17.36	17.24
17.3	17.3	17.22
17.28	17.28	17.18
17.28	17.24	17.16
17.24	17.24	17.12
17.24	17.22	17.12
17.22	17.18	17.12
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17.22	17.16	17.08
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17.22	17.12	17.06
17.22	17.12	17.06
17.22	17.12	17.06
17.22	17.12	17.06
17.22	17.12	17.06
17.22	17.12	17.06
17.24	17.12	17.06
17.24	17.12	17.08
17.24	17.12	17.08
17.24	17.12	17.08
17.24	17.12	17.08
17.28	17.12	17.12
17.28	17.12	17.12
17.3	17.12	17.12
17.3	17.12	17.12
17.3	17.12	17.12
17.36	17.12	17.16
17.36	17.12	17.18
17.4	17.12	17.18
17.4	17.12	17.22
17.42	17.12	17.24
17.46	17.16	17.28
17.46	17.16	17.3
17.48	17.18	17.34
17.48	17.18	17.36
17.48	17.18	17.4
17.48	17.22	17.4
17.52	17.22	17.46
17.54	17.22	17.48
17.58	17.22	17.54
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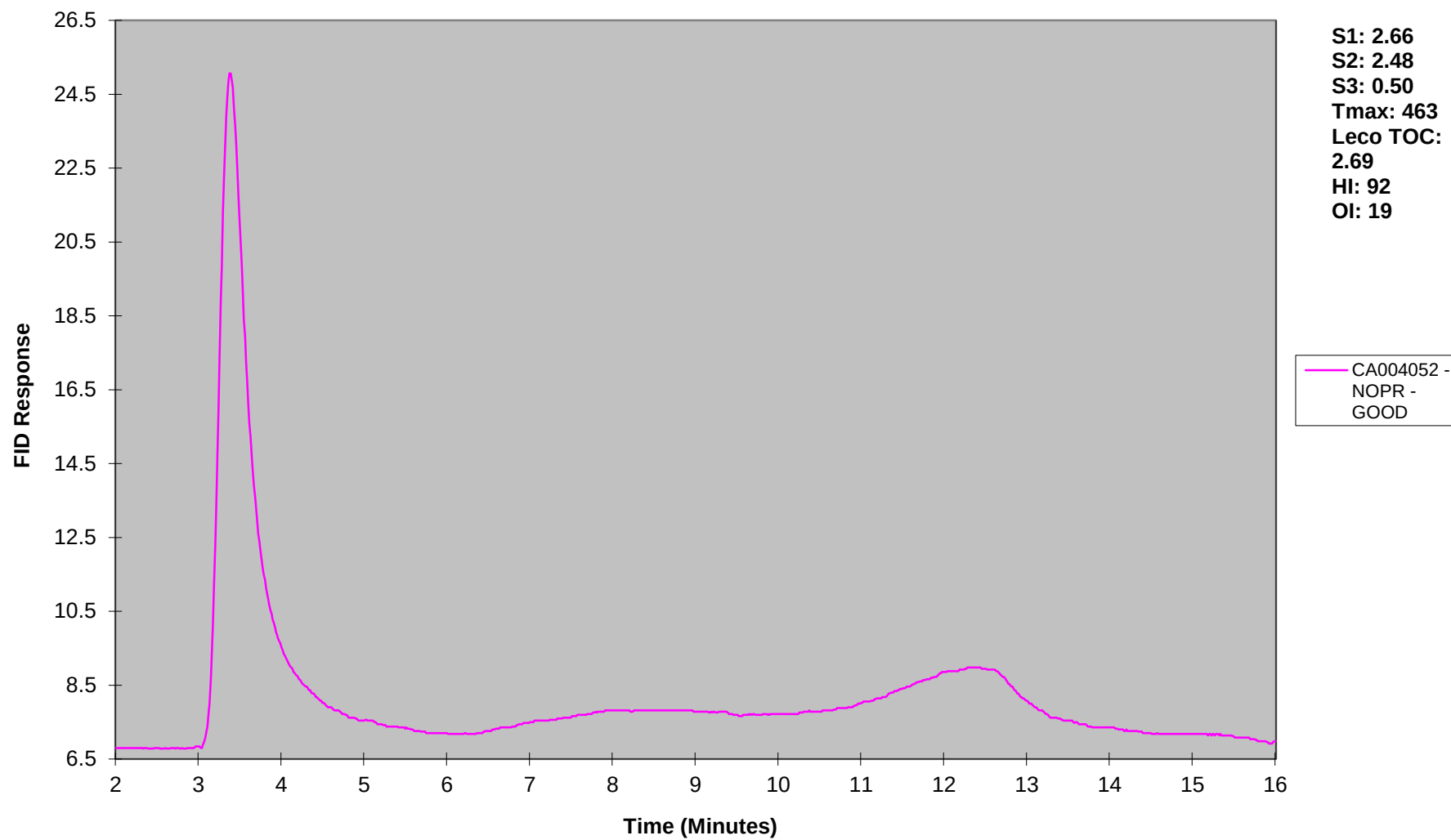
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17.76	17.36	18
17.82	17.36	18.04
17.86	17.36	18.1
17.86	17.4	18.16
17.88	17.4	18.18
17.88	17.4	18.24
17.94	17.4	18.32
17.94	17.4	18.4
17.94	17.4	18.46
17.98	17.42	18.5
18	17.46	18.56
18.04	17.46	18.62
18.04	17.46	18.68
18.06	17.46	18.74
18.12	17.46	18.8
18.12	17.48	18.9
18.12	17.48	18.92
18.16	17.48	19.02
18.18	17.52	19.08
18.22	17.52	19.1
18.22	17.52	19.2
18.24	17.54	19.28
18.24	17.58	19.32
18.28	17.58	19.38
18.32	17.58	19.44
18.32	17.6	19.54
18.34	17.6	19.6
18.4	17.64	19.66
18.4	17.64	19.72
18.4	17.64	19.8
18.44	17.64	19.84
18.46	17.64	19.92

Lab ID: CP317188, Client ID: CA004051, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1630.66

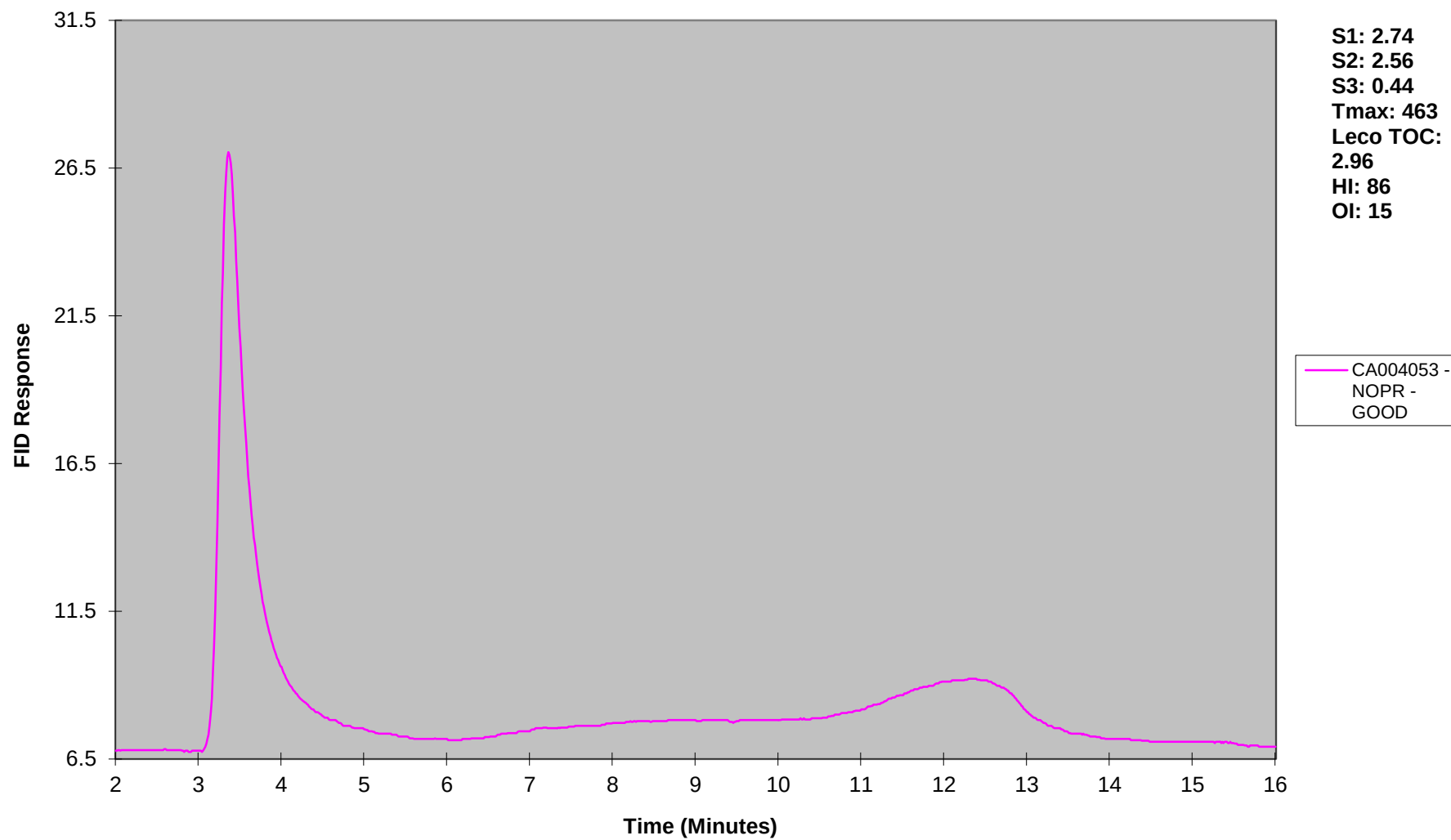


S1: 1.68
S2: 1.29
S3: 0.31
Tmax: 455
Leco TOC:
1.67
HI: 77
OI: 19

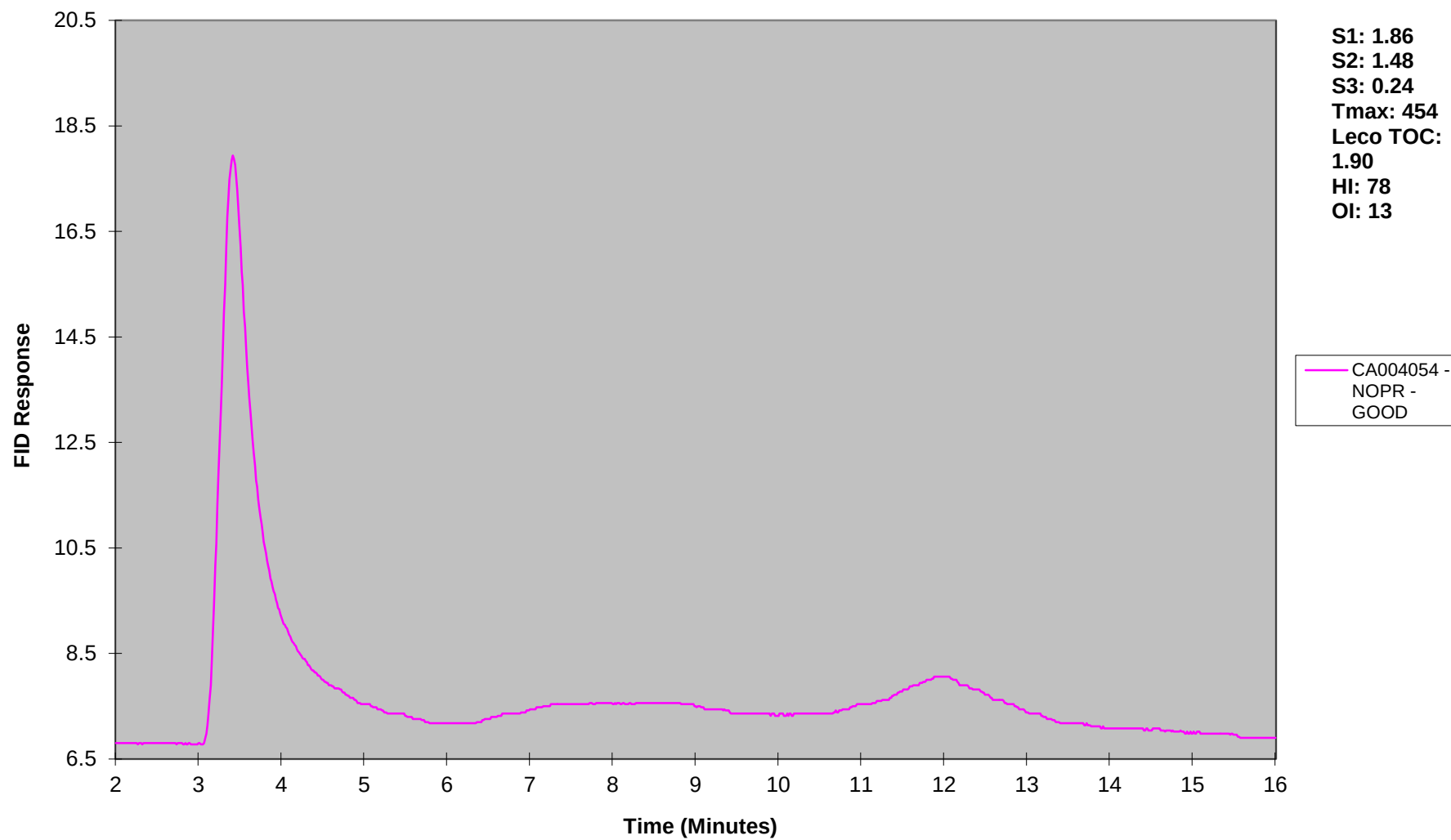
Lab ID: CP317189, Client ID: CA004052, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1639.69



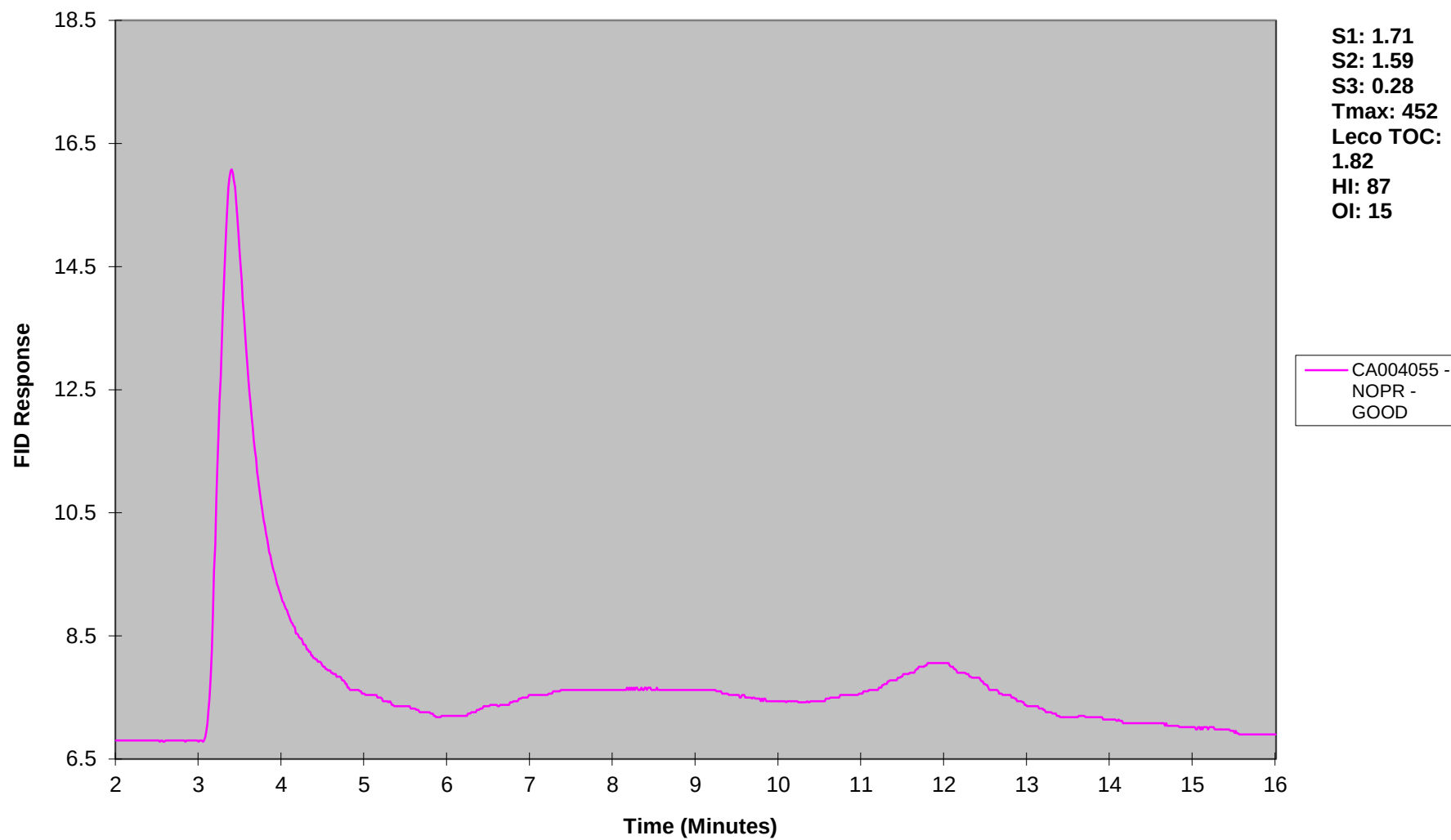
Lab ID: CP317190, Client ID: CA004053, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1649.25



Lab ID: CP317191, Client ID: CA004054, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1657.61

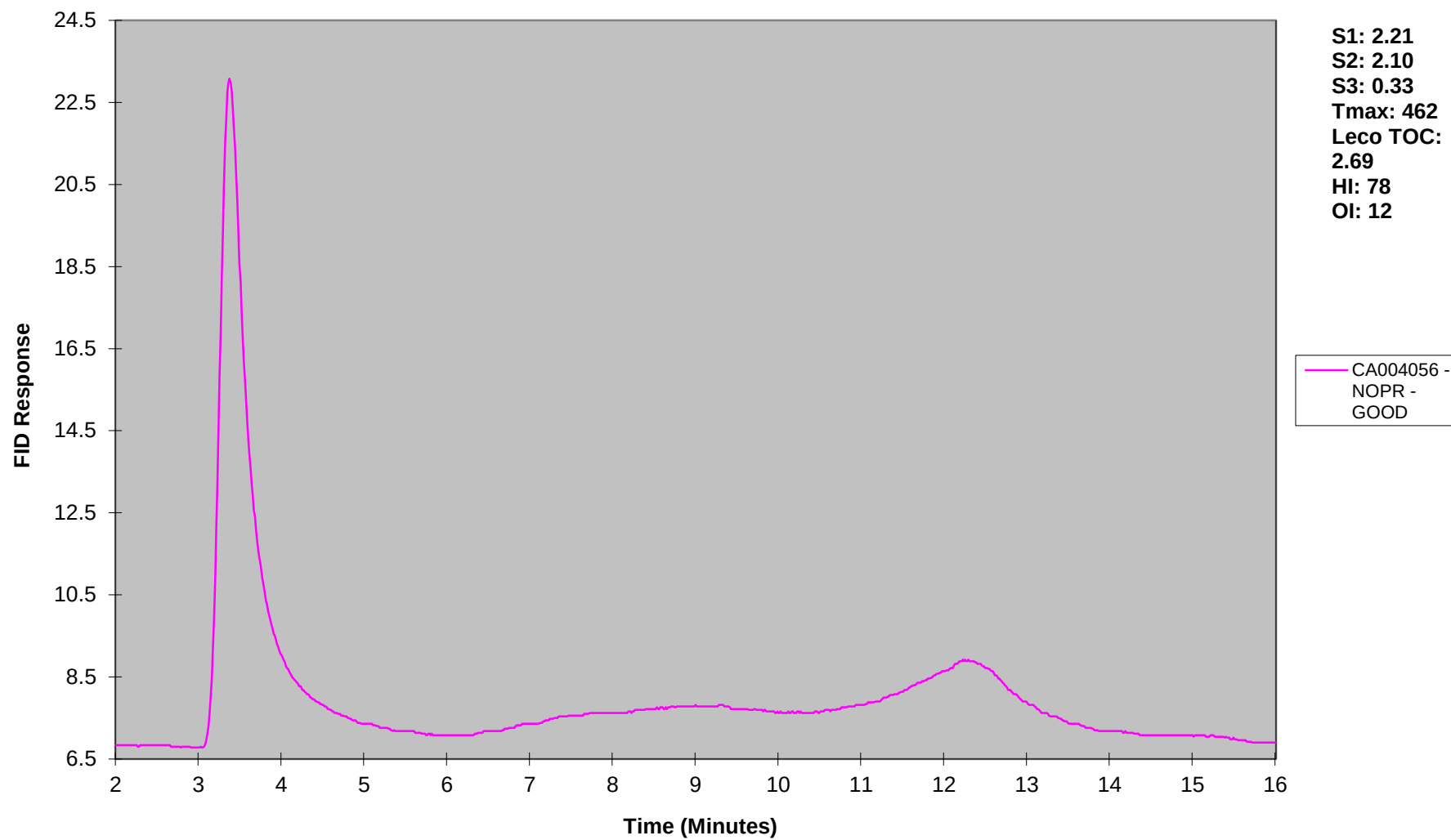


Lab ID: CP317192, Client ID: CA004055, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1666.88

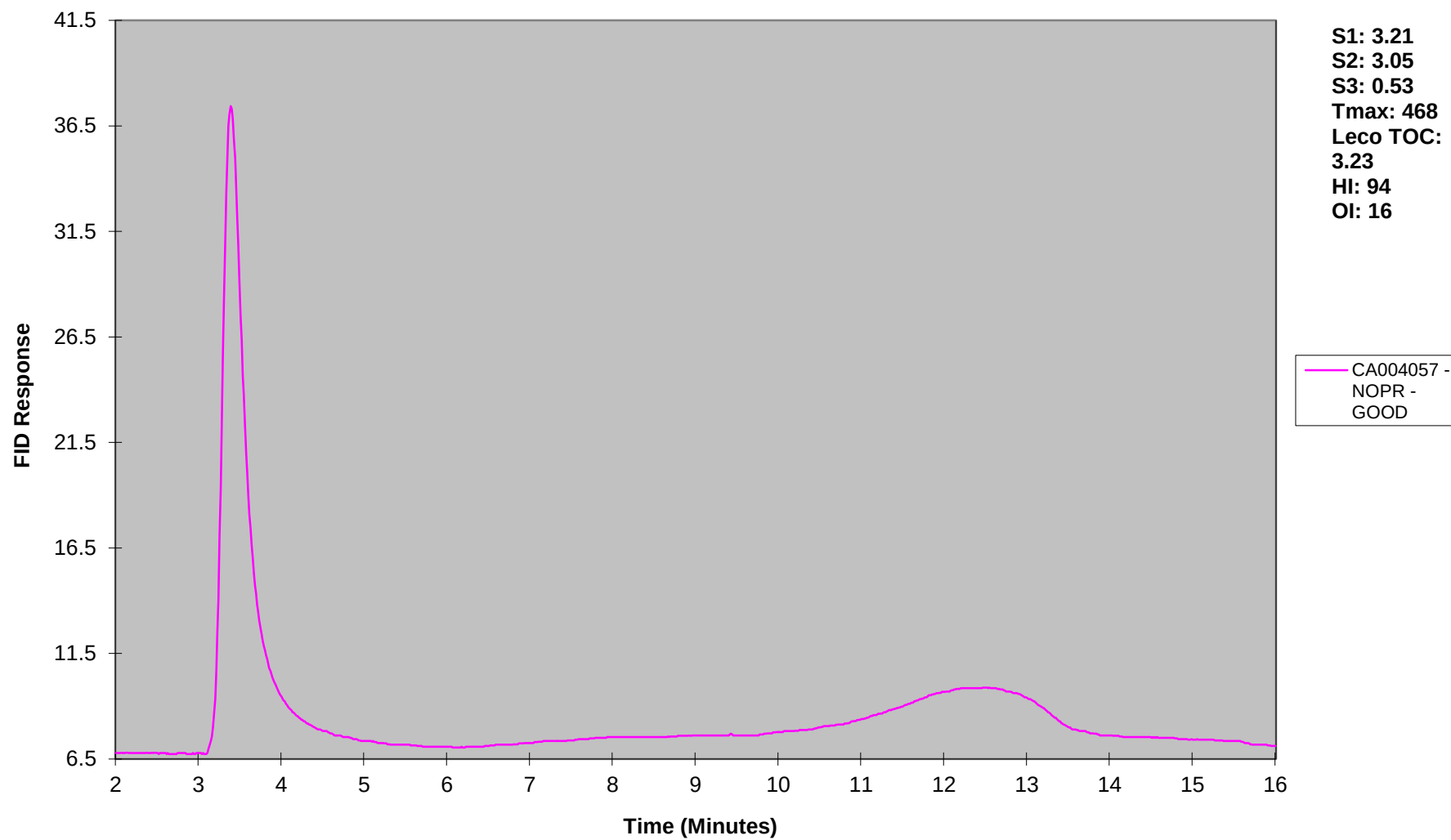


S1: 1.71
S2: 1.59
S3: 0.28
Tmax: 452
Leco TOC:
1.82
HI: 87
OI: 15

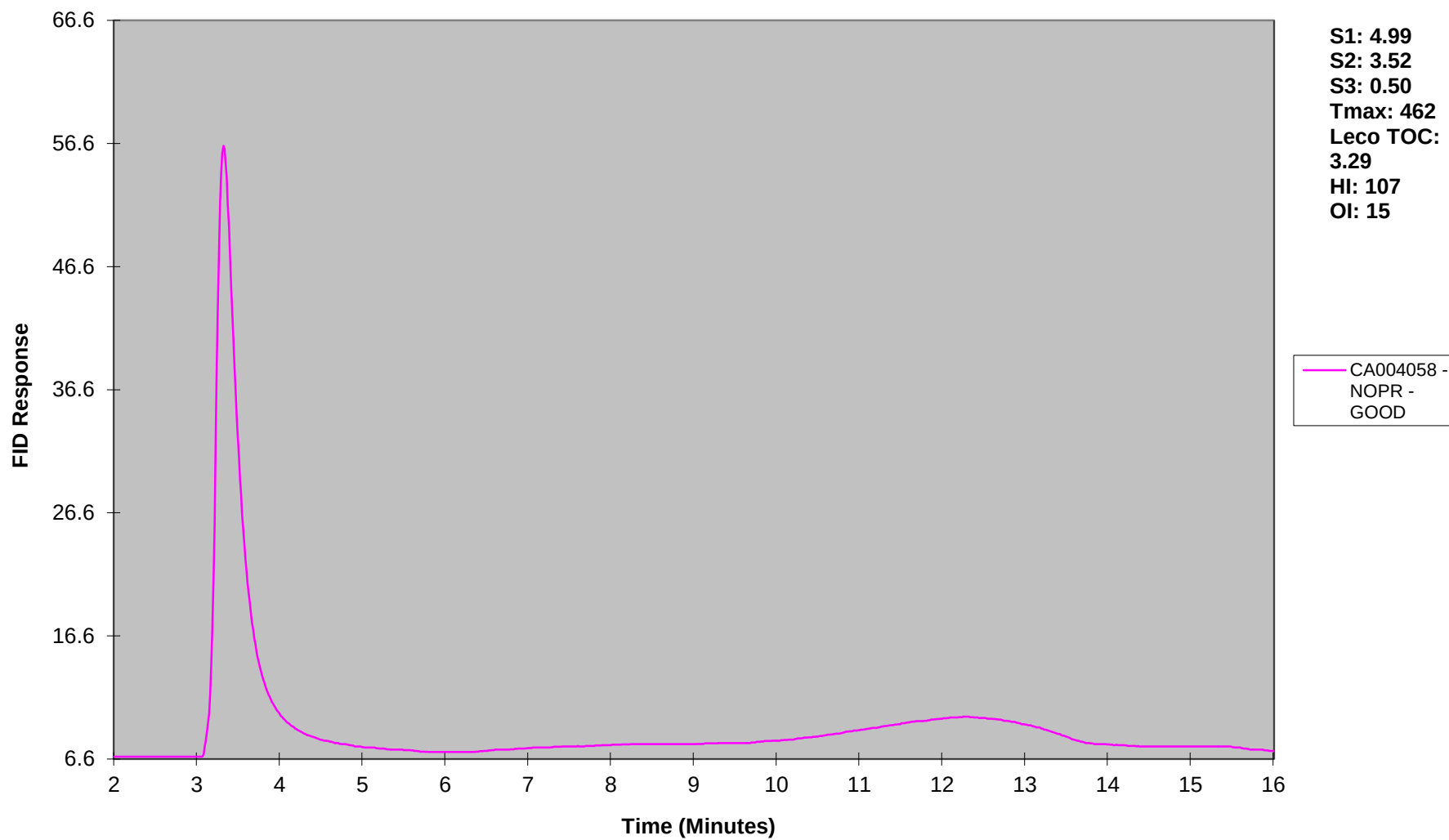
Lab ID: CP317193, Client ID: CA004056, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1676.31



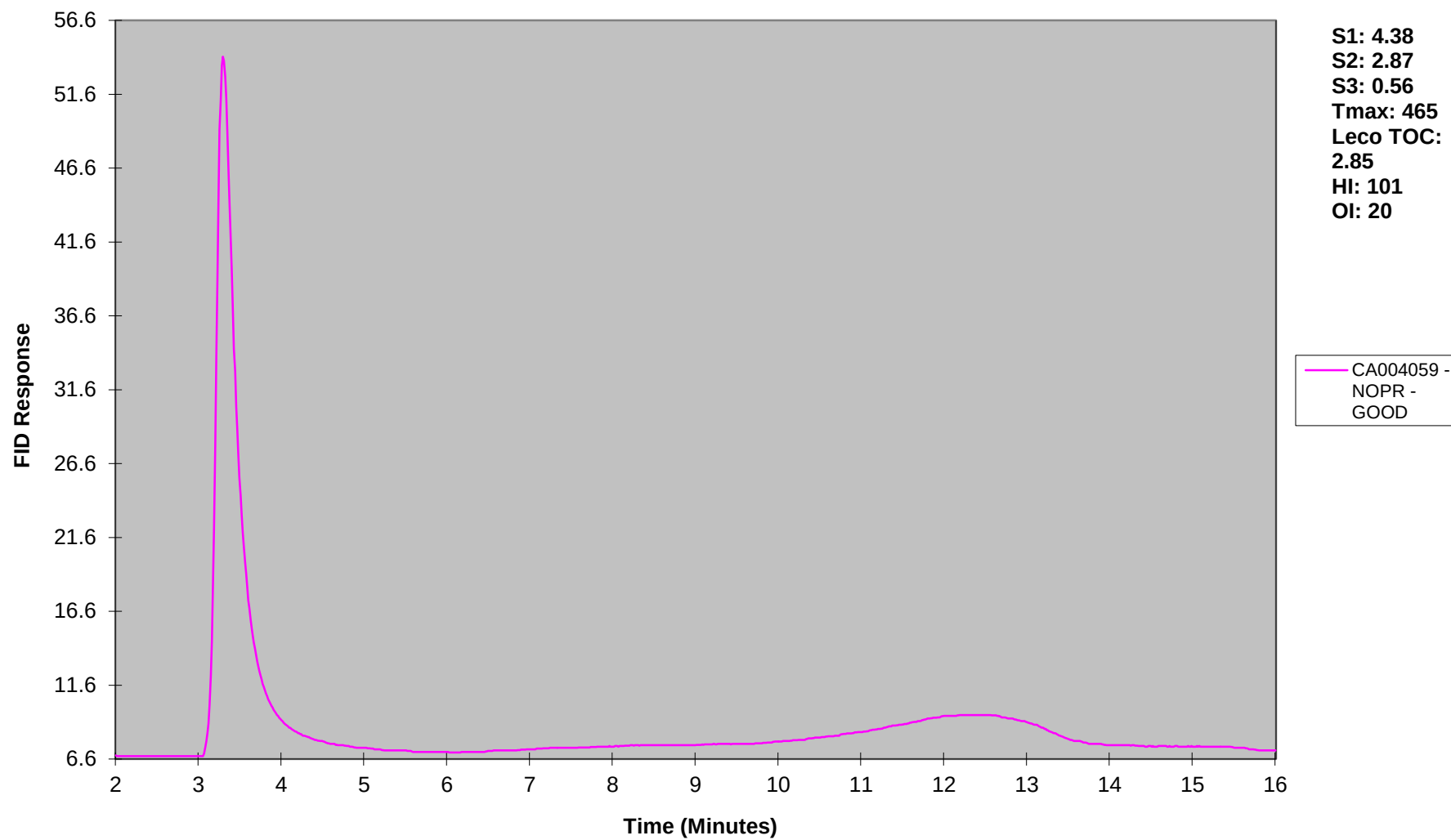
Lab ID: CP317194, Client ID: CA004057, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1685.15



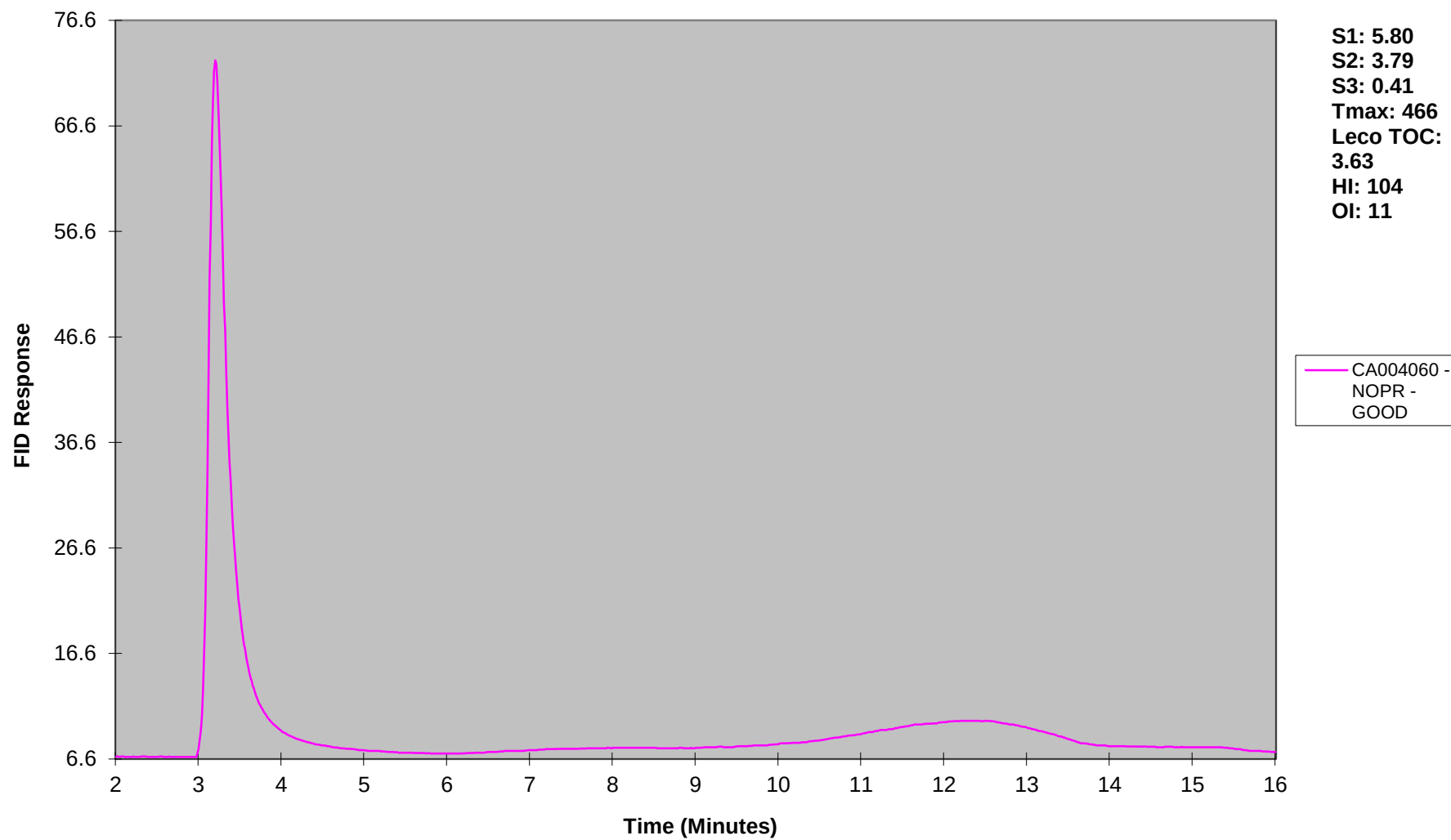
Lab ID: CP317195, Client ID: CA004058, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1694.04



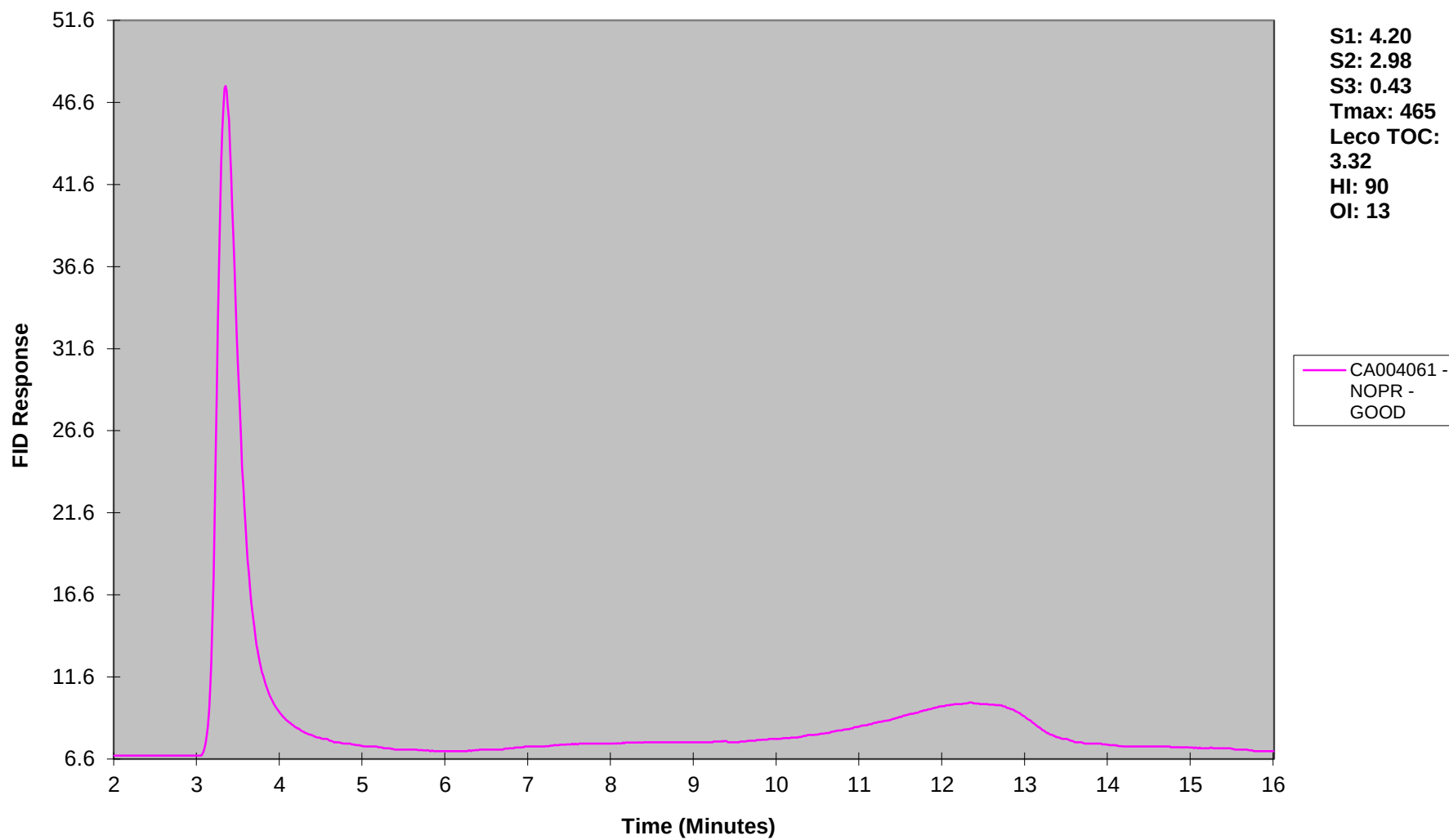
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Well Name: COPRC LOON CREEK O-06, Depth: 1703.61



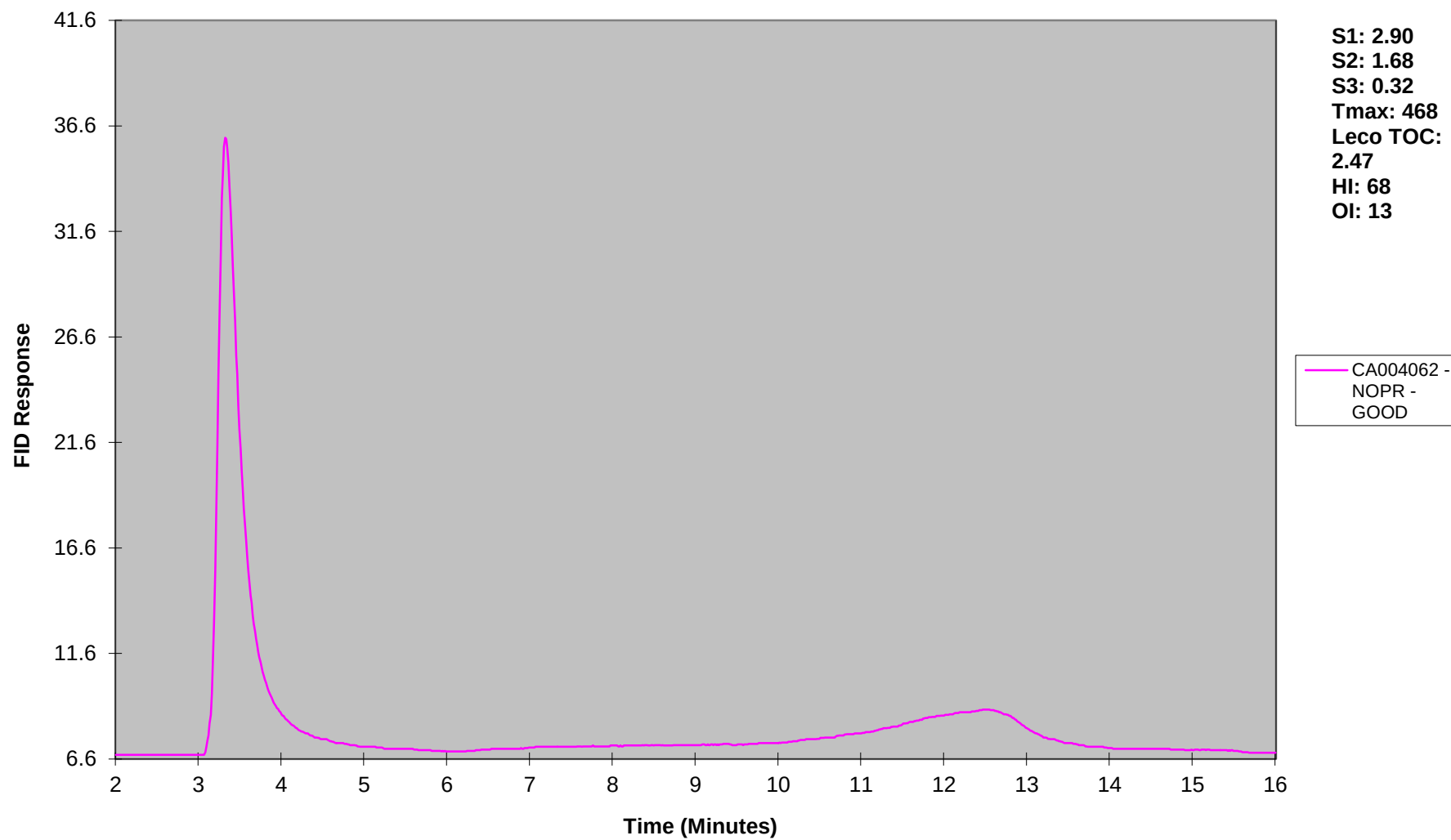
Lab ID: CP317197, Client ID: CA004060, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1712.11



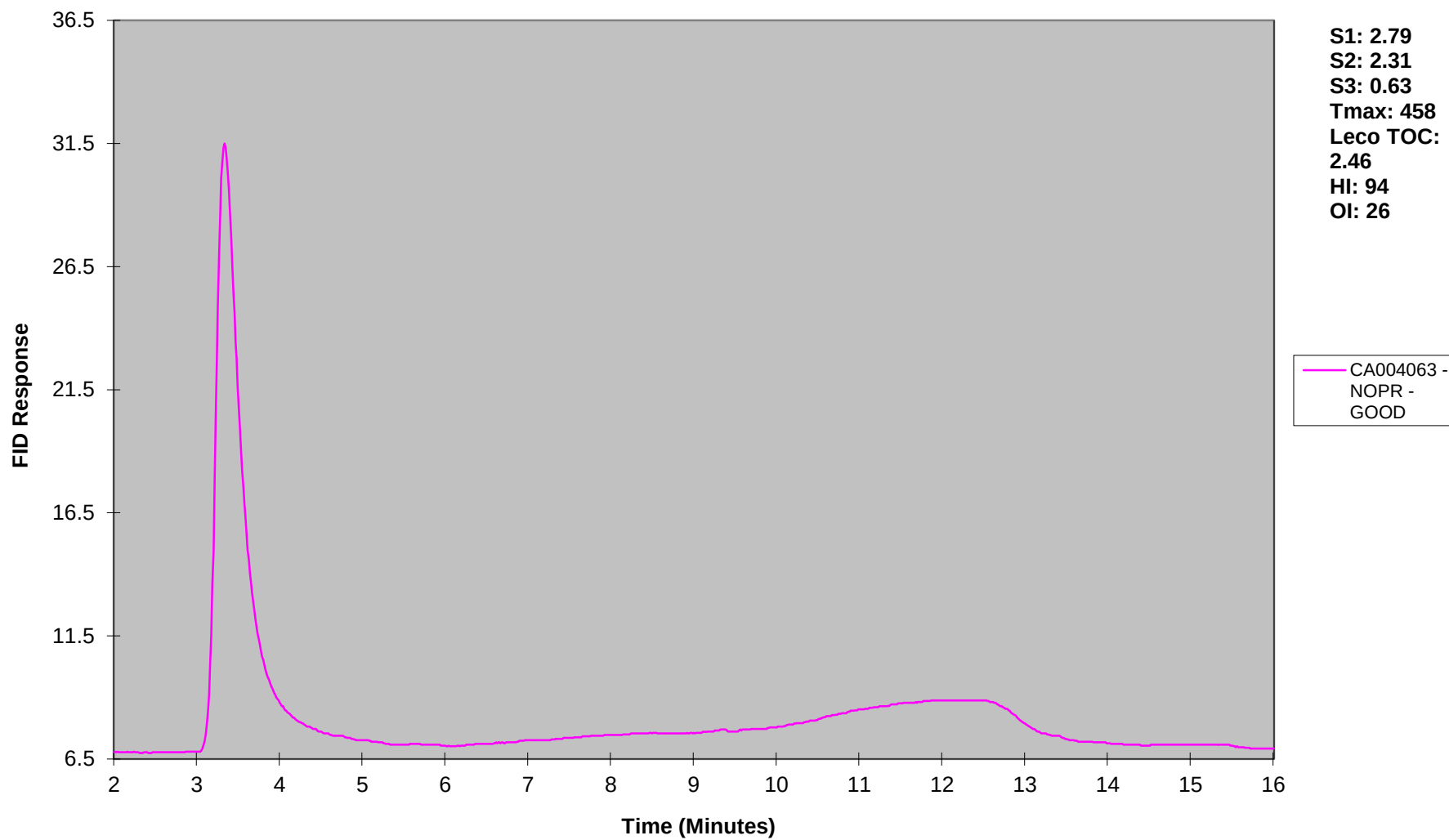
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Well Name: COPRC LOON CREEK O-06, Depth: 1720.58



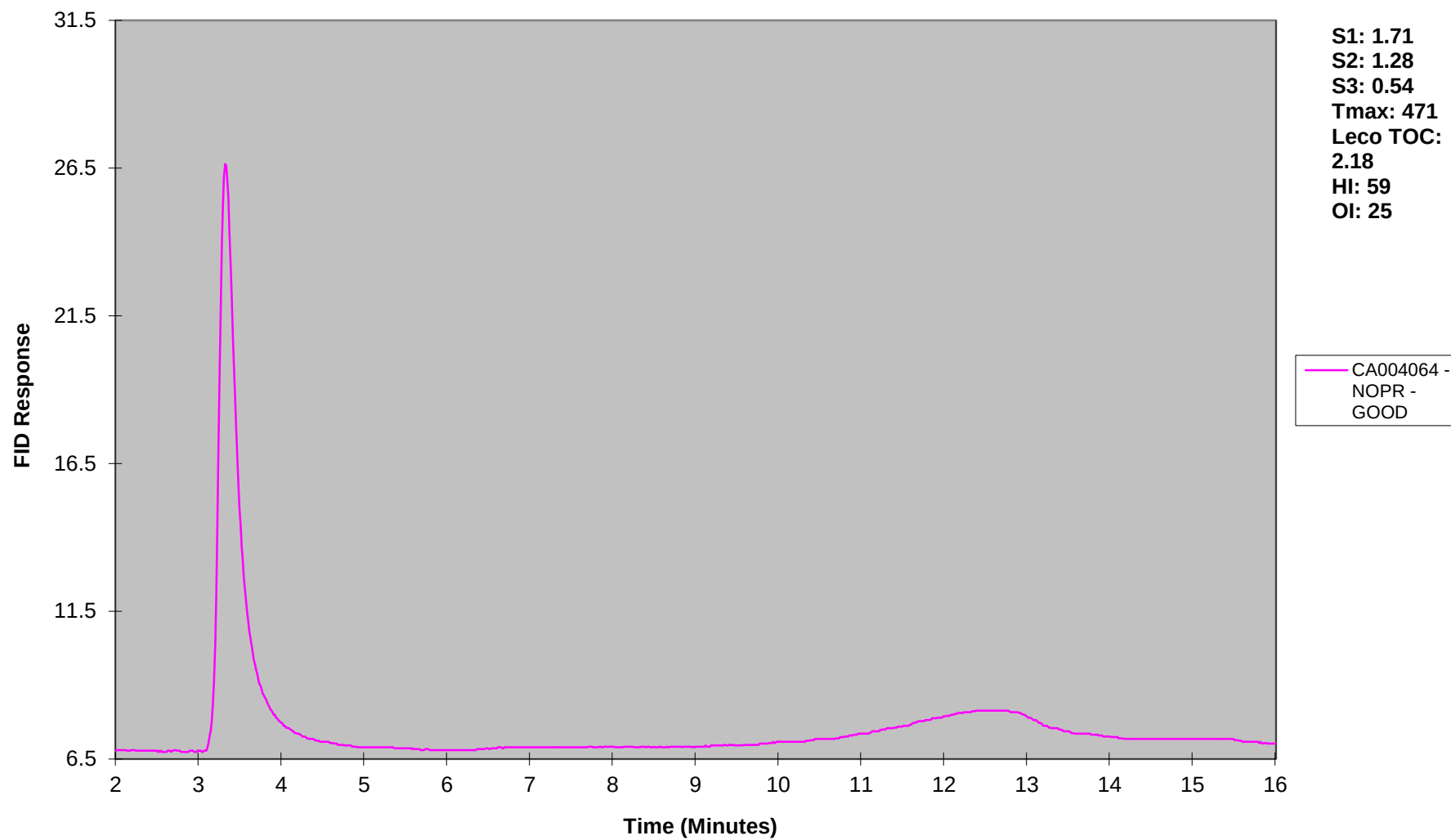
Lab ID: CP317199, Client ID: CA004062, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1731.25



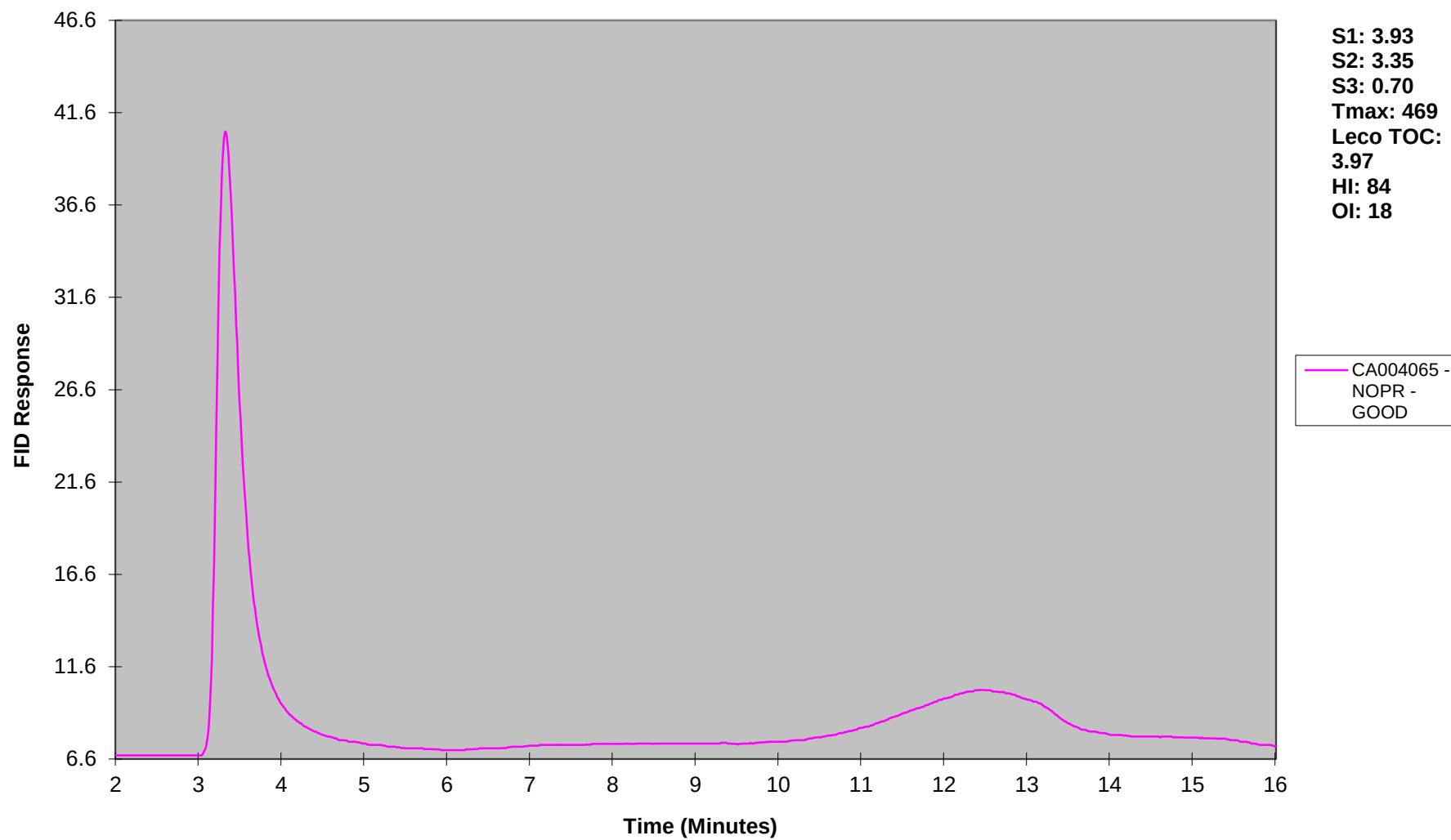
Lab ID: CP317200, Client ID: CA004063, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1739.88



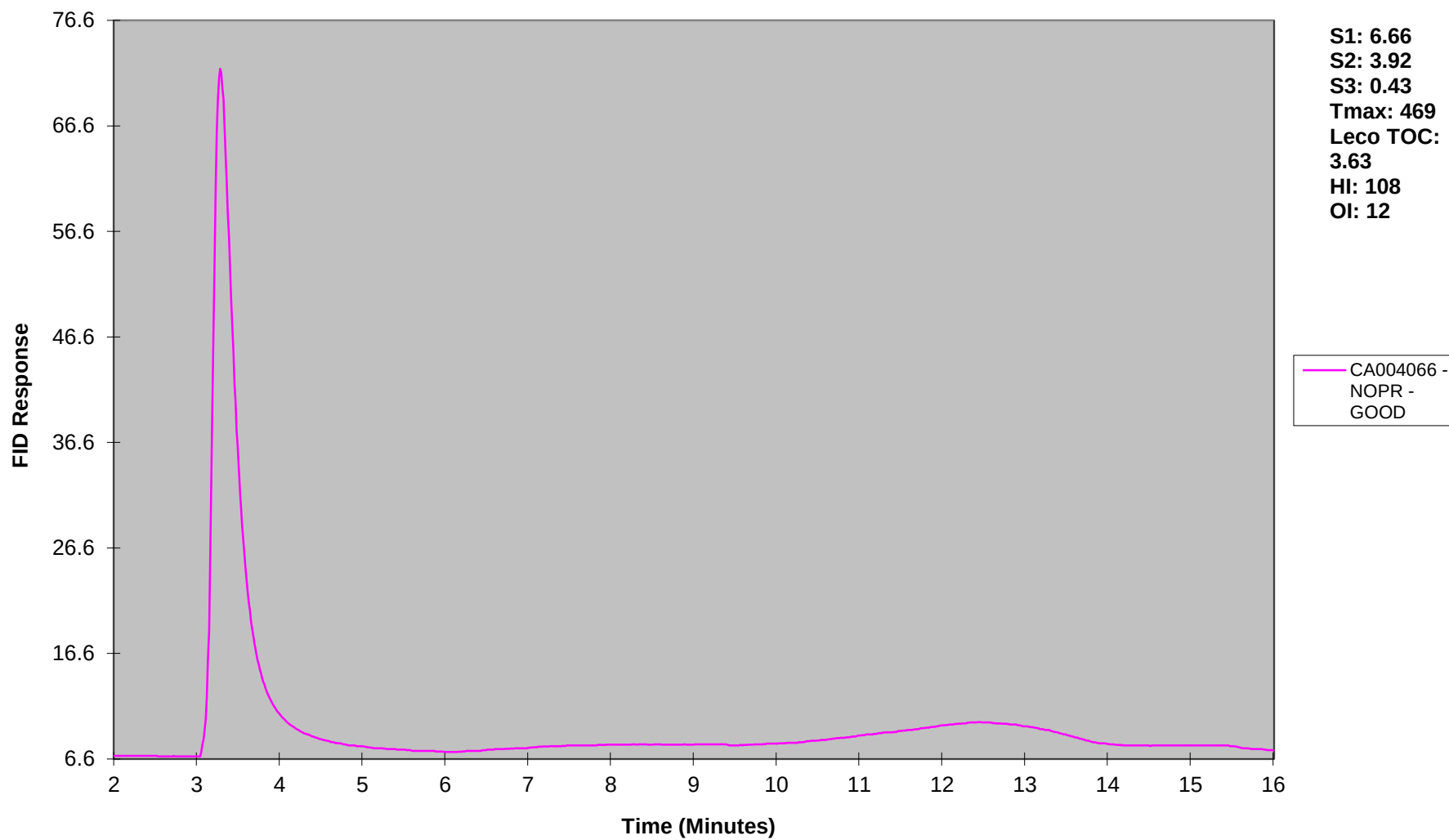
Lab ID: CP317201, Client ID: CA004064, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1749.12



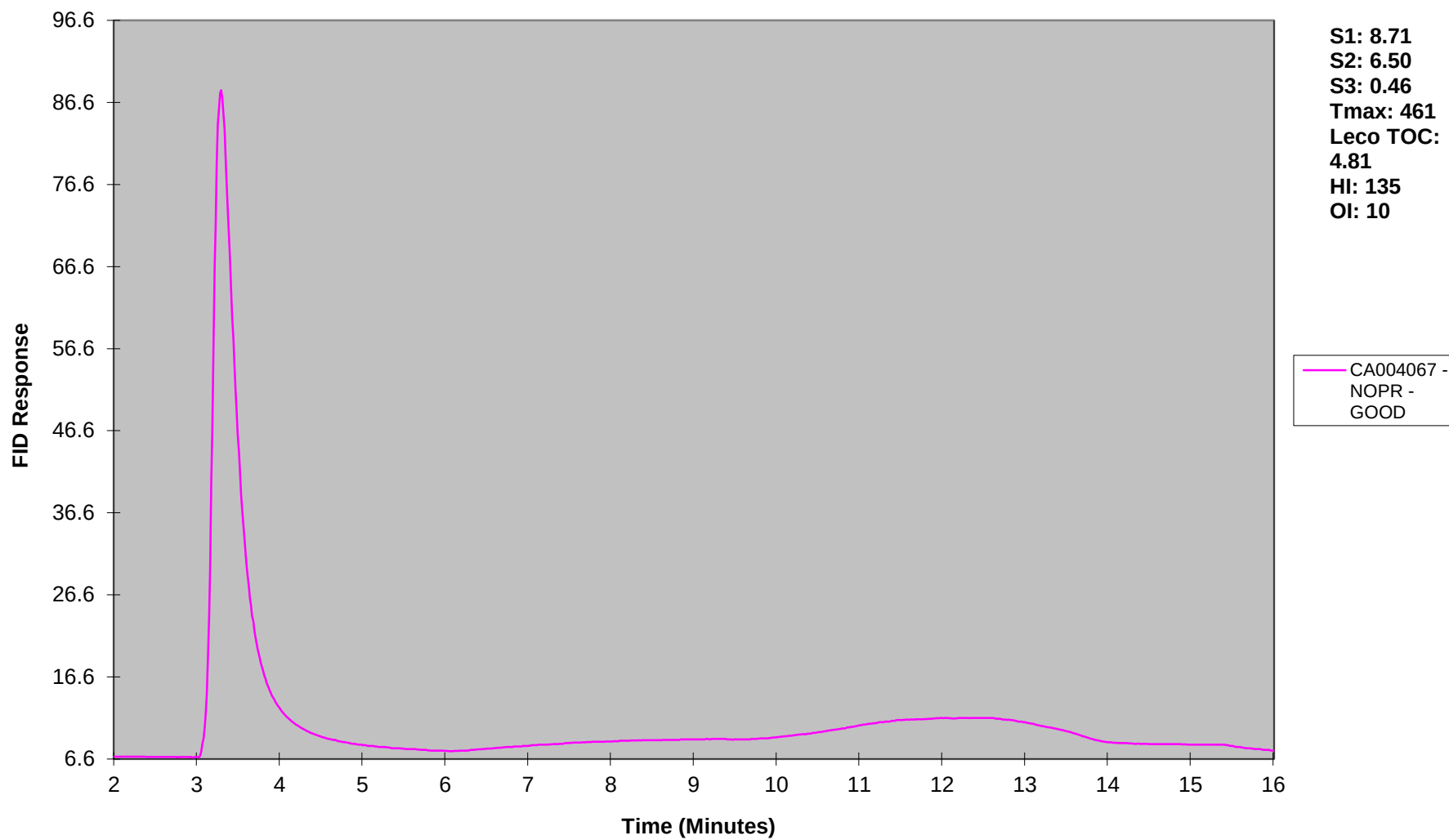
Lab ID: CP317202, Client ID: CA004065, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1758.81



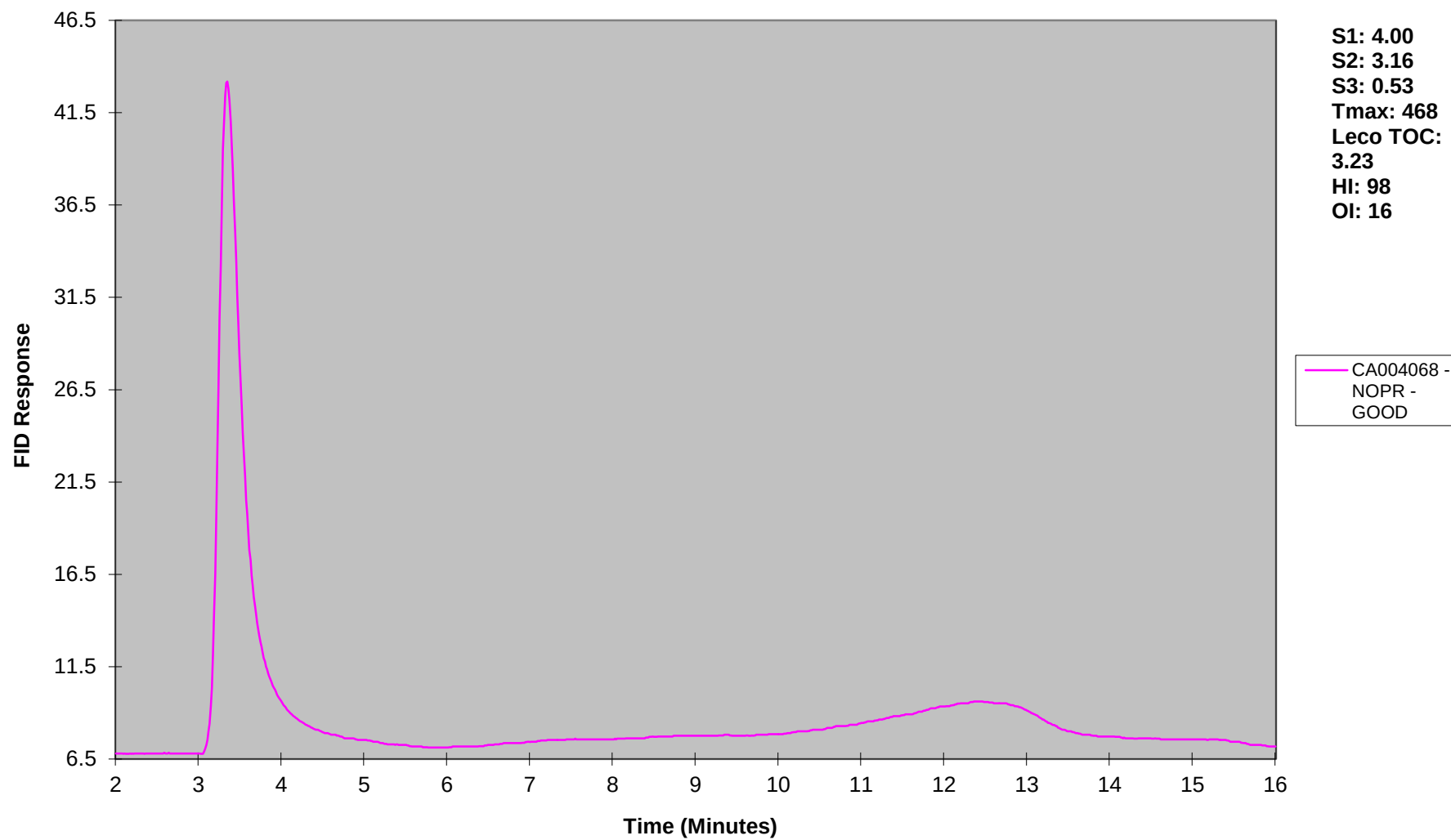
Lab ID: CP317203, Client ID: CA004066, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1767.56



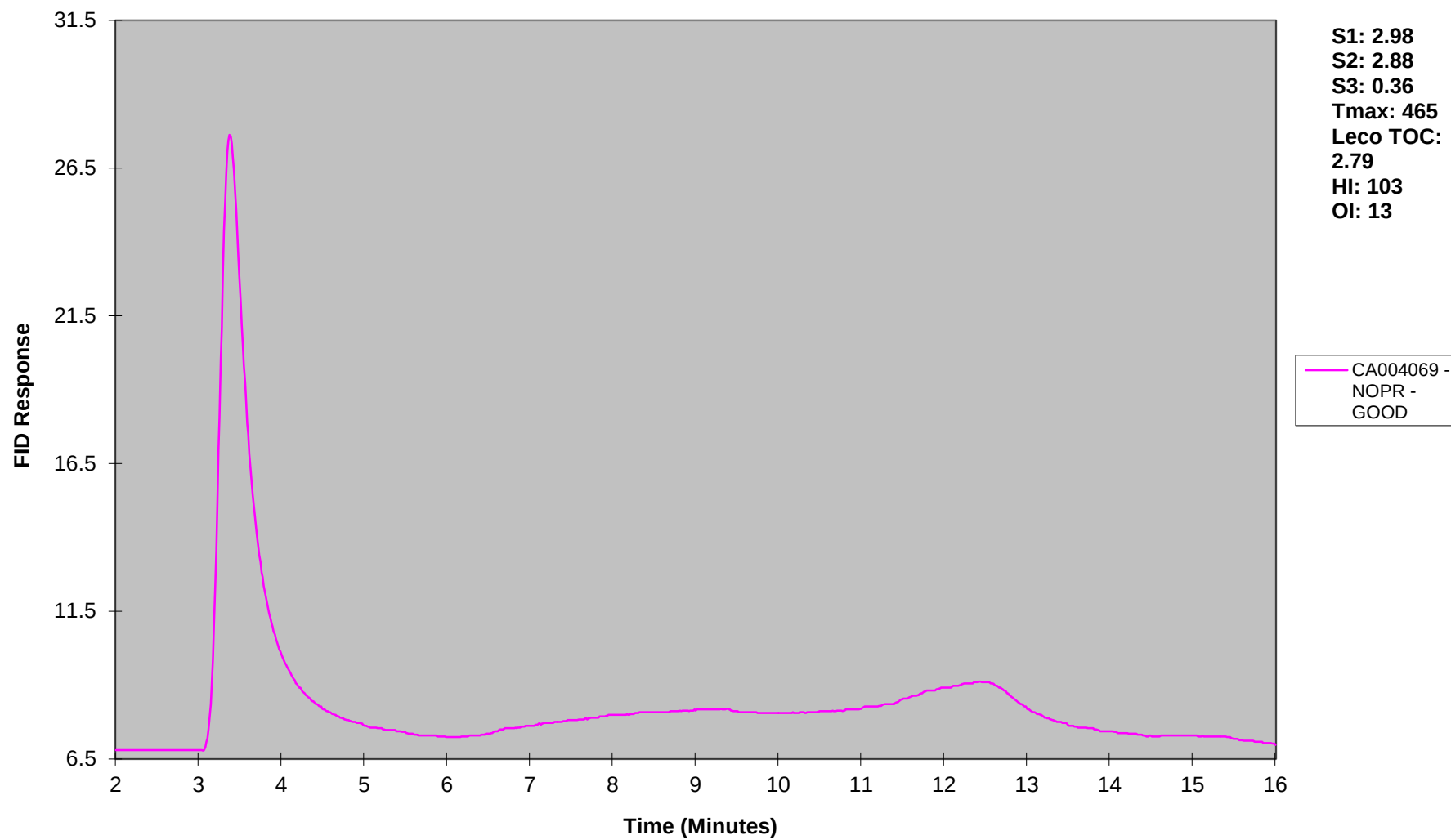
Lab ID: CP317204, Client ID: CA004067, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1776.91



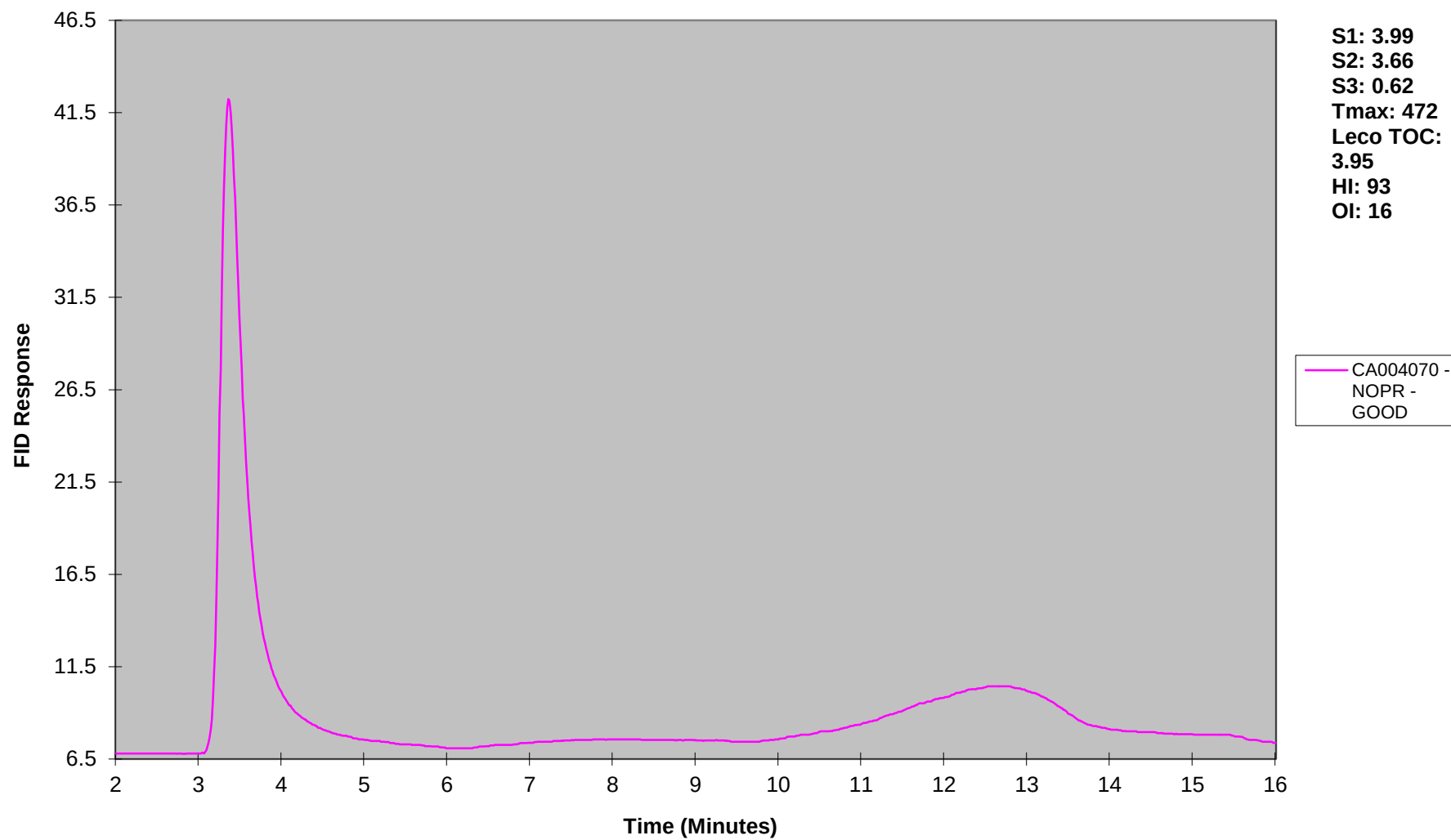
Lab ID: CP317205, Client ID: CA004068, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1786.30



Lab ID: CP317206, Client ID: CA004069, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1794.62



Lab ID: CP317207, Client ID: CA004070, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depth: 1803.81



REQNUM: BH-63684

LAB ID	CLIENT ID	PREP	WELL NAME	TOP DEPTH	BASE DEPTH	S1	S2	S3
CP313640	CA003359	NOPR	COPRC LOON CREEK O-06	1716.1	1716.1	4.41	4.31	0.61
CP313641	CA003360	NOPR	COPRC LOON CREEK O-06	1740.6	1740.6	3.07	2.13	0.74
CP313642	CA003361	NOPR	COPRC LOON CREEK O-06	1767	1767	8.03	4.41	0.84

TMAX	LECO	TOC	HI	OI
462		4.17	103	15
460		3.22	66	23
455		4.18	106	20

Time (Minutes)	Temp °C	CA003359 - NOPR - GOOD	CA003360 - NOPR - GOOD
0.00		7.04	8.12
0.01		7.04	8.08
0.03		7.02	8.06
0.04		7.02	8
0.05		6.98	7.82
0.07		6.92	7.54
0.08		6.90	7.26
0.09		6.84	7.08
0.11		6.80	7.02
0.12		6.80	6.96
0.13		6.80	6.9
0.15		6.84	6.9
0.16		6.84	6.86
0.17		6.84	6.86
0.19		6.84	6.84
0.20		6.84	6.84
0.21		6.86	6.84
0.23		6.86	6.84
0.24		6.86	6.84
0.25		6.86	6.84
0.27		6.86	6.84
0.28		6.84	6.84
0.29		6.84	6.84
0.31		6.84	6.84
0.32		6.84	6.84
0.33		6.84	6.8
0.35		6.84	6.8
0.36		6.84	6.8
0.37		6.84	6.8
0.39		6.84	6.8
0.40		6.84	6.8
0.41		6.80	6.8
0.43		6.80	6.8
0.44		6.80	6.8
0.45		6.80	6.8
0.47		6.80	6.78
0.48		6.80	6.8
0.49		6.80	6.8
0.51		6.80	6.8
0.52		6.80	6.78
0.53		6.80	6.8
0.55		6.80	6.8
0.56		6.78	6.8
0.57		6.78	6.78
0.59		6.78	6.78
0.60		6.78	6.78
0.61		6.78	6.78
0.63		6.78	6.78
0.64		6.78	6.78
0.65		6.78	6.78
0.67		6.78	6.78

0.68	6.78	6.78
0.69	6.78	6.78
0.71	6.74	6.78
0.72	6.74	6.78
0.73	6.74	6.78
0.75	6.78	6.78
0.76	6.78	6.78
0.77	6.74	6.78
0.79	6.78	6.78
0.80	6.78	6.78
0.81	6.78	6.74
0.83	6.78	6.74
0.84	6.74	6.74
0.85	6.78	6.78
0.87	6.78	6.78
0.88	6.74	6.8
0.89	6.78	6.8
0.91	6.78	6.8
0.92	6.78	6.8
0.93	6.78	6.8
0.95	6.78	6.8
0.96	6.78	6.8
0.97	6.78	6.8
0.99	6.78	6.8
1.00	6.78	6.8
1.01	6.78	6.8
1.03	6.78	6.8
1.04	6.78	6.8
1.05	6.78	6.8
1.07	6.78	6.8
1.08	6.78	6.8
1.09	6.78	6.8
1.11	6.78	6.8
1.12	6.78	6.8
1.13	6.78	6.8
1.15	6.78	6.8
1.16	6.74	6.8
1.17	6.74	6.8
1.19	6.78	6.8
1.20	6.78	6.8
1.21	6.78	6.8
1.23	6.78	6.8
1.24	6.78	6.8
1.25	6.78	6.8
1.27	6.78	6.8
1.28	6.78	6.8
1.29	6.78	6.8
1.31	6.74	6.8
1.32	6.74	6.8
1.33	6.74	6.8
1.35	6.74	6.8
1.36	6.78	6.8

1.37	6.78	6.8
1.39	6.78	6.8
1.40	6.78	6.8
1.41	6.78	6.84
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1.44	6.78	6.8
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1.48	6.78	6.8
1.49	6.74	6.8
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1.64	6.74	6.8
1.65	6.74	6.8
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1.69	6.74	6.78
1.71	6.74	6.8
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1.73	6.74	6.8
1.75	6.78	6.8
1.76	6.78	6.78
1.77	6.74	6.78
1.79	6.74	6.78
1.80	6.74	6.8
1.81	6.74	6.78
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1.87	6.74	6.8
1.88	6.74	6.78
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1.93	6.74	6.8
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1.96	6.74	6.78
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2.01	6.74	6.78
2.03	6.74	6.78
2.04	6.74	6.78
2.05	6.74	6.78

2.07	6.72	6.78
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2.09	6.74	6.78
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2.23	6.74	6.78
2.24	6.72	6.78
2.25	6.74	6.78
2.27	6.74	6.78
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2.32	6.74	6.78
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3.13	6.74	6.78
3.15	6.80	6.78
3.16	6.80	6.8
3.17	6.90	6.84
3.19	6.96	6.9
3.20	7.12	6.98
3.21	7.30	7.08
3.23	7.66	7.32
3.24	8.14	7.62
3.25	8.76	7.94
3.27	9.76	8.66
3.28	11.02	9.46
3.29	12.42	10.4
3.31	14.26	11.62
3.32	15.86	12.72
3.33	17.94	14.16
3.35	20.14	15.5
3.36	21.24	16.52
3.37	22.80	17.58
3.39	23.72	18.46
3.40	24.16	18.8
3.41	24.42	19.16
3.43	24.32	19.22
3.44	24.02	19.1

3.45	23.50	18.9
3.47	22.92	18.56
3.48	22.12	18.1
3.49	21.30	17.58
3.51	20.50	17.06
3.52	19.44	16.44
3.53	18.82	15.96
3.55	17.76	15.32
3.56	16.90	14.64
3.57	16.20	14.26
3.59	15.42	13.62
3.60	14.86	13.16
3.61	14.20	12.6
3.63	13.62	12.14
3.64	13.16	11.78
3.65	12.64	11.36
3.67	12.12	10.98
3.68	11.88	10.68
3.69	11.42	10.34
3.71	11.24	10.14
3.72	10.86	9.88
3.73	10.62	9.62
3.75	10.40	9.46
3.76	10.16	9.24
3.77	9.98	9.06
3.79	9.80	8.94
3.80	9.64	8.78
3.81	9.52	8.7
3.83	9.36	8.54
3.84	9.24	8.46
3.85	9.12	8.36
3.87	9.00	8.28
3.88	8.92	8.18
3.89	8.82	8.12
3.91	8.72	8.06
3.92	8.64	8
3.93	8.54	7.94
3.95	8.48	7.9
3.96	8.42	7.84
3.97	8.36	7.78
3.99	8.30	7.72
4.00	8.24	7.72
4.01	8.18	7.66
4.03	8.18	7.62
4.04	8.08	7.6
4.05	8.06	7.56
4.07	8.00	7.54
4.08	7.96	7.5
4.09	7.94	7.48
4.11	7.90	7.44
4.12	7.88	7.42
4.13	7.84	7.42

4.15	7.78	7.38
4.16	7.76	7.36
4.17	7.72	7.36
4.19	7.72	7.36
4.20	7.70	7.36
4.21	7.62	7.36
4.23	7.62	7.36
4.24	7.62	7.32
4.25	7.60	7.32
4.27	7.56	7.3
4.28	7.54	7.26
4.29	7.54	7.26
4.31	7.50	7.26
4.32	7.48	7.24
4.33	7.44	7.2
4.35	7.44	7.18
4.36	7.44	7.18
4.37	7.44	7.18
4.39	7.44	7.18
4.40	7.42	7.18
4.41	7.38	7.18
4.43	7.38	7.18
4.44	7.36	7.14
4.45	7.36	7.14
4.47	7.36	7.14
4.48	7.36	7.14
4.49	7.36	7.12
4.51	7.32	7.08
4.52	7.32	7.08
4.53	7.30	7.08
4.55	7.30	7.08
4.56	7.26	7.08
4.57	7.26	7.08
4.59	7.26	7.04
4.60	7.26	7.04
4.61	7.24	7.04
4.63	7.24	7.04
4.64	7.20	7.02
4.65	7.18	6.98
4.67	7.18	6.98
4.68	7.18	6.98
4.69	7.18	6.98
4.71	7.18	6.98
4.72	7.18	6.98
4.73	7.18	6.98
4.75	7.18	6.98
4.76	7.14	6.98
4.77	7.14	6.98
4.79	7.14	6.98
4.80	7.14	6.98
4.81	7.14	6.98
4.83	7.14	6.98

4.84	7.14	6.98
4.85	7.14	6.98
4.87	7.14	6.96
4.88	7.14	6.96
4.89	7.12	6.96
4.91	7.12	6.96
4.92	7.12	6.96
4.93	7.08	6.96
4.95	7.08	6.96
4.96	7.08	6.96
4.97	7.08	6.96
4.99	7.08	6.92
5.00	7.08	6.96
5.01	7.08	6.92
5.03	7.04	6.92
5.04	7.02	6.92
5.05	7.02	6.92
5.07	7.02	6.92
5.08	6.98	6.92
5.09	6.98	6.92
5.11	6.98	6.9
5.12	6.98	6.9
5.13	6.98	6.92
5.15	6.98	6.9
5.16	6.98	6.9
5.17	6.98	6.9
5.19	6.98	6.9
5.20	6.98	6.92
5.21	6.98	6.9
5.23	6.98	6.92
5.24	6.98	6.9
5.25	6.98	6.9
5.27	6.98	6.9
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5.31	6.98	6.9
5.32	6.98	6.9
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5.36	6.98	6.9
5.37	6.96	6.9
5.39	6.96	6.9
5.40	6.96	6.9
5.41	6.96	6.9
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5.44	6.96	6.9
5.45	6.96	6.9
5.47	6.96	6.9
5.48	6.96	6.9
5.49	6.96	6.9
5.51	6.96	6.9
5.52	6.96	6.9

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5.56	6.96	6.9
5.57	6.92	6.9
5.59	6.92	6.9
5.60	6.92	6.9
5.61	6.92	6.9
5.63	6.96	6.9
5.64	6.92	6.9
5.65	6.92	6.9
5.67	6.92	6.9
5.68	6.92	6.9
5.69	6.92	6.9
5.71	6.92	6.9
5.72	6.92	6.9
5.73	6.90	6.9
5.75	6.90	6.9
5.76	6.90	6.9
5.77	6.92	6.9
5.79	6.92	6.9
5.80	6.90	6.9
5.81	6.92	6.9
5.83	6.92	6.9
5.84	6.90	6.9
5.85	6.90	6.9
5.87	6.90	6.9
5.88	6.90	6.9
5.89	6.90	6.9
5.91	6.90	6.9
5.92	6.90	6.9
5.93	6.90	6.9
5.95	6.90	6.9
5.96	6.90	6.9
5.97	6.90	6.9
5.99	6.90	6.9
6.00	6.90	6.9
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6.04	6.90	6.9
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6.12	6.90	6.9
6.13	6.90	6.9
6.15	6.90	6.9
6.16	6.90	6.9
6.17	6.90	6.9
6.19	6.90	6.9
6.20	6.90	6.9
6.21	6.90	6.9

6.23	6.90	6.9
6.24	6.90	6.9
6.25	6.90	6.9
6.27	6.90	6.9
6.28	6.90	6.9
6.29	6.90	6.9
6.31	6.90	6.9
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6.36	6.90	6.9
6.37	6.92	6.9
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6.41	6.92	6.9
6.43	6.92	6.9
6.44	6.90	6.9
6.45	6.92	6.9
6.47	6.92	6.9
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6.51	6.96	6.9
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6.53	6.96	6.9
6.55	6.96	6.9
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6.71	6.96	6.9
6.72	6.96	6.9
6.73	6.96	6.9
6.75	6.96	6.9
6.76	6.96	6.9
6.77	6.96	6.9
6.79	6.96	6.9
6.80	6.96	6.9
6.81	6.96	6.9
6.83	6.96	6.9
6.84	6.96	6.9
6.85	6.96	6.9
6.87	6.96	6.9
6.88	6.96	6.9
6.89	6.96	6.9
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6.92	6.98	6.9
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6.95	6.98	6.9
6.96	6.98	6.9
6.97	6.98	6.9
6.99	6.98	6.9
7.00	6.98	6.9
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7.15	6.98	6.9
7.16	6.98	6.9
7.17	6.98	6.9
7.19	7.02	6.9
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7.21	7.02	6.92
7.23	7.02	6.92
7.24	7.02	6.92
7.25	7.02	6.92
7.27	7.02	6.92
7.28	7.02	6.92
7.29	7.02	6.92
7.31	7.04	6.92
7.32	7.04	6.92
7.33	7.04	6.92
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7.37	7.04	6.92
7.39	7.04	6.92
7.40	7.04	6.92
7.41	7.04	6.92
7.43	7.04	6.92
7.44	7.04	6.92
7.45	7.04	6.92
7.47	7.04	6.92
7.48	7.08	6.92
7.49	7.08	6.92
7.51	7.08	6.96
7.52	7.08	6.96
7.53	7.08	6.96
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7.56	7.08	6.96
7.57	7.08	6.96
7.59	7.08	6.96
7.60	7.08	6.96

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7.63	7.08	6.92
7.64	7.08	6.92
7.65	7.08	6.92
7.67	7.08	6.96
7.68	7.08	6.96
7.69	7.08	6.96
7.71	7.08	6.92
7.72	7.08	6.96
7.73	7.08	6.96
7.75	7.08	6.96
7.76	7.08	6.96
7.77	7.08	6.96
7.79	7.08	6.96
7.80	7.08	6.96
7.81	7.08	6.96
7.83	7.08	6.96
7.84	7.12	6.96
7.85	7.08	6.96
7.87	7.12	6.96
7.88	7.08	6.96
7.89	7.12	6.96
7.91	7.12	6.96
7.92	7.12	6.96
7.93	7.12	6.96
7.95	7.12	6.96
7.96	7.14	6.96
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7.99	7.14	6.96
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8.01	7.12	6.96
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8.04	7.12	6.96
8.05	7.12	6.96
8.07	7.14	6.96
8.08	7.12	6.96
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8.11	7.14	6.96
8.12	7.14	6.96
8.13	7.14	6.96
8.15	7.14	6.96
8.16	7.14	6.96
8.17	7.14	6.96
8.19	7.14	6.96
8.20	7.14	6.96
8.21	7.14	6.96
8.23	7.14	6.96
8.24	7.14	6.96
8.25	7.14	6.96
8.27	7.14	6.96
8.28	7.14	6.96
8.29	7.14	6.96

8.31	7.14	6.96
8.32	7.14	6.96
8.33	7.14	6.96
8.35	7.14	6.96
8.36	7.14	6.96
8.37	7.14	6.96
8.39	7.14	6.96
8.40	7.14	6.96
8.41	7.14	6.96
8.43	7.14	6.96
8.44	7.14	6.96
8.45	7.14	6.96
8.47	7.14	6.96
8.48	7.14	6.96
8.49	7.14	6.96
8.51	7.14	6.96
8.52	7.14	6.96
8.53	7.14	6.96
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8.56	7.14	6.96
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8.64	7.14	6.96
8.65	7.14	6.96
8.67	7.14	6.96
8.68	7.14	6.96
8.69	7.14	6.96
8.71	7.14	6.96
8.72	7.14	6.96
8.73	7.18	6.96
8.75	7.18	6.96
8.76	7.18	6.96
8.77	7.18	6.96
8.79	7.18	6.96
8.80	7.18	6.96
8.81	7.18	6.96
8.83	7.18	6.96
8.84	7.18	6.96
8.85	7.14	6.96
8.87	7.14	6.96
8.88	7.14	6.96
8.89	7.18	6.96
8.91	7.18	6.96
8.92	7.18	6.96
8.93	7.18	6.96
8.95	7.20	6.96
8.96	7.20	6.96
8.97	7.18	6.98
8.99	7.20	6.98

9.00	7.18	6.98
9.01	7.20	6.98
9.03	7.20	6.98
9.04	7.20	6.96
9.05	7.20	6.96
9.07	7.24	6.96
9.08	7.24	6.92
9.09	7.24	6.92
9.11	7.24	6.92
9.12	7.24	6.92
9.13	7.24	6.92
9.15	7.26	6.92
9.16	7.26	6.92
9.17	7.26	6.92
9.19	7.26	6.92
9.20	7.26	6.92
9.21	7.26	6.92
9.23	7.26	6.92
9.24	7.26	6.92
9.25	7.26	6.92
9.27	7.26	6.92
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9.29	7.26	6.96
9.31	7.26	6.96
9.32	7.26	6.98
9.33	7.3	6.96
9.35	7.3	6.98
9.36	7.3	6.98
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9.39	7.3	6.98
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9.45	7.32	6.98
9.47	7.32	6.98
9.48	7.32	6.98
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9.51	7.3	6.98
9.52	7.26	6.98
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9.59	7.3	6.96
9.60	7.3	6.96
9.61	7.26	6.96
9.63	7.3	6.98
9.64	7.3	6.98
9.65	7.32	6.96
9.67	7.32	6.96
9.68	7.32	6.96

9.69	7.32	6.98
9.71	7.32	6.98
9.72	7.32	6.98
9.73	7.32	6.98
9.75	7.32	6.98
9.76	7.32	6.98
9.77	7.32	6.98
9.79	7.32	6.98
9.80	7.32	7.02
9.81	7.32	7.02
9.83	7.32	7.02
9.84	7.32	7.02
9.85	7.32	7.02
9.87	7.36	7.04
9.88	7.36	7.04
9.89	7.36	7.08
9.91	7.36	7.08
9.92	7.36	7.08
9.93	7.38	7.08
9.95	7.38	7.08
9.96	7.38	7.12
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9.99	7.38	7.12
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10.03	7.42	7.14
10.04	7.42	7.14
10.05	7.42	7.14
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10.11	7.42	7.14
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10.16	7.44	7.14
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10.19	7.48	7.14
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10.21	7.5	7.14
10.23	7.54	7.14
10.24	7.54	7.18
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10.31	7.56	7.18
10.32	7.56	7.18
10.33	7.6	7.18
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10.36	7.6	7.18
10.37	7.6	7.2

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10.40	7.6	7.24
10.41	7.6	7.24
10.43	7.6	7.24
10.44	7.6	7.24
10.45	7.62	7.26
10.47	7.62	7.26
10.48	7.62	7.26
10.49	7.66	7.26
10.51	7.66	7.26
10.52	7.66	7.3
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10.55	7.7	7.3
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10.60	7.7	7.32
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10.63	7.72	7.32
10.64	7.72	7.32
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10.67	7.76	7.32
10.68	7.76	7.32
10.69	7.78	7.32
10.71	7.78	7.32
10.72	7.82	7.32
10.73	7.82	7.36
10.75	7.82	7.36
10.76	7.84	7.36
10.77	7.84	7.36
10.79	7.84	7.36
10.80	7.84	7.36
10.81	7.84	7.38
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10.87	7.88	7.42
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10.91	7.9	7.42
10.92	7.94	7.42
10.93	7.94	7.42
10.95	7.94	7.42
10.96	7.94	7.42
10.97	7.96	7.42
10.99	7.96	7.42
11.00	7.96	7.42
11.01	8	7.44
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11.04	8	7.44
11.05	8	7.44
11.07	8.02	7.48

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11.09	8.02	7.48
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11.13	8.08	7.54
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11.16	8.08	7.54
11.17	8.08	7.54
11.19	8.12	7.54
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11.28	8.14	7.6
11.29	8.14	7.6
11.31	8.18	7.6
11.32	8.18	7.6
11.33	8.18	7.6
11.35	8.18	7.6
11.36	8.18	7.6
11.37	8.18	7.62
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11.59	8.28	7.7
11.60	8.3	7.7
11.61	8.3	7.7
11.63	8.34	7.7
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11.68	8.36	7.7
11.69	8.36	7.7
11.71	8.36	7.72
11.72	8.36	7.72
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16.76	6.96	6.96
16.77	6.96	6.96
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16.93	7.02	6.98
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17.23	11.14	10.44
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17.25	12.32	11.38
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17.29	14.46	13.52
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17.35	18.32	17.46
17.36	19.54	18.56
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17.47	26.36	27.68
17.48	26.18	27.86
17.49	25.64	27.78
17.51	24.72	27.1
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17.53	22.18	24.96
17.55	20.3	23.32
17.56	19.1	21.28
17.57	17.02	19.92
17.59	15.68	17.66
17.60	14.1	16.48
17.61	12.76	14.5
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17.65	9.94	10.9
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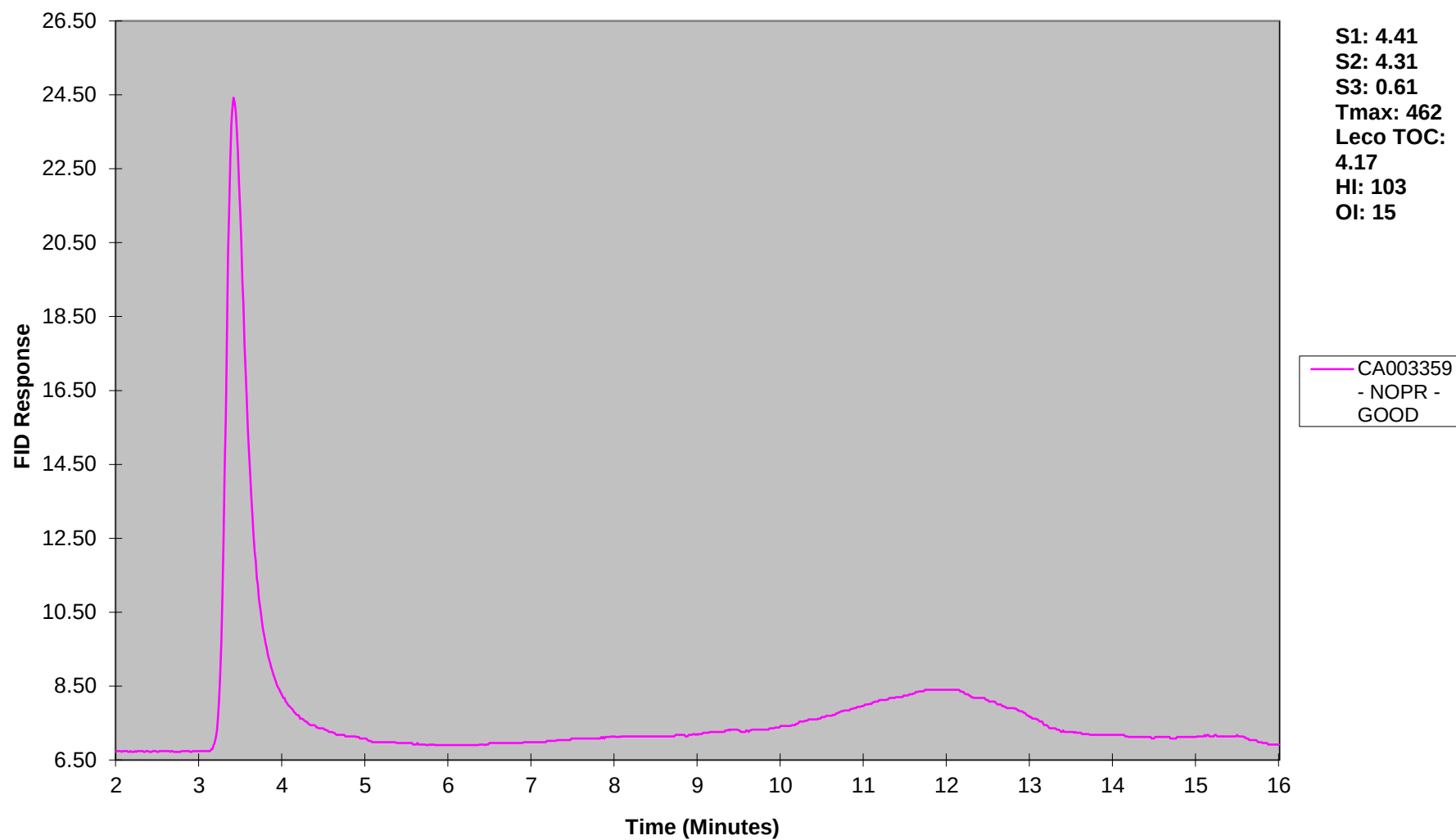
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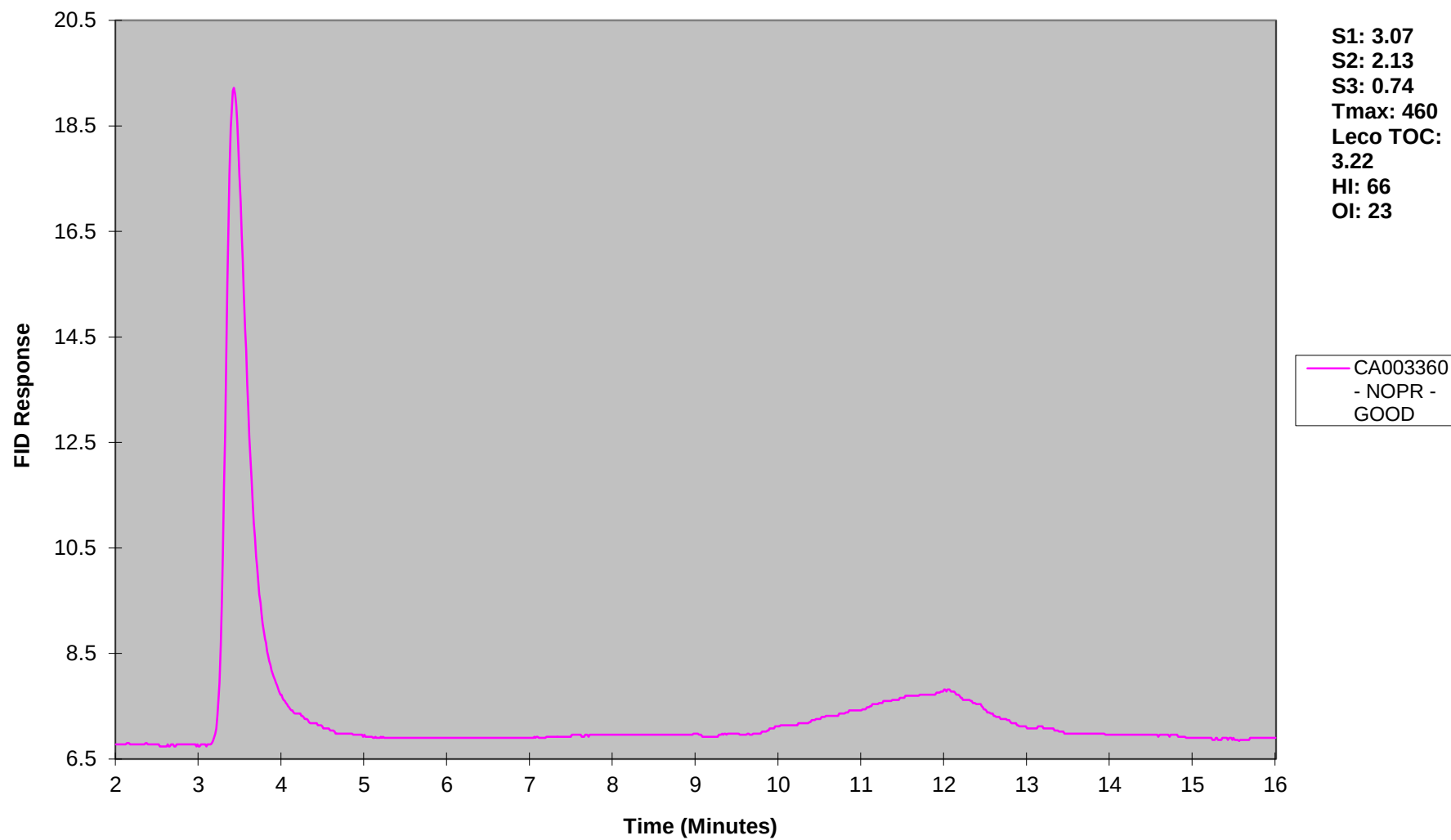
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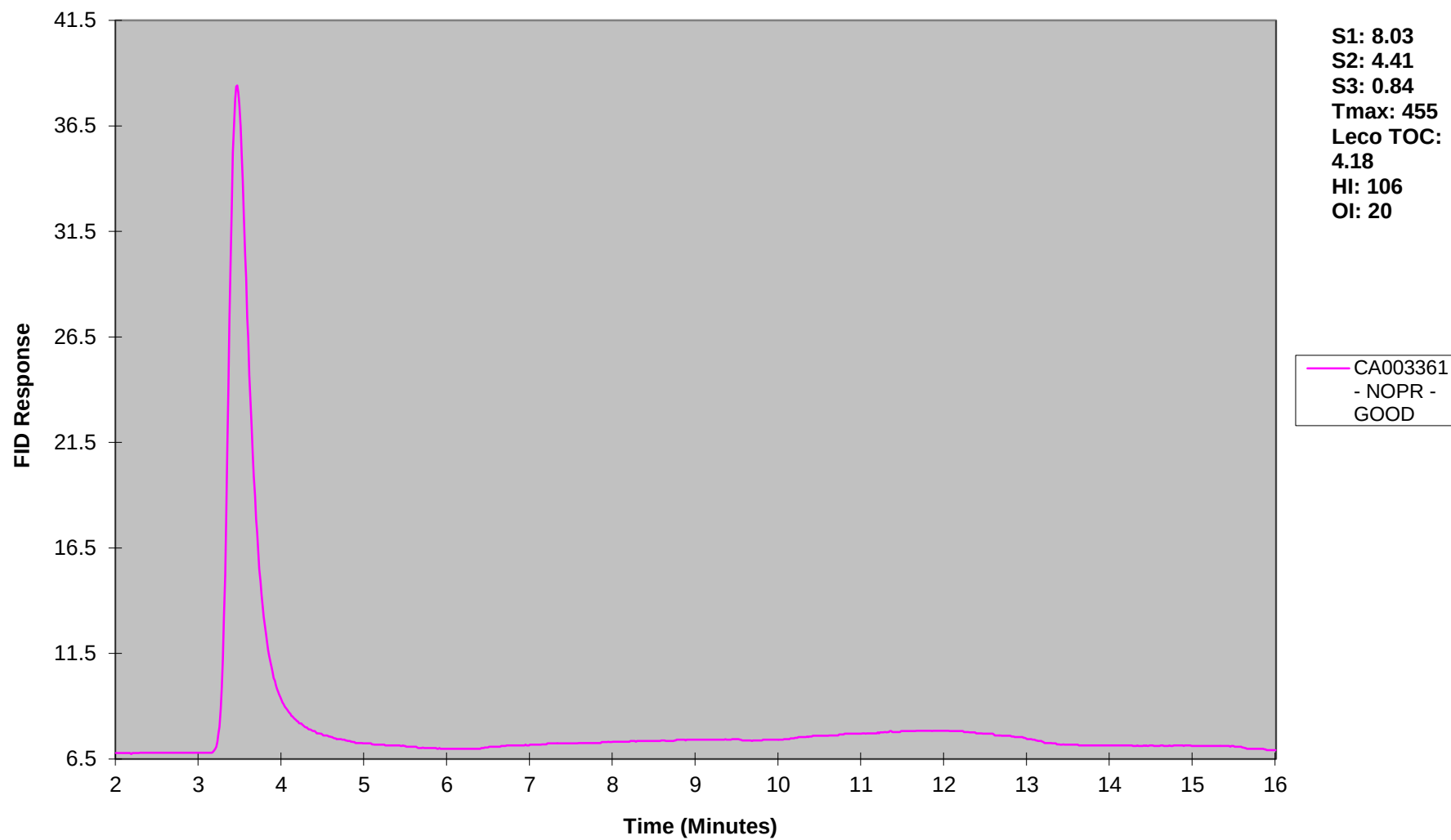
Lab ID: CP313640, Client ID: CA003359, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depths: 1716.10-1716.10



Lab ID: CP313641, Client ID: CA003360, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depths: 1740.60-1740.60



Lab ID: CP313642, Client ID: CA003361, Prep: NOPR
Well Name: COPRC LOON CREEK O-06, Depths: 1767.00-1767.00





TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
	API # : 3000066510127000	County :	BH-63684 / BH-63684

Client ID	Depth (m)	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
	Top						S1	S2	S3									Checks	Pyrogram	
CA003359	1716.1	CANOL	CORE_CHIP	NOPR		4.17	4.41	4.31	0.61	462			103	15	7.1	106	0.51	TOC RE	n:Its2sh:hts2sh	CP313640
CA003360	1740.6	CANOL	CORE_CHIP	NOPR		3.22	3.07	2.13	0.74	460			66	23	2.9	96	0.59	TOC RE	n:Its2sh:hts2sh	CP313641
CA003361	1767	CANOL	CORE_CHIP	NOPR		4.18	8.03	4.41	0.84	455			106	20	5.3	192	0.65	TOC RE	n:Its2sh:hts2sh	CP313642

Notes

"-1" - not measured or invalid value
TOC - Total Organic Carbon, wt. %
S1 - volatile hydrocarbon (HC) content, mg HC/g rock
S2 - remaining HC generative potential, mg HC/g rock
S3 - carbon dioxide content, mg CO₂/g rock

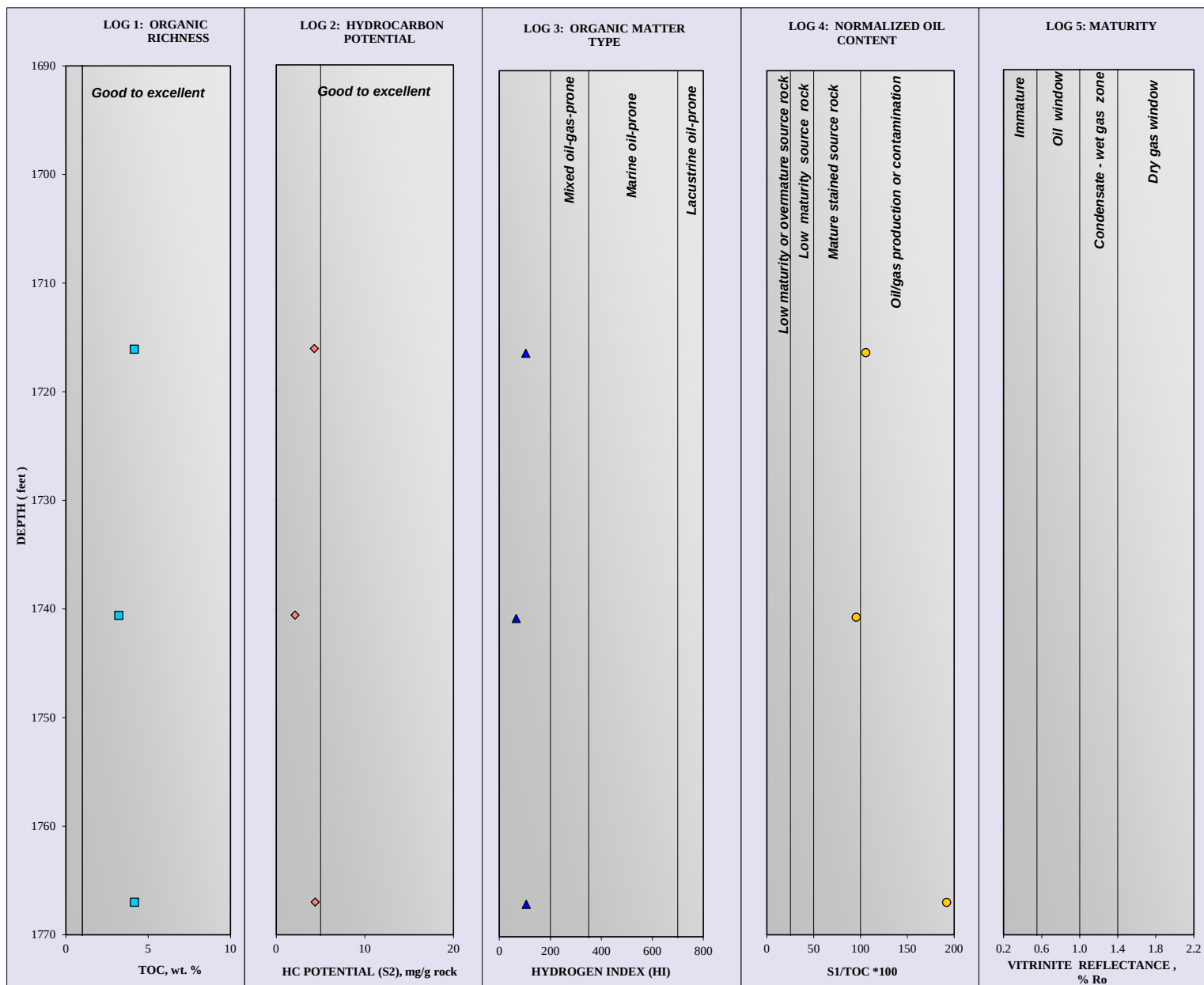
* - Sample contaminated
** - low S2, Tmax is unreliable
Meas. %Ro - measured vitrinite reflectance
HI - Hydrogen index = S2 x 100 / TOC, mg HC/g TOC
OI - Oxygen Index = S3 x 100 / TOC, mg CO₂/g TOC
PI - Production Index = S1 / (S1+S2)

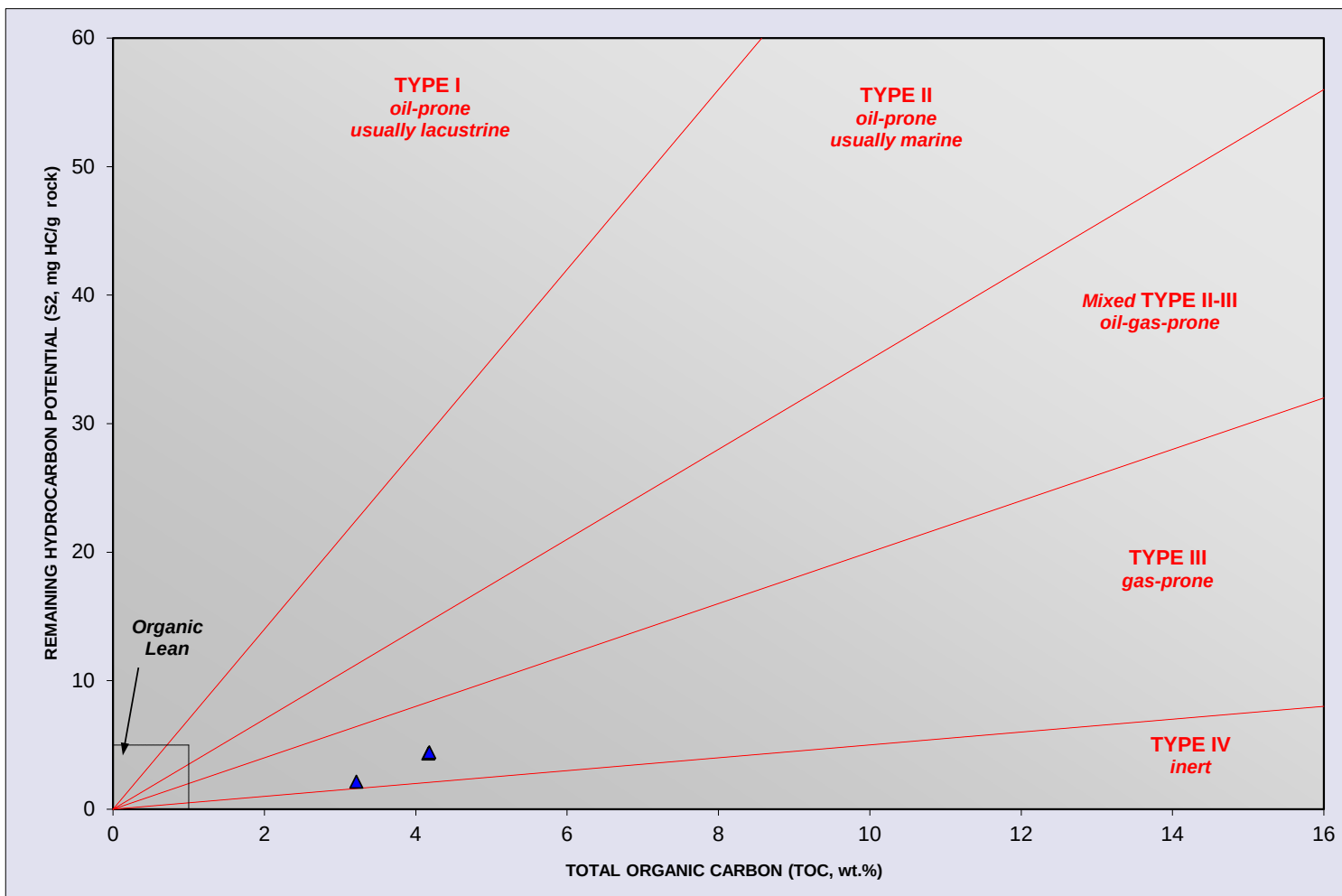
Pyrogram:
f - flat S2 peak
n - normal
Its2sh - low temperature S2 shoulder
Its2p - low temperature S2 peak
hts2p - high temperature S2 peak
LECO - TOC on LECO Instrument
SRA - Programmed Pyrolysis on SRA instrument
RE - Programmed Pyrolysis on Rock-Eval instrument
EXT - Extracted Rock
NOPR - Normal Preparation

GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63684 / BH-63684

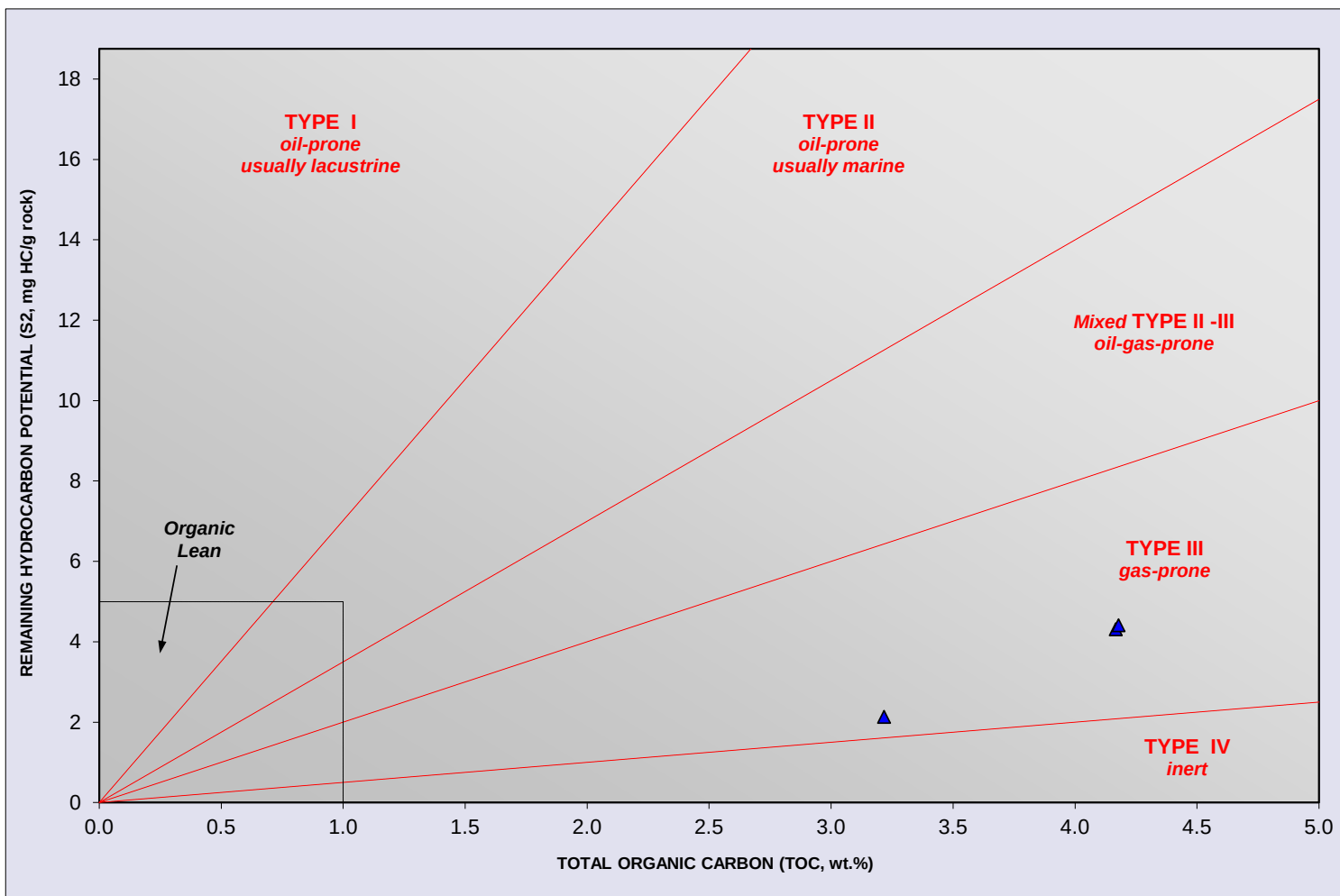




KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

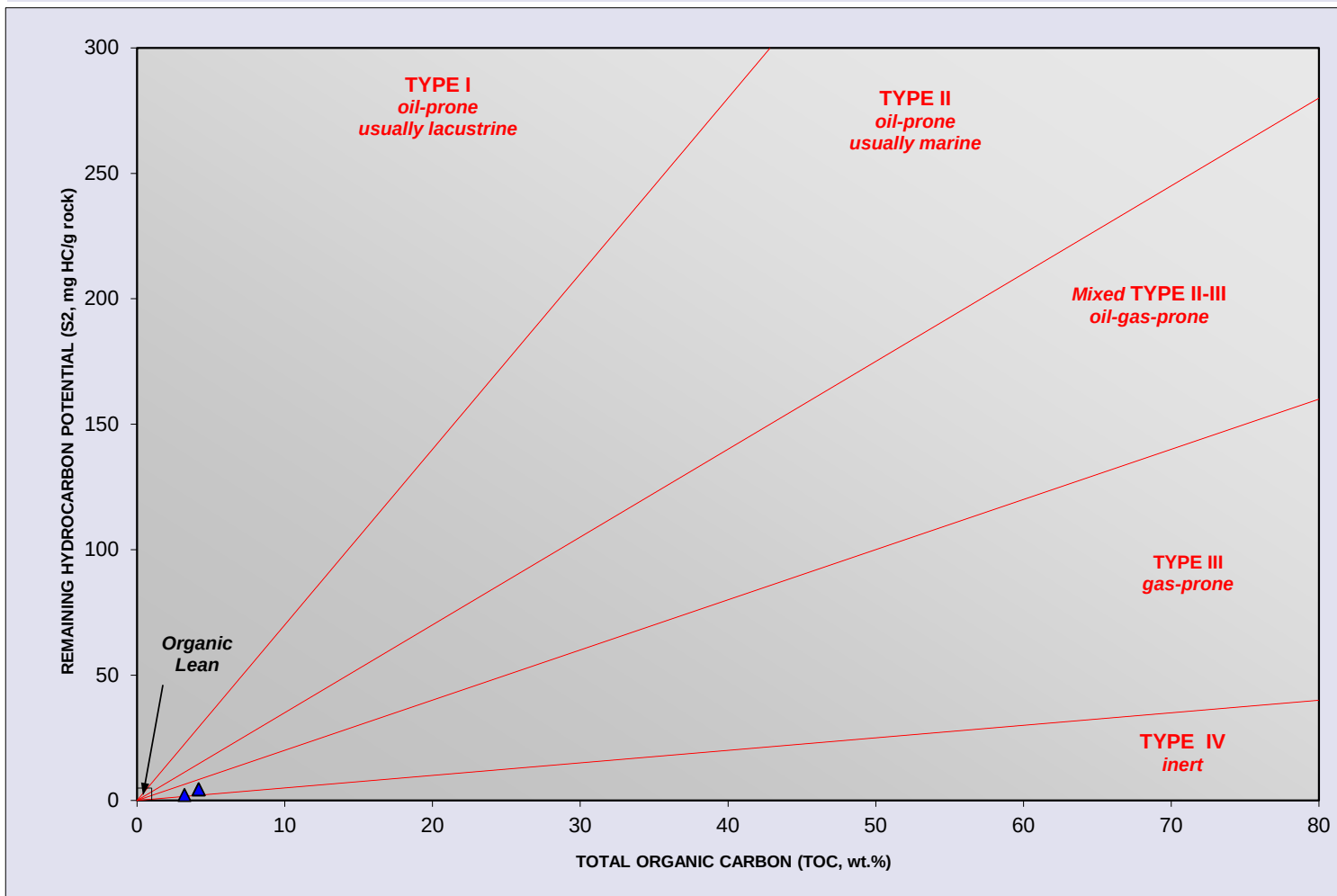
Project #: BH-63684 / BH-63684

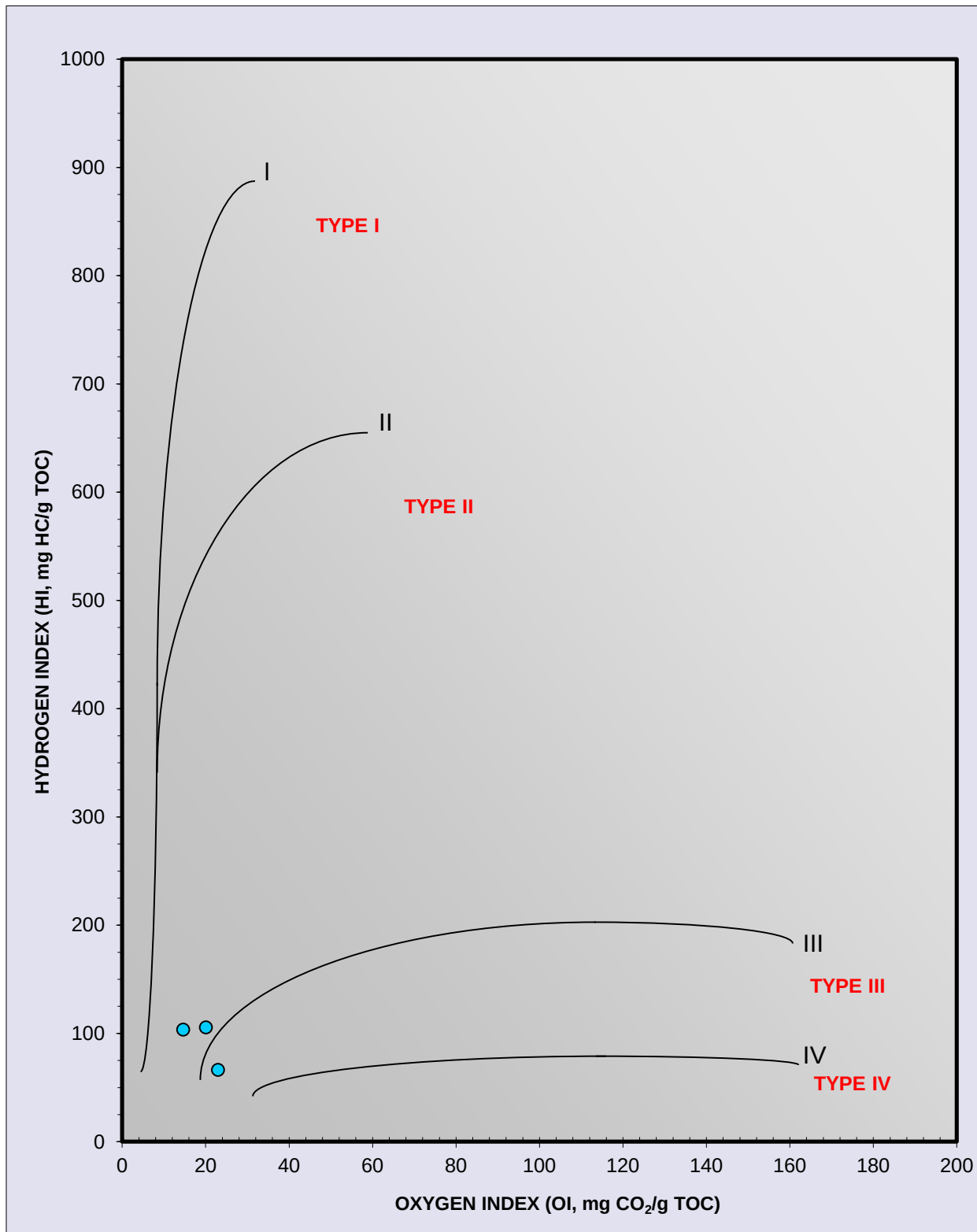


KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63684 / BH-63684

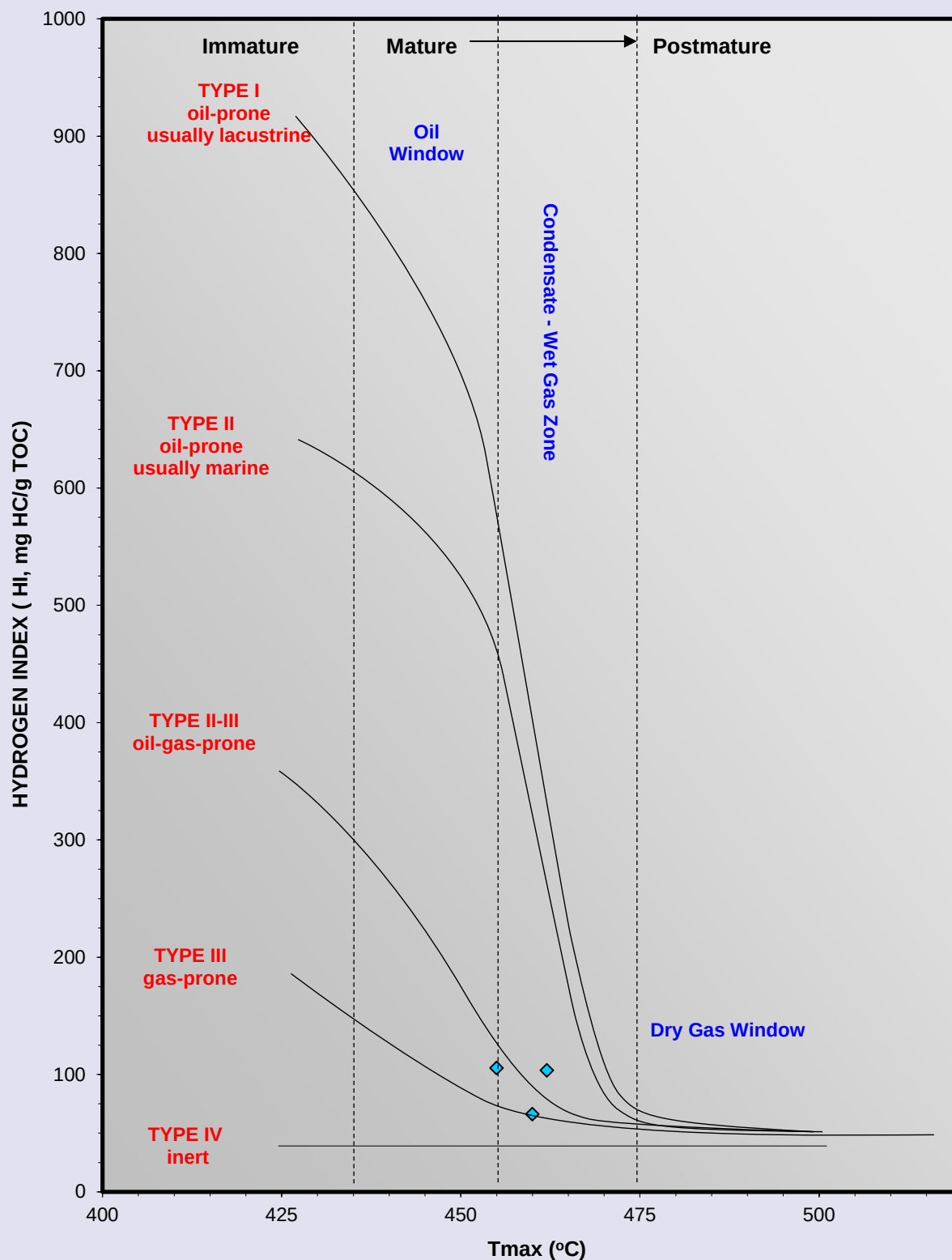




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63684 / BH-63684



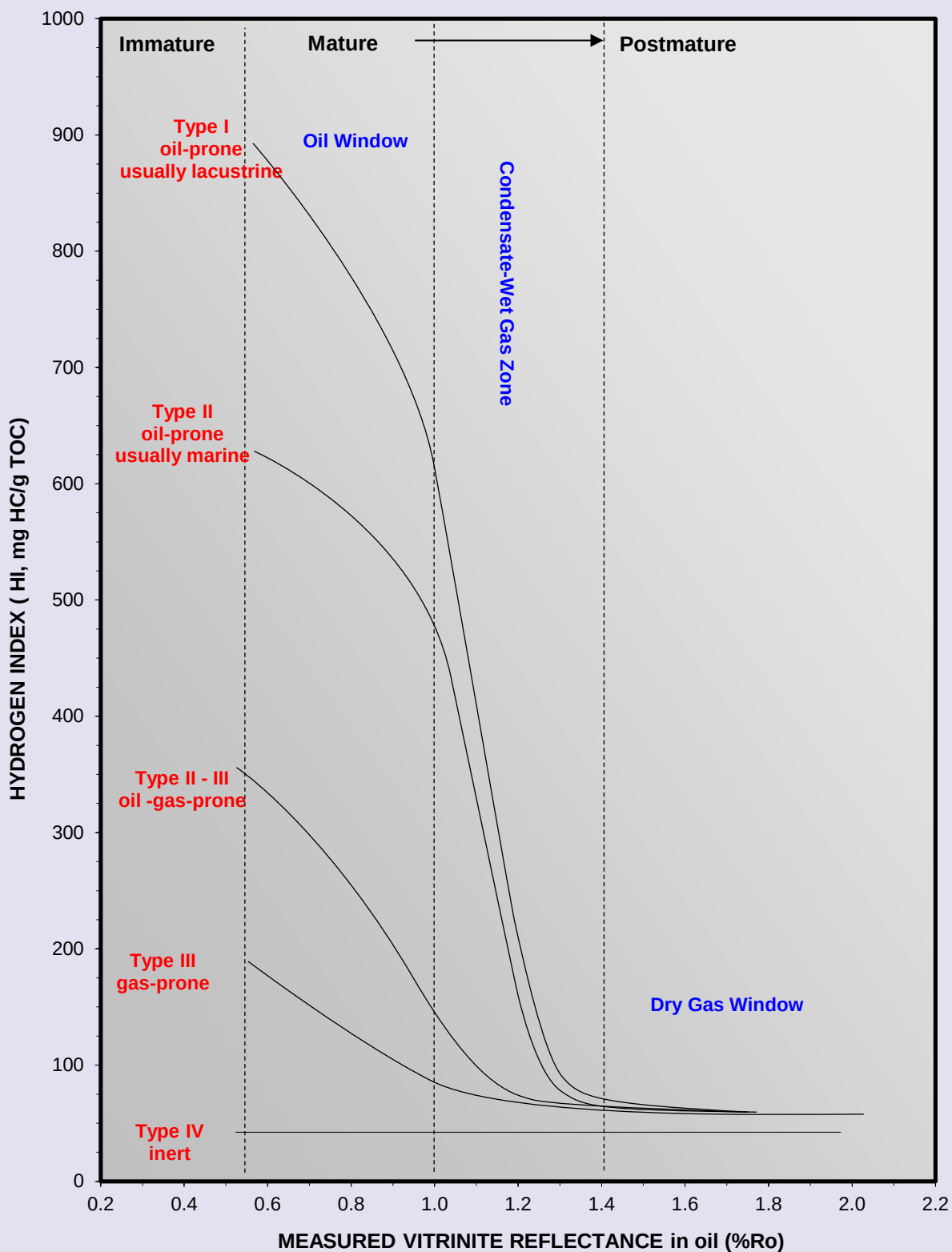


Weatherford
LABORATORIES

KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63684 / BH-63684



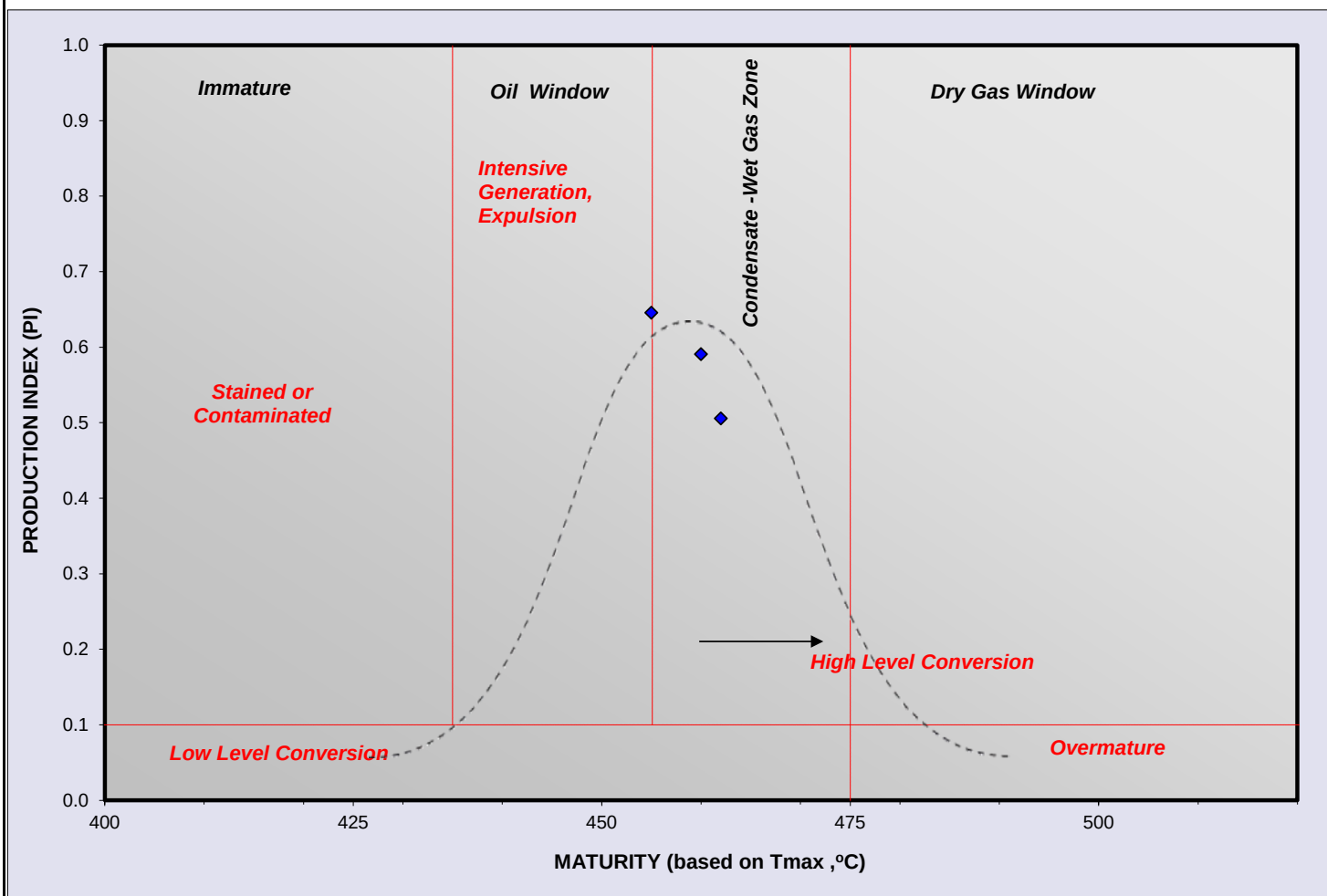


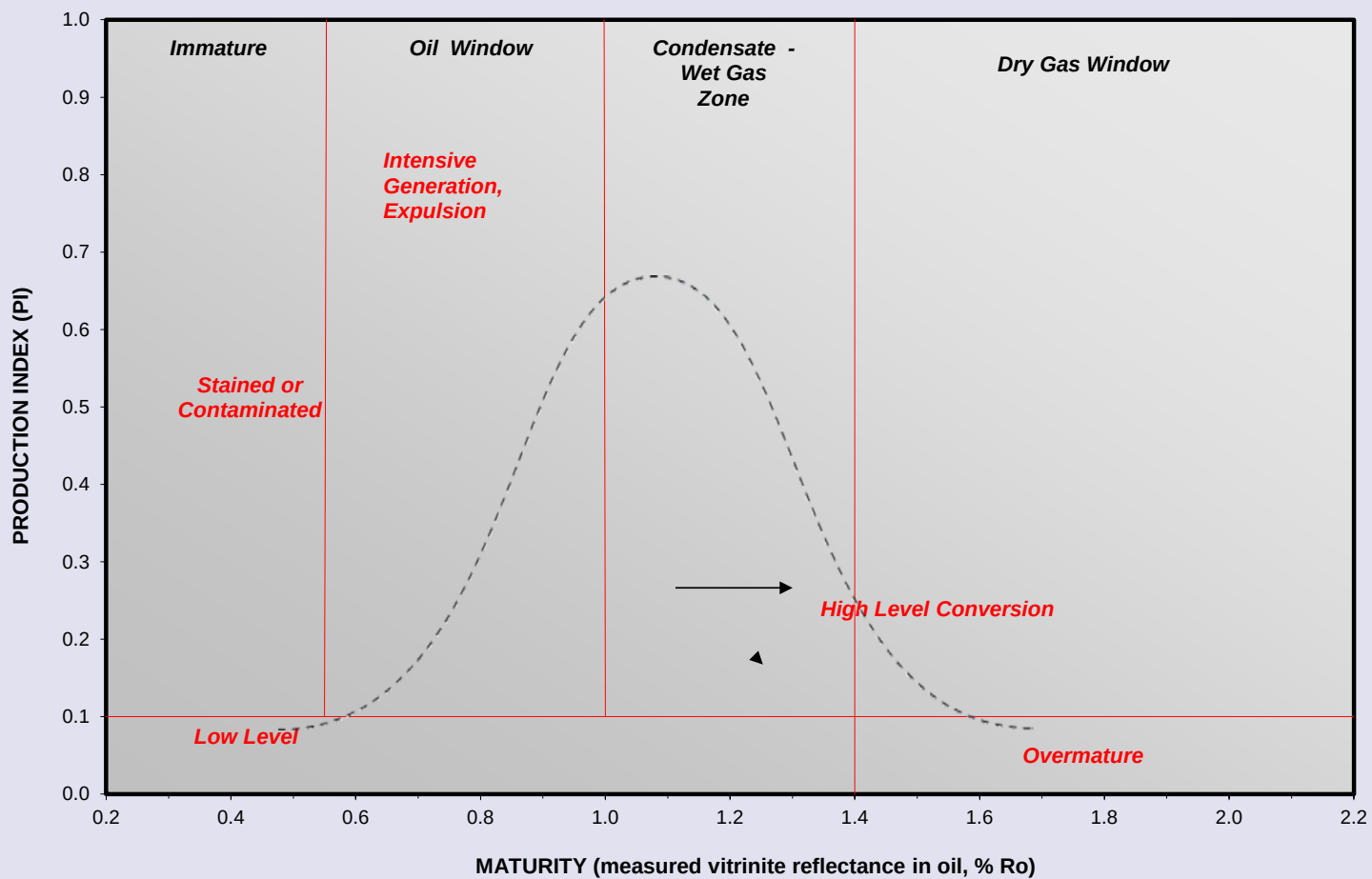
Weatherford
LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63684 / BH-63684







TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
	API # : 300O066510127000	County :	BH-63684 / BH-63684

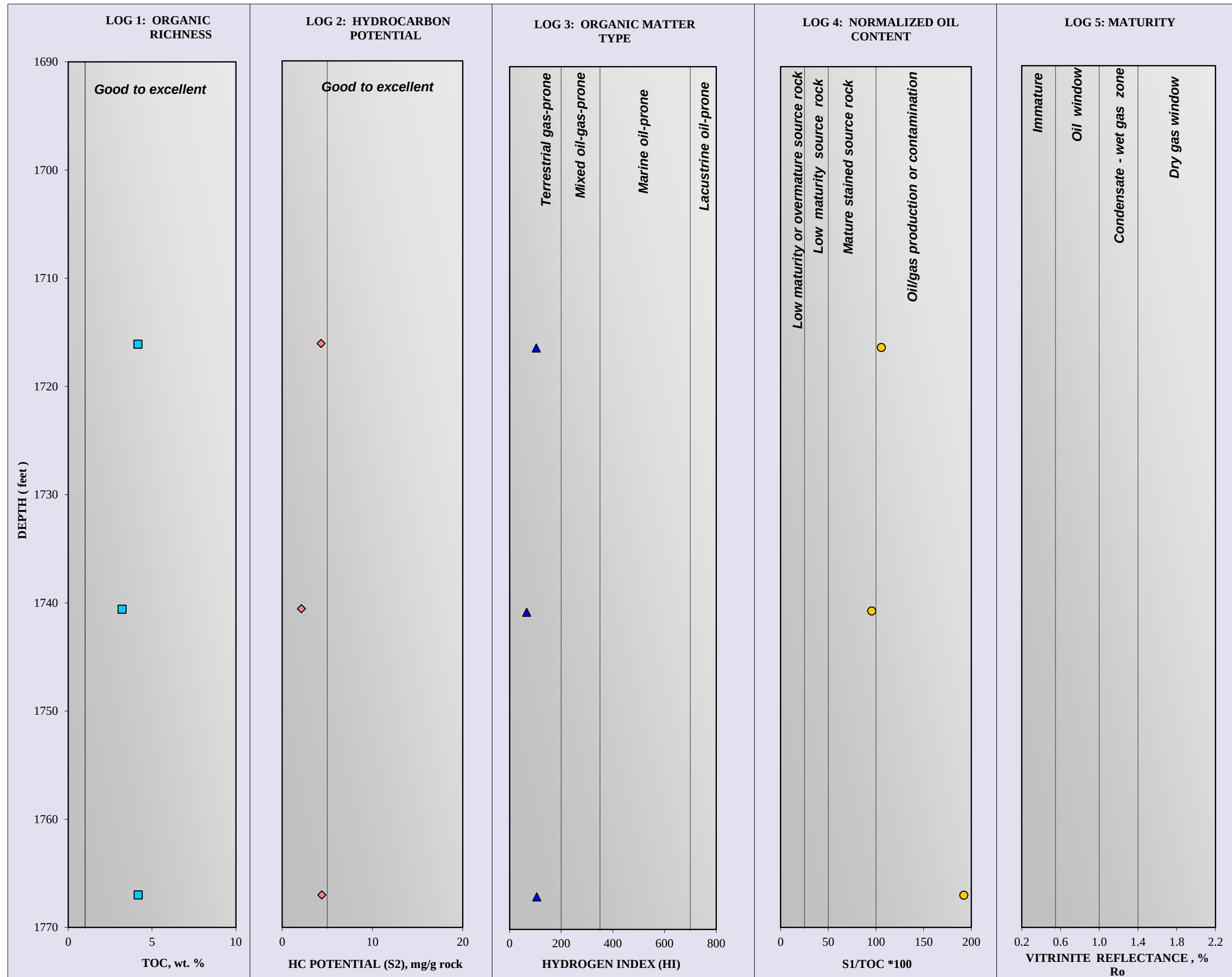
Client ID	Depth (m)	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
	Top						S1	S2	S3									Checks	Pyrogram	
CA003359	1716.1	CANOL	CORE_CHIP	NOPR		4.17	4.41	4.31	0.61	462			103	15	7.1	106	0.51	TOC RE	n:ltS2sh:htS2sh	CP313640
CA003360	1740.6	CANOL	CORE_CHIP	NOPR		3.22	3.07	2.13	0.74	460			66	23	2.9	96	0.59	TOC RE	n:ltS2sh:htS2sh	CP313641
CA003361	1767	CANOL	CORE_CHIP	NOPR		4.18	8.03	4.41	0.84	455			106	20	5.3	192	0.65	TOC RE	n:ltS2sh:htS2sh	CP313642

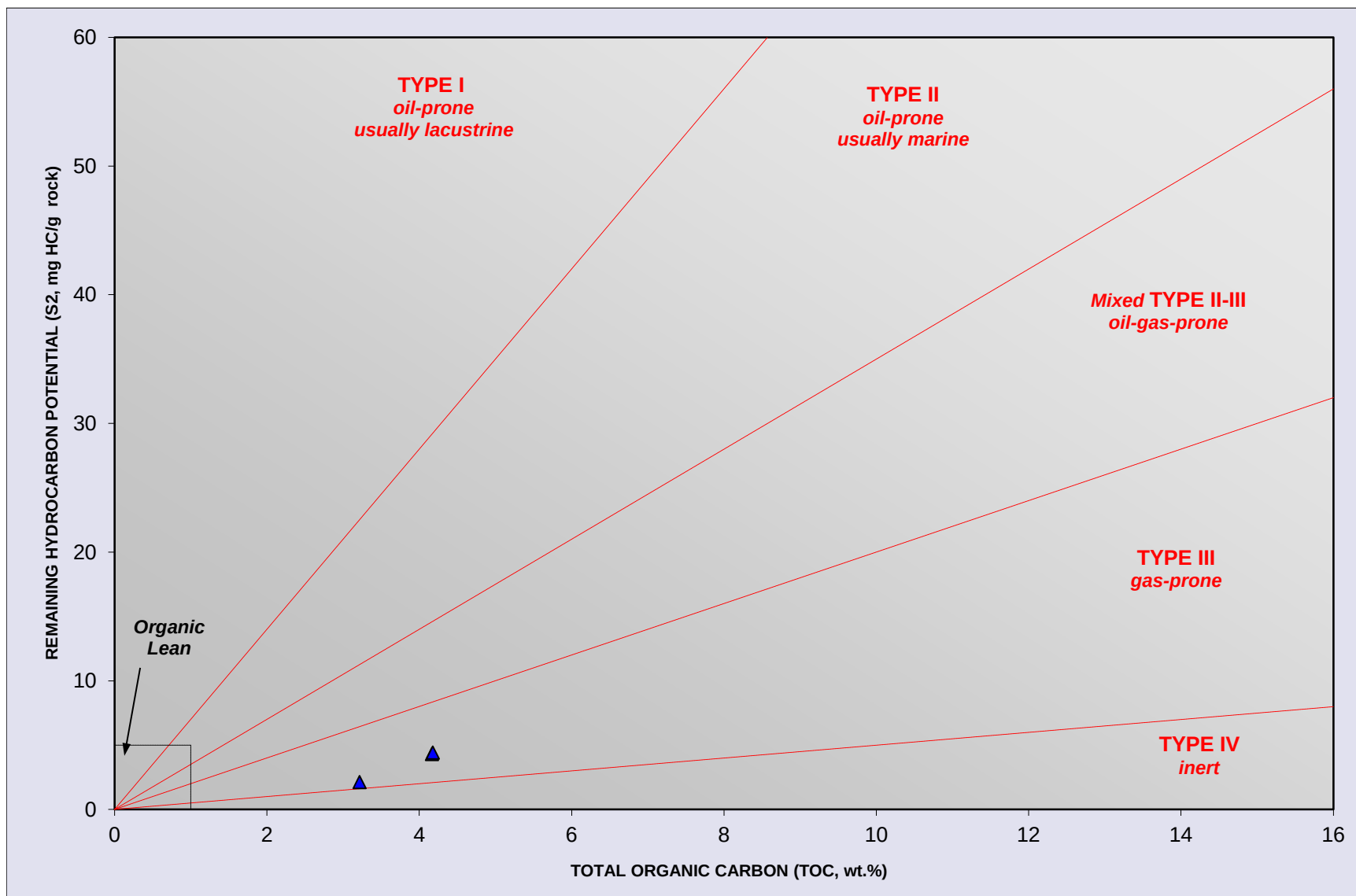
Notes:																			
"-1" – not measured or invalid value						* - Sample contaminated						Pyrogram:							
TOC - Total Organic Carbon, wt. %						** - low S2, Tmax is unreliable						f - flat S2 peak						LECO - TOC on LECO Instrument	
S1 - volatile hydrocarbon (HC) content, mg HC/ g rock						Meas. %Ro - measured vitrinite reflectance						n - normal						SRA - Programmed Pyrolysis on SRA instrument	
S2 - remaining HC generative potential, mg HC/ g rock						HI - Hydrogen index = S2 x 100 / TOC, mg HC/ g TOC						ltS2sh - low temperature S2 shoulder						RE - Programmed Pyrolysis on Rock-Eval instrument	
S3 - carbon dioxide content, mg CO ₂ / g rock						OI - Oxygen Index = S3 x 100 / TOC, mg CO ₂ / g TOC						ltS2p - low temperature S2 peak						EXT - Extruded Rock	
						PI - Production Index = S1 / (S1+S2)						htS2p - high temperature S2 peak						NOPR - Normal Preparation	

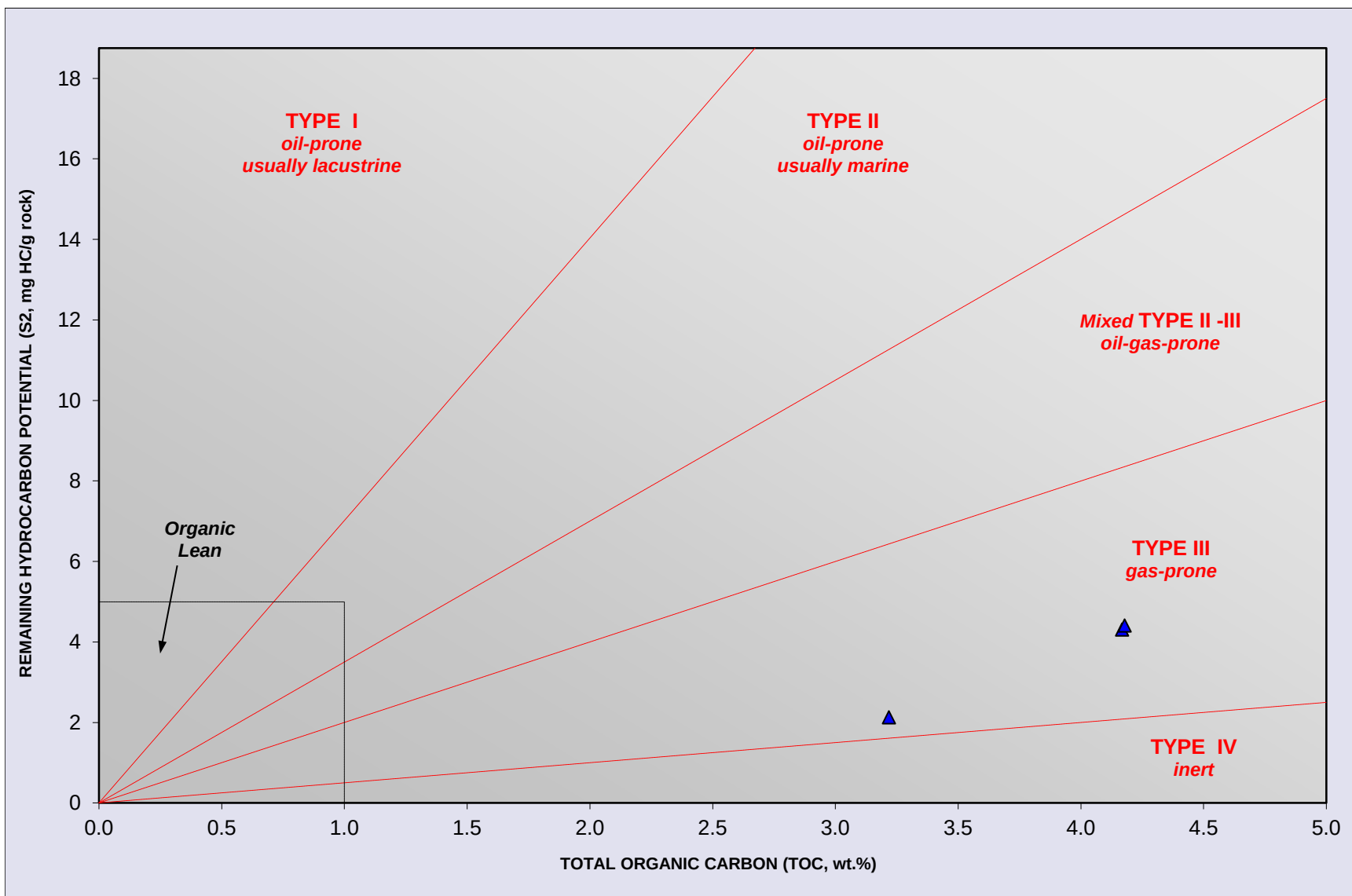
GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

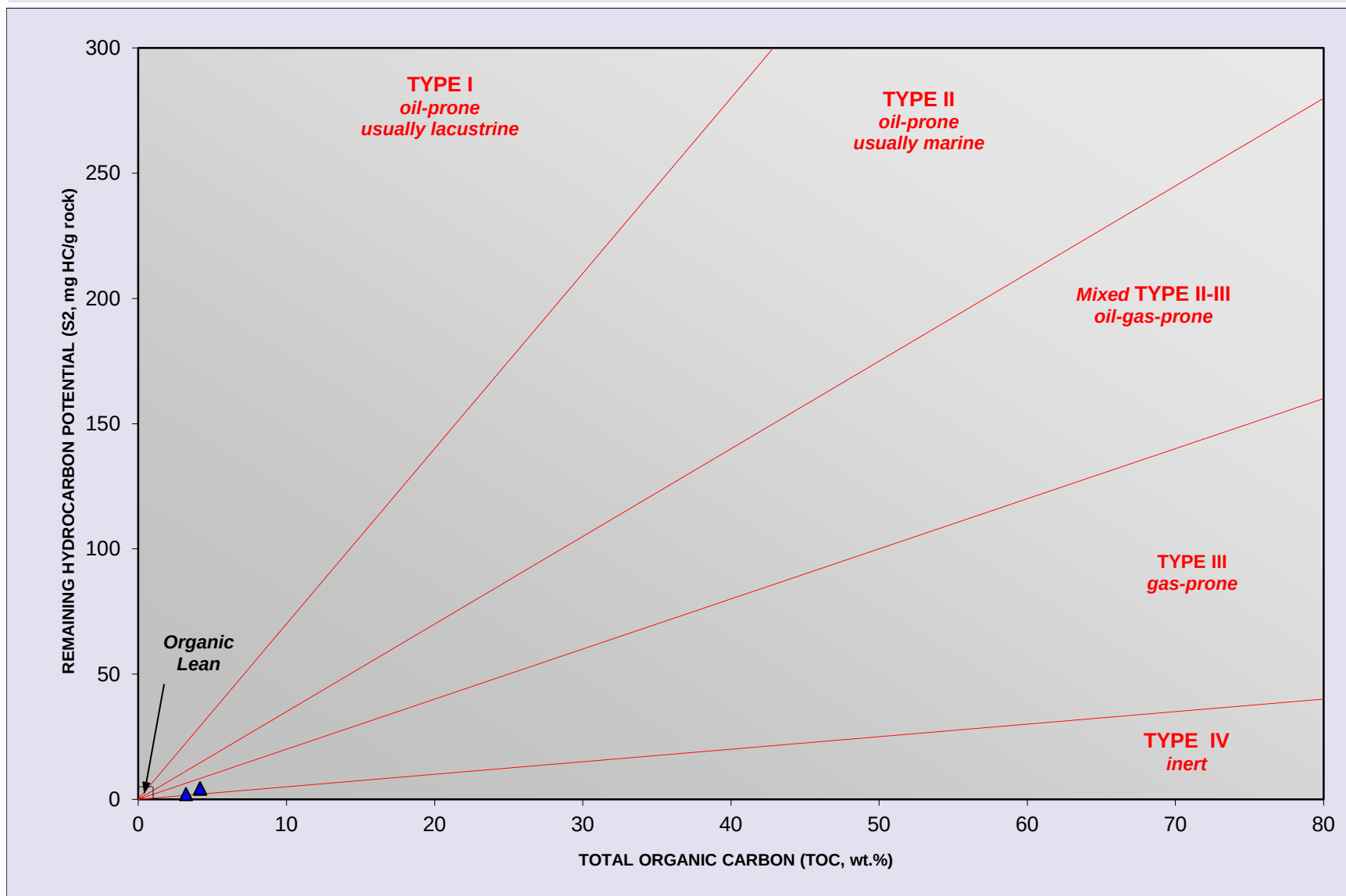
Company: CONOCOPHILLIPS

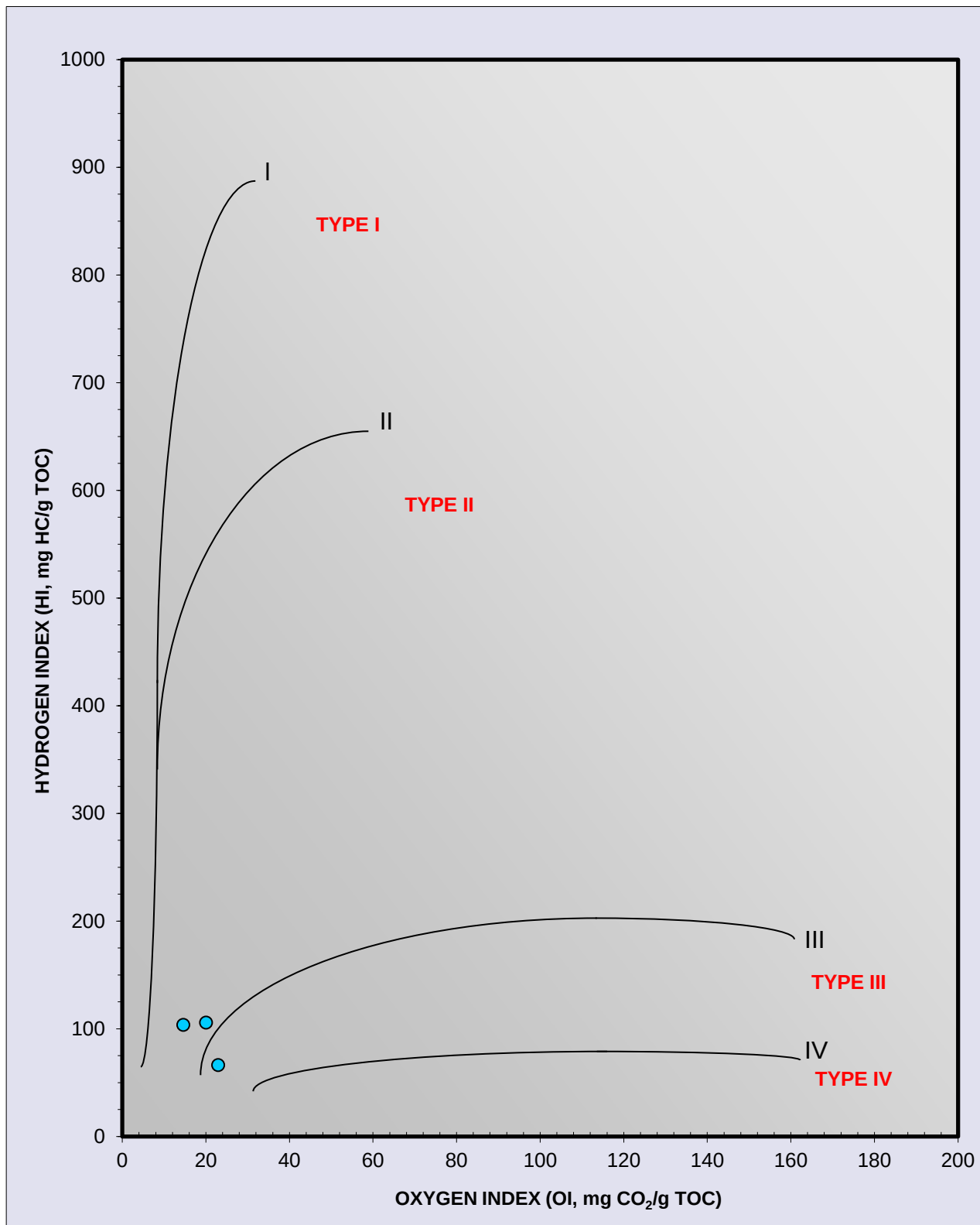
Project #: BH-63684 / BH-63684







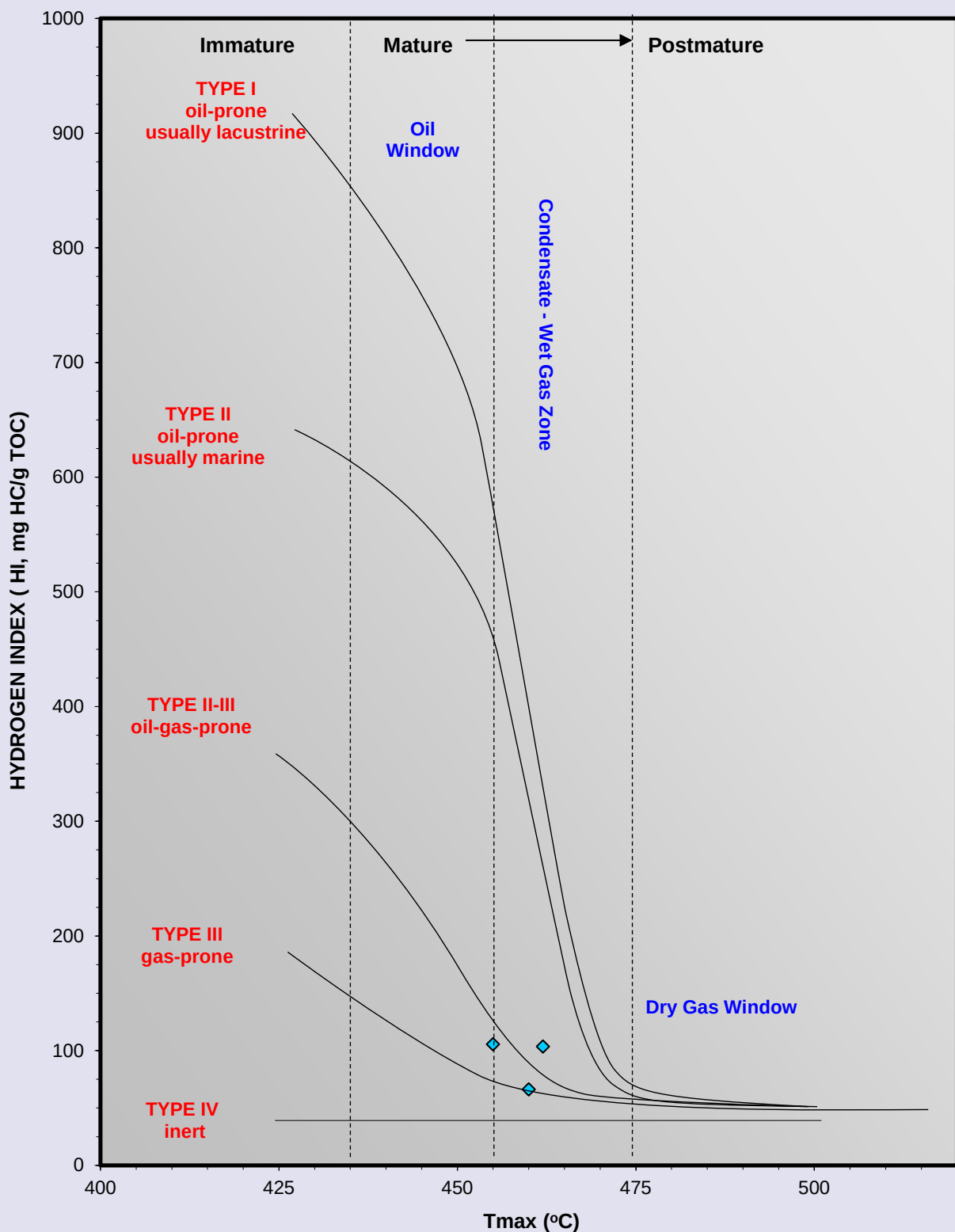




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

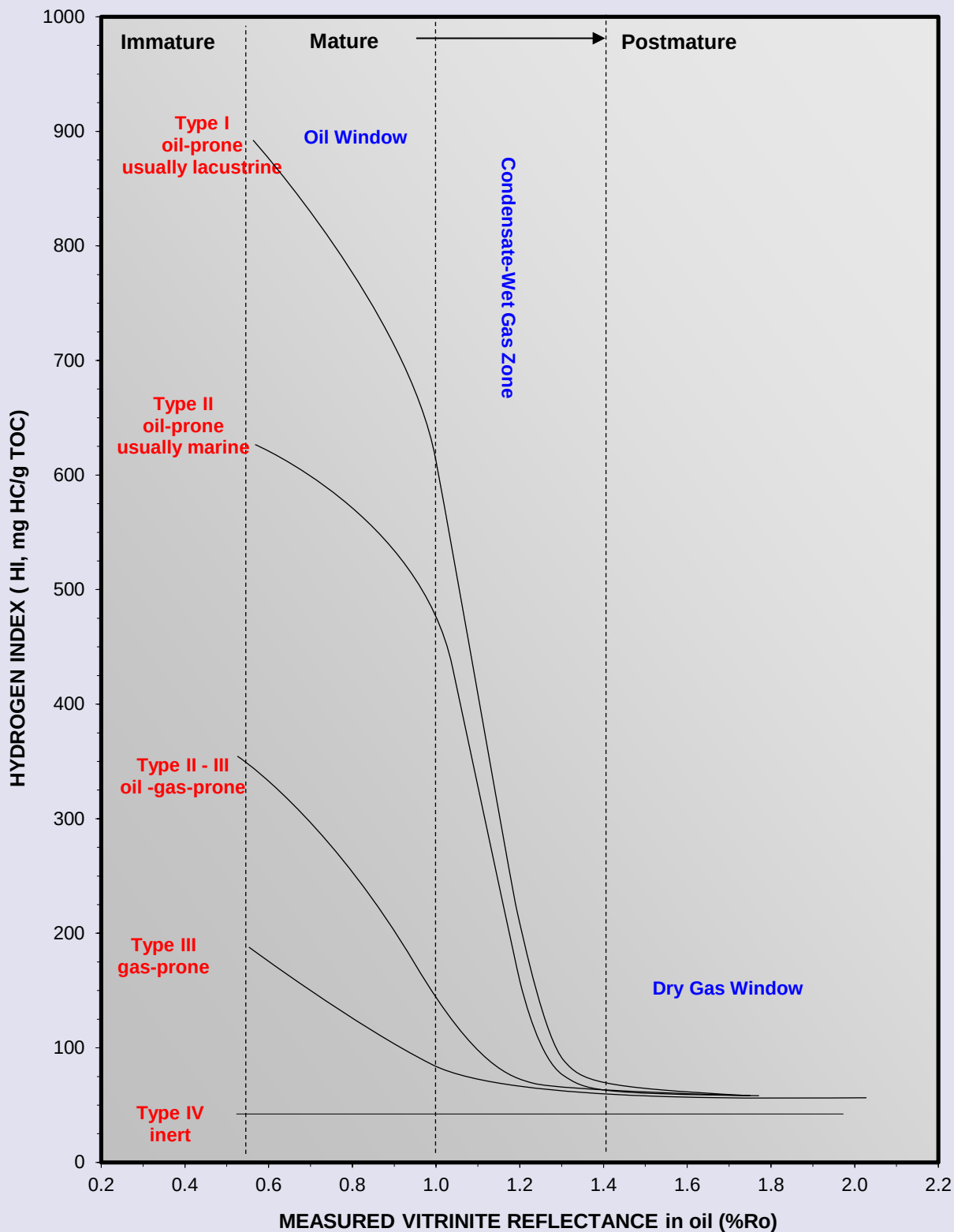
Project #: BH-63684 / BH-63684



KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63684 / BH-63684



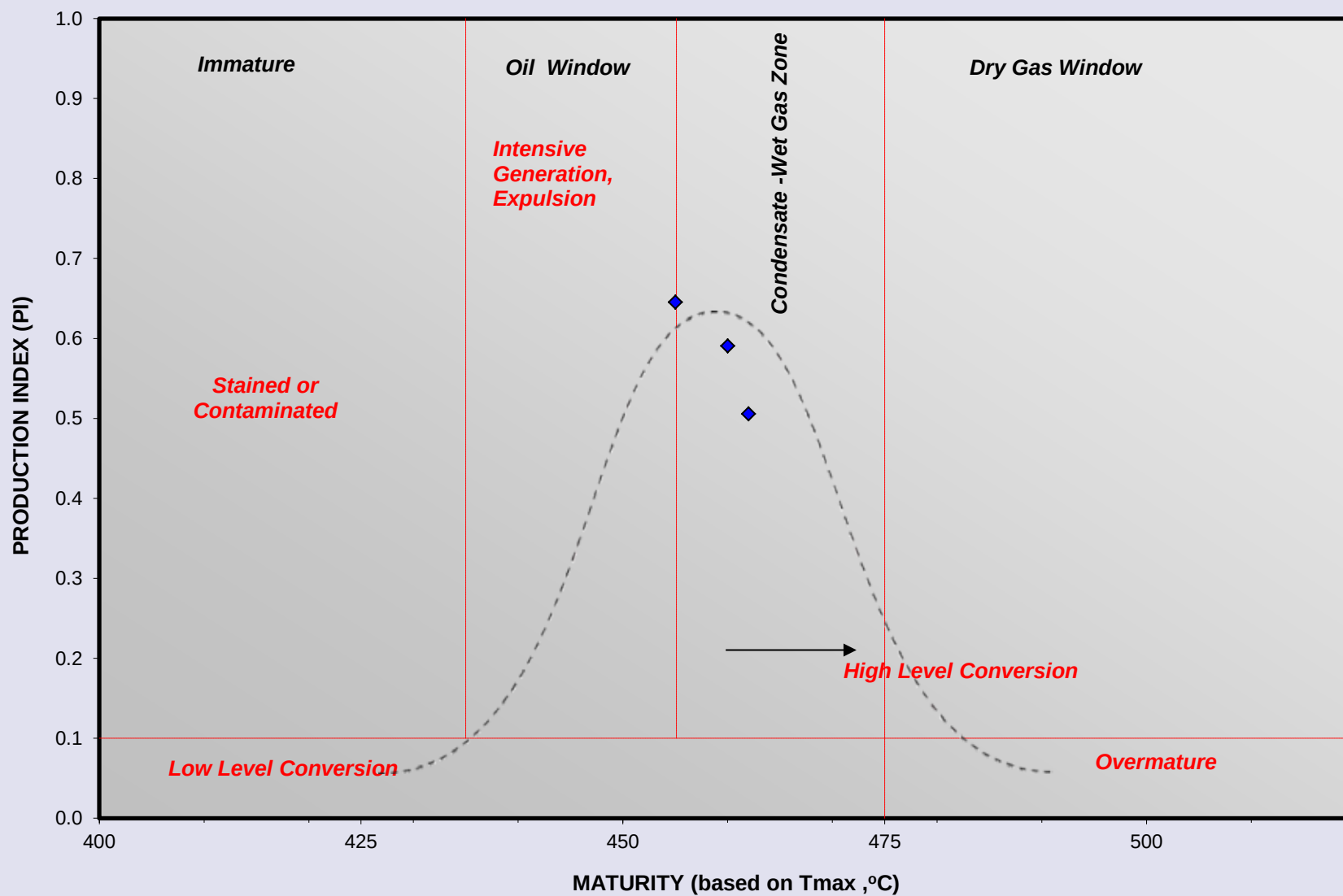


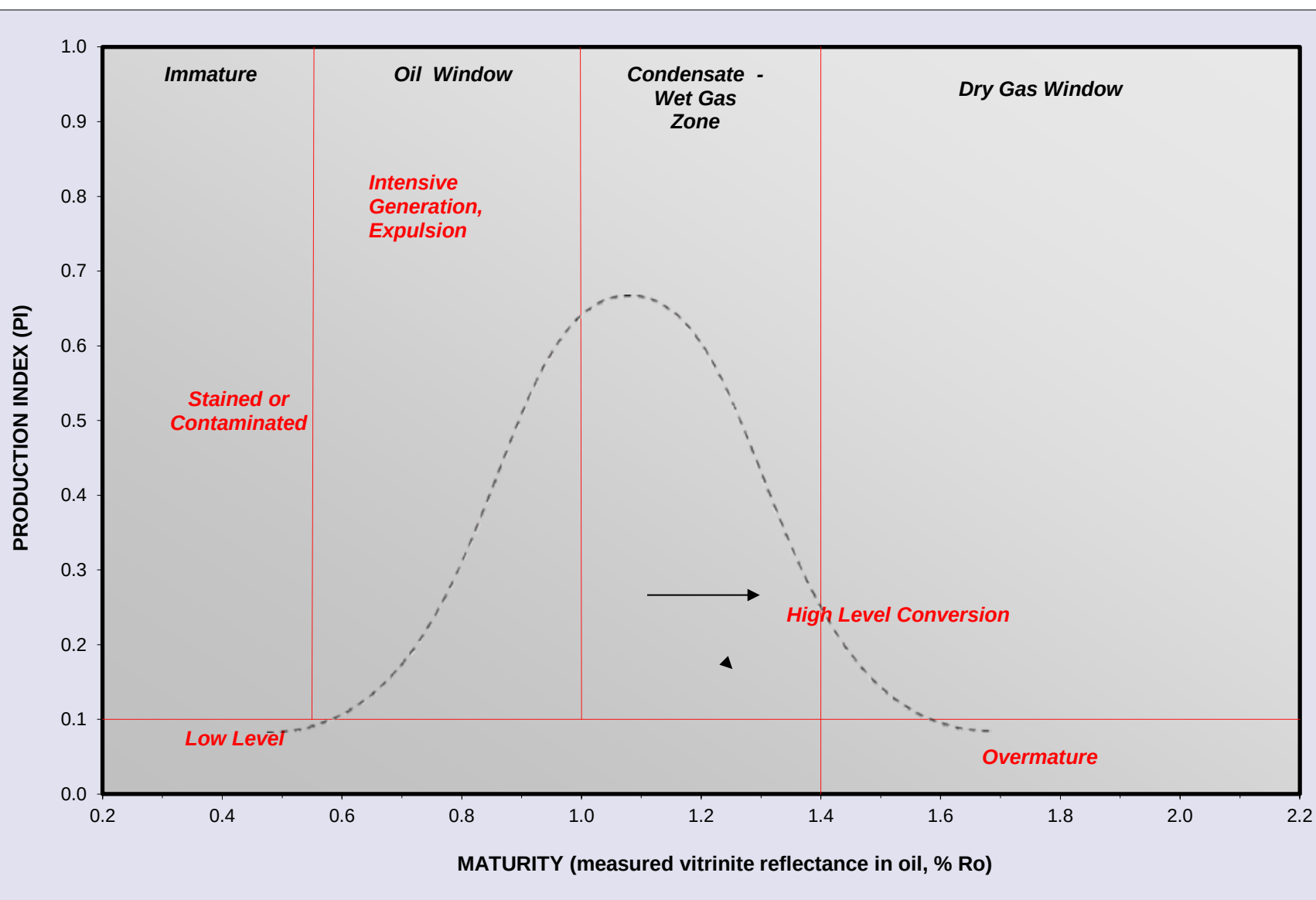
Weatherford
LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63684 / BH-63684







TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
	API # : 300O066510127000	County :	BH-63173 / BH-63173

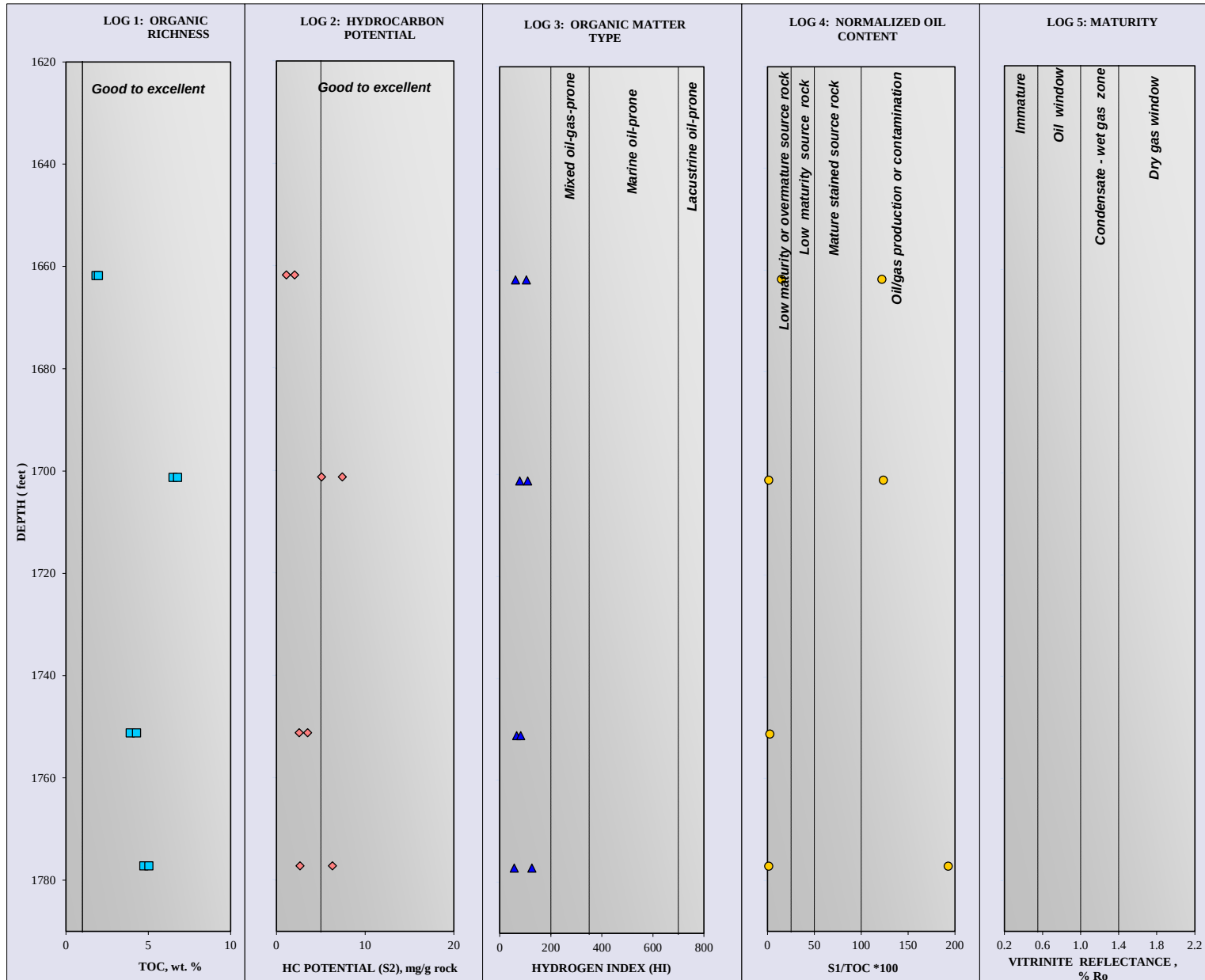
Client ID	Depth (m)	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC	PI	Notes		Lab ID
	Top						S1	S2	S3									Checks	Pyrogram	
CA003727	1661.8	UPPER CANOL	Core Chip	EXT		1.83	0.27	1.13	0.43	459			62	23	2.6	15	0.19	TOC RE	n:hts2p:hts2sh	CP315956
CA003727	1661.8	UPPER CANOL	Core Chip	NOPR		1.98	2.42	2.06	0.55	453			104	28	3.7	122	0.54		n:hts2p:hts2sh	CP315956
CA003728	1701.3	LOWER CANOL	Core Chip	EXT		6.51	0.08	5.09	0.11	468			78	2	46.3	1	0.02	TOC	hts2p:hts2sh	CP315957
CA003728	1701.3	LOWER CANOL	Core Chip	NOPR		6.79	8.39	7.43	0.84	468			109	12	8.8	124	0.53	RE	hts2p:hts2sh	CP315957
CA003729	1751.2	LOWER CANOL	Core Chip	EXT		3.91	0.10	2.58	0.09	474			66	2	28.7	3	0.04	TOC	hts2p:hts2sh	CP315958
CA003729	1751.2	LOWER CANOL	Core Chip	NOPR		4.29	9.20	3.52	1.26	476			82	29	2.8	215	0.72	TOC	hts2p:hts2sh	CP315958
CA003730	1777.2	LOWER CANOL	Core Chip	EXT		4.74	0.06	2.67	0.10	481			56	2	26.7	1	0.02	TOC RE	hts2p:hts2sh	CP315959
CA003730	1777.2	LOWER CANOL	Core Chip	NOPR		5.04	9.73	6.33	1.03	463			126	20	6.1	193	0.61	RE	hts2p:hts2sh	CP315959

Notes:		
"1" - not measured or invalid value	* - Sample contaminated	Pyrogram:
TOC - Total Organic Carbon, wt. %	** - low S2, Tmax is unreliable	f - flat S2 peak
S1 - volatile hydrocarbon (HC) content, mg HC/g rock	Meas. %Ro - measured vitrinite reflectance	n - normal
S2 - remaining HC generative potential, mg HC/g rock	HI - Hydrogen Index = S2 x 100 / TOC, mg HC/g TOC	hts2sh - low temperature S2 shoulder
S3 - carbon dioxide content, mg CO ₂ /g rock	OI - Oxygen Index = S3 x 100 / TOC, mg CO ₂ /g TOC	hts2p - low temperature S2 peak
	PI - Production Index = S1 / (S1+S2)	hts2p - high temperature S2 peak
		LECO - TOC on LECO Instrument
		SRA - Programmed Pyrolysis on SRA instrument
		RE - Programmed Pyrolysis on Rock-Eval instrument
		EXT - Extruded Rock
		NOPR - Normal Preparation

GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

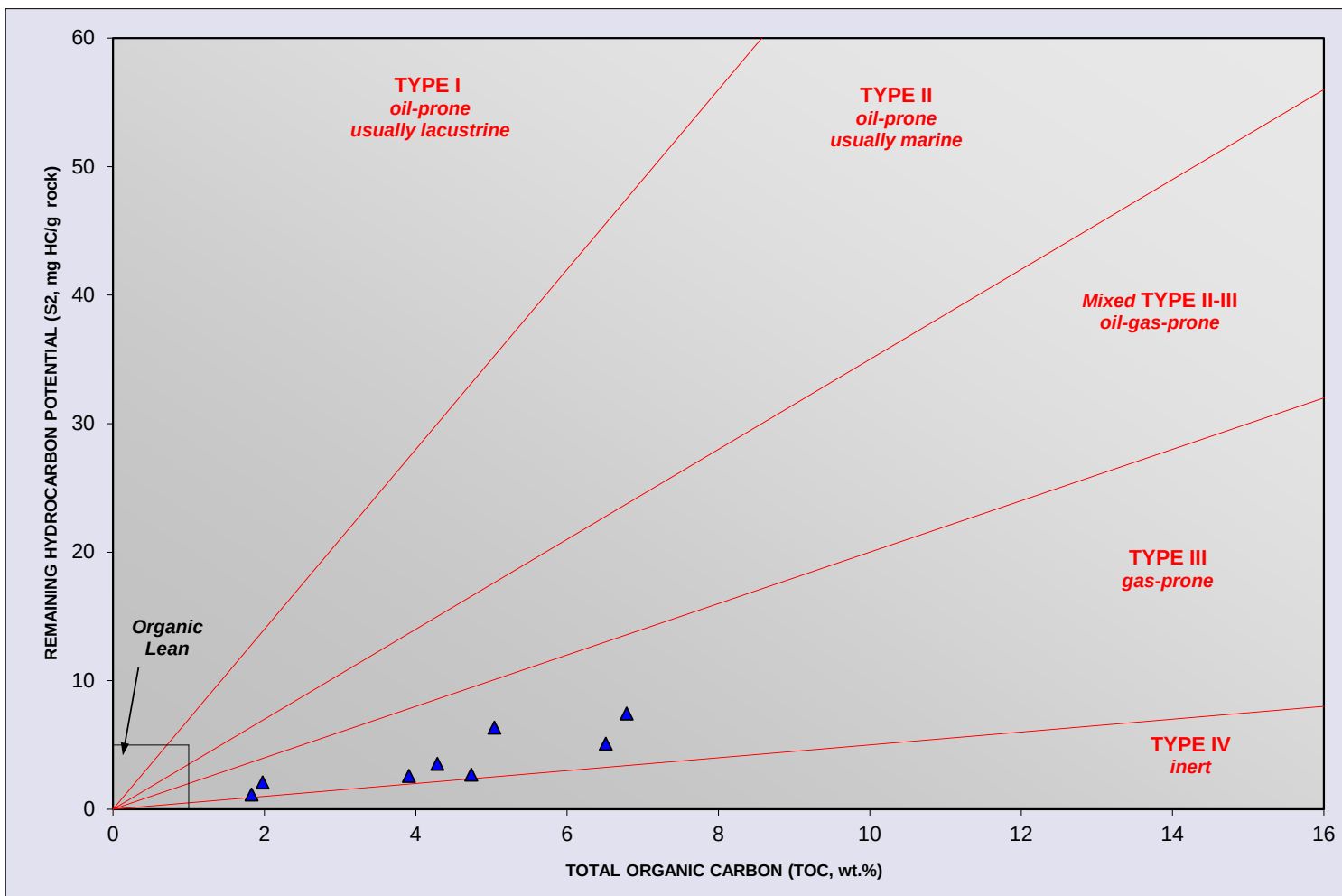
Project #: BH-63173 / BH-63173



KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

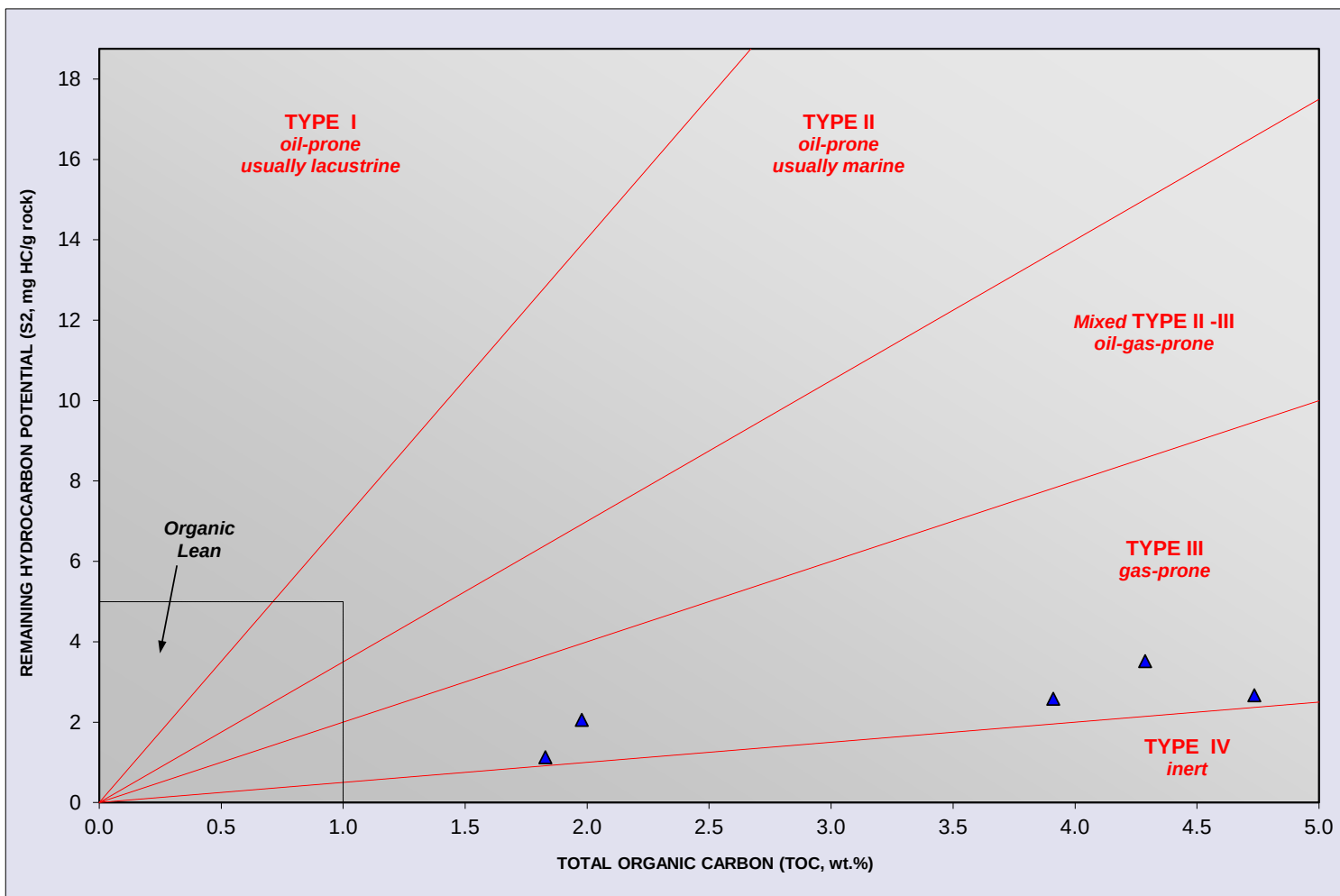
Project #: BH-63173 / BH-63173



KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

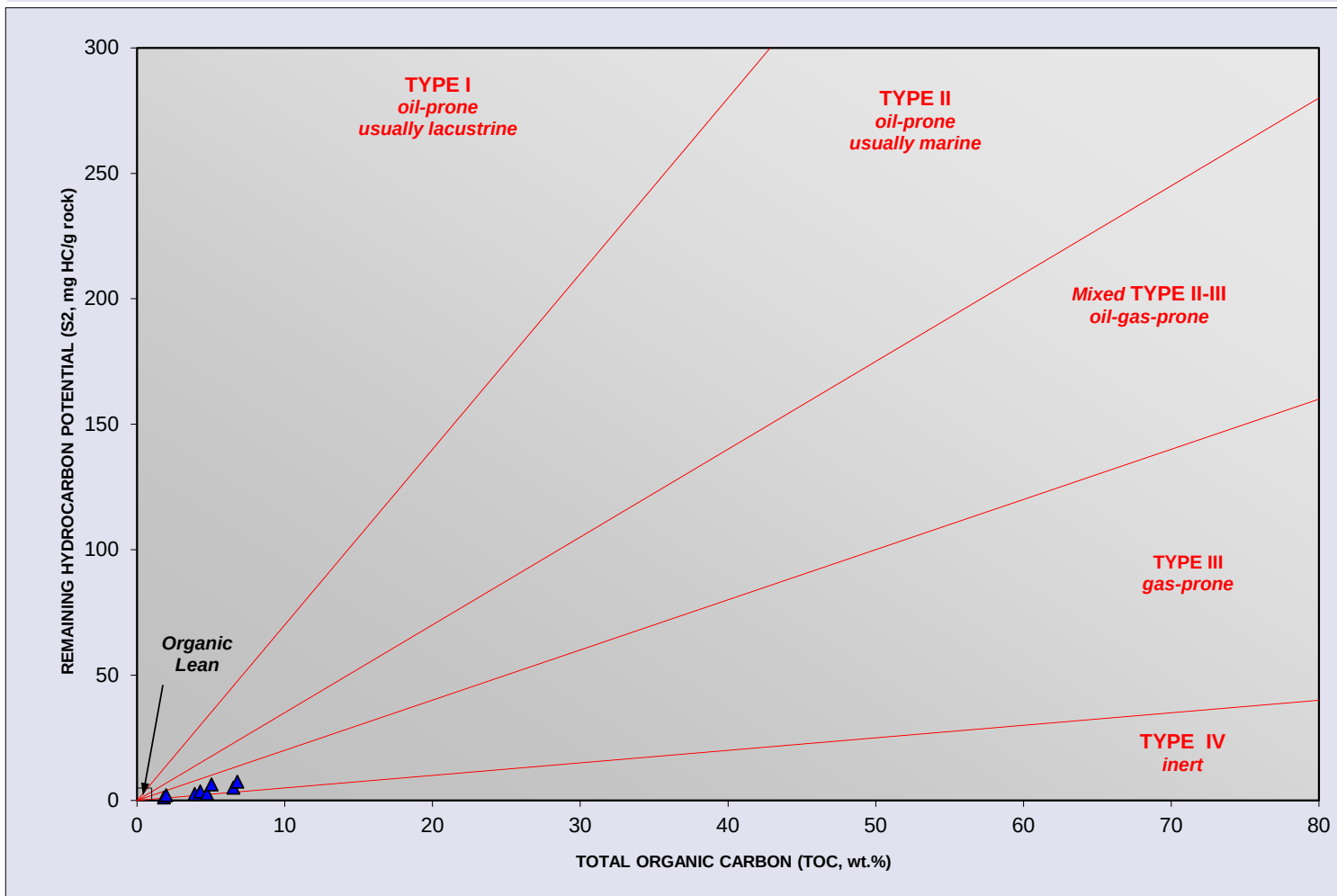
Project #: BH-63173 / BH-63173

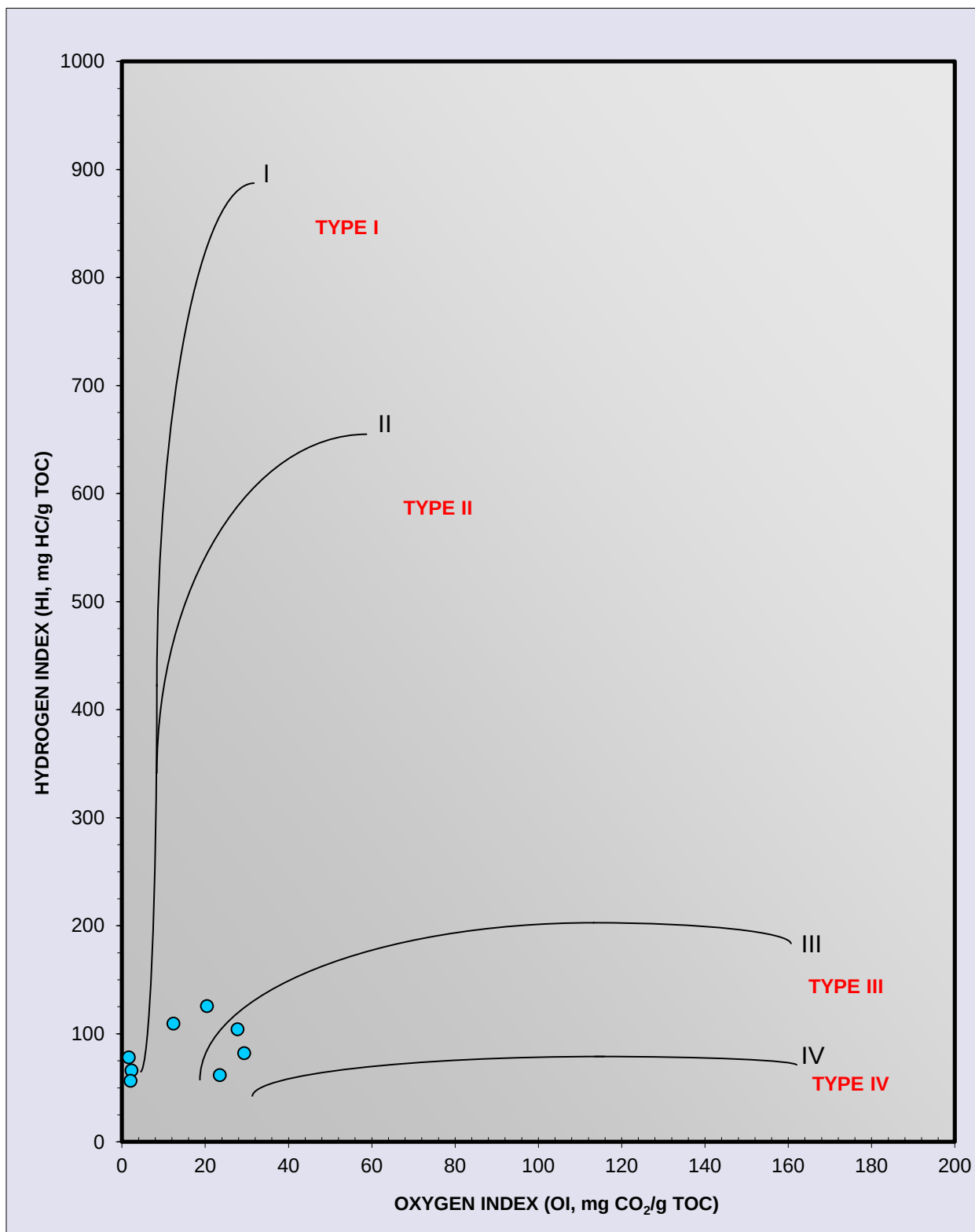


KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

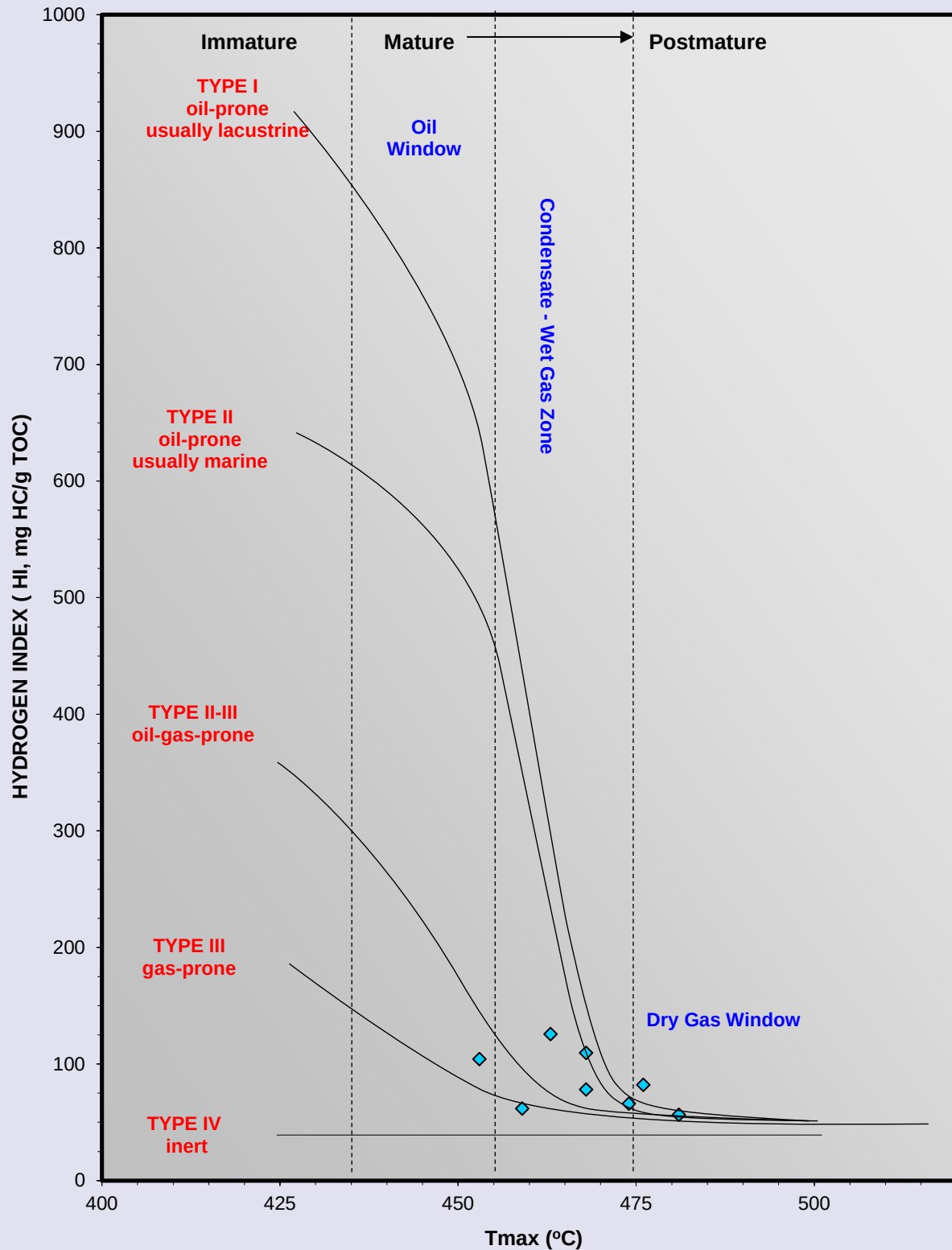




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173



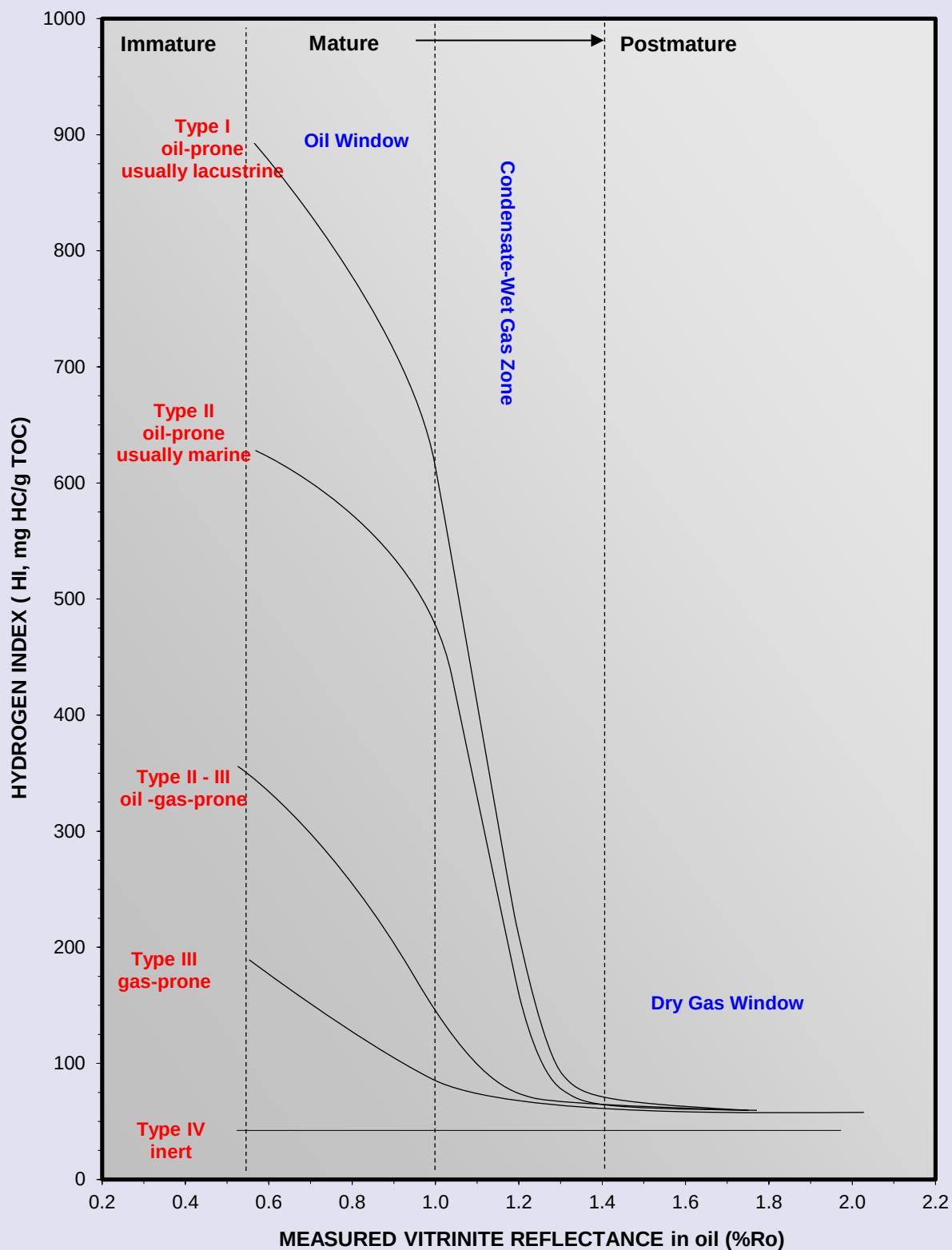


Weatherford
LABORATORIES

KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173



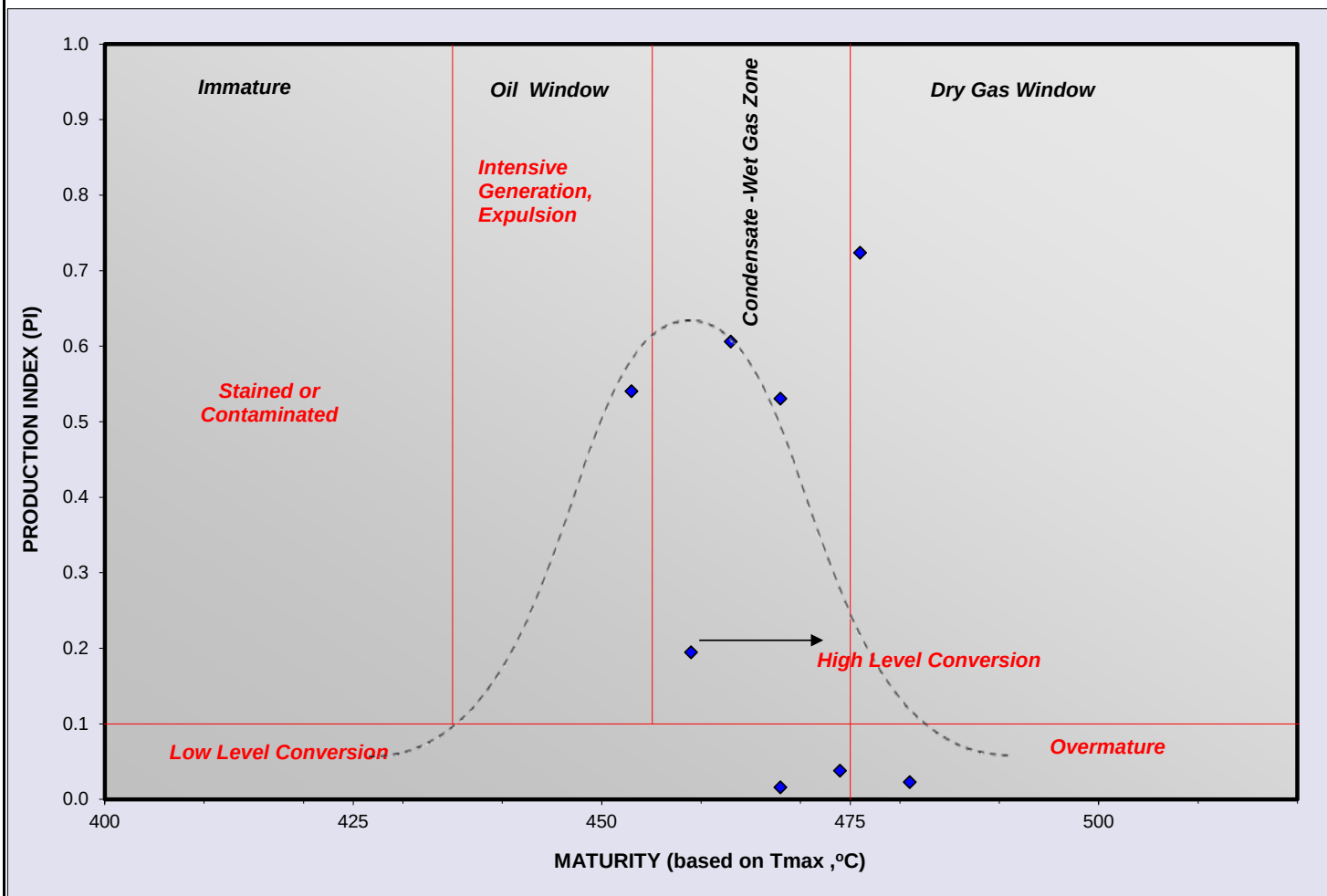


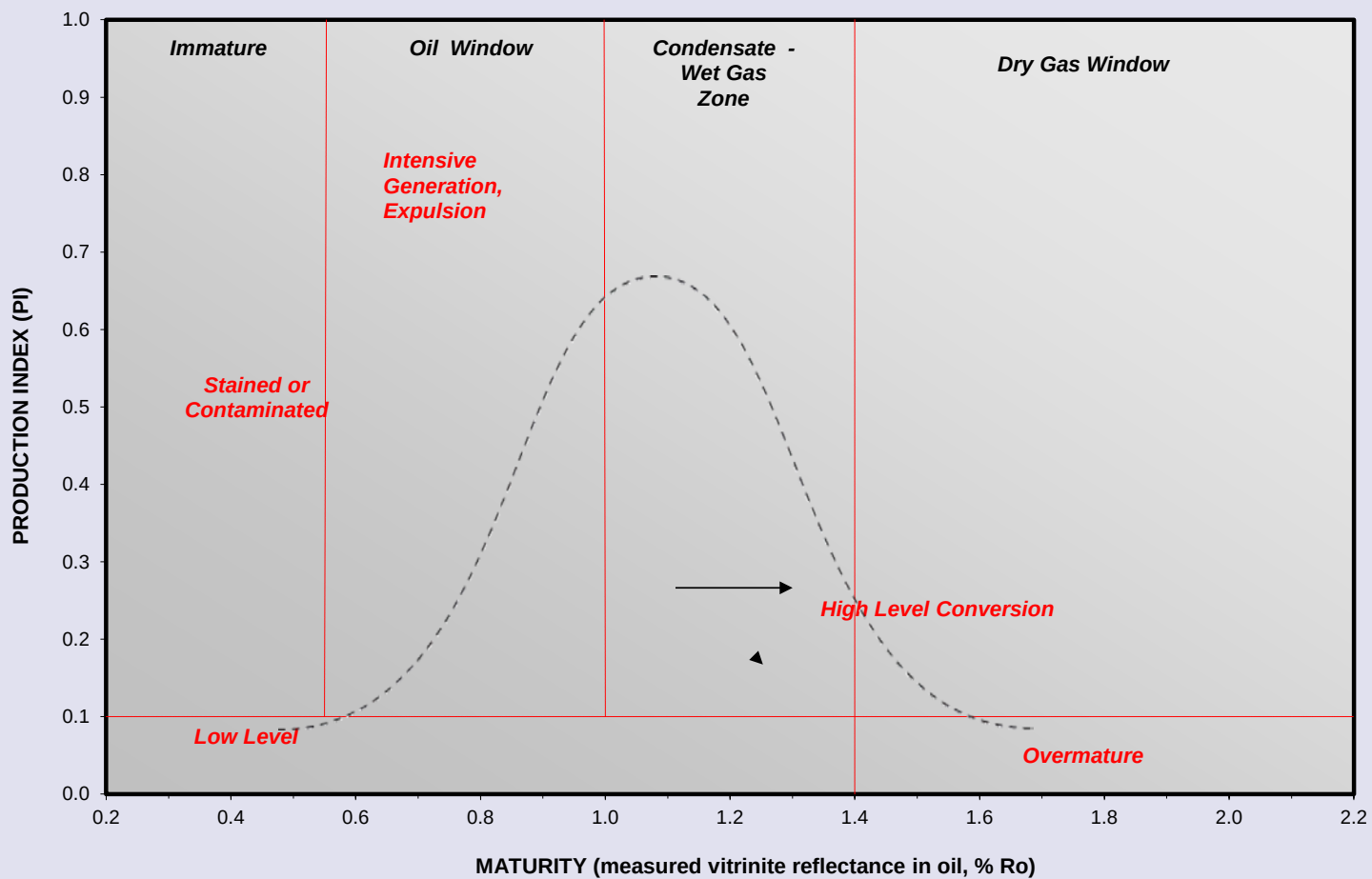
Weatherford
LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173







TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator : API # : 300O066510127000	State : NORTHWEST TERRITORY County :	Project No. : BH-63173 / BH-63173

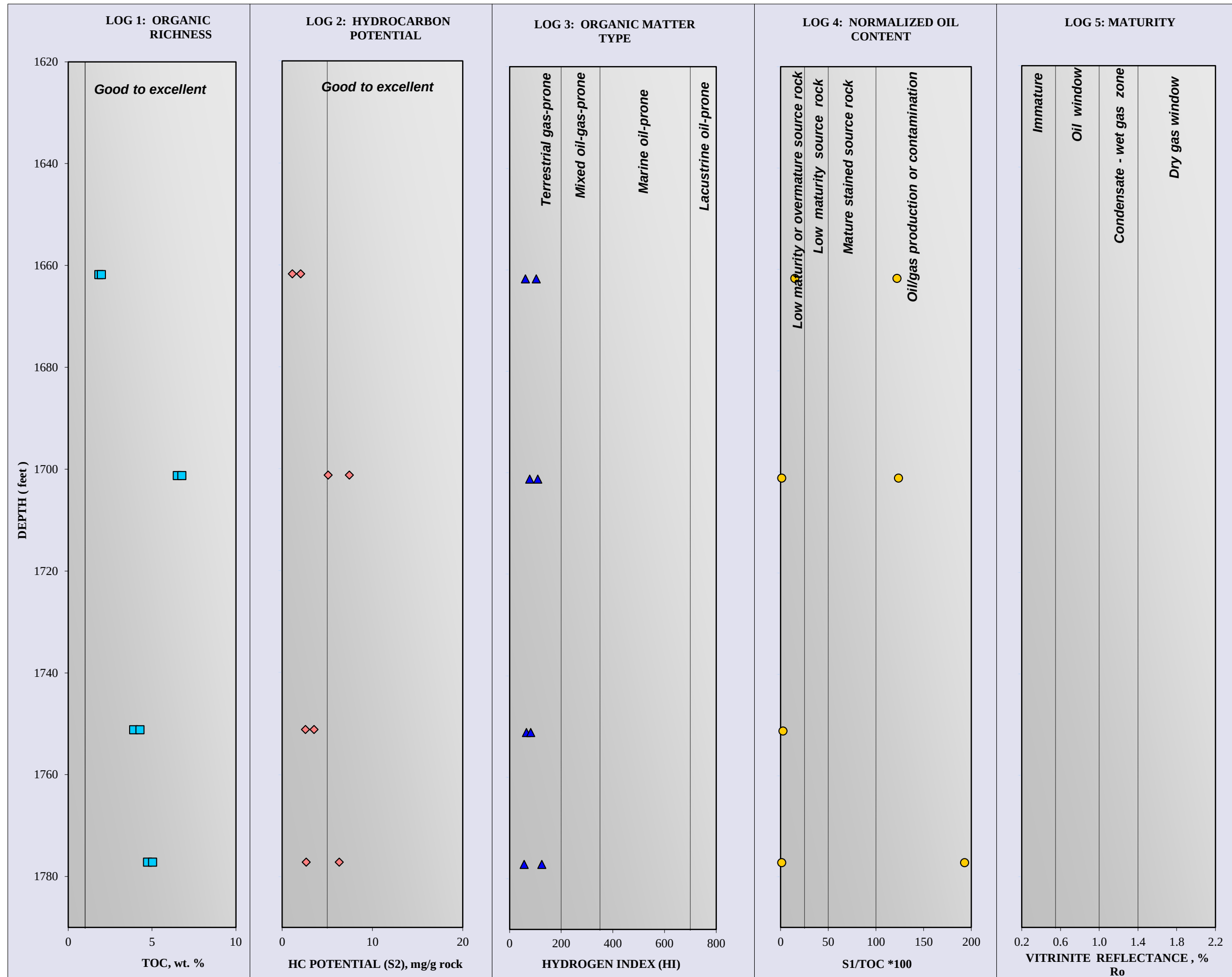
Client ID	Depth (m)	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
	Top						S1	S2	S3									Checks	Pyrogram	
CA003727	1661.8	UPPER CANOL	Core Chip	EXT		1.83	0.27	1.13	0.43	459			62	23	2.6	15	0.19	TOC RE	n:lts2p:hts2sh	CP315956
CA003727	1661.8	UPPER CANOL	Core Chip	NOPR		1.98	2.42	2.06	0.55	453			104	28	3.7	122	0.54		n:lts2p:hts2sh	CP315956
CA003728	1701.27	LOWER CANOL	Core Chip	EXT		6.51	0.08	5.09	0.11	468			78	2	46.3	1	0.02	TOC	hts2p:lts2sh	CP315957
CA003728	1701.27	LOWER CANOL	Core Chip	NOPR		6.79	8.39	7.43	0.84	468			109	12	8.8	124	0.53	RE	hts2p:lts2sh	CP315957
CA003729	1751.21	LOWER CANOL	Core Chip	EXT		3.91	0.10	2.58	0.09	474			66	2	28.7	3	0.04	TOC	hts2p:lts2sh	CP315958
CA003729	1751.21	LOWER CANOL	Core Chip	NOPR		4.29	9.20	3.52	1.26	476			82	29	2.8	215	0.72	TOC	hts2p:lts2sh	CP315958
CA003730	1777.2	LOWER CANOL	Core Chip	EXT		4.74	0.06	2.67	0.10	481			56	2	26.7	1	0.02	TOC RE	hts2p:lts2sh	CP315959
CA003730	1777.2	LOWER CANOL	Core Chip	NOPR		5.04	9.73	6.33	1.03	463			126	20	6.1	193	0.61	RE	hts2p:lts2sh	CP315959

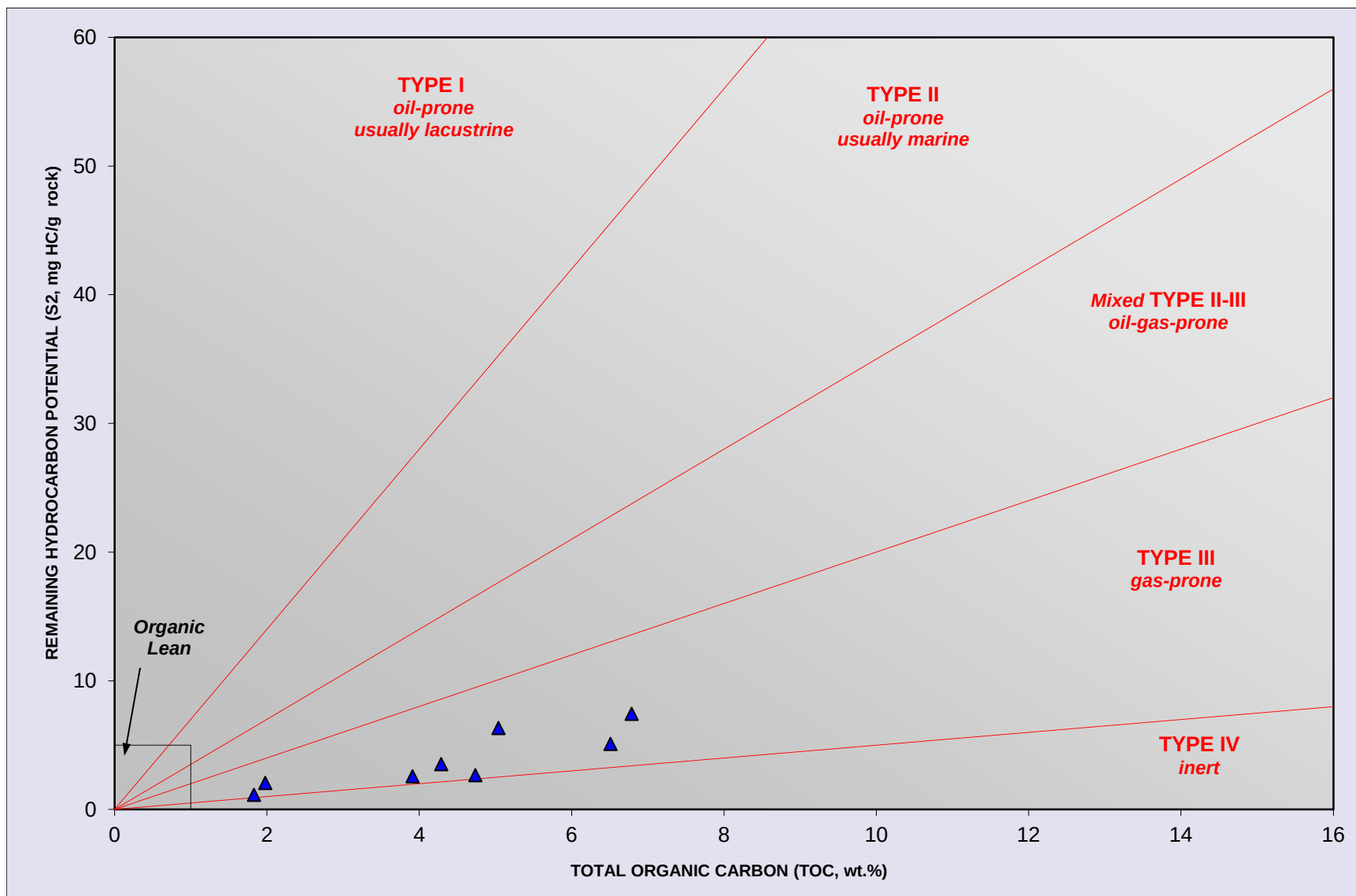
Notes: "-1" – not measured or invalid value TOC - Total Organic Carbon, wt. % S1 - volatile hydrocarbon (HC) content, mg HC/g rock S2 - remaining HC generative potential, mg HC/g rock S3 - carbon dioxide content, mg CO ₂ /g rock				* - Sample contaminated ** - low S2, Tmax is unreliable Meas. %Ro - measured vitrinite reflectance HI - Hydrogen index = S2 x 100 / TOC, mg HC/g TOC OI - Oxygen Index = S3 x 100 / TOC, mg CO ₂ /g TOC PI - Production Index = S1 / (S1+S2)				Pyrogram: f - flat S2 peak n - normal ltS2sh - low temperature S2 shoulder ltS2p - low temperature S2 peak htS2p - high temperature S2 peak				LECO - TOC on LECO Instrument SRA - Programmed Pyrolysis on SRA instrument RE - Programmed Pyrolysis on Rock-Eval instrument EXT - Extracted Rock NOPR - Normal Preparation			

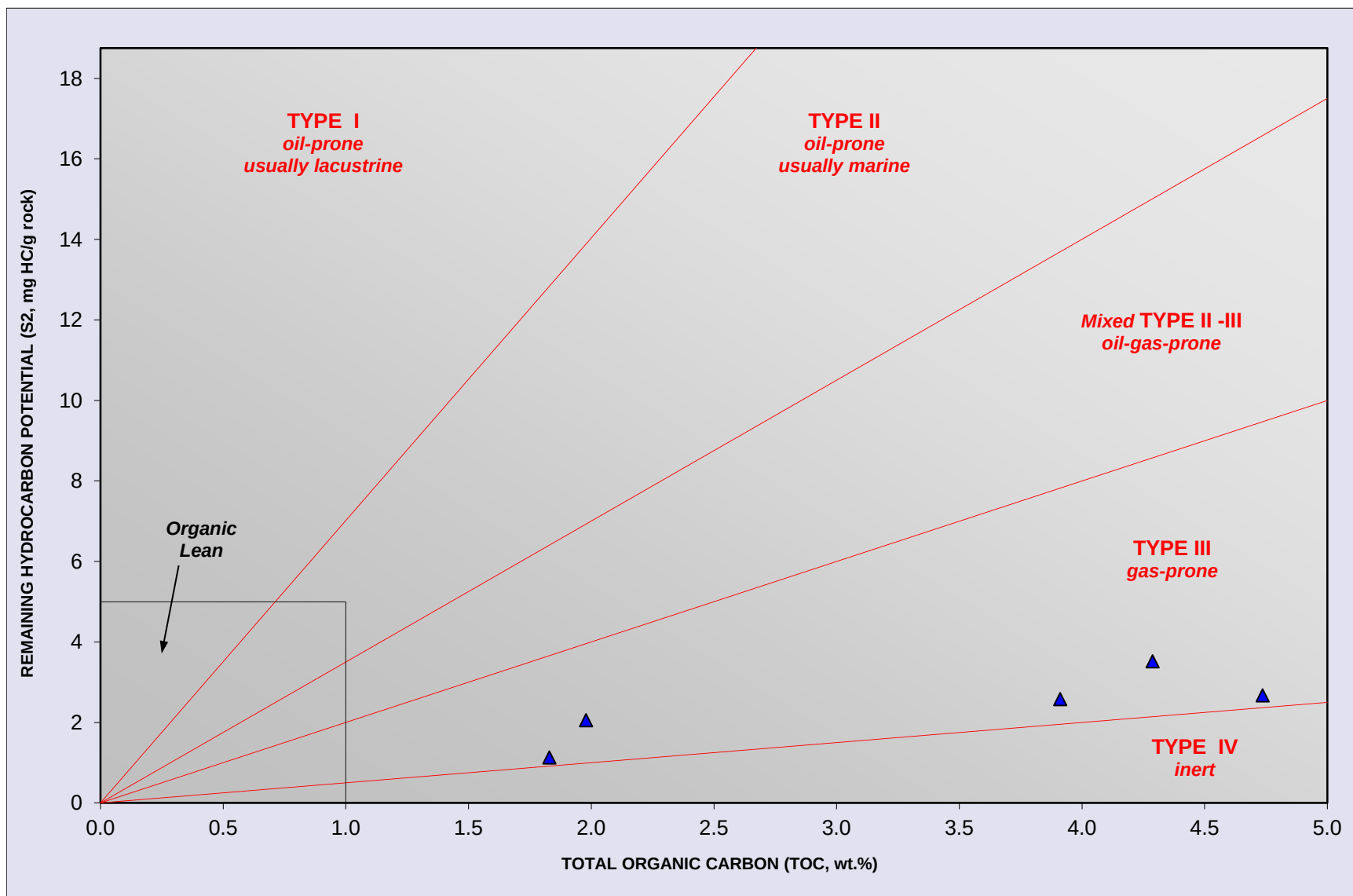
GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

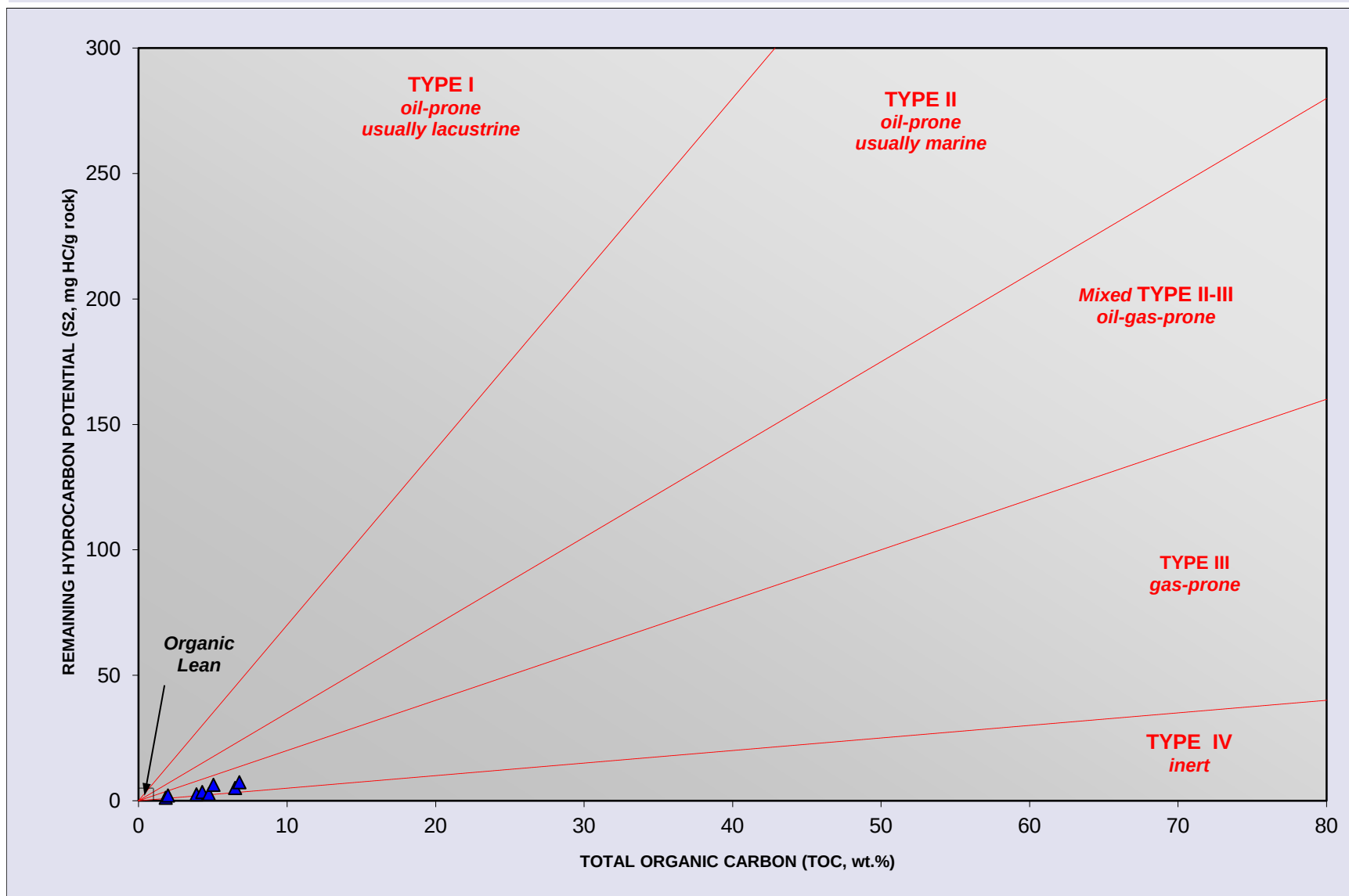
Company: CONOCOPHILLIPS

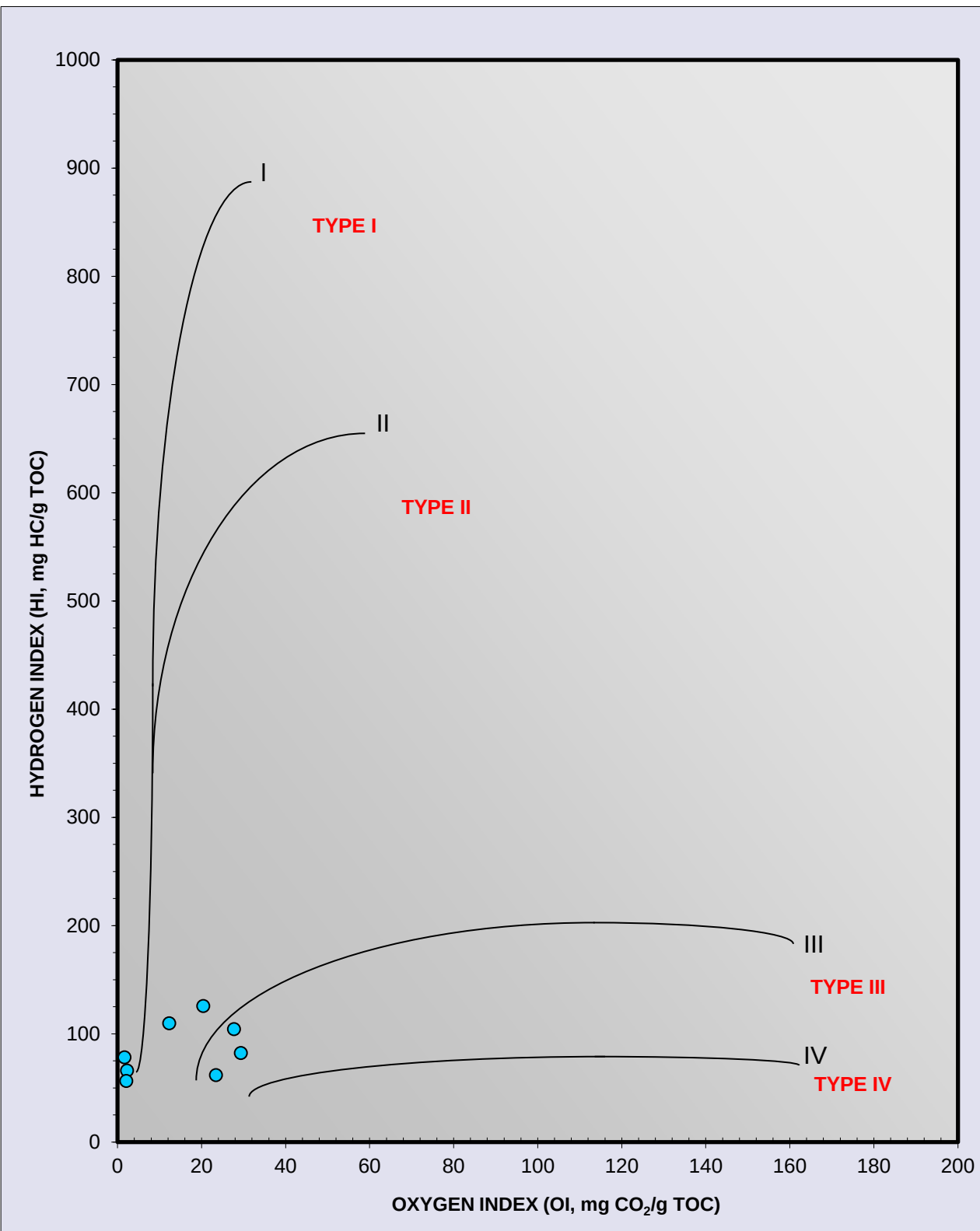
Project #: BH-63173 / BH-63173







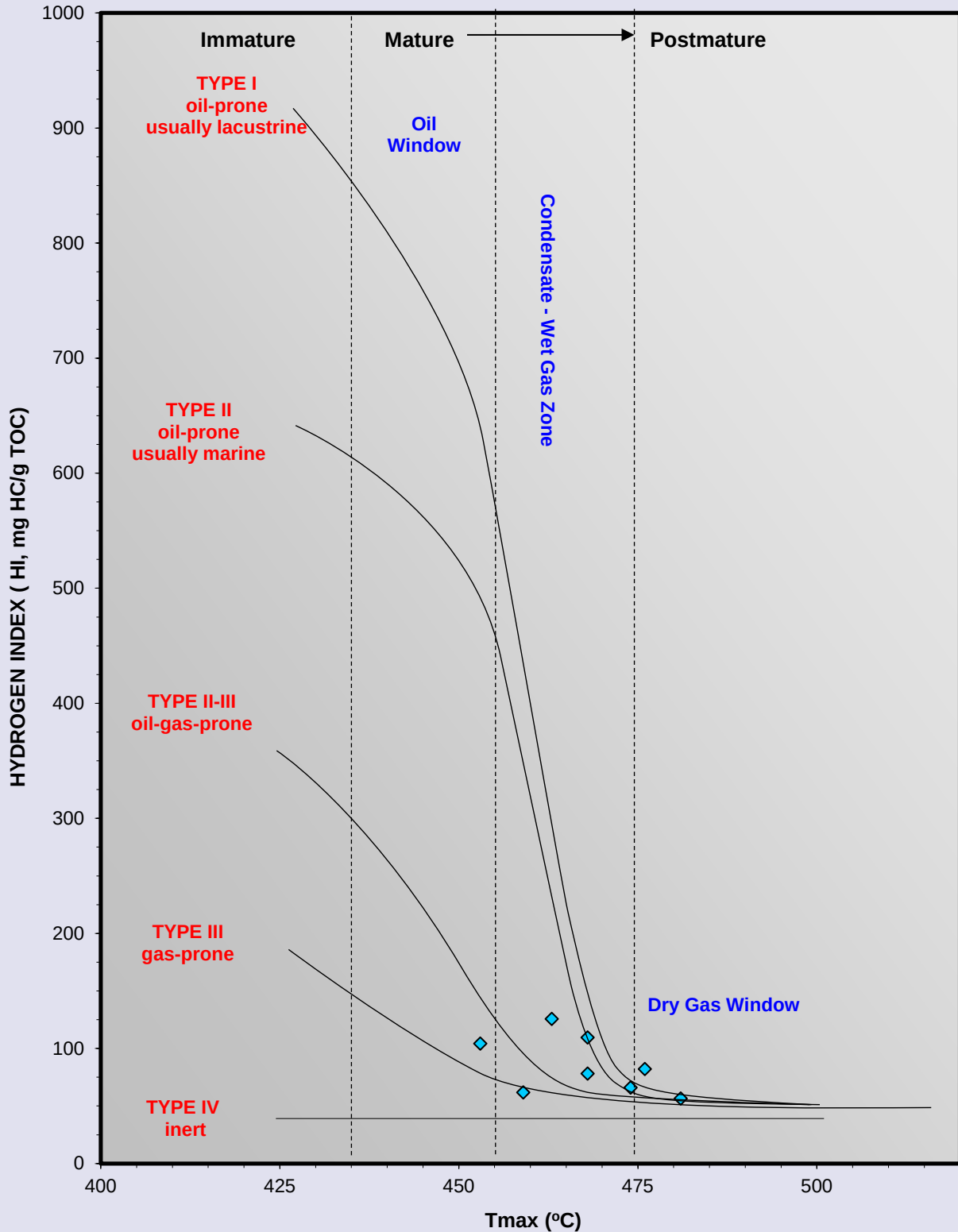




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

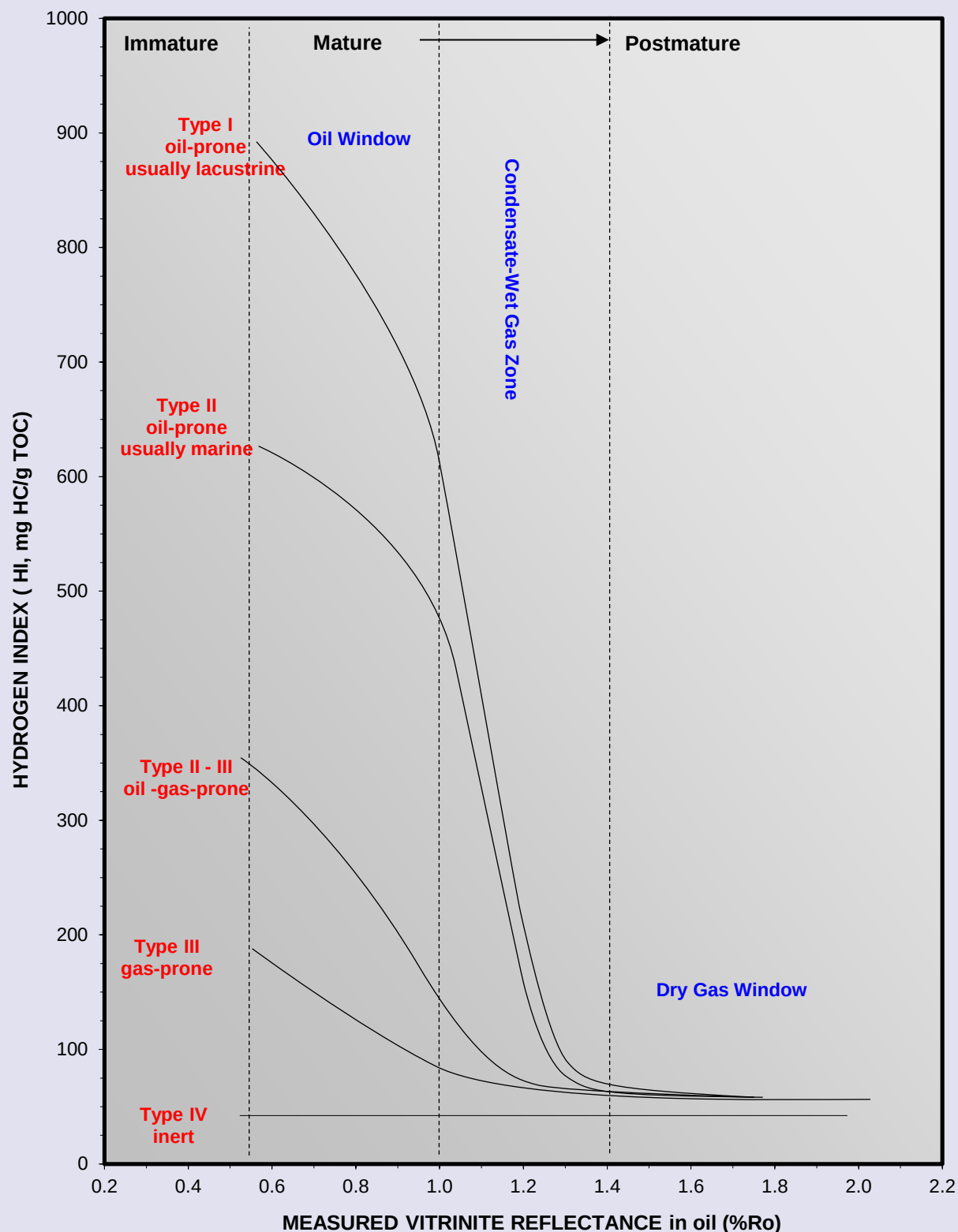
Project #: BH-63173 / BH-63173

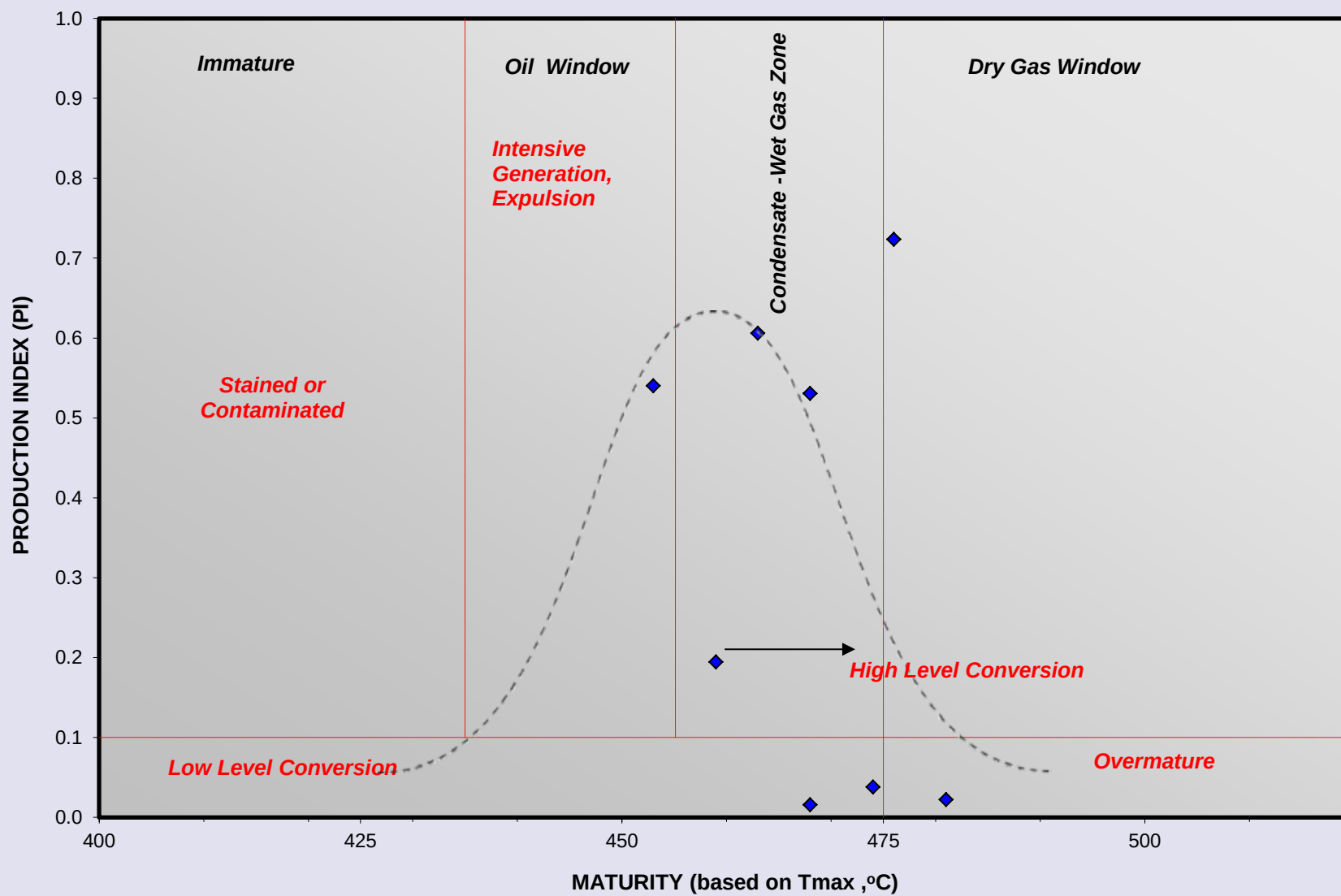


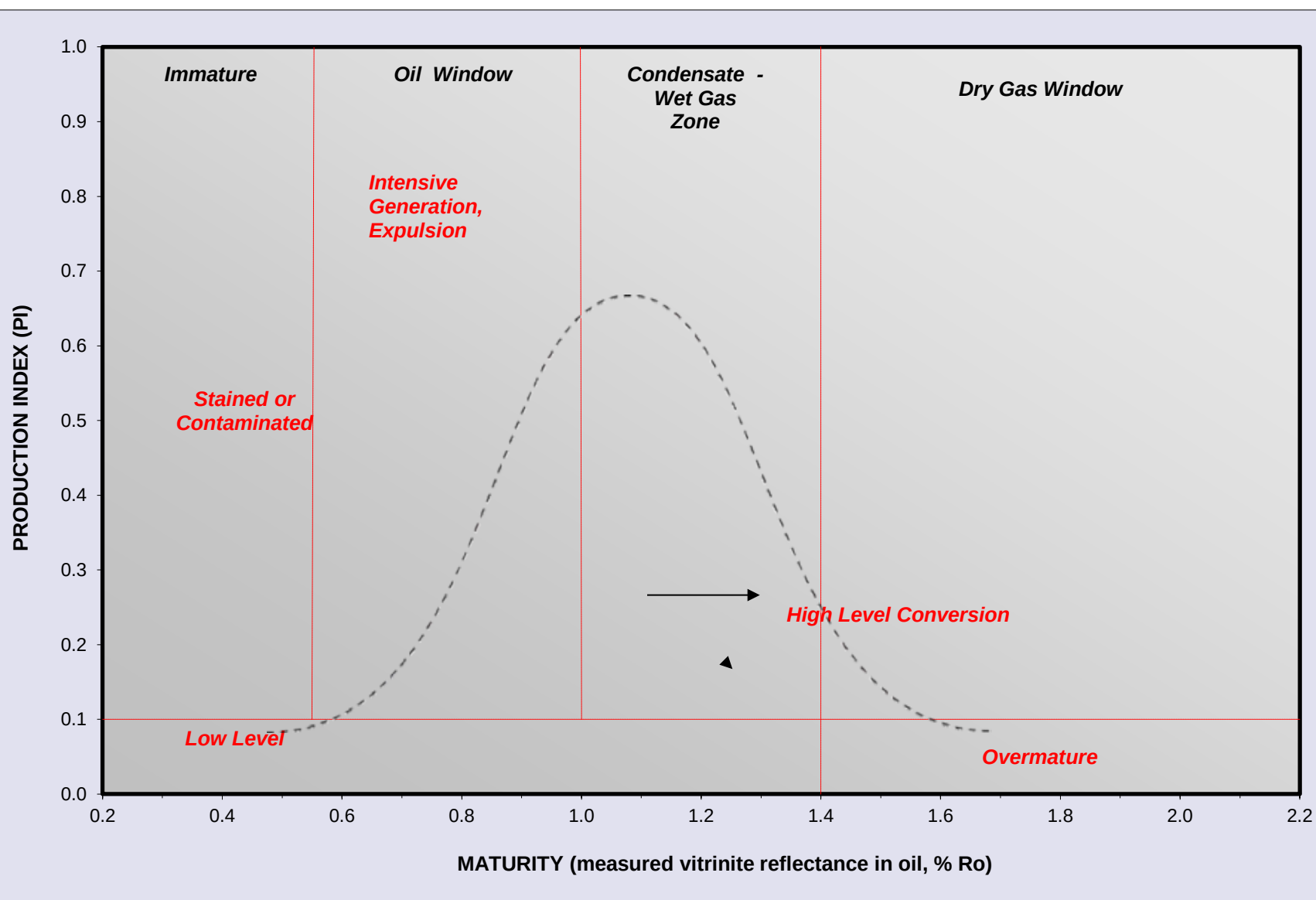
KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173









TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA

CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
	API #: 3000066510127000	County :	BH-63173 / BH-63173

Client ID	Depth (m) Top	Formation	Sample Type	Sample Prep	*	TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC	PI	Notes		Lab ID
							S1	S2	S3									Checks	Pyrogram	
CA003731	1624.12		Core Chip	NOPR		2.55	1.78	2.18	0.55	461		1.14	85	22	4.0	70	0.45	RE	nc1ts2shc1ts2sh	CP316263
CA003732	1633.46		Core Chip	NOPR		1.89	1.54	1.70	0.45	455		1.03	90	24	3.8	81	0.48	RE	nc1ts2shc1ts2sh	CP316264
CA003733	1640.81		Core Chip	NOPR		2.12	1.94	1.92	0.48	457		1.07	91	23	4.0	91	0.50	RE	nc1ts2shc1ts2sh	CP316265
CA003734	1645.5		Core Chip	NOPR		3.64	3.31	4.06	0.47	459		1.10	112	13	8.6	91	0.45	RE	nc1ts2shc1ts2sh	CP316266
CA003735	1656.53		Core Chip	NOPR		2.49	2.02	2.43	0.55	459		1.10	98	22	4.4	81	0.45		nc1ts2shc1ts2sh	CP316267
CA003736	1667.12		Core Chip	NOPR		2.70	2.64	2.98	0.53	457		1.07	110	20	5.6	98	0.47		nc1ts2shc1ts2sh	CP316268
CA003737	1675.65		Core Chip	NOPR		2.11	2.32	2.16	0.50	461		1.14	102	24	4.3	110	0.52		h1s2p1ts2sh	CP316269
CA003738	1681.45		Core Chip	NOPR		4.60	3.02	3.59	0.50	459		1.10	78	11	7.2	66	0.46		nc1ts2shc1ts2sh	CP316270
CA003739	1688.67		Core Chip	NOPR		4.32	1.97	2.25	0.52	466		1.23	52	12	4.3	46	0.47	RE	h1s2p1ts2sh	CP316271
CA003740	1691.77		Core Chip	NOPR		3.74	3.09	3.59	0.51	468		1.26	96	14	7.0	83	0.46		h1s2p1ts2sh	CP316272
CA003741	1696.08		Core Chip	NOPR		4.97	4.07	3.73	0.50	456		1.05	75	10	7.5	82	0.52		nc1ts2shc1ts2sh	CP316273
CA003742	1698.65		Core Chip	NOPR		6.02	4.52	4.36	0.51	453		0.99	72	8	8.5	75	0.51	RE	nc1ts2shc1ts2sh	CP316274
CA003743	1703.1		Core Chip	NOPR		3.84	3.54	2.70	0.49	463		1.17	70	13	5.5	92	0.57		h1s2p1ts2sh	CP316275
CA003744	1706.66		Core Chip	NOPR		3.73	2.33	2.96	0.41	464		1.19	79	11	7.2	62	0.44		h1s2p1ts2sh	CP316276
CA003745	1711.86		Core Chip	NOPR		3.39	2.45	2.64	0.50	465		1.21	78	15	5.3	72	0.48		h1s2p1ts2sh	CP316277
CA003746	1716.67		Core Chip	NOPR		4.48	3.53	3.04	0.46	462		1.16	68	10	6.6	79	0.54		h1s2p1ts2sh	CP316278
CA003747	1719.46		Core Chip	NOPR		6.85	5.68	6.89	0.54	466		1.23	101	8	12.8	83	0.45	RE	h1s2p1ts2sh	CP316279
CA003748	1723.68		Core Chip	NOPR		4.23	5.07	3.91	0.46	464		1.19	92	11	8.5	120	0.56		h1s2p1ts2sh	CP316280
CA003749	1727.17		Core Chip	NOPR		3.87	3.77	3.38	0.51	465		1.21	87	13	6.6	98	0.53		h1s2p1ts2sh	CP316281
CA003750	1730.99		Core Chip	NOPR		2.43	2.98	1.98	0.60	466		1.23	81	25	3.3	123	0.60	RE	h1s2p1ts2sh	CP316282
CA003751	1737.55		Core Chip	NOPR		3.95	3.94	3.66	0.64	466		1.23	93	16	5.7	100	0.52	RE	h1s2p1ts2sh	CP316283
CA003752	1740.77		Core Chip	NOPR		5.40	3.63	3.60	0.57	472		1.34	67	11	6.3	67	0.50		h1s2p1ts2sh	CP316284
CA003753	1742.17		Core Chip	NOPR		5.15	3.89	3.49	0.51	467		1.25	68	10	6.8	76	0.53		h1s2p1ts2sh	CP316285
CA003754	1746.35		Core Chip	NOPR		4.70	3.41	2.77	0.52	467		1.25	59	11	5.3	73	0.55		h1s2p1ts2sh	CP316286
CA003755	1754.71		Core Chip	NOPR		5.99	4.89	5.22	0.53	468		1.26	87	9	9.8	82	0.48		h1s2p1ts2sh	CP316287
CA003756	1759.1		Core Chip	NOPR		5.24	3.51	3.96	0.58	471		1.32	76	11	6.8	67	0.47		h1s2p1ts2sh	CP316288
CA003757	1762.91		Core Chip	NOPR		5.80	4.82	6.65	0.58	457		1.07	115	10	11.5	83	0.42	RE	nc1ts2shc1ts2sh	CP316289
CA003758	1767.31		Core Chip	NOPR		3.68	4.80	4.05	0.54	466		1.23	110	15	7.5	131	0.54		h1s2p1ts2sh	CP316290
CA003759	1770.07		Core Chip	NOPR		5.18	5.56	3.37	0.60	451		0.96	65	12	5.6	107	0.62	RE	nc1ts2shc1ts2sh	CP316291
CA003760	1773.14		Core Chip	NOPR		6.29	7.37	7.86	0.50	457		1.07	125	8	15.7	117	0.48	RE	nc1ts2shc1ts2sh	CP316292
CA003761	1782.5		Core Chip	NOPR		4.50	5.67	4.80	0.53	447		0.89	107	12	9.1	126	0.54		nc1ts2shc1ts2sh	CP316293
CA003762	1789.03		Core Chip	NOPR		2.91	1.97	2.07	0.42	464		1.19	71	14	4.9	68	0.49	RE	h1s2p1ts2sh	CP316294
CA003763	1792.13		Core Chip	NOPR		3.79	3.27	3.34	0.48	466		1.23	88	13	7.0	86	0.49		h1s2p1ts2sh	CP316295
CA003764	1796.09		Core Chip	NOPR		5.61	3.76	4.79	0.51	463		1.17	85	9	9.4	67	0.44		h1s2p1ts2sh	CP316296
CA003765	1804.46		Core Chip	NOPR		6.28	4.57	5.52	0.49	474		1.37	88	8	11.3	73	0.45		h1s2p1ts2sh	CP316297
CA003766	1810.53		Core Chip	NOPR		0.28	0.06	0.05	0.27	468	**		18	96	0.2	22	0.55	RE	f	CP316298

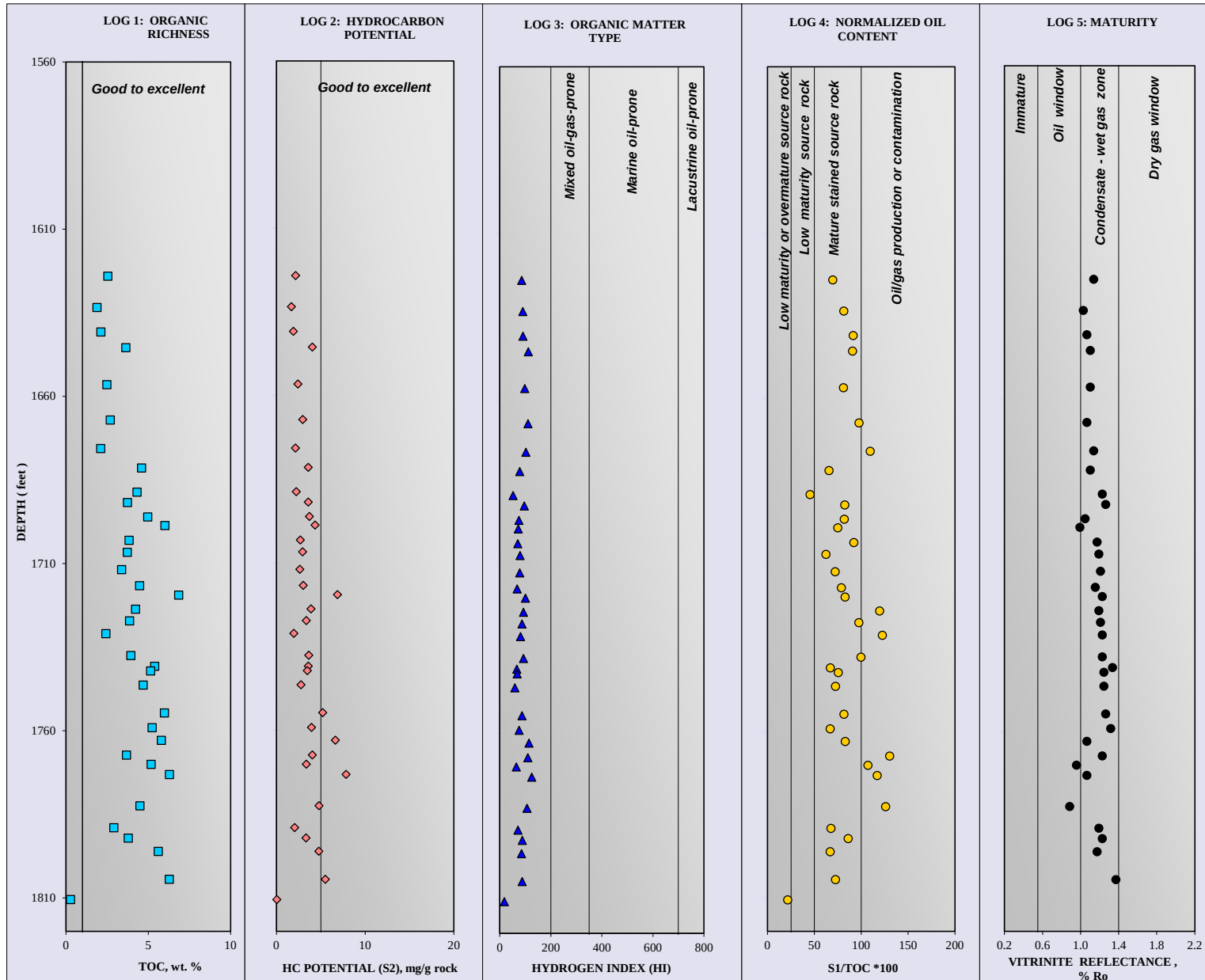
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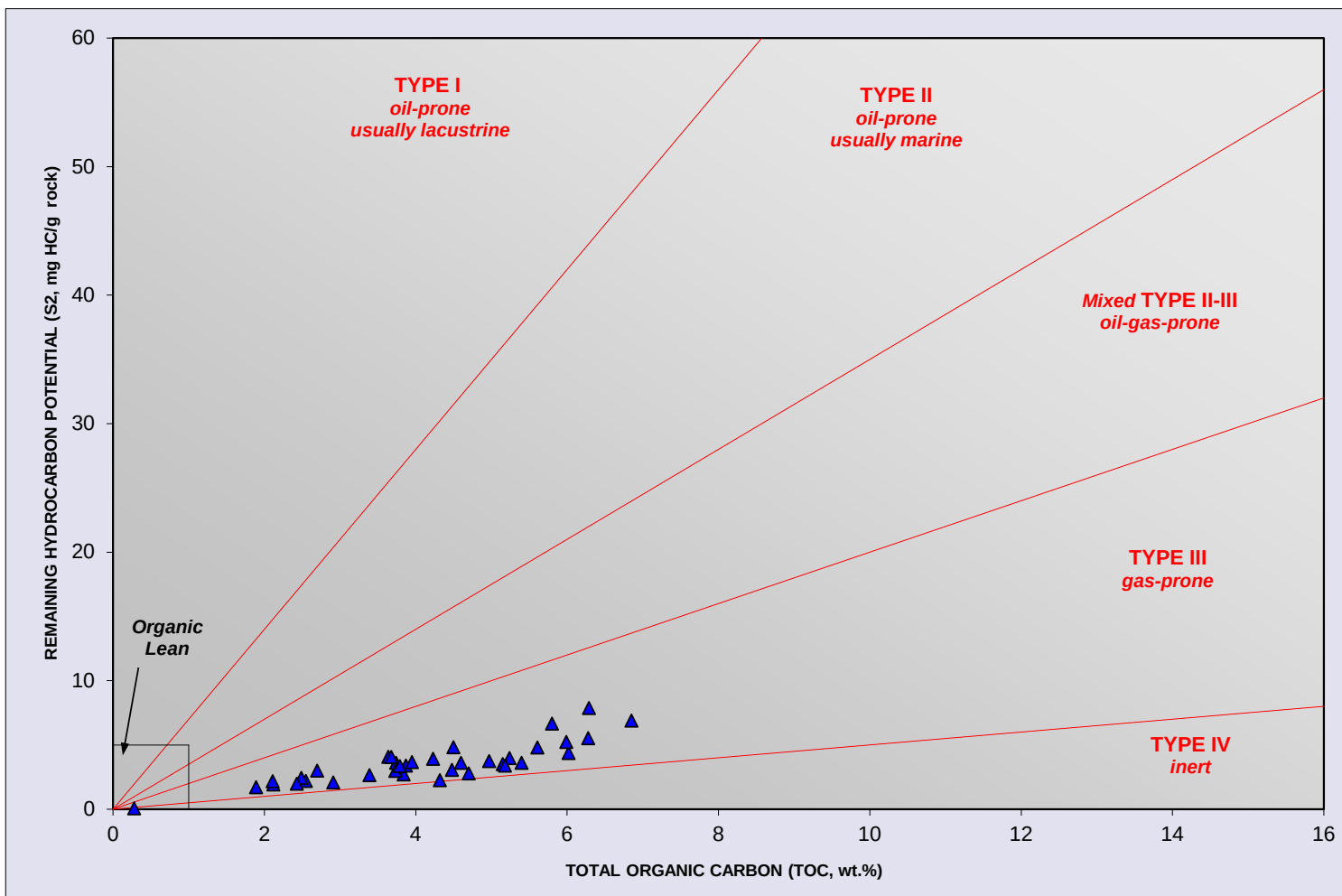
*1" - not measured or invalid value
TOC - Total Organic Carbon, wt. %
S1 - volatile hydrocarbon (HC) content, mg HC/g rock
S2 - remaining HC generative potential, mg HC/g rock
S3 - carbon dioxide content, mg CO₂/g rock
* - Sample contaminated
** - low S2, Tmax is unreliable
Meas. %Ro - measured vitrinite reflectance
HI - Hydrogen Index = S2 x 100 / TOC, mg HC/g TOC
OI - Oxygen Index = S3 x 100 / TOC, mg CO₂/g TOC
PI - Production Index = S1 / (S1+S2)
Pyrogram
f - flat S2 peak
n - normal
IS2sh - low/tenperature S2 shoulder
IS2b - low/tenperature S2 peak
HS2p - high temperature S2 peak
LECO - TOC on LECO Instrument
SRA - Programmed Pyrolysis on SRA Instrument
RE - Programmed Pyrolysis on Rock Eval Instrument
EXT - Etched Rock
NOPR - Normal Preparation

GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

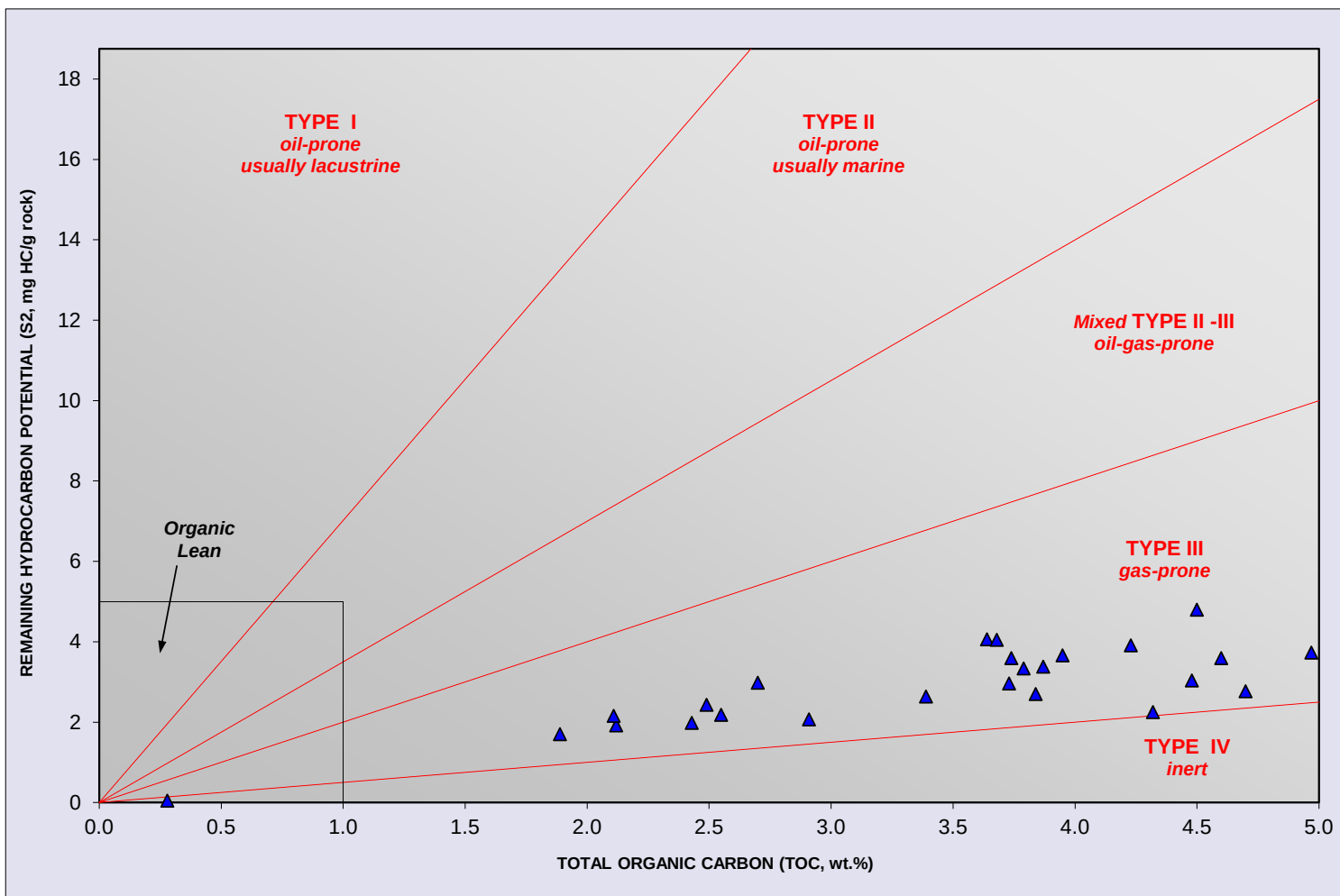




KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

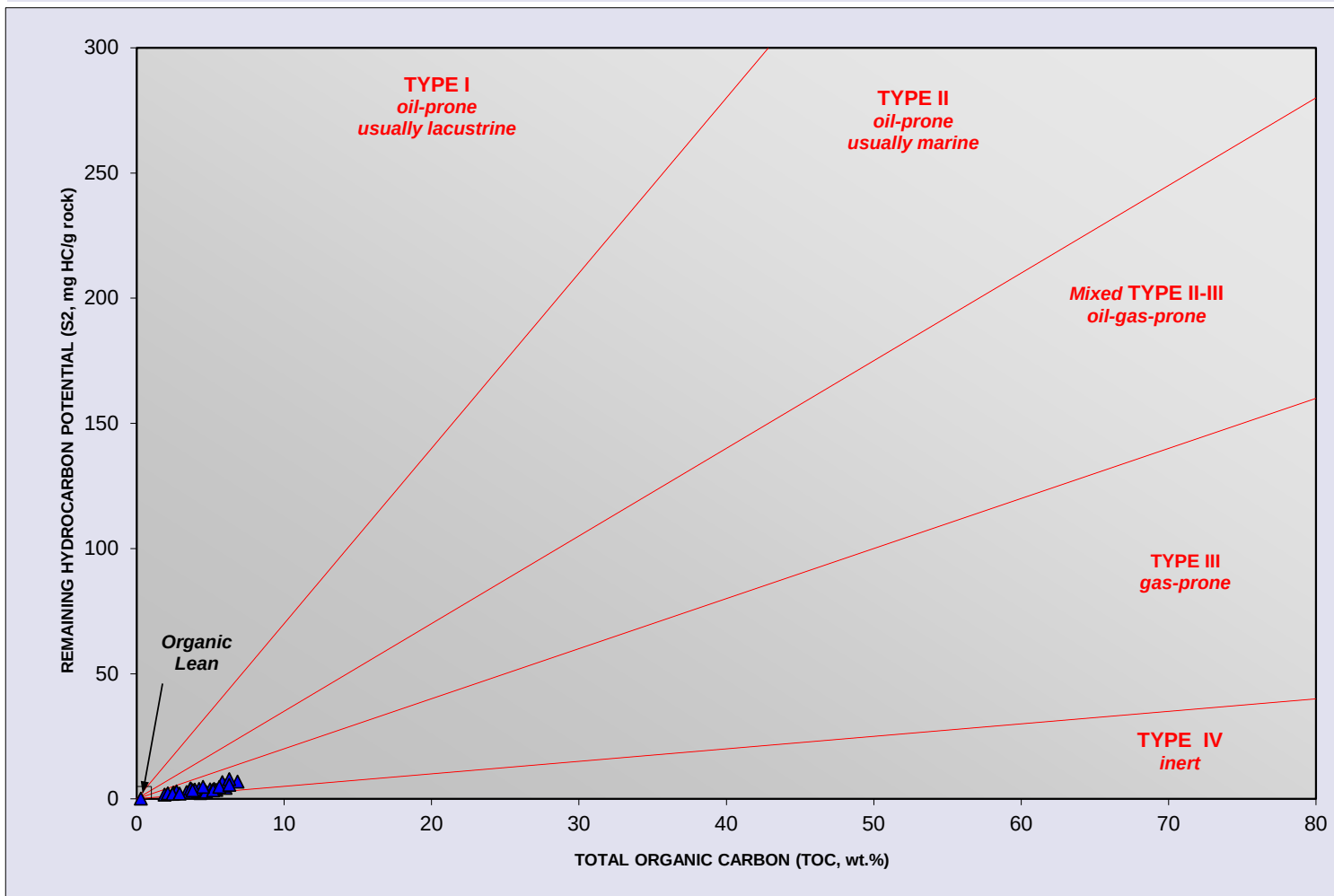
Project #: BH-63173 / BH-63173

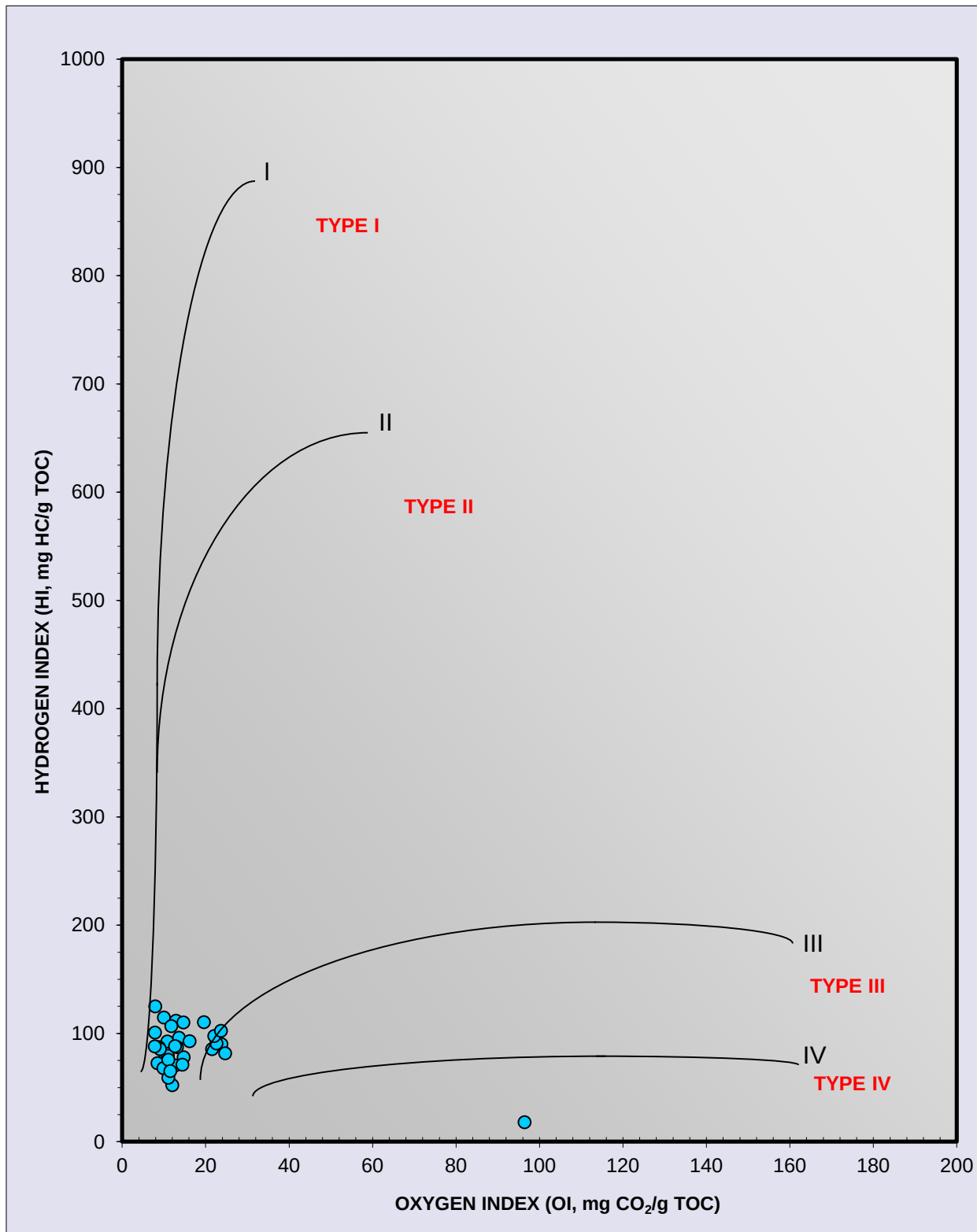


KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

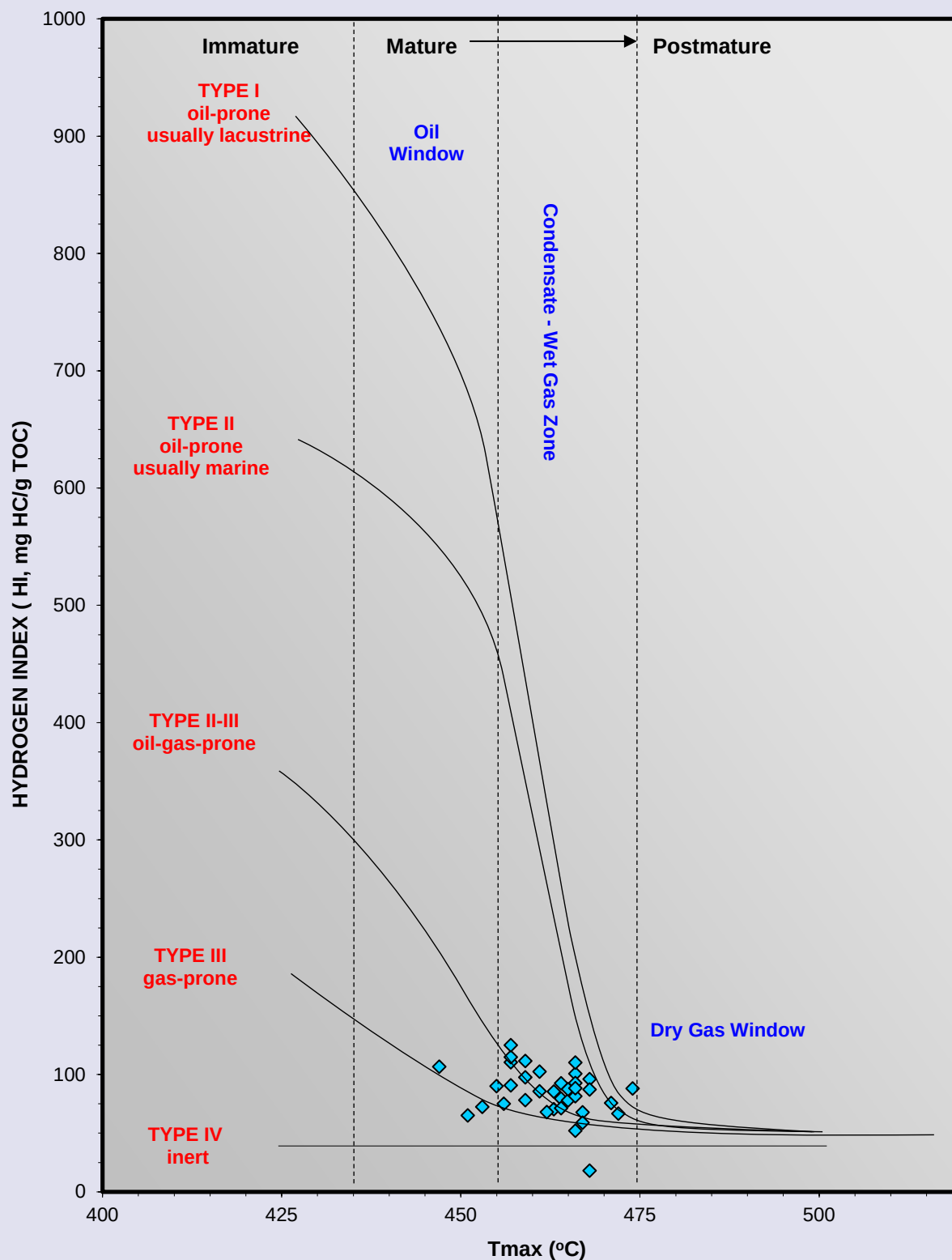




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173



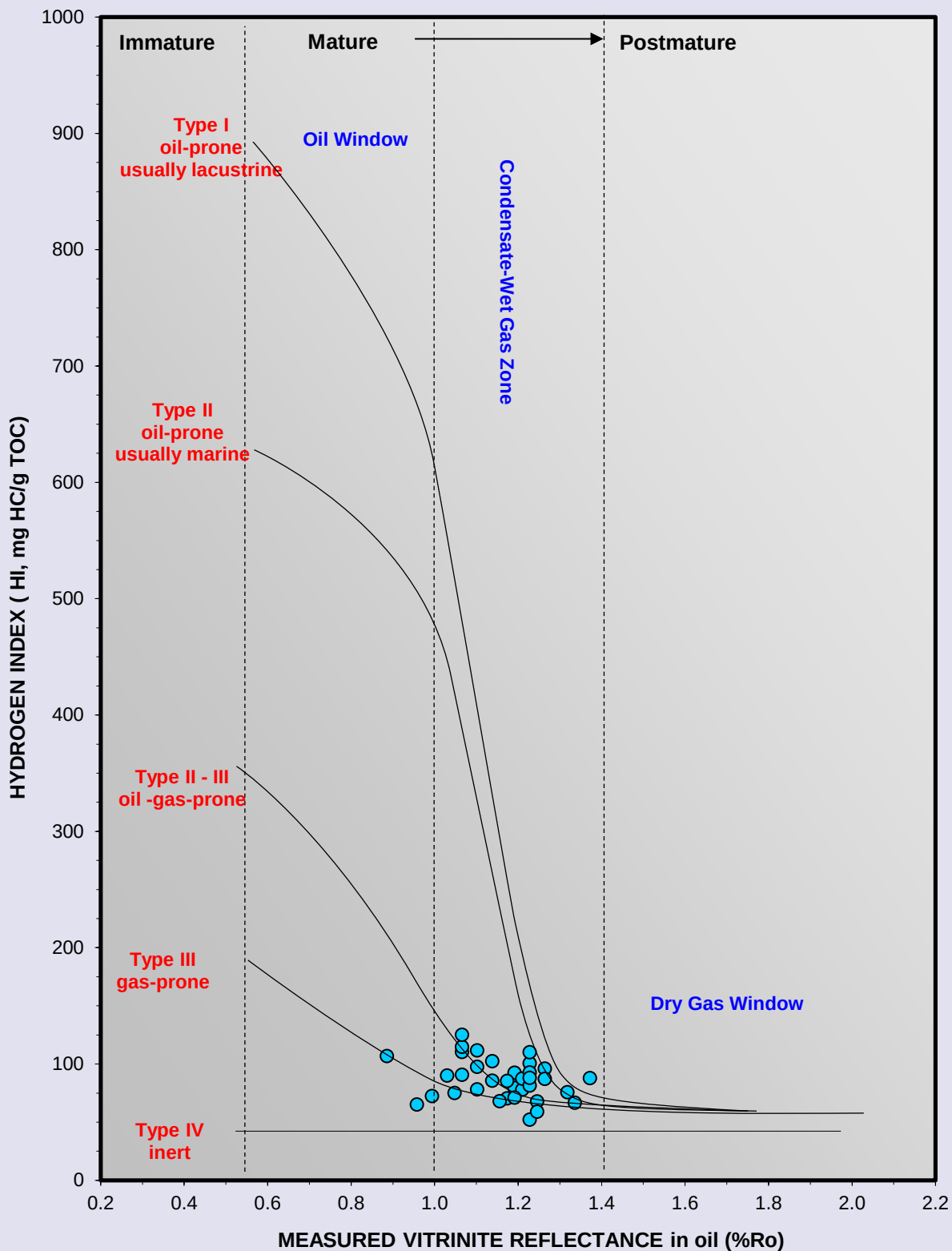


Weatherford
LABORATORIES

KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173



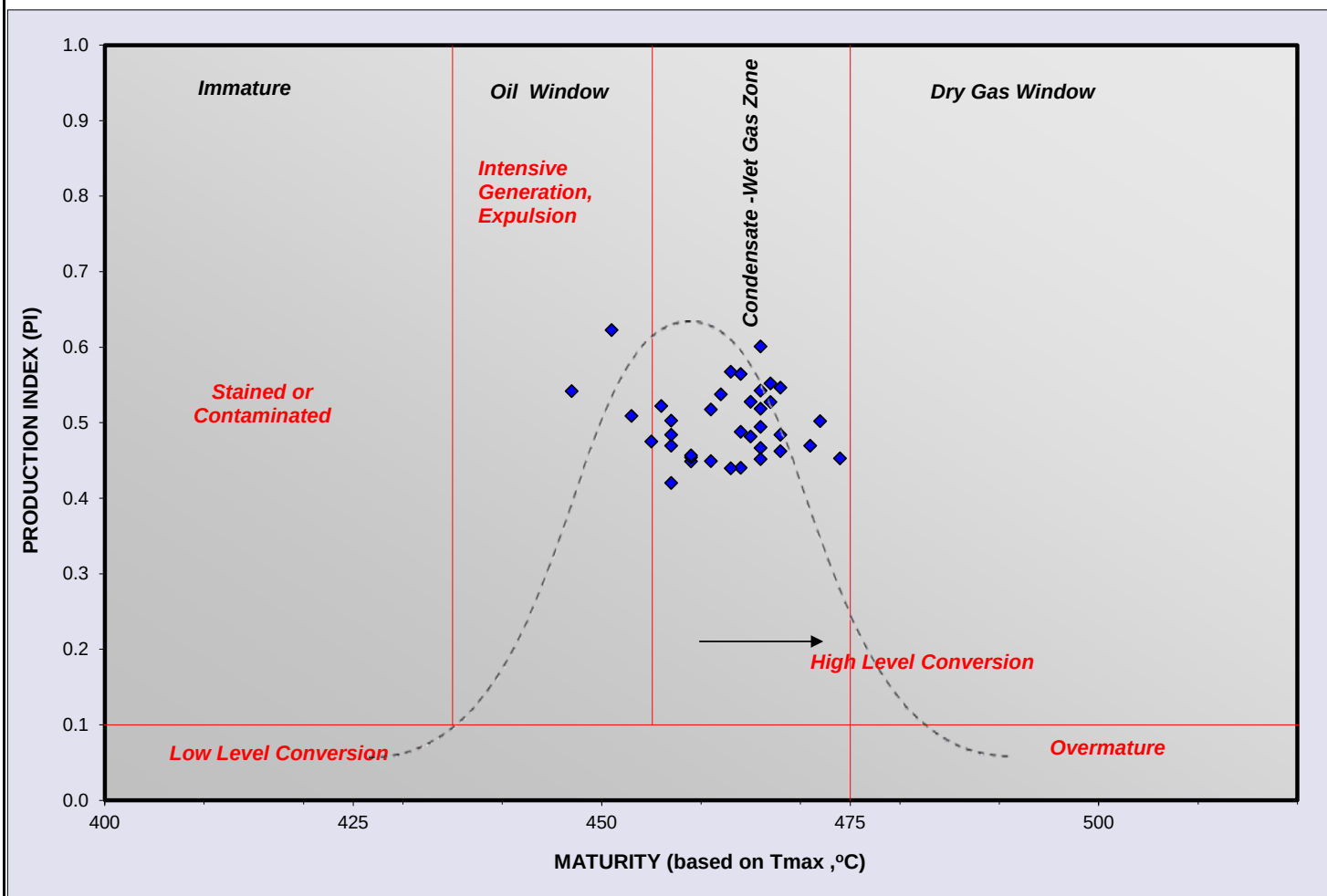


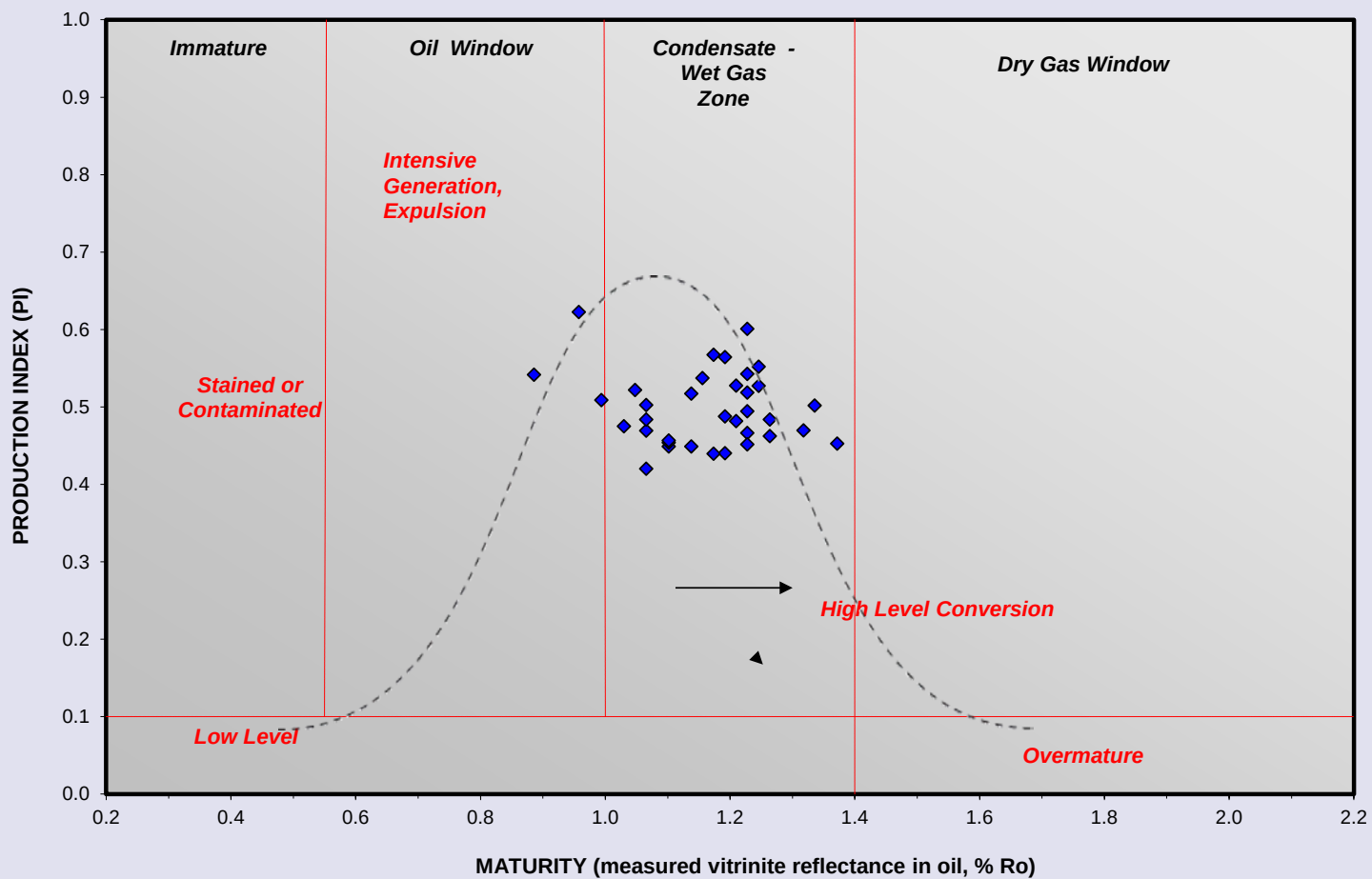
Weatherford
LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173







TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
	API # : 300O066510127000	County :	BH-63173 / BH-63173

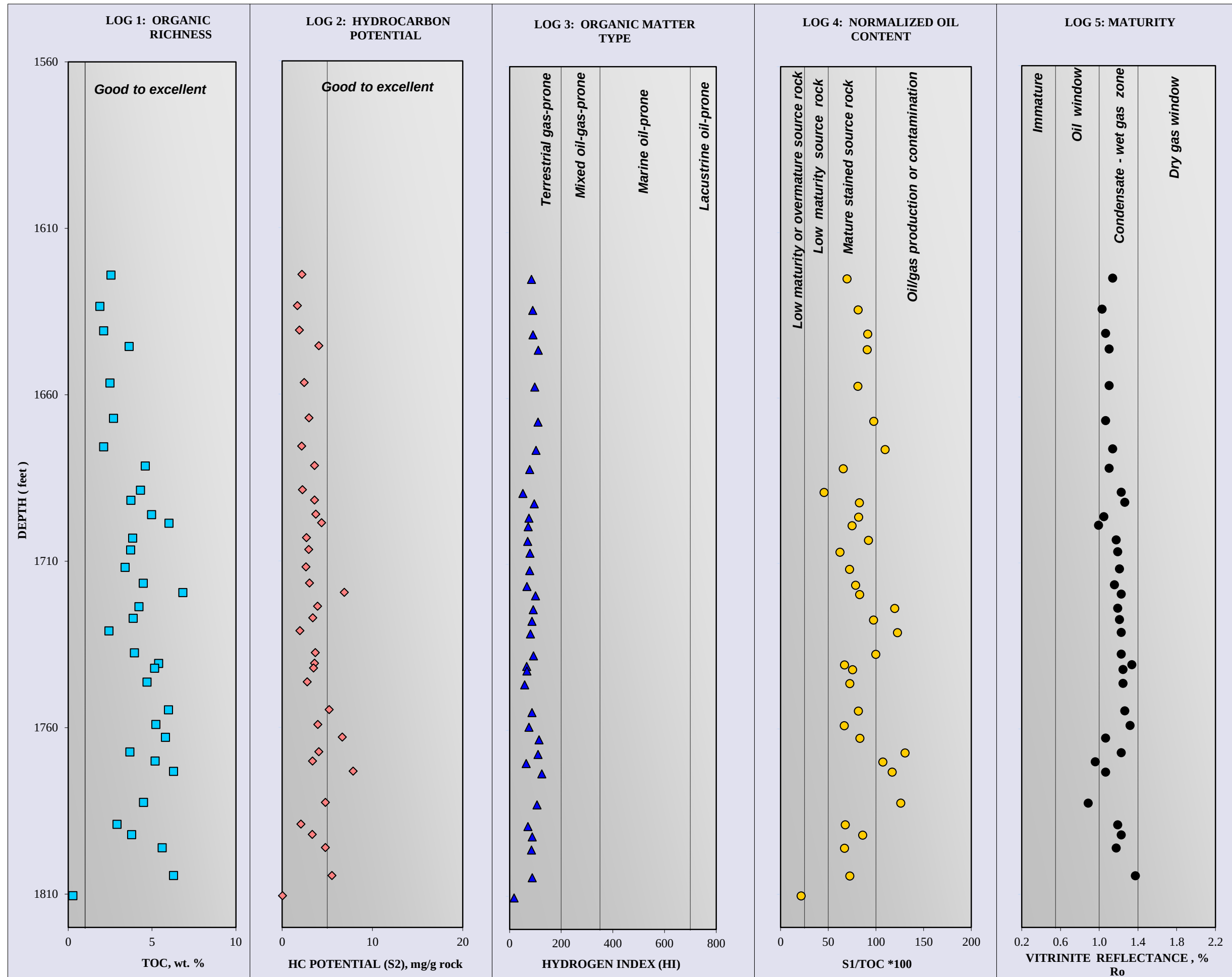
Client ID	Depth (m) Top	Formation	Sample Type	Sample Prep	*	TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
							S1	S2	S3									Checks	Pyrogram	
CA003731	1624.12		Core Chip	NOPR		2.55	1.78	2.18	0.55	461		1.14	85	22	4.0	70	0.45	RE	n:ltS2sh:hts2sh	CP316263
CA003732	1633.46		Core Chip	NOPR		1.89	1.54	1.70	0.45	455		1.03	90	24	3.8	81	0.48	RE	n:ltS2sh:hts2sh	CP316264
CA003733	1640.81		Core Chip	NOPR		2.12	1.94	1.92	0.48	457		1.07	91	23	4.0	91	0.50	RE	n:ltS2sh:hts2sh	CP316265
CA003734	1645.5		Core Chip	NOPR		3.64	3.31	4.06	0.47	459		1.10	112	13	8.6	91	0.45	RE	n:ltS2sh:hts2sh	CP316266
CA003735	1656.53		Core Chip	NOPR		2.49	2.02	2.43	0.55	459		1.10	98	22	4.4	81	0.45		n:ltS2sh:hts2sh	CP316267
CA003736	1667.12		Core Chip	NOPR		2.70	2.64	2.98	0.53	457		1.07	110	20	5.6	98	0.47		n:ltS2sh:hts2sh	CP316268
CA003737	1675.65		Core Chip	NOPR		2.11	2.32	2.16	0.50	461		1.14	102	24	4.3	110	0.52		hts2p:ltS2sh	CP316269
CA003738	1681.45		Core Chip	NOPR		4.60	3.02	3.59	0.50	459		1.10	78	11	7.2	66	0.46		n:ltS2sh:hts2sh	CP316270
CA003739	1688.67		Core Chip	NOPR		4.32	1.97	2.25	0.52	466		1.23	52	12	4.3	46	0.47	RE	hts2p:ltS2sh	CP316271
CA003740	1691.77		Core Chip	NOPR		3.74	3.09	3.59	0.51	468		1.26	96	14	7.0	83	0.46		hts2p:ltS2sh	CP316272
CA003741	1696.08		Core Chip	NOPR		4.97	4.07	3.73	0.50	456		1.05	75	10	7.5	82	0.52		n:ltS2sh:hts2sh	CP316273
CA003742	1698.65		Core Chip	NOPR		6.02	4.52	4.36	0.51	453		0.99	72	8	8.5	75	0.51	RE	n:ltS2sh:hts2sh	CP316274
CA003743	1703.1		Core Chip	NOPR		3.84	3.54	2.70	0.49	463		1.17	70	13	5.5	92	0.57		hts2p:ltS2sh	CP316275
CA003744	1706.66		Core Chip	NOPR		3.73	2.33	2.96	0.41	464		1.19	79	11	7.2	62	0.44		hts2p:ltS2sh	CP316276
CA003745	1711.86		Core Chip	NOPR		3.39	2.45	2.64	0.50	465		1.21	78	15	5.3	72	0.48		hts2p:ltS2sh	CP316277
CA003746	1716.67		Core Chip	NOPR		4.48	3.53	3.04	0.46	462		1.16	68	10	6.6	79	0.54		hts2p:ltS2sh	CP316278
CA003747	1719.46		Core Chip	NOPR		6.85	5.68	6.89	0.54	466		1.23	101	8	12.8	83	0.45	RE	hts2p:ltS2sh	CP316279
CA003748	1723.68		Core Chip	NOPR		4.23	5.07	3.91	0.46	464		1.19	92	11	8.5	120	0.56		hts2p:ltS2sh	CP316280
CA003749	1727.17		Core Chip	NOPR		3.87	3.77	3.38	0.51	465		1.21	87	13	6.6	98	0.53		hts2p:ltS2sh	CP316281
CA003750	1730.99		Core Chip	NOPR		2.43	2.98	1.98	0.60	466		1.23	81	25	3.3	123	0.60	RE	hts2p:ltS2sh	CP316282
CA003751	1737.55		Core Chip	NOPR		3.95	3.94	3.66	0.64	466		1.23	93	16	5.7	100	0.52	RE	hts2p:ltS2sh	CP316283
CA003752	1740.77		Core Chip	NOPR		5.40	3.63	3.60	0.57	472		1.34	67	11	6.3	67	0.50		hts2p:ltS2sh	CP316284
CA003753	1742.17		Core Chip	NOPR		5.15	3.89	3.49	0.51	467		1.25	68	10	6.8	76	0.53		hts2p:ltS2sh	CP316285
CA003754	1746.35		Core Chip	NOPR		4.70	3.41	2.77	0.52	467		1.25	59	11	5.3	73	0.55		hts2p:ltS2sh	CP316286
CA003755	1754.71		Core Chip	NOPR		5.99	4.89	5.22	0.53	468		1.26	87	9	9.8	82	0.48		hts2p:ltS2sh	CP316287
CA003756	1759.1		Core Chip	NOPR		5.24	3.51	3.96	0.58	471		1.32	76	11	6.8	67	0.47		hts2p:ltS2sh	CP316288
CA003757	1762.91		Core Chip	NOPR		5.80	4.82	6.65	0.58	457		1.07	115	10	11.5	83	0.42	RE	n:ltS2sh:hts2sh	CP316289
CA003758	1767.31		Core Chip	NOPR		3.68	4.80	4.05	0.54	466		1.23	110	15	7.5	131	0.54		hts2p:ltS2sh	CP316290
CA003759	1770.07		Core Chip	NOPR		5.18	5.56	3.37	0.60	451		0.96	65	12	5.6	107	0.62	RE	n:ltS2sh:hts2sh	CP316291
CA003760	1773.14		Core Chip	NOPR		6.29	7.37	7.86	0.50	457		1.07	125	8	15.7	117	0.48	RE	n:ltS2sh:hts2sh	CP316292
CA003761	1782.5		Core Chip	NOPR		4.50	5.67	4.80	0.53	447		0.89	107	12	9.1	126	0.54		n:ltS2sh:hts2sh	CP316293
CA003762	1789.03		Core Chip	NOPR		2.91	1.97	2.07	0.42	464		1.19	71	14	4.9	68	0.49	RE	hts2p:ltS2sh	CP316294
CA003763	1792.13		Core Chip	NOPR		3.79	3.27	3.34	0.48	466		1.23	88	13	7.0	86	0.49		hts2p:ltS2sh	CP316295
CA003764	1796.09		Core Chip	NOPR		5.61	3.76	4.79	0.51	463		1.17	85	9	9.4	67	0.44		hts2p:ltS2sh	CP316296
CA003765	1804.46		Core Chip	NOPR		6.28	4.57	5.52	0.49	474		1.37	88	8	11.3	73	0.45		hts2p:ltS2sh	CP316297
CA003766	1810.53		Core Chip	NOPR		0.28	0.06	0.05	0.27	468	**		18	96	0.2	22	0.55	RE	f	CP316298

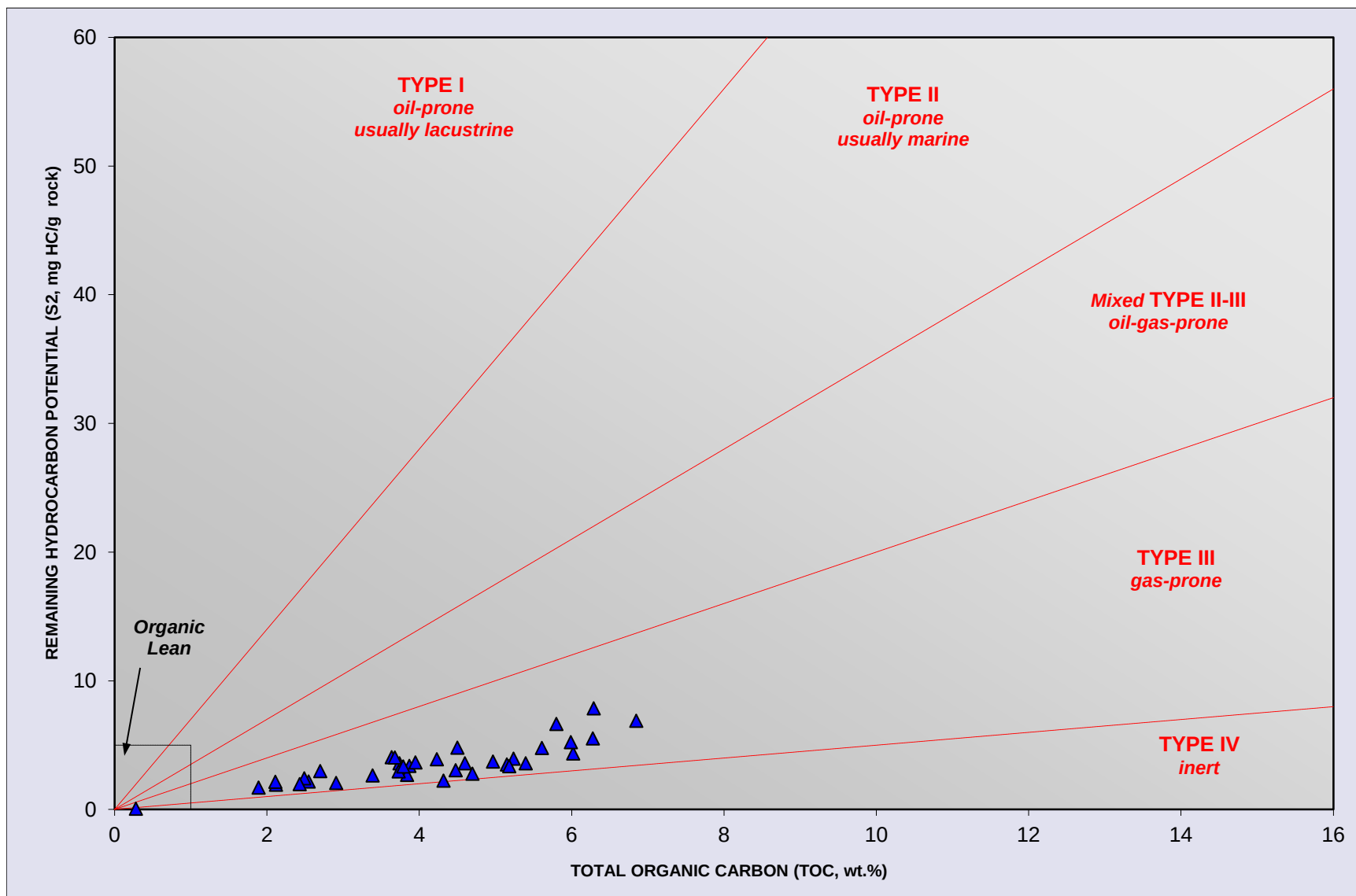
Notes:			
*1" – not measured or invalid value	* - Sample contaminated	Pyrogram:	LECO - TOC on LECO Instrument
TOC - Total Organic Carbon, wt. %	** - lowS2, Tmax is unreliable	f - flat S2 peak	SRA - Programmed Pyrolysis on SRA instrument
S1 - volatile hydrocarbon (HC) content, mg HC/g rock	Meas. %Ro - measured vitrinite reflectance	n - normal	RE - Programmed Pyrolysis on Rock-Eval instrument
S2 - remaining HC generative potential, mg HC/g rock	HI - Hydrogen index = S2 x100 / TOC, mg HC/g TOC	ltS2sh - low temperature S2 shoulder	EXT - Extracted Rock
S3 - carbon dioxide content, mg CO2/g rock	OI - Oxygen Index = S3 x100 / TOC, mg CO2/g TOC	ltS2p - low temperature S2 peak	NOPR - Normal Preparation
	PI - Production Index = S1 / (S1+S2)	htS2p - high temperature S2 peak	

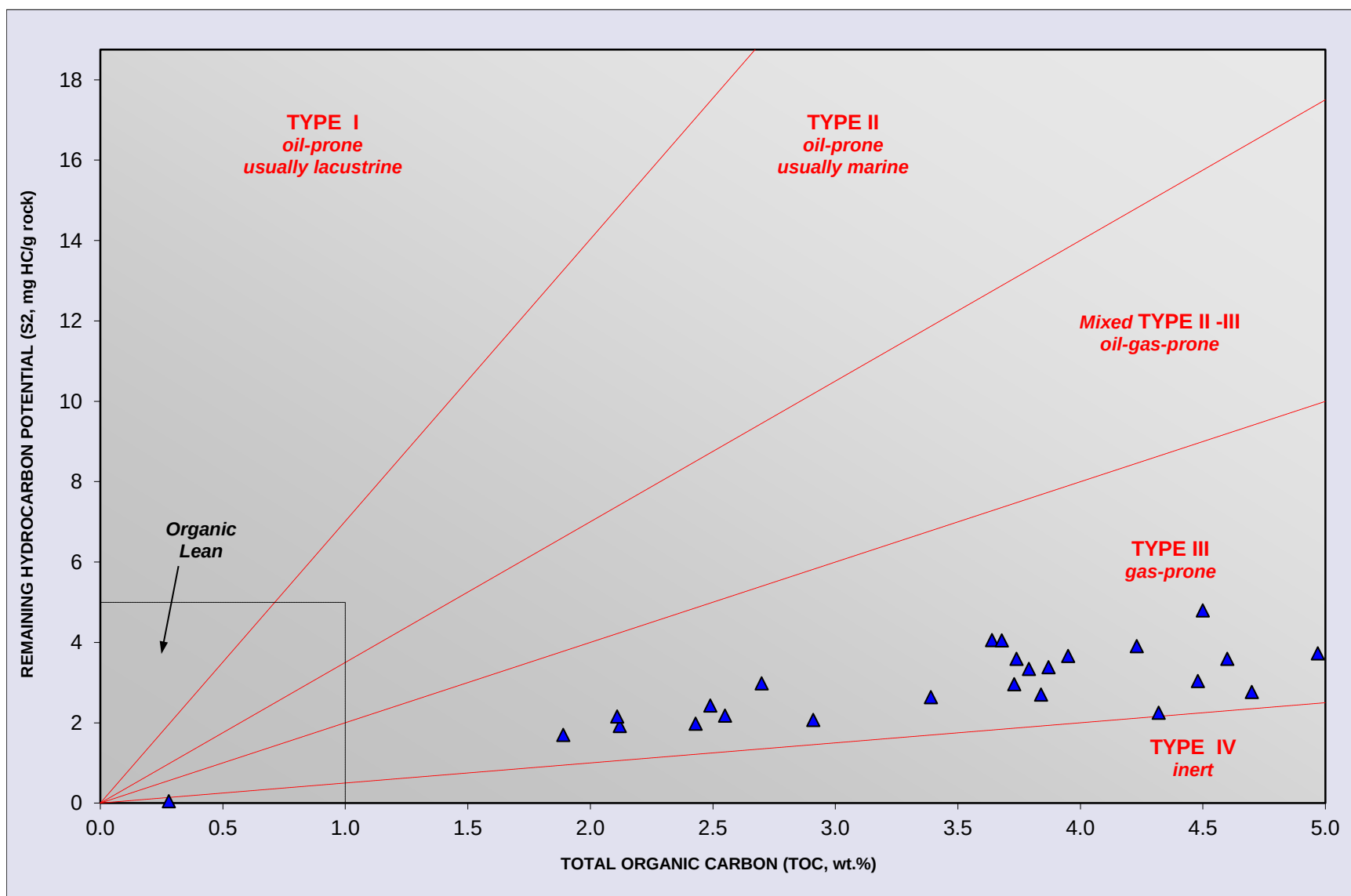
GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

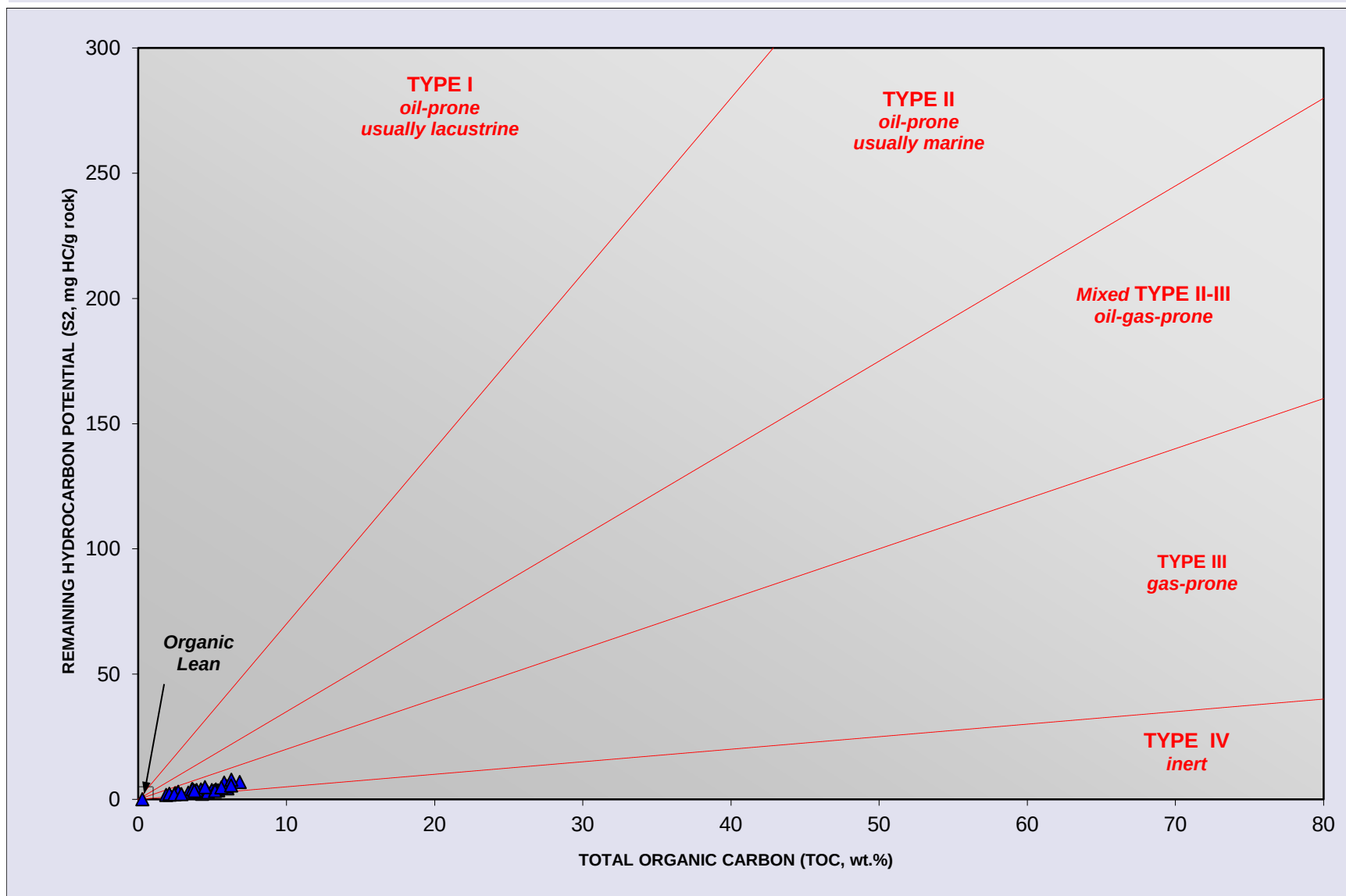
Company: CONOCOPHILLIPS

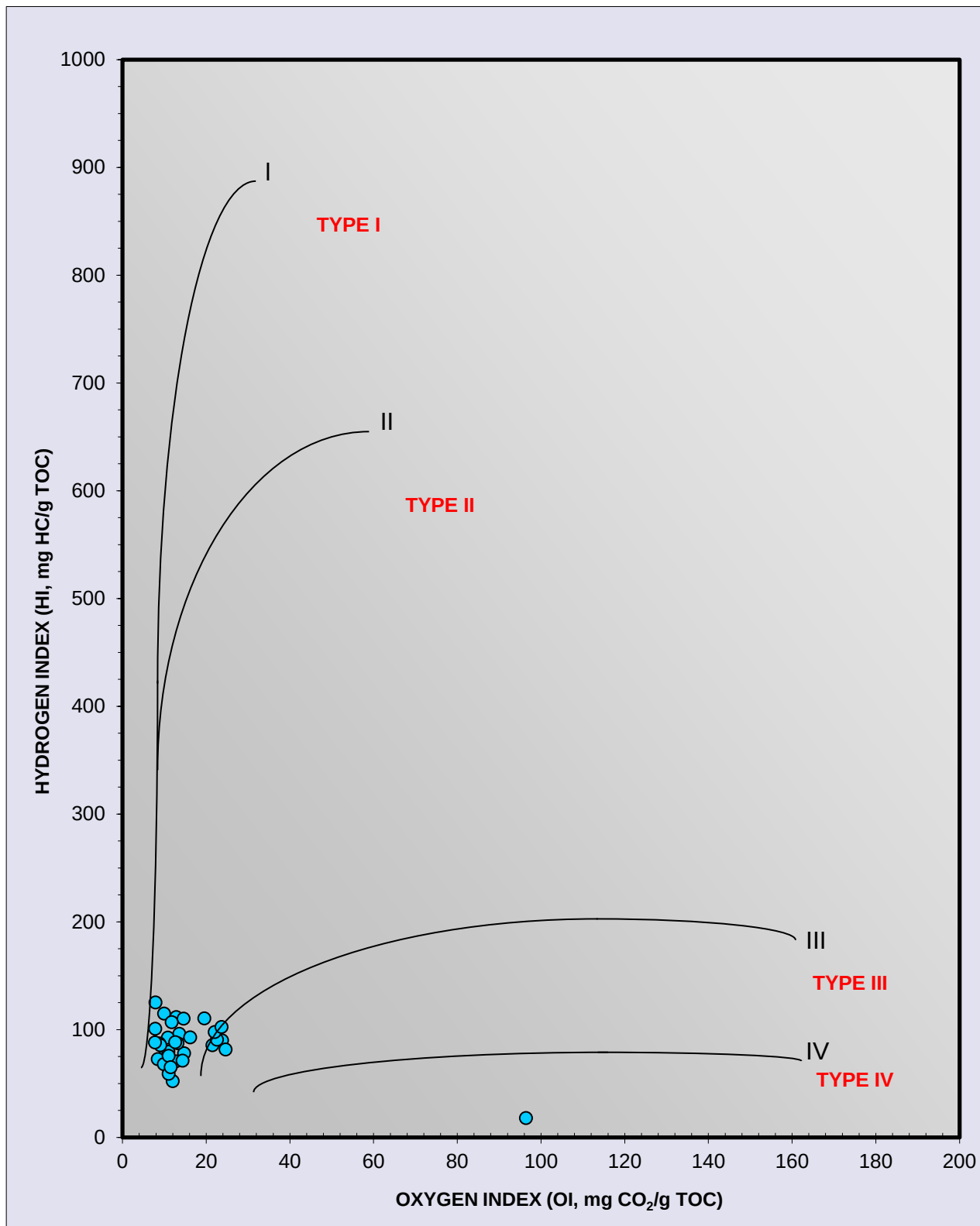
Project #: BH-63173 / BH-63173







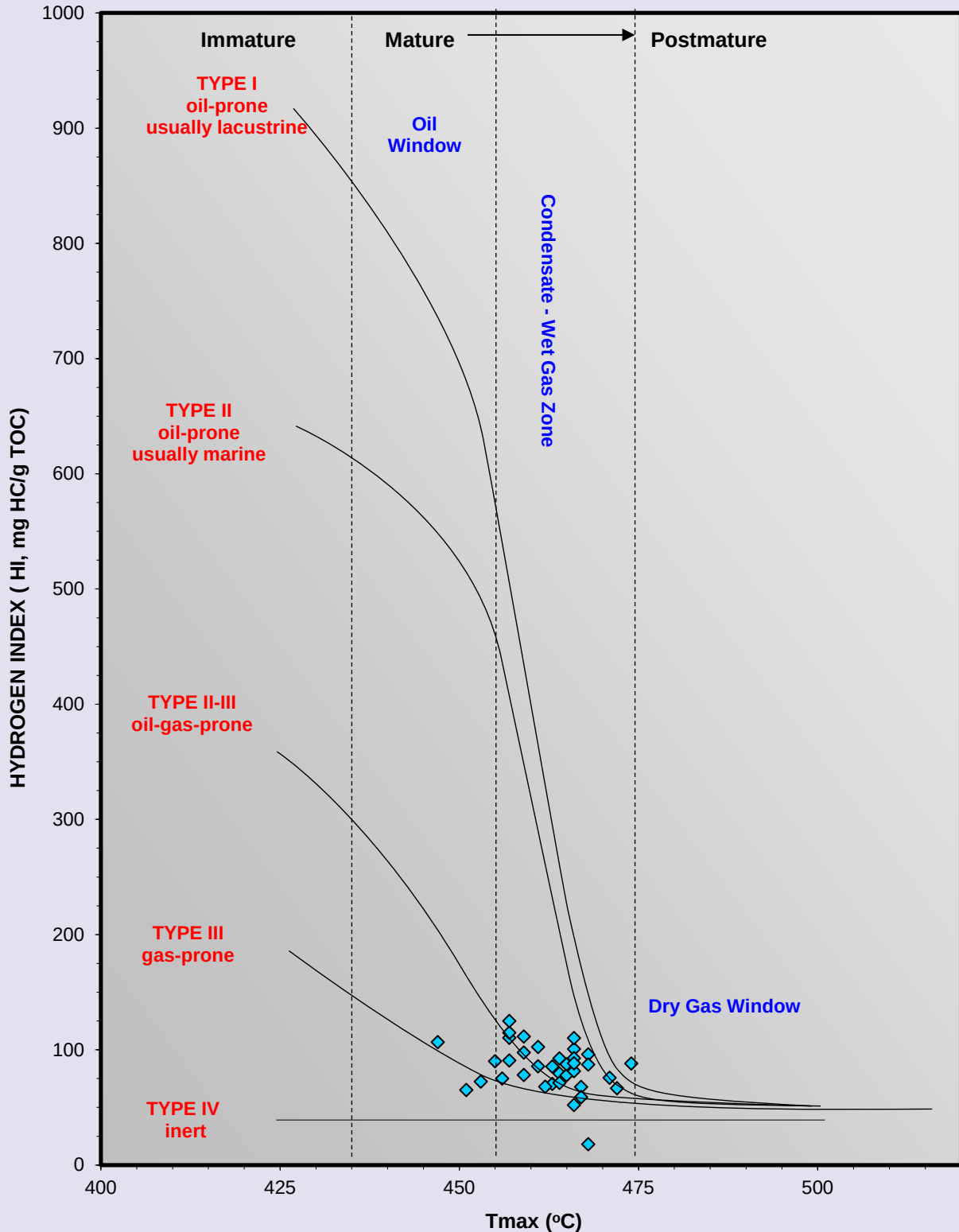




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

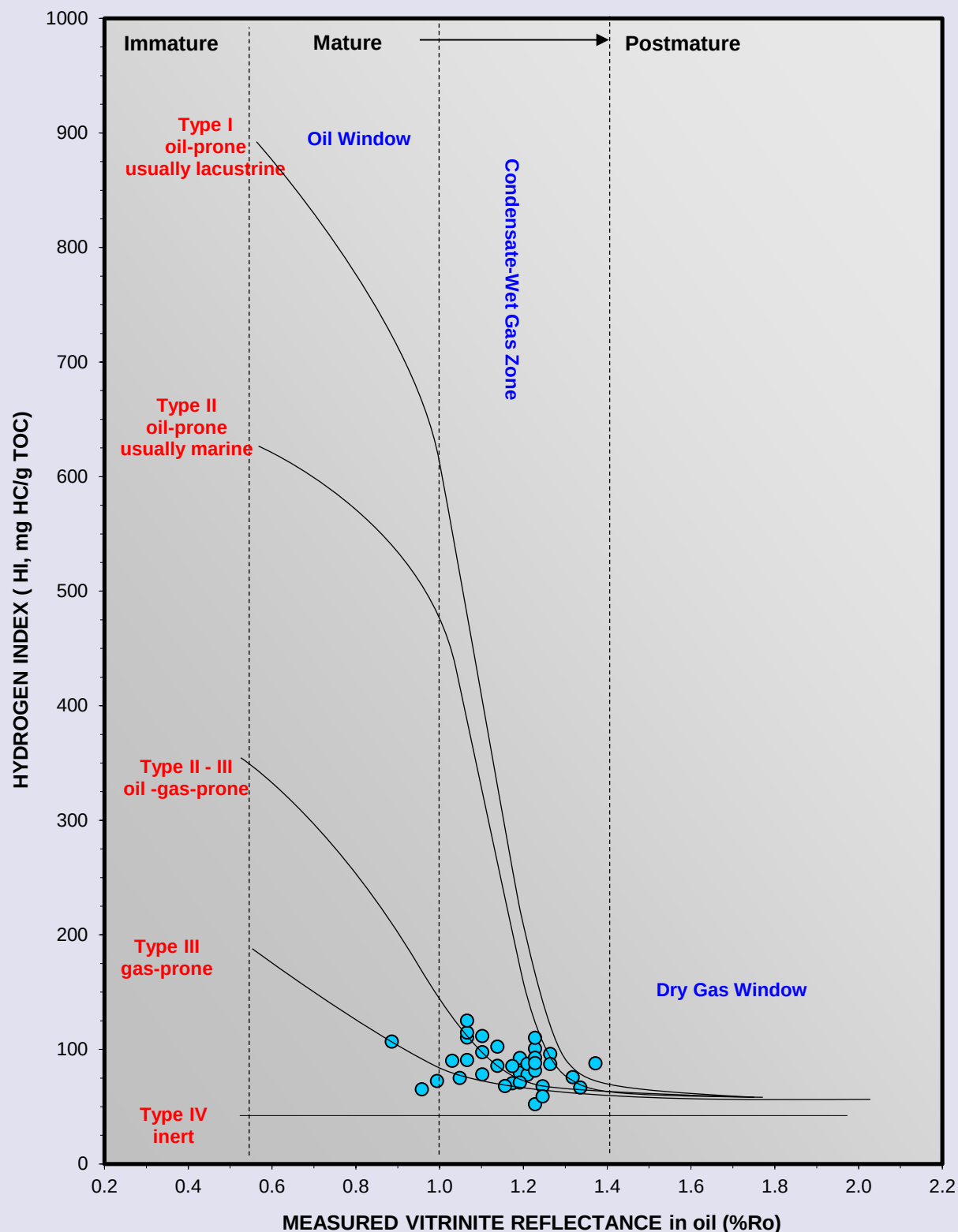
Project #: BH-63173 / BH-63173



KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173



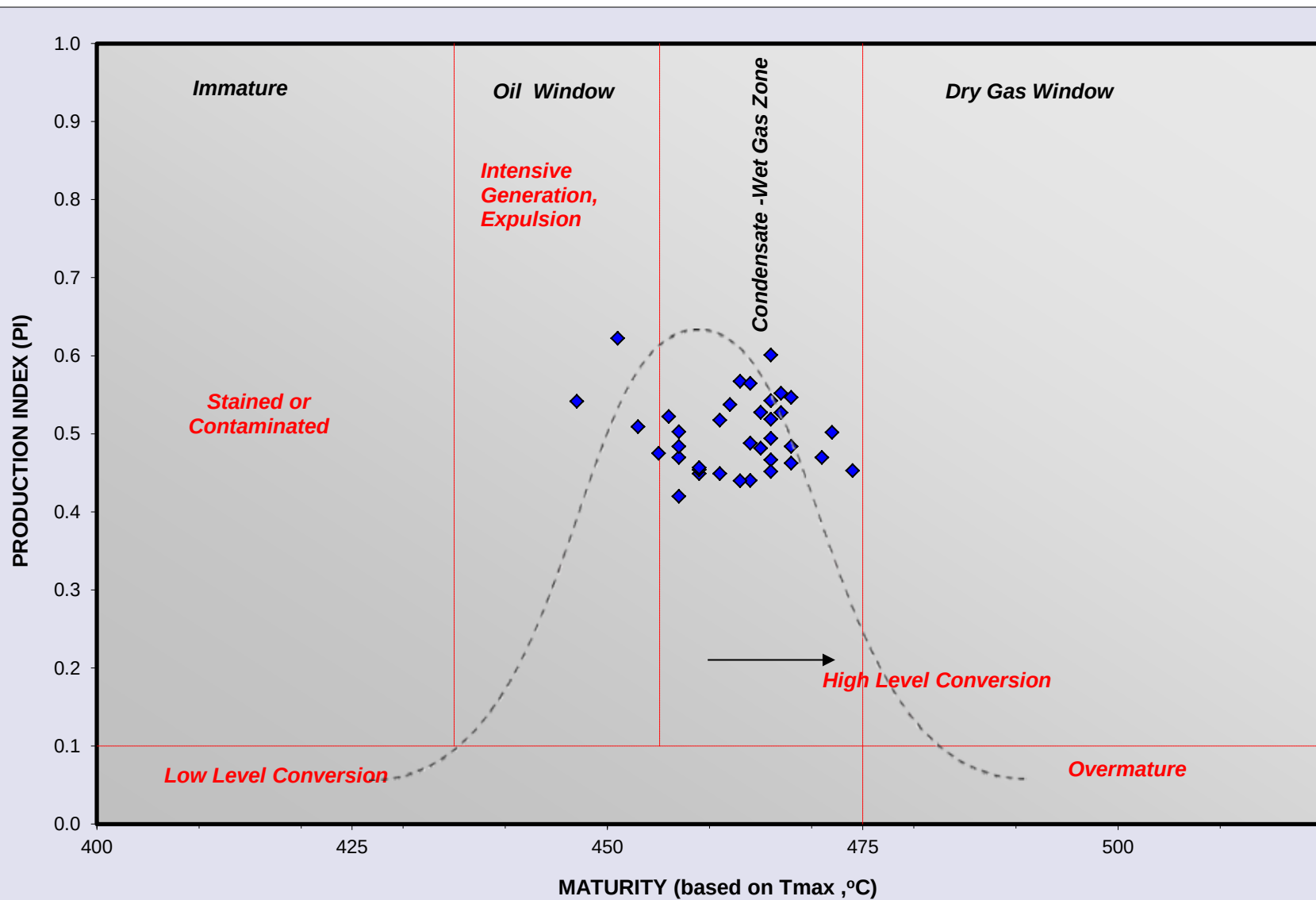


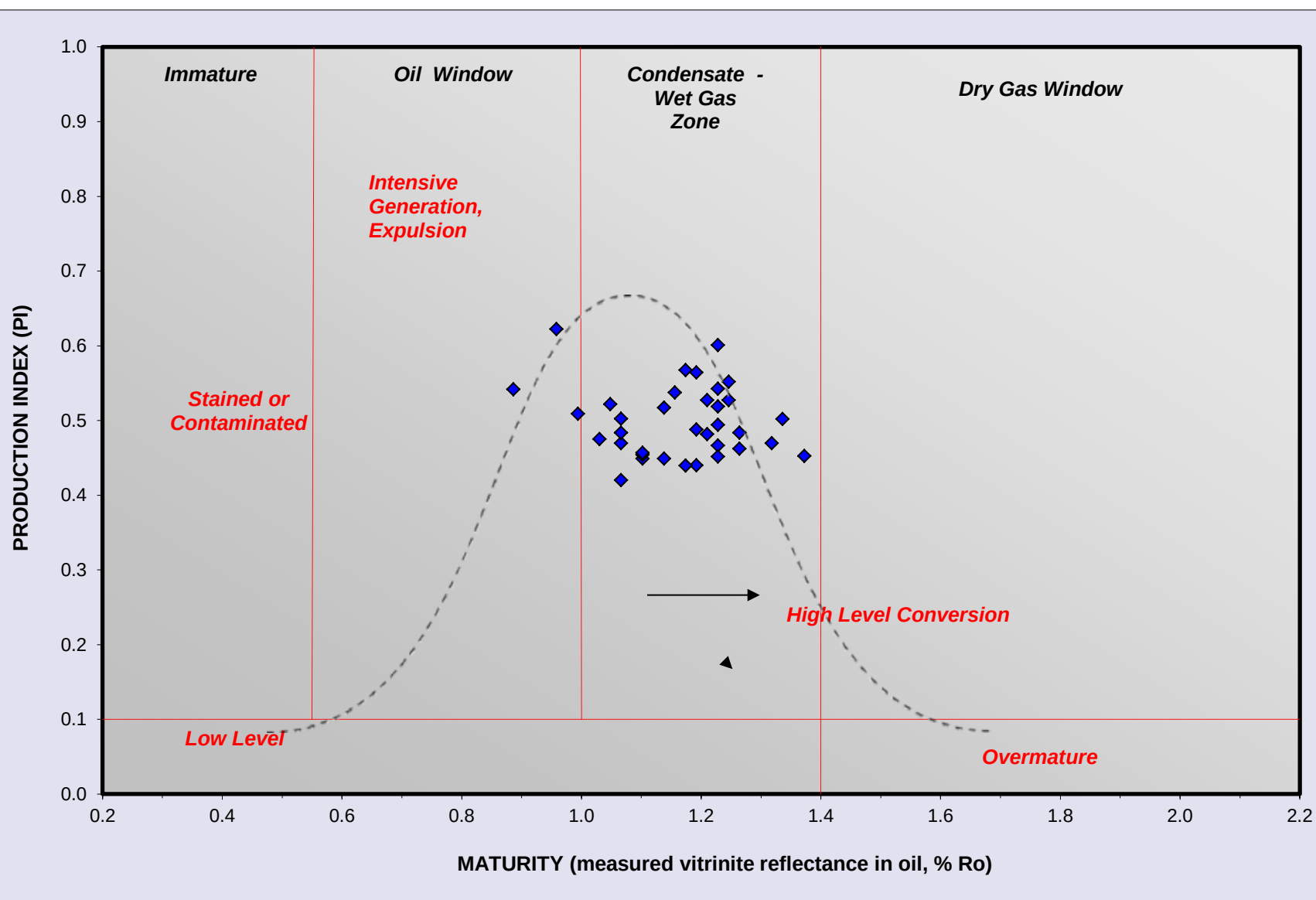
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KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173







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TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator :	State : NORTHWEST TERRITORY	Project No. :
API # : 3000066510127000	County :	BH-63173 / BH-63173	

Client ID	Depth (m) Top	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
							S1	S2	S3									Checks	Pyrogram	
CA004051	1630.66	IMPERIAL	Core Chip	NOPR		1.67	1.68	1.29	0.31	455		1.03	77	19	4.2	101	0.57	TOC	n:ts2p:hts2sh	CP317188
CA004052	1639.69	IMPERIAL	Core Chip	NOPR		2.69	2.66	2.48	0.50	463		1.17	92	19	5.0	99	0.52	TOC RE	n:ts2p:hts2sh	CP317189
CA004053	1649.25	UPPER CANOL	Core Chip	NOPR		2.96	2.74	2.56	0.44	463		1.17	87	15	5.8	93	0.52	TOC	n:ts2sh:hts2sh	CP317190
CA004054	1657.61	UPPER CANOL	Core Chip	NOPR		1.90	1.86	1.48	0.24	454		1.01	78	13	6.2	98	0.56	TOC	n:ts2p:hts2sh	CP317191
CA004055	1666.88	UPPER CANOL	Core Chip	NOPR		1.82	1.71	1.59	0.28	452		0.98	87	15	5.7	94	0.52	TOC	n:ts2p:hts2sh	CP317192
CA004056	1676.31	UPPER CANOL	Core Chip	NOPR		2.69	2.21	2.10	0.33	462		1.16	78	12	6.4	82	0.51	TOC	n:ts2sh:hts2sh	CP317193
CA004057	1685.15	LOWER CANOL	Core Chip	NOPR		3.23	3.21	3.05	0.53	468		1.26	95	16	5.8	100	0.51	TOC	hts2p:hts2sh	CP317194
CA004058	1694.04	LOWER CANOL	Core Chip	NOPR		3.29	4.99	3.52	0.50	462		1.16	107	15	7.0	151	0.59	TOC	n:ts2sh:hts2sh	CP317195
CA004059	1703.61	LOWER CANOL	Core Chip	NOPR		2.85	4.38	2.87	0.56	465		1.21	101	20	5.1	154	0.60	TOC RE	n:ts2sh:hts2sh	CP317196
CA004060	1712.11	LOWER CANOL	Core Chip	NOPR		3.63	5.80	3.79	0.41	466		1.23	104	11	9.2	160	0.60	TOC	n:ts2sh:hts2sh	CP317197
CA004061	1720.58	LOWER CANOL	Core Chip	NOPR		3.32	4.20	2.98	0.43	465		1.21	90	13	6.9	126	0.58	TOC	hts2p:hts2sh	CP317198
CA004062	1731.25	LOWER CANOL	Core Chip	NOPR		2.47	2.90	1.68	0.32	468		1.26	68	13	5.3	117	0.63	TOC	hts2p:hts2sh	CP317199
CA004063	1739.88	LOWER CANOL	Core Chip	NOPR		2.46	2.79	2.31	0.63	458		1.08	94	26	3.7	113	0.55	TOC RE	hts2p:hts2sh	CP317200
CA004064	1749.12	LOWER CANOL	Core Chip	NOPR		2.18	1.71	1.28	0.54	471		1.32	59	25	2.4	78	0.57	TOC RE	hts2p:hts2sh	CP317201
CA004065	1758.81	LOWER CANOL	Core Chip	NOPR		3.97	3.93	3.35	0.70	469		1.28	84	18	4.8	99	0.54	TOC	hts2p:hts2sh	CP317202
CA004066	1767.56	LOWER CANOL	Core Chip	NOPR		3.63	6.66	3.92	0.43	469		1.28	108	12	9.1	183	0.63	TOC	hts2p:hts2sh	CP317203
CA004067	1776.91	LOWER CANOL	Core Chip	NOPR		4.81	8.71	6.50	0.46	461		1.14	135	10	14.1	181	0.57	TOC RE	hts2p:hts2sh	CP317204
CA004068	1786.3	LOWER CANOL	Core Chip	NOPR		3.23	4.00	3.16	0.53	468		1.26	98	16	6.0	124	0.56	TOC	hts2p:hts2sh	CP317205
CA004069	1794.62	HARE INDIAN	Core Chip	NOPR		2.79	2.98	2.88	0.36	465		1.21	103	13	8.0	107	0.51	TOC RE	hts2p:hts2sh	CP317206
CA004070	1803.81	BLUEFISH	Core Chip	NOPR		3.95	3.99	3.66	0.62	472		1.34	93	16	5.9	101	0.52	TOC	hts2p:hts2sh	CP317207

Notes

"f" - not measured or invalid value
TOC - Total Organic Carbon, wt. %
S1 - volatile hydrocarbon (HC) content, mg HC/g rock
S2 - remaining HC generative potential, mg HC/g rock
S3 - carbon dioxide content, mg CO₂/g rock

* - Sample contaminated
** - low S2, Tmax is unreliable
Meas. %Ro - measured vitrinite reflectance
HI - Hydrogen Index = S2 x 100 / TOC, mg HC/g TOC
OI - Oxygen Index = S3 x 100 / TOC, mg CO₂/g TOC
PI - Production Index = S1 / (S1+S2)

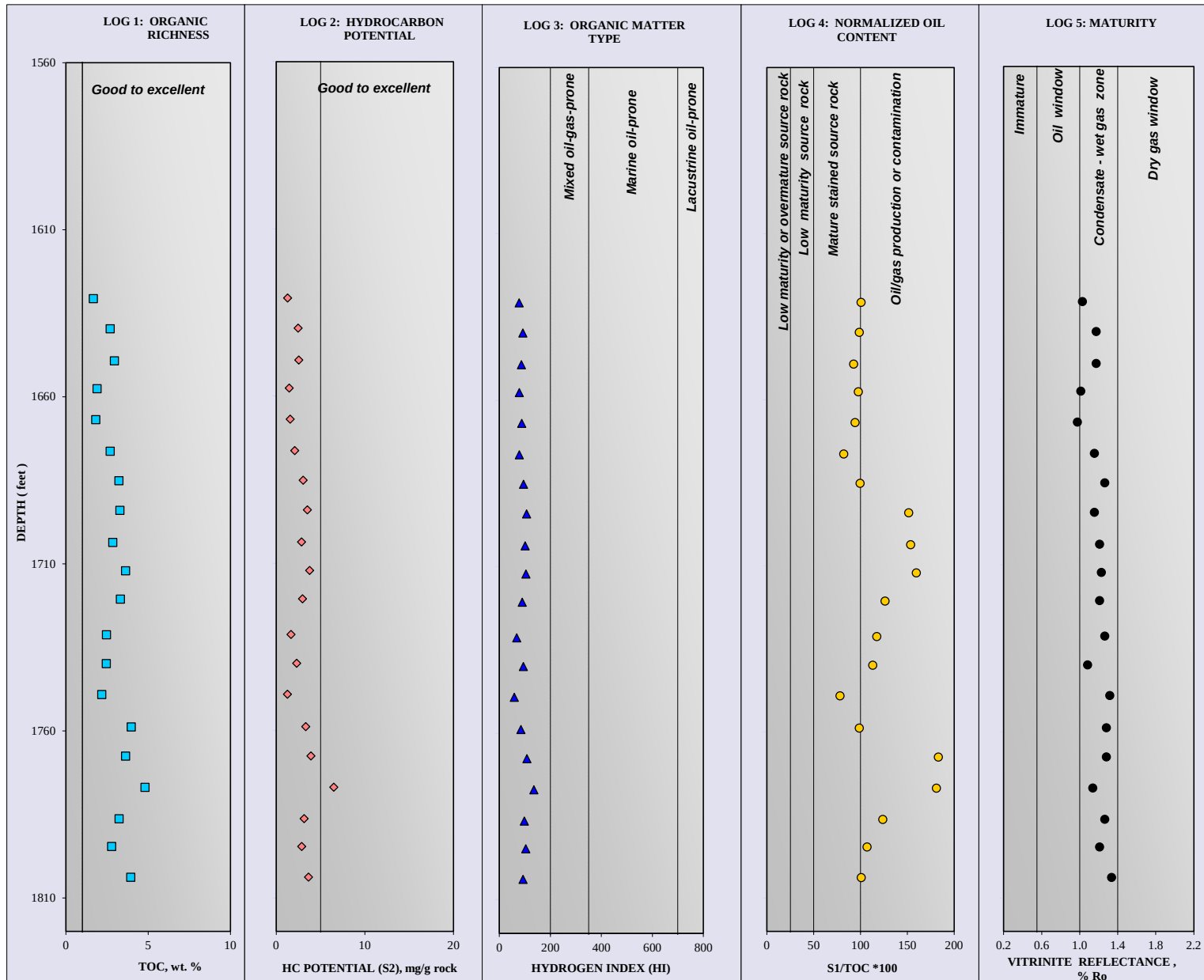
Pyrogram:
f - flat S2 peak
n - normal
ITS2sh - low temperature S2 shoulder
ITS2p - low temperature S2 peak
HTS2p - high temperature S2 peak

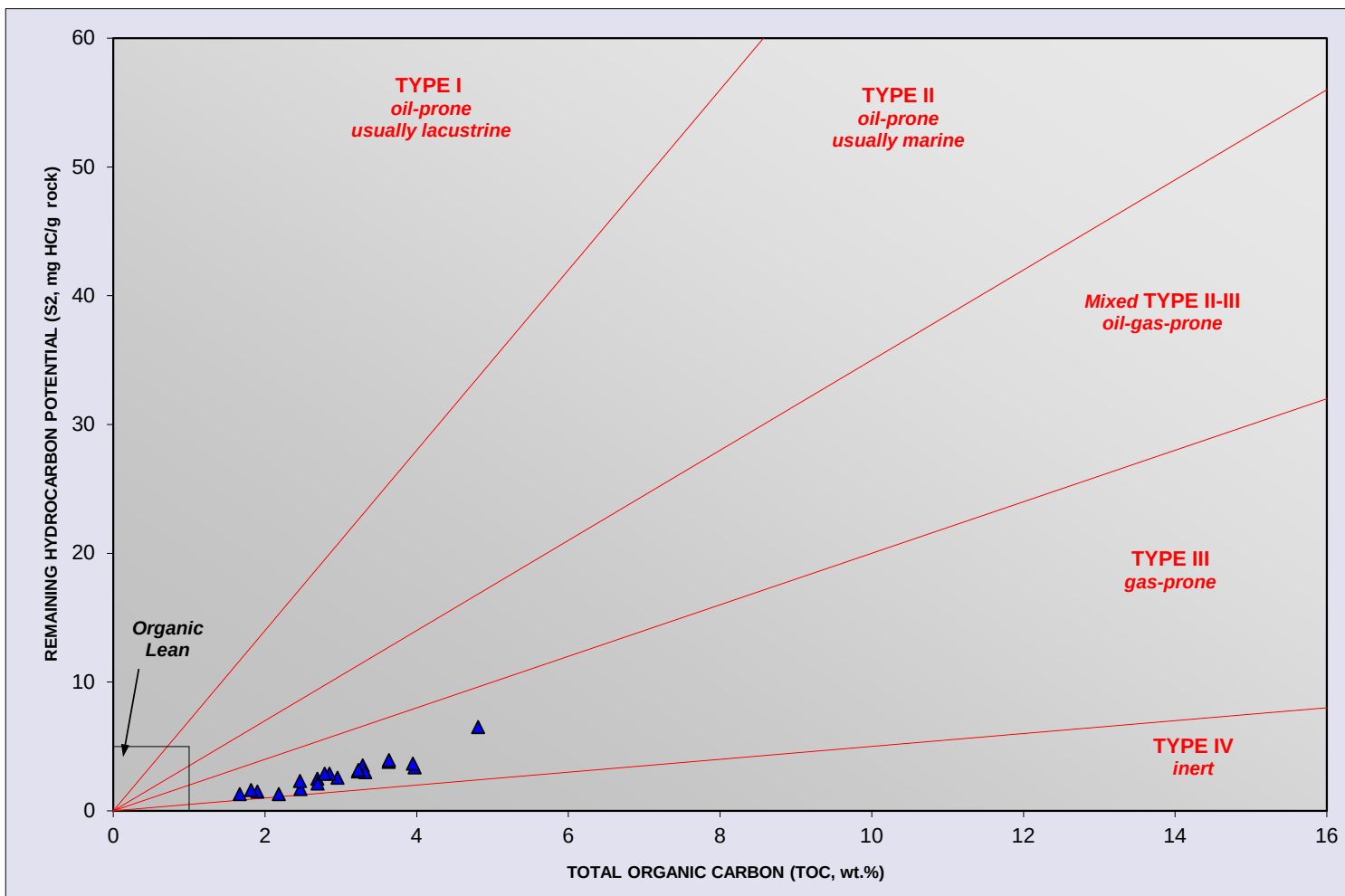
LECO - TOC on LECO Instrument
SRA - Programmed Pyrolysis on SRA instrument
RE - Programmed Pyrolysis on Rock-Eval instrument
EXT - Extruded Rock
NOPR - Normal Preparation

GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

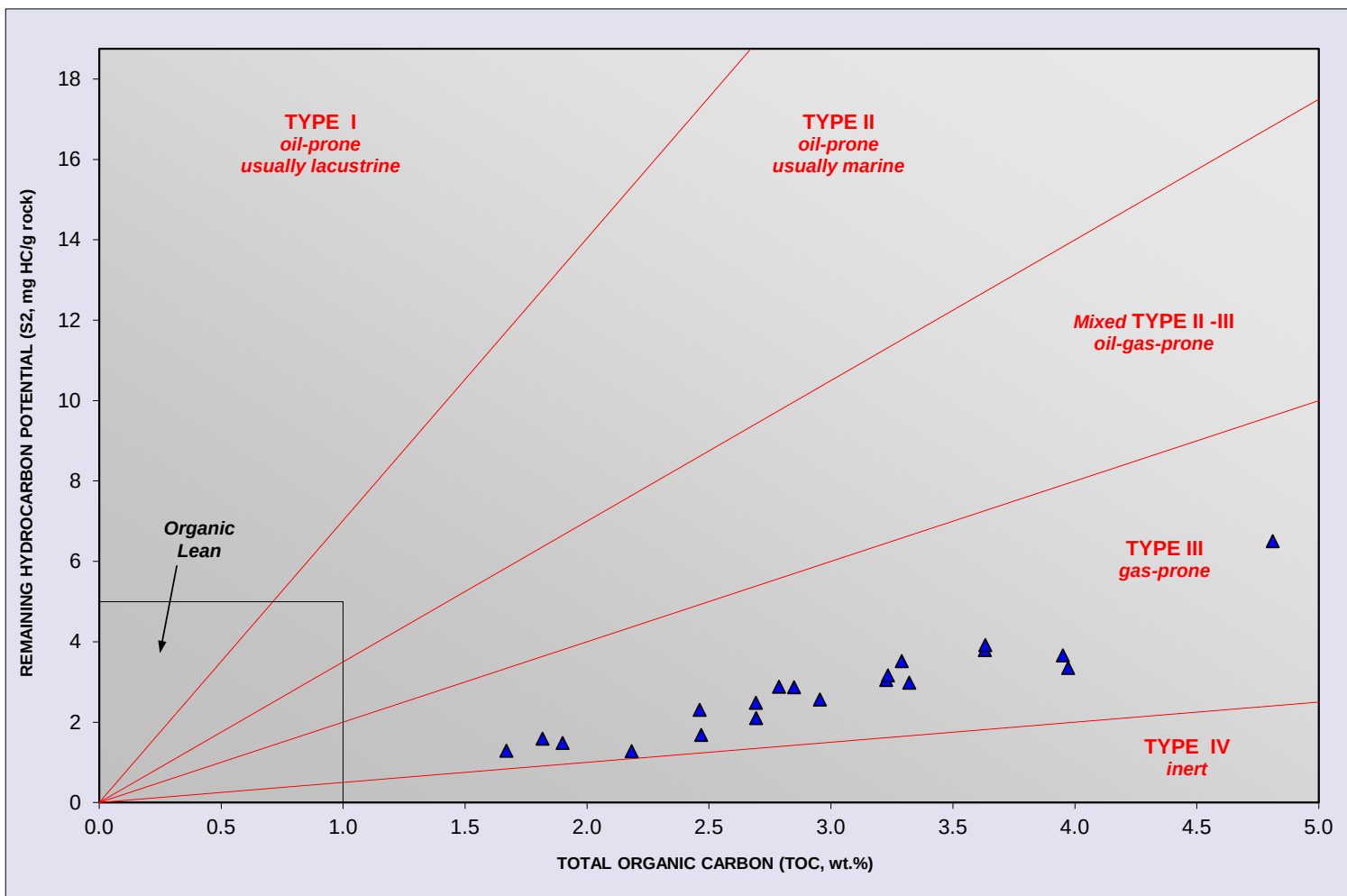




KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

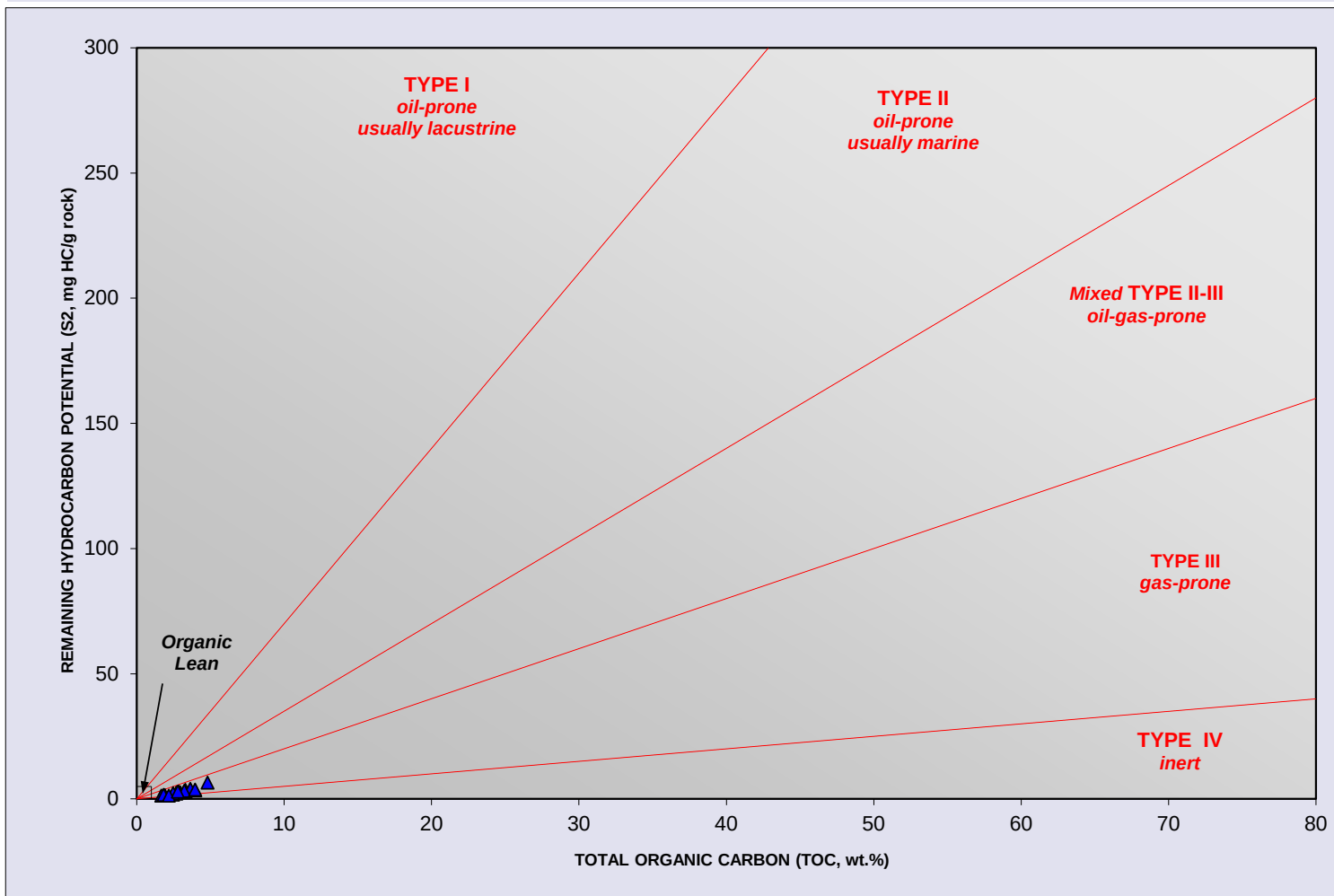
Project #: BH-63173 / BH-63173

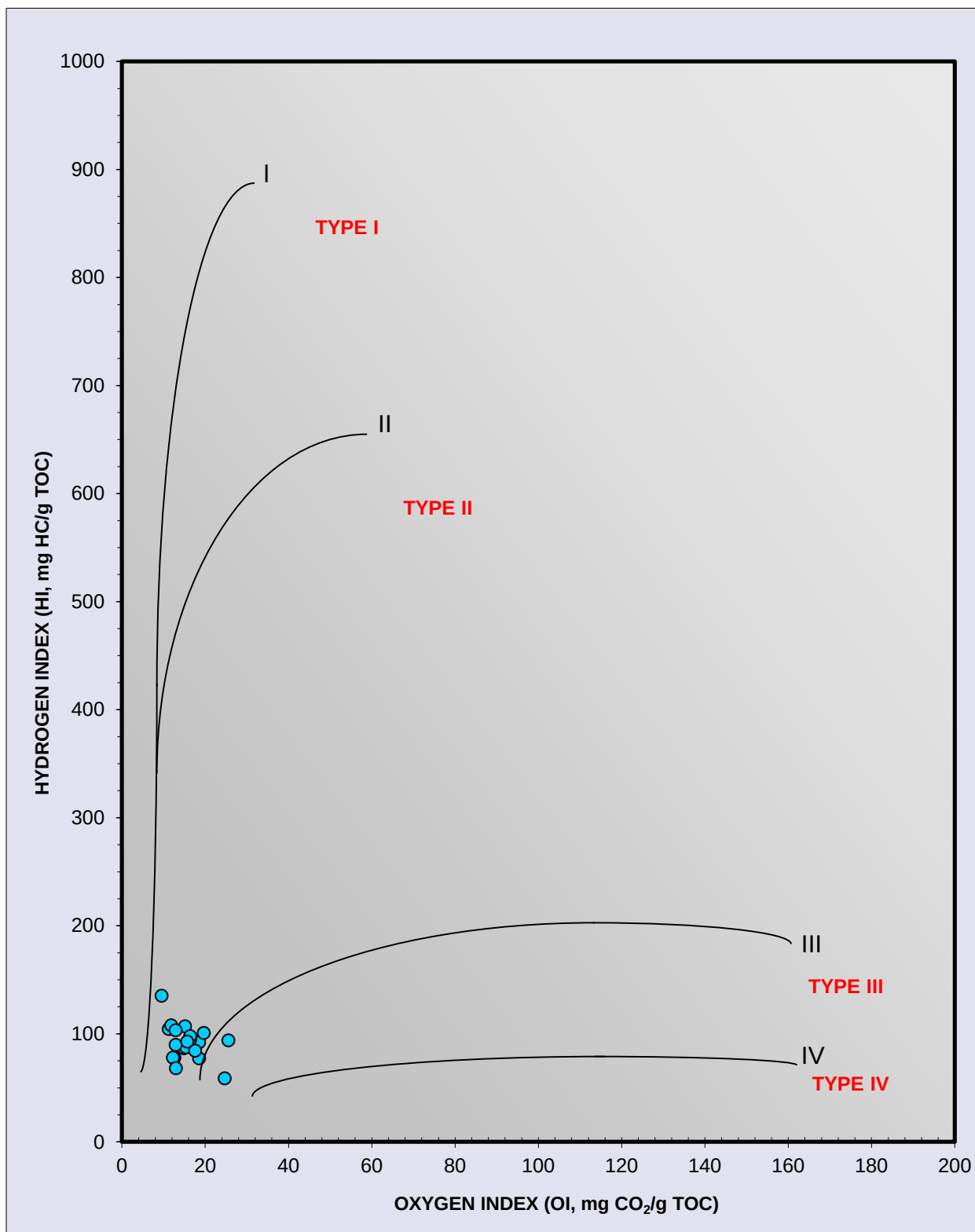


KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

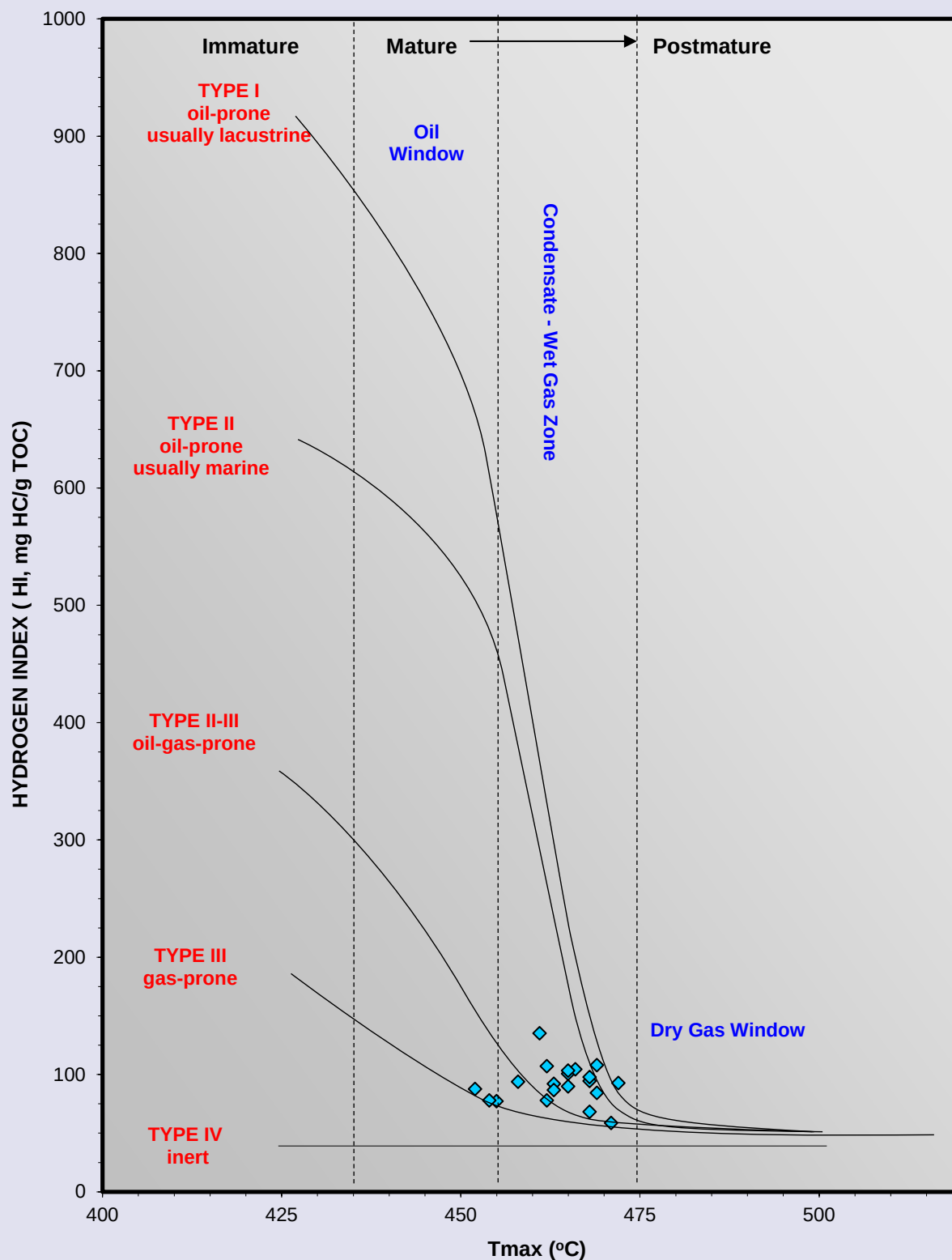




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173



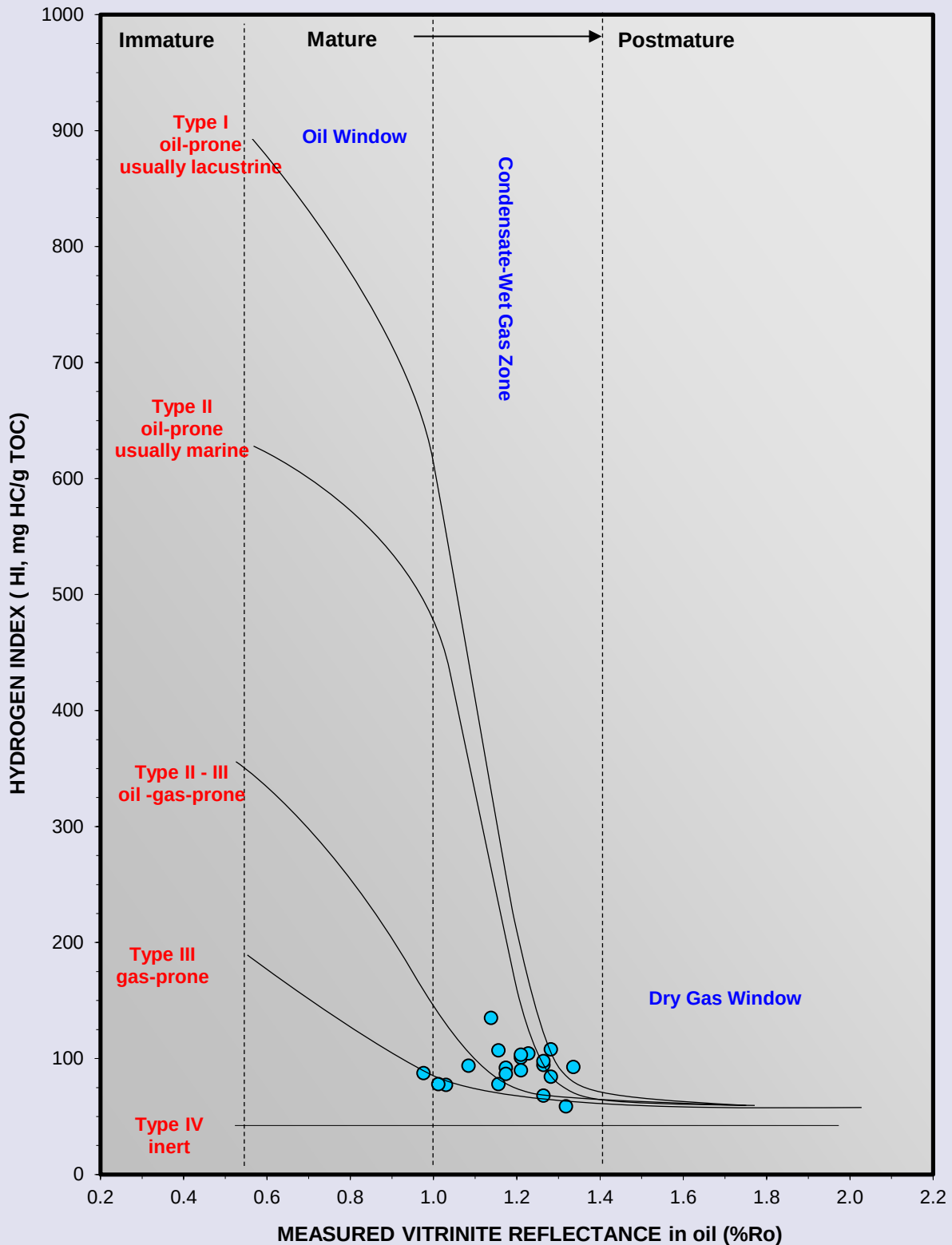


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KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173



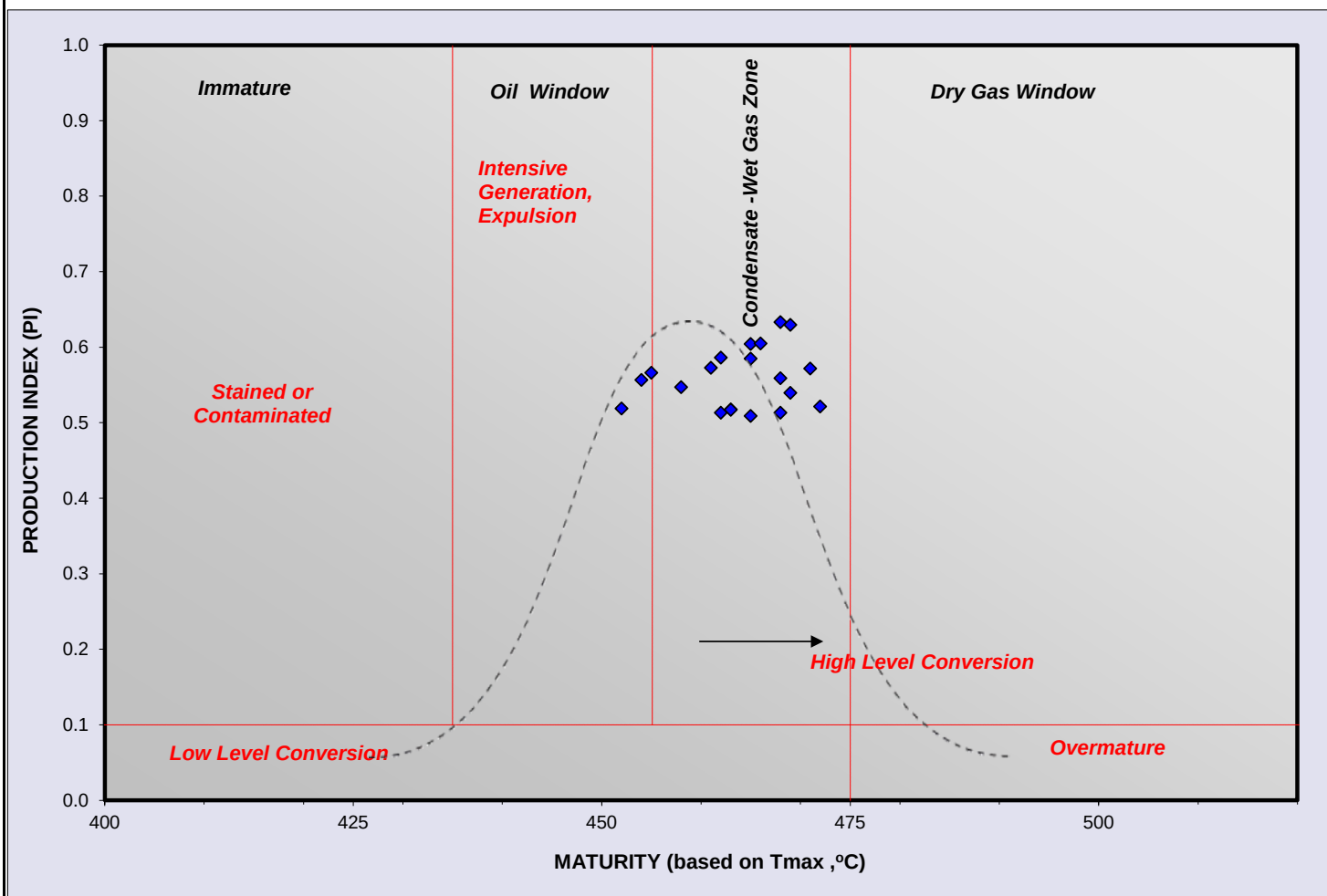


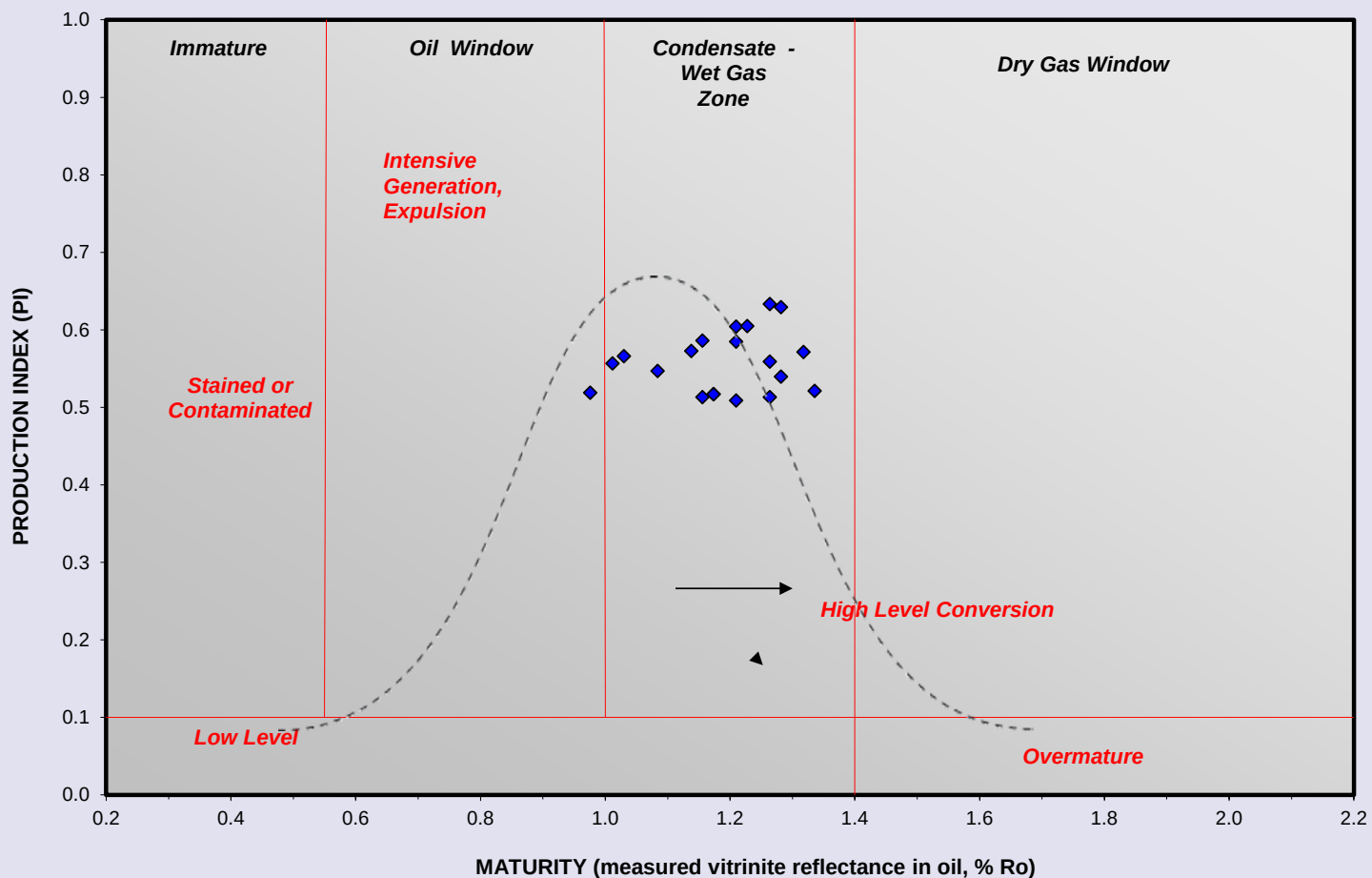
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LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173







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LABORATORIES

TOTAL ORGANIC CARBON, PROGRAMMED PYROLYSIS DATA
CONOCOPHILLIPS

Well Name : COPRC LOON CREEK O-06	Operator : API # : 300O066510127000	State : NORTHWEST TERRITORY County :	Project No. : BH-63173 / BH-63173

Client ID	Depth (m)	Formation	Sample Type	Sample Prep	*	Leco TOC	RE			Tmax (°C)	**	Ro, %	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
	Top						S1	S2	S3									Checks	Pyrogram	
CA004051	1630.66	IMPERIAL	Core Chip	NOPR		1.67	1.68	1.29	0.31	455		1.03	77	19	4.2	101	0.57	TOC	n:ltS2p:htS2sh	CP317188
CA004052	1639.69	IMPERIAL	Core Chip	NOPR		2.69	2.66	2.48	0.50	463		1.17	92	19	5.0	99	0.52	TOC RE	n:ltS2p:htS2sh	CP317189
CA004053	1649.25	UPPER CANOL	Core Chip	NOPR		2.96	2.74	2.56	0.44	463		1.17	87	15	5.8	93	0.52	TOC	n:ltS2sh:htS2sh	CP317190
CA004054	1657.61	UPPER CANOL	Core Chip	NOPR		1.90	1.86	1.48	0.24	454		1.01	78	13	6.2	98	0.56	TOC	n:ltS2p:htS2sh	CP317191
CA004055	1666.88	UPPER CANOL	Core Chip	NOPR		1.82	1.71	1.59	0.28	452		0.98	87	15	5.7	94	0.52	TOC	n:ltS2p:htS2sh	CP317192
CA004056	1676.31	UPPER CANOL	Core Chip	NOPR		2.69	2.21	2.10	0.33	462		1.16	78	12	6.4	82	0.51	TOC	n:ltS2sh:htS2sh	CP317193
CA004057	1685.15	LOWER CANOL	Core Chip	NOPR		3.23	3.21	3.05	0.53	468		1.26	95	16	5.8	100	0.51	TOC	htS2p:ltS2sh	CP317194
CA004058	1694.04	LOWER CANOL	Core Chip	NOPR		3.29	4.99	3.52	0.50	462		1.16	107	15	7.0	151	0.59	TOC	n:ltS2sh:htS2sh	CP317195
CA004059	1703.61	LOWER CANOL	Core Chip	NOPR		2.85	4.38	2.87	0.56	465		1.21	101	20	5.1	154	0.60	TOC RE	n:ltS2sh:htS2sh	CP317196
CA004060	1712.11	LOWER CANOL	Core Chip	NOPR		3.63	5.80	3.79	0.41	466		1.23	104	11	9.2	160	0.60	TOC	n:ltS2sh:htS2sh	CP317197
CA004061	1720.58	LOWER CANOL	Core Chip	NOPR		3.32	4.20	2.98	0.43	465		1.21	90	13	6.9	126	0.58	TOC	htS2p:ltS2sh	CP317198
CA004062	1731.25	LOWER CANOL	Core Chip	NOPR		2.47	2.90	1.68	0.32	468		1.26	68	13	5.3	117	0.63	TOC	htS2p:ltS2sh	CP317199
CA004063	1739.88	LOWER CANOL	Core Chip	NOPR		2.46	2.79	2.31	0.63	458		1.08	94	26	3.7	113	0.55	TOC RE	htS2p:ltS2sh	CP317200
CA004064	1749.12	LOWER CANOL	Core Chip	NOPR		2.18	1.71	1.28	0.54	471		1.32	59	25	2.4	78	0.57	TOC RE	htS2p:ltS2sh	CP317201
CA004065	1758.81	LOWER CANOL	Core Chip	NOPR		3.97	3.93	3.35	0.70	469		1.28	84	18	4.8	99	0.54	TOC	htS2p:ltS2sh	CP317202
CA004066	1767.56	LOWER CANOL	Core Chip	NOPR		3.63	6.66	3.92	0.43	469		1.28	108	12	9.1	183	0.63	TOC	htS2p:ltS2sh	CP317203
CA004067	1776.91	LOWER CANOL	Core Chip	NOPR		4.81	8.71	6.50	0.46	461		1.14	135	10	14.1	181	0.57	TOC RE	htS2p:ltS2sh	CP317204
CA004068	1786.3	LOWER CANOL	Core Chip	NOPR		3.23	4.00	3.16	0.53	468		1.26	98	16	6.0	124	0.56	TOC	htS2p:ltS2sh	CP317205
CA004069	1794.62	HARE INDIAN	Core Chip	NOPR		2.79	2.98	2.88	0.36	465		1.21	103	13	8.0	107	0.51	TOC RE	htS2p:ltS2sh	CP317206
CA004070	1803.81	BLUEFISH	Core Chip	NOPR		3.95	3.99	3.66	0.62	472		1.34	93	16	5.9	101	0.52	TOC	htS2p:ltS2sh	CP317207

Notes:

"-1" – not measured or invalid value
TOC - Total Organic Carbon, wt. %
S1 - volatile hydrocarbon (HC) content, mg HC/g rock
S2 - remaining HC generative potential, mg HC/g rock
S3 - carbon dioxide content, mg CO₂/g rock

* - Sample contaminated
** - low S2, Tmax is unreliable
Meas. %Ro - measured vitrinite reflectance
HI - Hydrogen index = S2 x 100 / TOC, mg HC/g TOC
OI - Oxygen Index = S3 x 100 / TOC, mg CO₂/g TOC
PI - Production Index = S1 / (S1+S2)

Pyrogram:

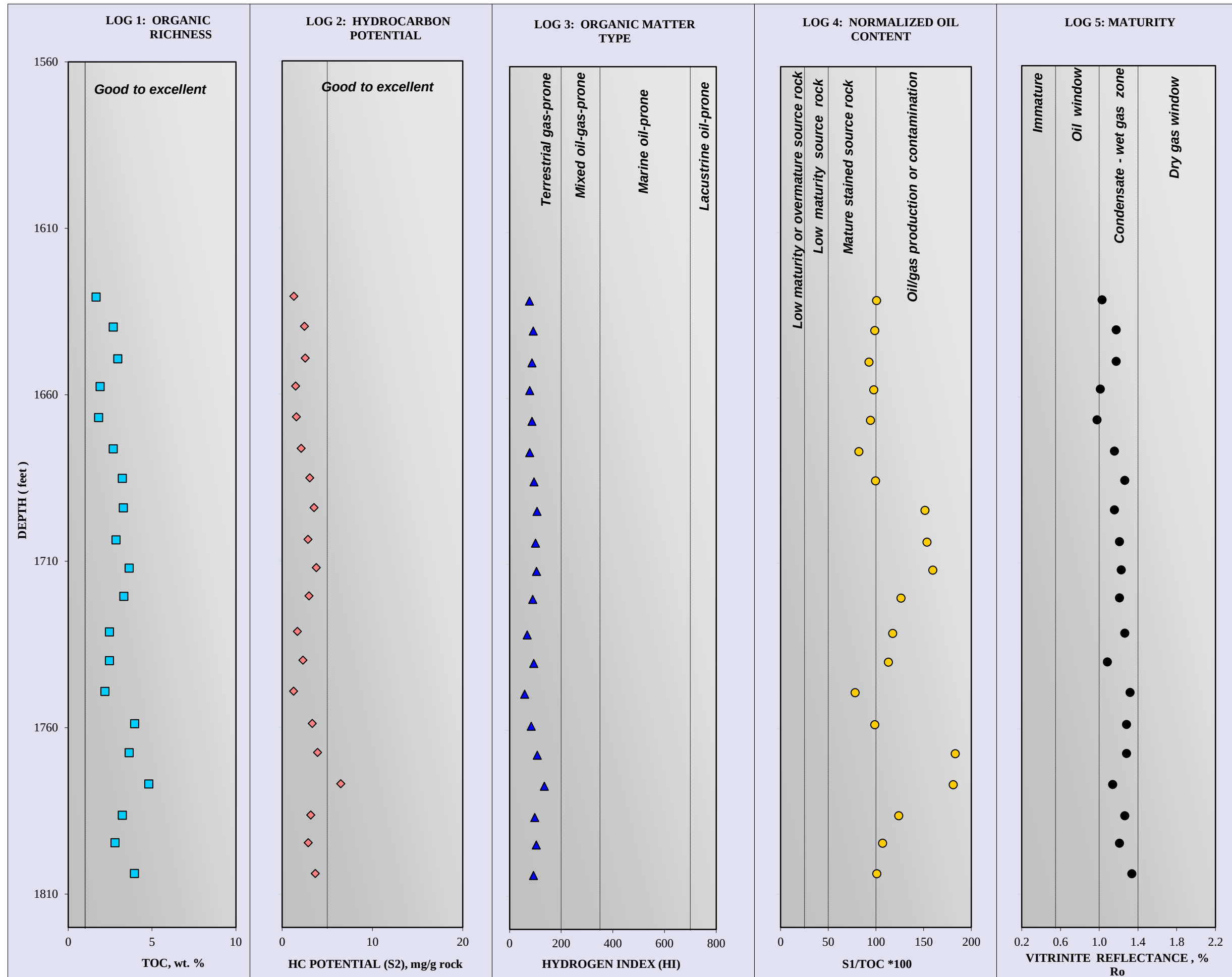
f - flat S2 peak
n - normal
ltS2sh - low temperature S2 shoulder
ltS2p - low temperature S2 peak
htS2p - high temperature S2 peak

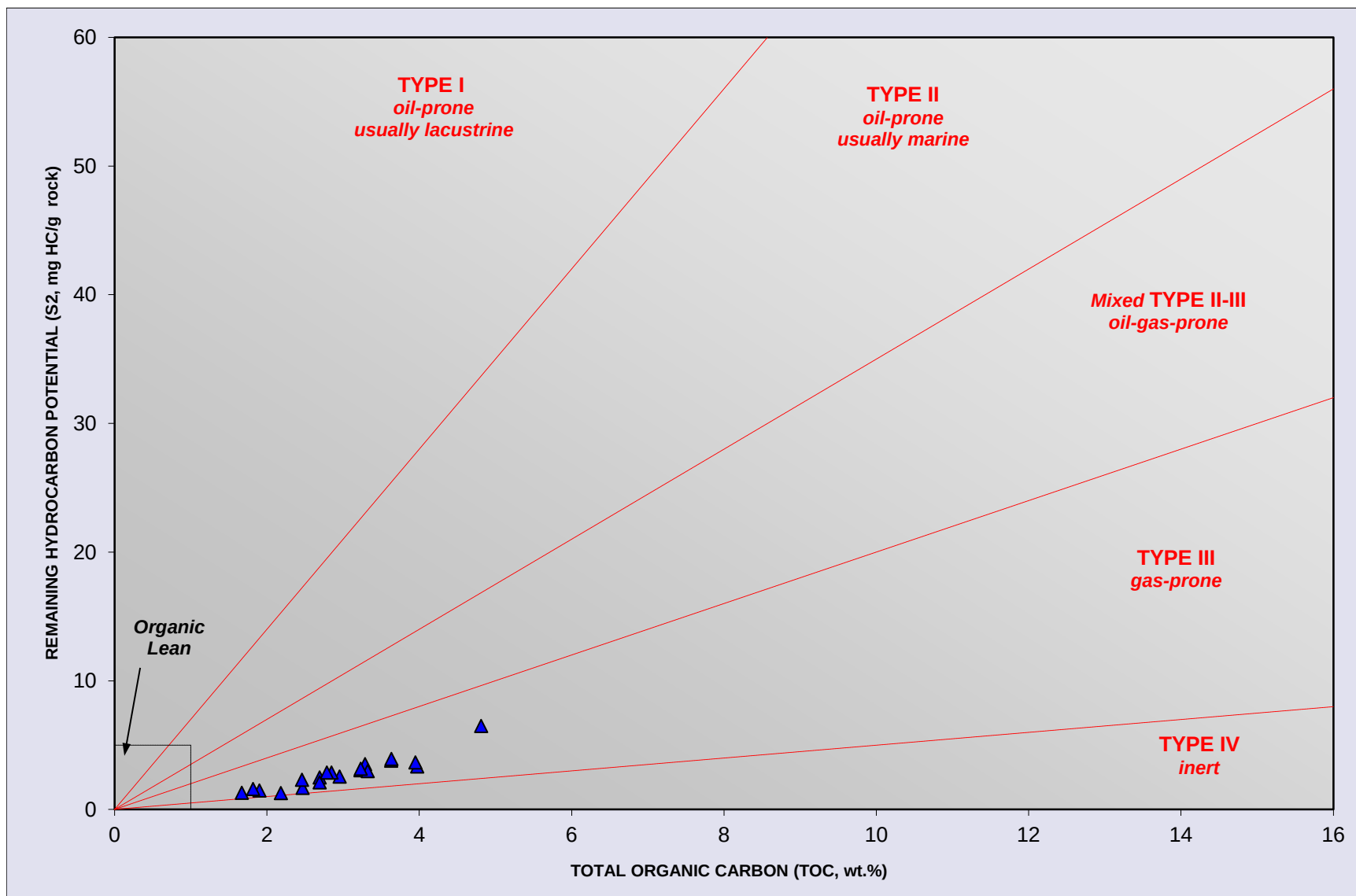
LECO - TOC on LECO Instrument
SRA - Programmed Pyrolysis on SRA instrument
RE - Programmed Pyrolysis on Rock-Eval instrument
EXT - Extruded Rock
NOPR - Normal Preparation

GEOCHEMICAL LOGS - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

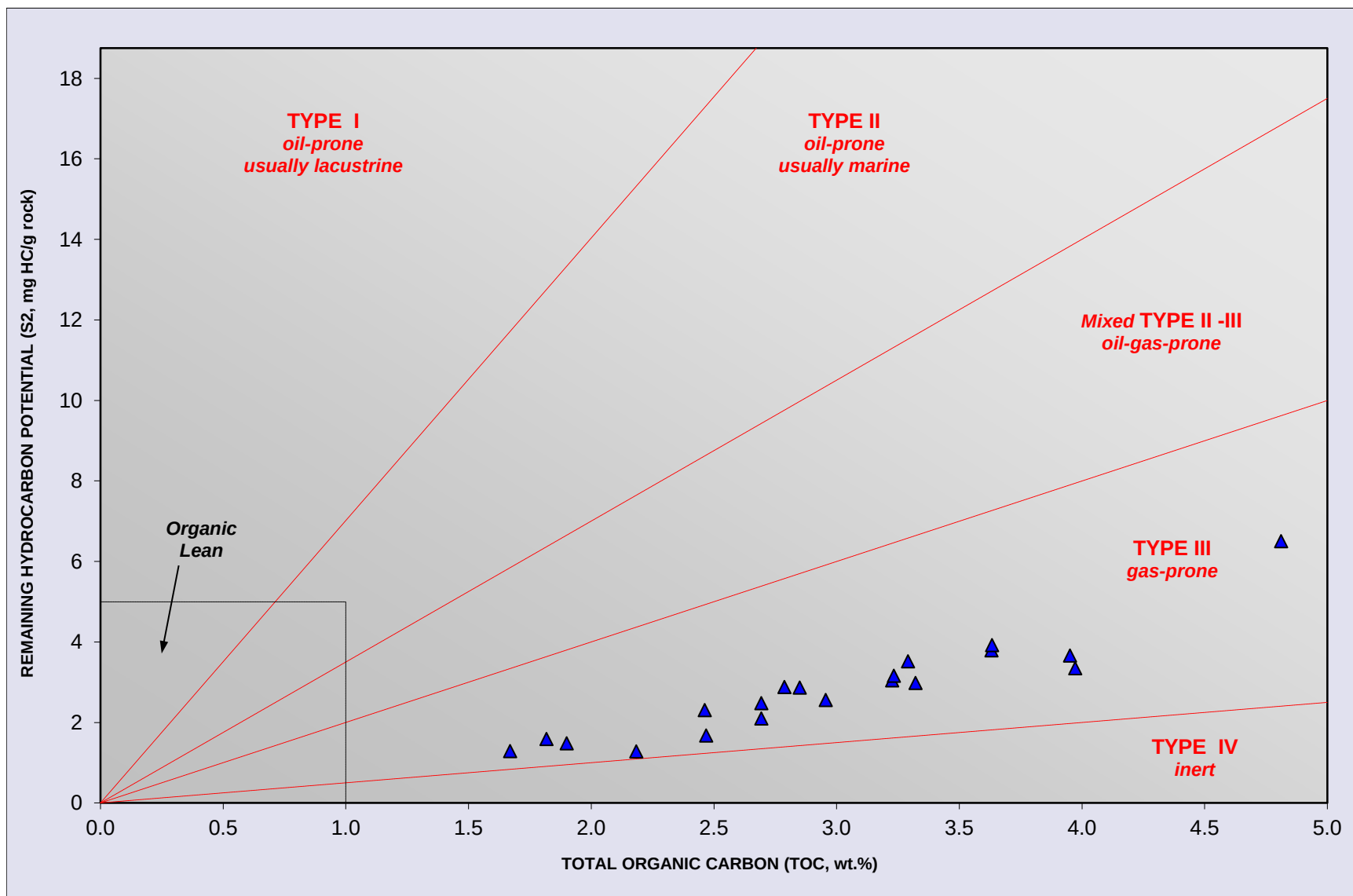


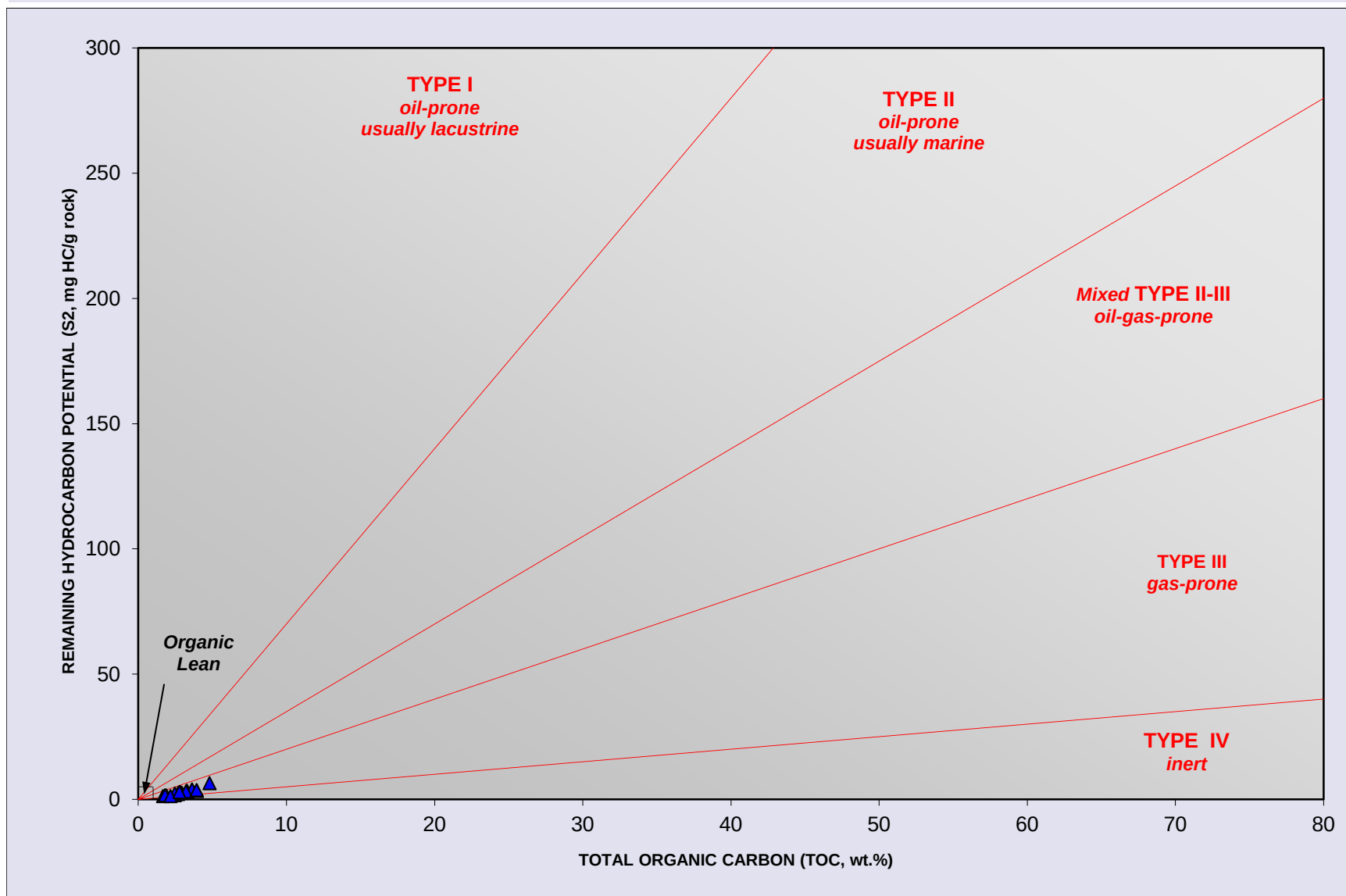


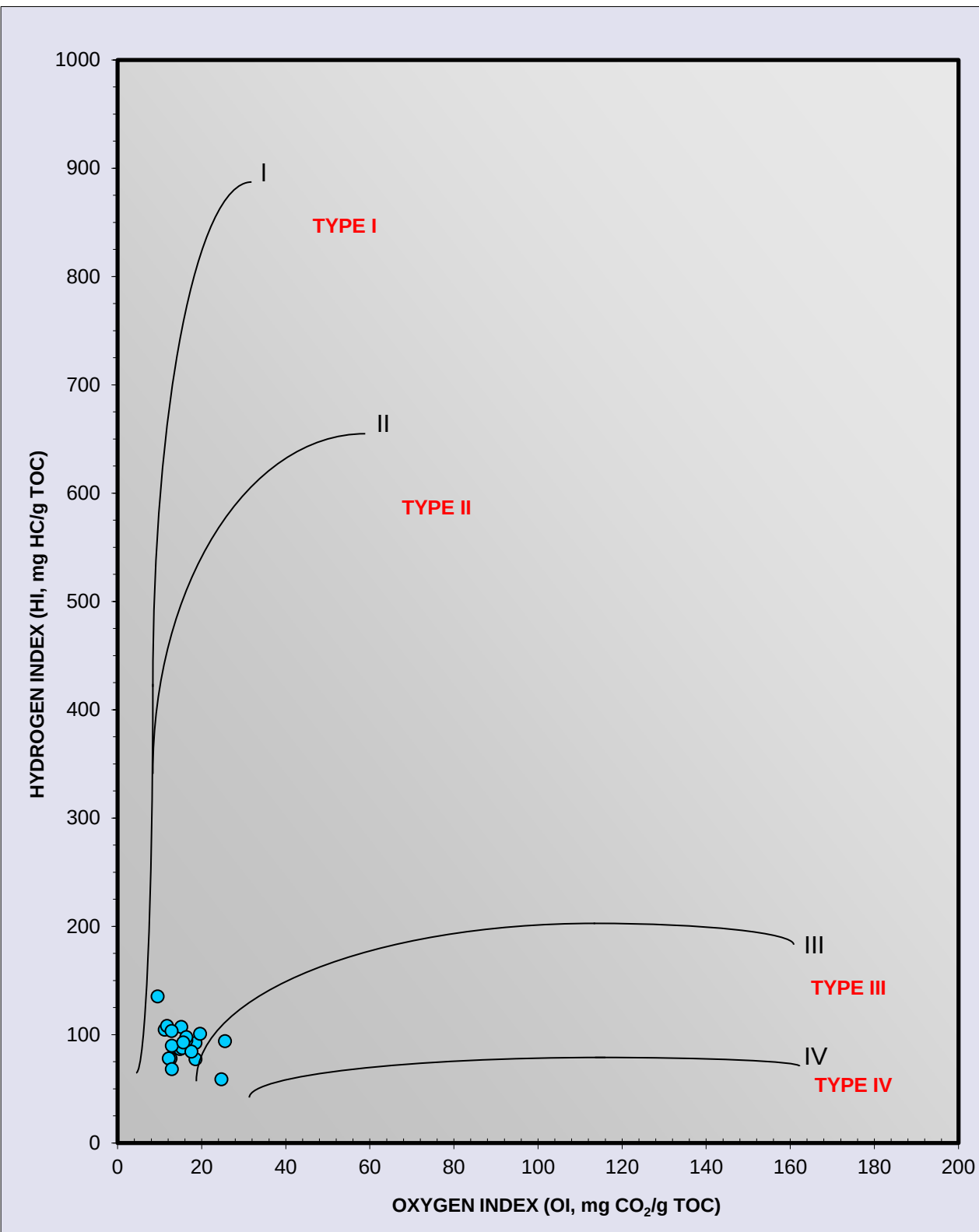
KEROGEN QUALITY PLOT - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173



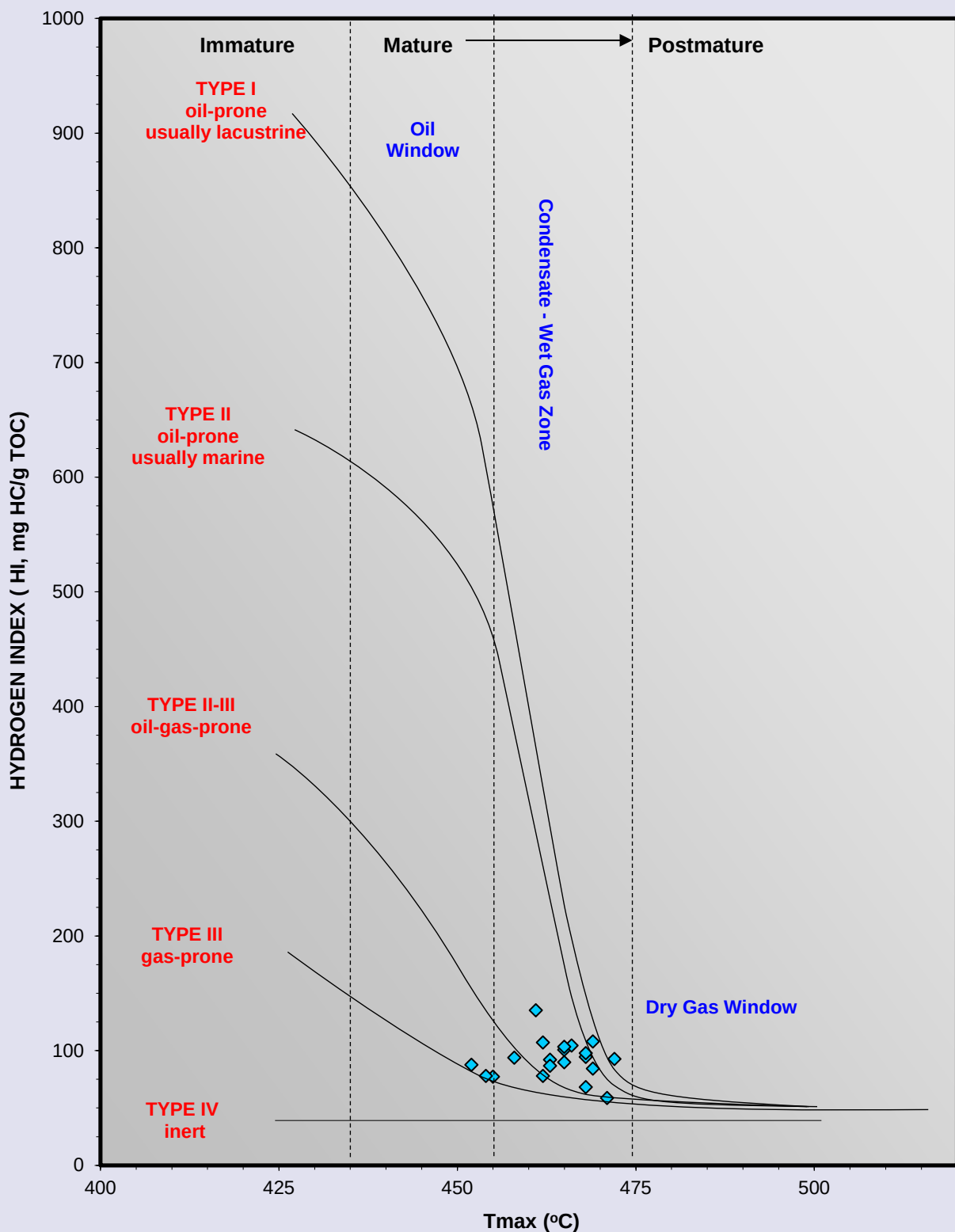




KEROGEN TYPE AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

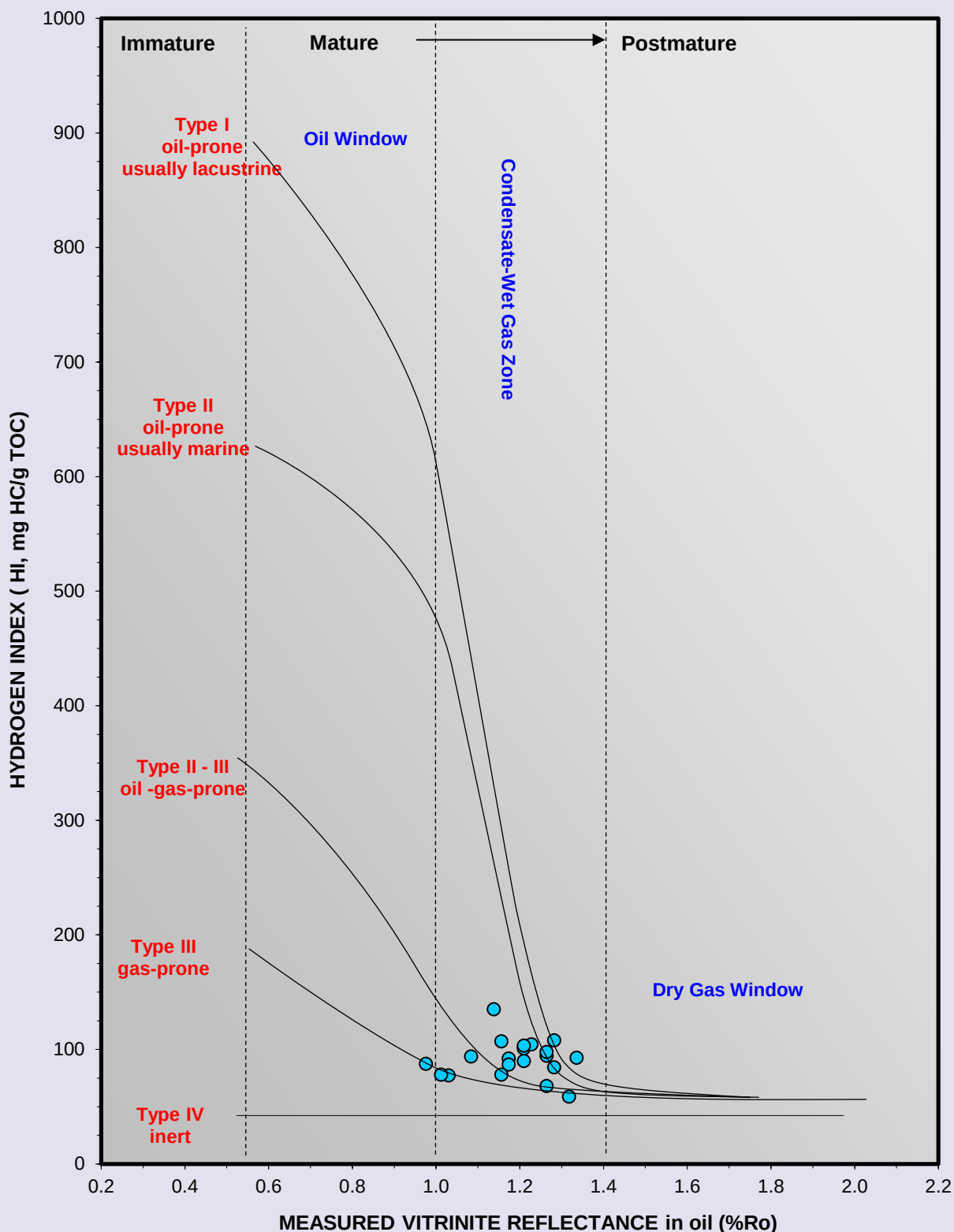
Project #: BH-63173 / BH-63173



KEROGEN TYPE AND MATURITY (%Ro) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project# : BH-63173 / BH-63173





Weatherford
LABORATORIES

KEROGEN CONVERSION AND MATURITY (Tmax) - COPRC LOON CREEK O-06

Company: CONOCOPHILLIPS

Project #: BH-63173 / BH-63173

