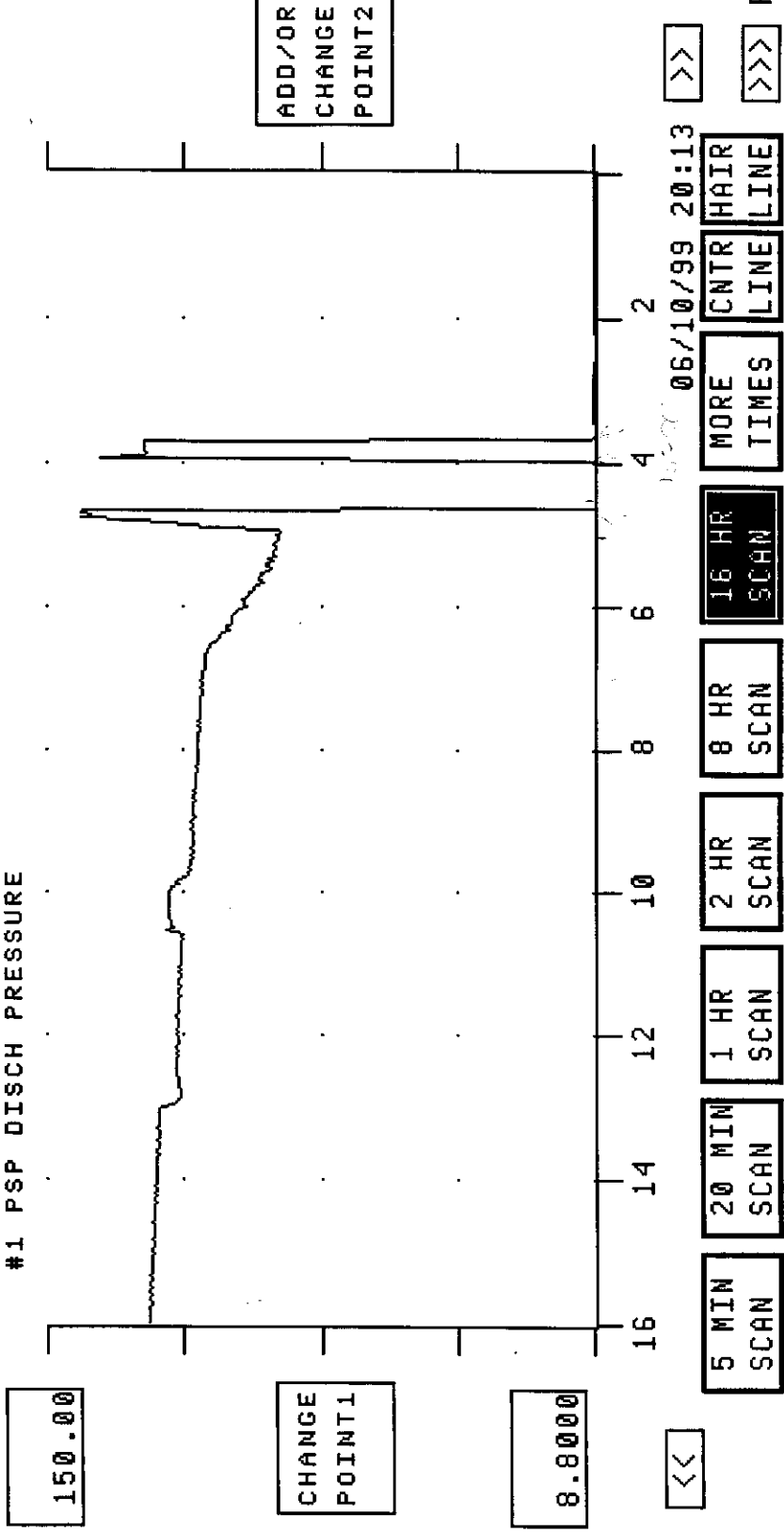


Appendix R

ARCO Interview Notes and Documentation

Pipeline Rupture and Fire
Bellingham, Washington
June 10, 1999
DCA-99-MP-008

#1 PSP DISCH PRESSURE



150.00

CHANGE POINT1

8.8000

<<<

>>>

5 MIN SCAN

20 MIN SCAN

1 HR SCAN

2 HR SCAN

8 HR SCAN

16 HR SCAN

MORE TIMES

CNTR LINE

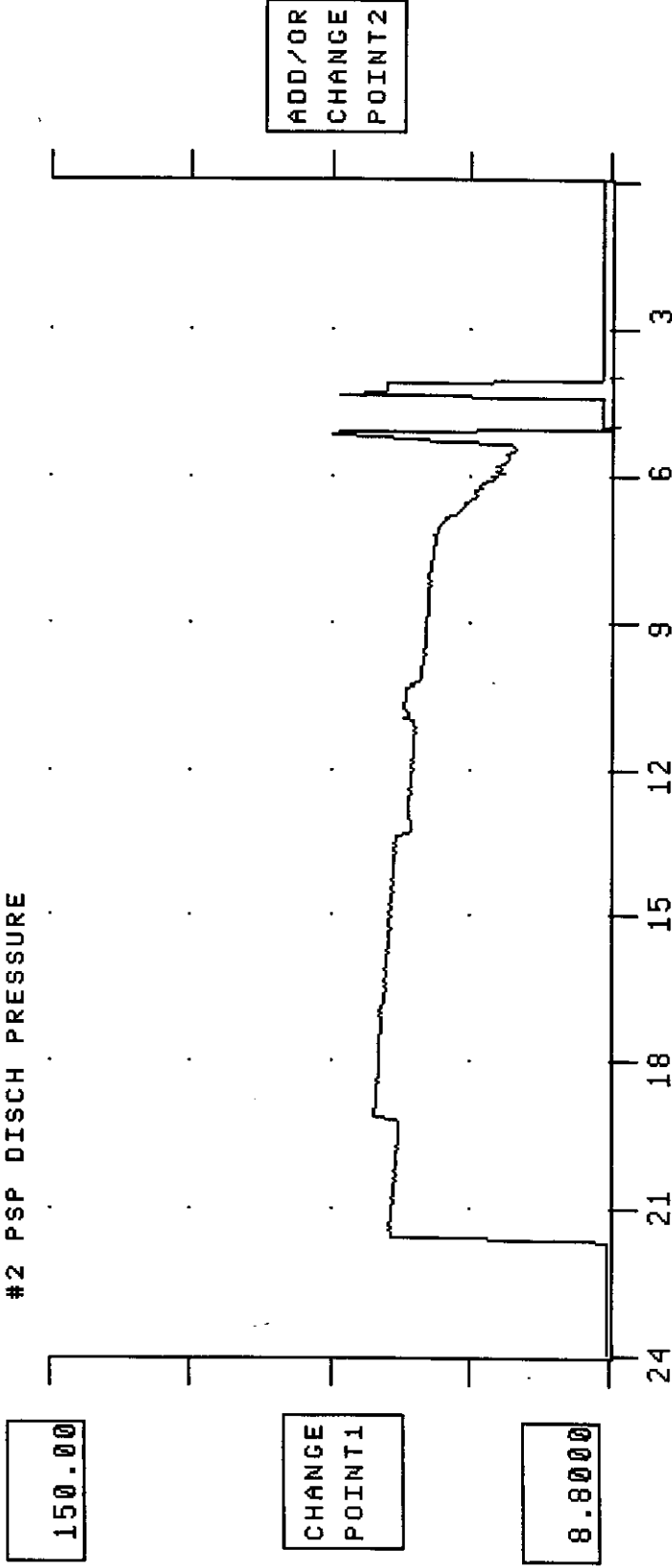
HAIR LINE

P T - H I S T

36PI150
PV = 10.875

Touch range
limits to change

#2 PSP DISCH PRESSURE



150.00

CHANGE POINT1

8.8000

<<

>>

06/10/99 20:37

16 HR SCAN

24 HR SCAN

48 HR SCAN

96 HR SCAN

1 WK HR AVG

1 MON DAY AVG

MORE TIMES

CNTR LINE

HAIR LINE

36PI151
PV = 13.125

Touch range
limits to change

P T - H I S T

>>>

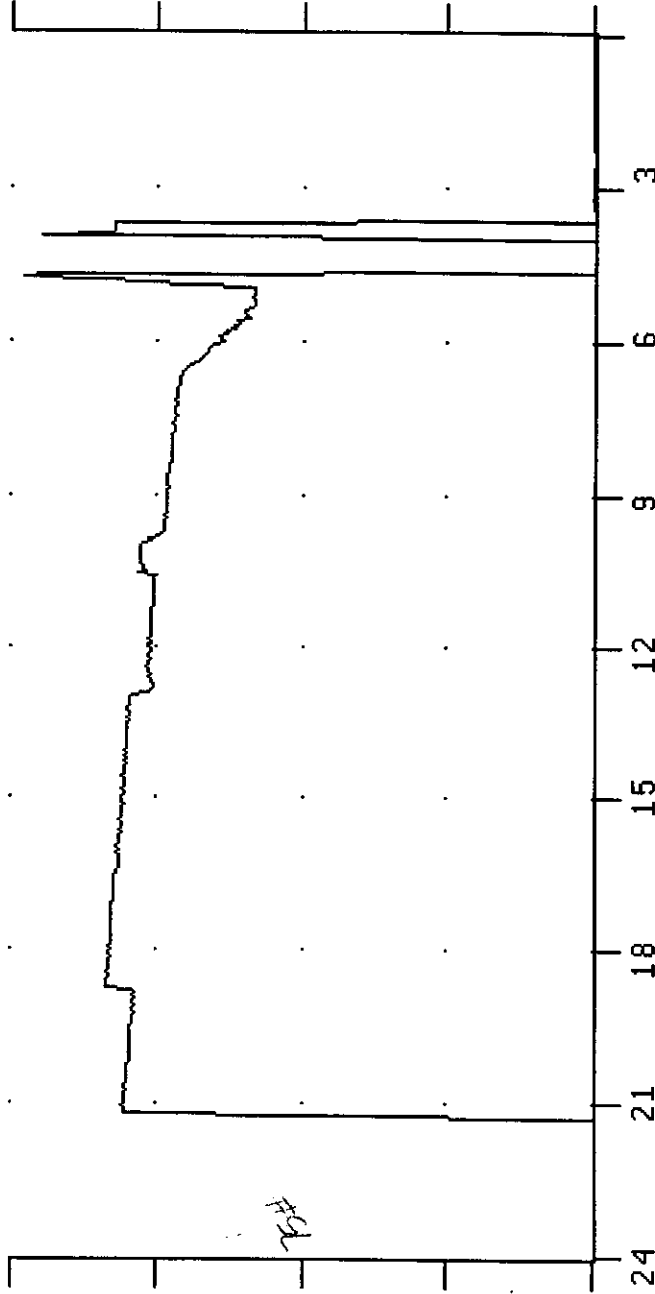
#1 PSP DISCH PRESSURE

150.00

CHANGE POINT1

8.8000

ADD/OR CHANGE POINT2



<<

>>

16 HR SCAN

24 HR SCAN

48 HR SCAN

96 HR SCAN

1 WK HR AVG

1 MON DAY AVG

MORE TIMES

CNTR LINE

HAIR LINE

06/10/99 20:13

P T - H I S T

36PI150
PV = 10.875

Touch range
limits to change

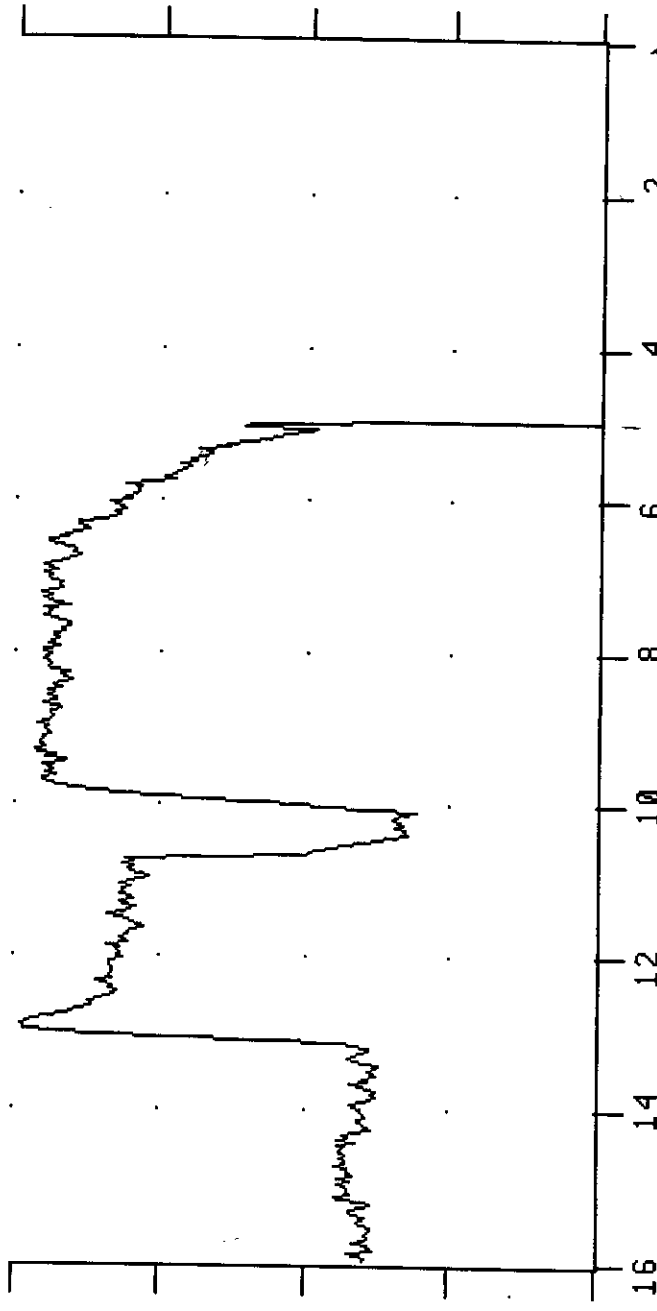
DIESEL TO OLY PIPELINE

8600.0

CHANGE POINT1

7600.0

ADD/OR
CHANGE
POINT2



<<

16 HR
SCAN

24 HR
SCAN

48 HR
SCAN

96 HR
SCAN

1 WK
HR AVG

1 MON
DAY AVG

MORE
TIMES

06/10/99 20:22
CNTR
LINE

>>

P T H I S T

>>>

33FI548
PU = 38.881

Touch range
limits to change

From: Kara J. Millhollin on 06/07/99 04:27 PM

To: OLY Schedule

cc:

Subject: OLY Schedule 6.08

R-01 = ULP <9.0# RVP
R-33 = ULR <7.8# PTL
R-23 = ULR <9.0# SEA
R-63 = S.O.ULR <7.7# PTL
R-53 = S.O.ULR <9.0# SEA
R-08 = LS Diesel
R-09 = HS Diesel
R-04 = JFA
R-05 = #1 DSL/LOW SULFUR JET

Date	Time		Volume	Tank	Product
MON JUN 7	2335	.R -63-0806 /7176 -AR	67353	10	PTL SUB
TUE JUN 8	0800	. SD			
	2000	.R -63-0806 /7176 -AR	10147	10	PTL SUB
	2116	.R -53-0812 / -AR	7500	10	SEA SUB
	2212	. SD			
→ WED JUN 9	1416	.R -53-0812 / -AR	142500	8,10	SEA SUB
THU JUN 10	0913	.R -23-0813 / -CV	47000	4	SEA ULR
	1656	.R -04-0814 / -AR	130600	11,15	JFA
FRI JUN 11	1439	.R -04-0815 / -CV	12000	15	
	1647	.R -09-0817 / -AR	7500	34	HSD
	1808	. SD			
	2052	.R -09-0817 / -AR	16500	34	
	2347	.R -09-0818 /7208 -BN	12000	34	
SAT JUN 12	0154	.R -09-0819 /7209 -CN	10000	34	
	0339	.R -09-0820 /7210 -AR	28000	34	
	0836	.R -08-0821 /7211 -BB	7850	CANCELLED	
	0959	. SD			
	1159	.R -08-0821 /7211 -BB	6150	CANCELLED	
	1258	.R -04-0826 /7216 -CV	7500	15	JFA
	1411	. SD			
SUN JUN 13	0455	.R -04-0826 /7216 -CV	12500	15	
	0643	.R -04-0827 /7217 -AR	48600	15	
	1341	.R -33-0828 /7218 -CN	16000	2	PTL ULR
	1557	.R -33-0829 /7219 -EX	18000	2	
	1821	.R -33-0829A<7219A-AR	14000	2	
	2020	.R -63-0831 /7221 -AR	7500	10	PTL SUB
	2117	. SD			
MON JUN 14	0408	.R -63-0831 /7221 -AR	77500	10	
	1509	.R -53-0837 / -AR	7500	10	SEA SUB
	1622	. SD			
TUE JUN 15	1442	.R -53-0837 / -AR	142500	8,10	SEA SUB

Thanks!

From: Kara J. Millhollin on 06/10/99 04:25 PM

To: OLY Schedule

cc:

Subject: OLY Schedule 6.10

R-01 = ULP <9.0# RVP
R-33 = ULR <7.8# PTL
R-23 = ULR <9.0# SEA
R-63 = S.O.ULR <7.7# PTL
R-53 = S.O.ULR <9.0# SEA
R-08 = LS Diesel
R-09 = HS Diesel
R-04 = JFA
R-05 = #1 DSL/LOW SULFUR JET

Date	Time		Volume	Tank	Product
THU JUN 10	1623	.R -23-0813 /	-CV 47000	4,2	SEA ULR
	2305	.R -04-0814 /	-AR 154600	11,15	JFA
FRI JUN 11	2137	.R -04-0815 /	-CV 12000	15	
	2330	.R -09-0817 /	-AR 7500	34	HSD
SAT JUN 12	0039	. SD			
	0259	.R -09-0817 /	-AR 16500	34	
	0530	.R -09-0818 /7208	-BN 12000	34	
	0720	.R -09-0819 /7209	-CN 10000	34	
	0852	.R -09-0820 /7210	-AR 28000	34	
	1308	.R -08-0821 /7211	-BB 7850		CANCELLED
	1420	. SD			
	1620	.R -08-0821 /7211	-BB 6150		CANCELLED
	1718	.R -04-0826 /7216	-CV 7500	15	JFA
	1830	. SD			
SUN JUN 13	0913	.R -04-0826 /7216	-CV 12500	15	
	1102	.R -04-0827 /7217	-AR 48600	15	
	1758	.R -33-0828 /7218	-CN 16000	2	PTL ULR
	2011	.R -33-0829 /7219	-EX 18000	2	
	2236	.R -33-0829A<7219A	-AR 14000	2	
MON JUN 14	0034	.R -63-0831 /7221	-AR 7500	10	PTL SUB
	0130	. SD			
	0822	.R -63-0831 /7221	-AR 42500	10	
	1351	.R -53-0837 /	-AR 7500	10	SEA SUB
	1459	. SD			
TUE JUN 15	1626	.R -53-0837 /	-AR 137500	8,10	SEA SUB
WED JUN 16	1013	.R -23-0838 /	-CV 47000	4	SEA ULR
	1733	.R -23-0839 /	-TE 20000	4	
	2044	.R -04-0840 /	-AR 130600	16,11	JFA

Thanks!

OLYMPIC PIPE LINE CO. - ARCO
09-99

SCHEDULE NO. 06.10 ISSUED 06-

FOR PERIOD 2015 06-09-99 TO 2359 07-02-99 PAGE 1

DAY -DATE- TIME .-----CHERRY POINT/ARCO----- .-----FERNDALE/TOSCO NW--

--
WED JUN 9 2358 .R -53-0812 / -AR 142500 .

THU JUN 10 1623 .R -23-0813 / -CV 47000 .
-----2305 .R -04-0814 / -AR 154600 .

FRI JUN 11 2137 .R -04-0815 / -CV 12000 .
-----2330 .R -09-0817 / -AR 7500 .

SAT JUN 12 0039 . SD .
-----0259 .R -09-0817 / -AR 16500 .
-----0530 .R -09-0818 /7208 -BN 12000 .
-----0720 .R -09-0819 /7209 -CN 10000 .
-----0852 .R -09-0820 /7210 -AR 28000 .
-----1308 .R -08-0821 /7211 -BB 7850 .
-----1420 . SD .
-----1620 .R -08-0821 /7211 -BB 6150 .
-----1718 .R -04-0826 /7216 -CV 7500 .
-----1830 . SD .

SUN JUN 13 0913 .R -04-0826 /7216 -CV 12500 .
-----1102 .R -04-0827 /7217 -AR 48600 .
-----1758 .R -33-0828 /7218 -CN 16000 .

2011 .R -33-0829 /7219 -EX 18000 .

2236 .R -33-0829A<7219A-AR 14000 .

 --
 MON JUN 14 0034 .R -63-0831 /7221 -AR 7500 .
 0130 . SD .
 0822 .R -63-0831 /7221 -AR 42500 .
 1351 .R -53-0837 / -AR 7500 .
 1459 . SD .

 --
 TUE JUN 15 1626 .R -53-0837 / -AR 137500 .

 --
 WED JUN 16 1013 .R -23-0838 / -CV 47000 .
 1733 .R -23-0839 / -TE 20000 .
 2044 .R -04-0840 / -AR 130600 .

 --
 THU JUN 17 1732 .R -09-0842 / -RP 7500 .
 1850 . SD .
 2127 .R -09-0842 / -RP 2500 .
 2152 .R -09-0843 / -AR 24000 .

 --
 FRI JUN 18 0159 .R -09-0844 /7248 -BN 12000 .
 0402 .R -09-0845 /7249 -AR 41000 .
 1103 .R -08-0846 /7250 -BB 4850 .
 1153 . SD .
 1353 .R -08-0846 /7250 -BB 7150 .

JUN-9-99 WED 8:33 PM BLENDER BOARD
JUN-09-99 WED 08:05 AM QNAW

FAX NO. 13603711846
FAX NO. 13602711588

P. 1/1
P. 01



ARCO Products Company- Cherry Point Refinery
Mini- Certificate of Analysis for
Olympic Pipe Line Co. -Fungible Product - Unleaded Premium Gasoline
Product Code - 01,21,31

Date of COA: 06/09/99 Time: 6:52 AM
Date of Final: 06/09/99

Tank: 02 Final Sample #: 34629

Tender #: R-53-0812 Tender #: _____

This product being tendered for pipeline shipment must have the following laboratory test data communicated to Olympic Pipe Co. Operations 2 hours prior to shipment:

Workmanship - must be "clear and bright" and free of suspended matter and water at a temperature of 72°F or below.

API Gravity -	D-287/D-1298/D-4052	Method <u>D-287</u>	API@60°F	<u>55.5</u>
Distillation -	D-86	50% Pt.	Deg. F	<u>218</u>
Distillation -	D-86	90% Pt.	Deg. F	<u>319</u>
Vapor Pressure -	D-5191/BPA	Method <u>D-5191</u>	RVPE, psi	<u>3.77</u>
Oxygen	D-4815		Wt. %	<u>0.0</u>
Octane Rating -	Index		R+M/2	<u>85.3</u>

Authorized Shipper signature: M. Baron

Dept: NWQA

Fax to Olympic Pipe Line- Operations Control Center # 425-227-5210



ARCO Products Company- Cherry Point Refinery
Mint- Certificate of Analysis for
Olympic Pipe Line Co. -Fungible Product - Unleaded Premium Gasoline.
Product Code - 01,21,31

Date of COA: 06/09/99 Time: 6:52 AM
Date of Minal: 06/09/99

Tank: 02 Final Sample #: 34829

Tender #: R-53-0812 Tender #: _____

This product being tendered for pipeline shipment must have the following laboratory test data communicated to Olympic Pipe Co. Operations 2 hours prior to shipment:

Workmanship - must be "clear and bright" and free of suspended matter and water at a temperature of 72°F or below.

API Gravity -	D-287/D-1298/D-4052	Method <u>D-287</u>	API@60°F	<u>55.5</u>
Distillation -	D-86	50% Pt.	Deg. F	<u>228</u>
Distillation -	D-86	90% Pt.	Deg. F	<u>319</u>
Vapor Pressure -	D-5191/BPA	Method <u>D-5191</u>	RVPE, psi	<u>8.77</u>
Oxygen	D-4815		Wt. %	<u>0.0</u>
Octane Rating -	Index		R+M/2	<u>85.1</u>

Authorized Shipper signature: M. Baron Dept: NWQA

Fax to Olympic Pipe Line- Operations Control Center # 425-227-5210