

**EXTENDED CRUDE OIL ANALYSIS (*DHA)
MAIN PAGE**

PRIMARY DB KEY: **05-057-06606** NAME/DESCRIP : **JANET 0780 #3-16H21**
 LEASE #: **JACKSON COUNTY #057**
 FIELD/AREA: **NORTH PARK HORIZONTAL NIOBRARA BRADENHEAD**

PROJECT NO. : **202312057** ANALYSIS NO. : **02**
 COMPANY NAME : **FULCRUM ENERGY OPERATING** ANALYSIS DATE: **DECEMBER 31, 2023 10:37**
 OFFICE / BRANCH: **COALMONT, CO** SAMPLE DATE : **DECEMBER 13, 2023**
 CUSTOMER REF: TO:
 PRODUCER : **FULCRUM ENERGY OPERATING LLC** EFFECTIVE DATE:

*****FIELD DATA*****

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : psig PROBE:
 LAB PRES: psig CYLINDER NO. : **.5L PLASTIC**
 SAMPLE TEMP. : °f SAMPLED BY : **ABEL RIVERA**
 AMBIENT TEMP.: °f SAMPLING COMPANY: **FULCRUM ENERGY OPERATING**
 FIELD COMMENTS:
 LAB COMMENTS:

COMPONENT	MOLE %	MASS %	VOL %
ALCOHOLS	0.0020	0.0008	0.0008
METHANE	0.2347	0.0197	0.0516
ETHANE	0.1585	0.0249	0.0549
PROPANE	0.1988	0.0458	0.0709
I-BUTANE	0.0383	0.0116	0.0162
N-BUTANE	0.1494	0.0453	0.0609
I-PENTANE	0.0696	0.0262	0.0329
N-PENTANE	0.1113	0.0419	0.0522
HEXANES PLUS	99.0374	99.7838	99.6596
TOTALS	100.0000	100.0000	100.0000

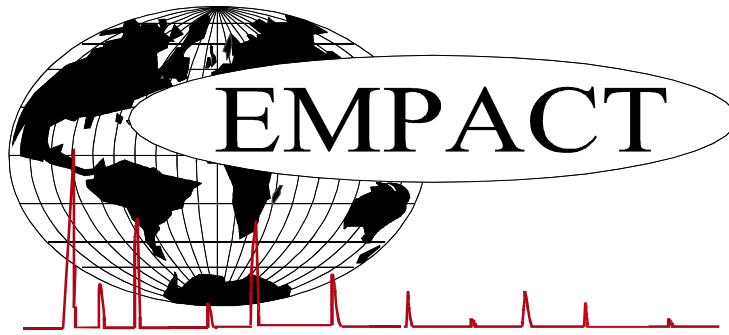
BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0247	0.0101
TOLUENE	0.0006	0.0003
ETHYLBENZENE	0.1469	0.0814
XYLENE	0.5093	0.2823
TOTAL BTEX	0.6815	0.3741

	TOTAL SAMPLE	C6+ FRACTION
Specific Gravity (H2O=1) =	0.7881	0.7874 60/60
API Gravity =	48.05	48.21 60/60
Molecular Weight =	100.00	192.984
Absolute Density =	6.57	6.56 LBS/GAL
Heating Value Liq. Idl Gas=	137466	139203 BTU/GAL
Vapor/Liquid =	13.16	13.23 CUFT/GAL
Vapor Pressure =	13.53	0.05 PSIA @100 F

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)
 Mod ASTM D6730, GPA 2177 & GPA 2186.
 (CALC: GPA 2172, GPA 2145, GPSA & TP-17 @14.696 & 60 F)**

****Calculated values may error depending on amount of unknown components in DHA, physical testing may be required.**

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc. Results of the analysis can be affected by the sampling conditions, therefore, are only warranted through proper lab protocol. EMPACT assumes no responsibility for interpretation or any consequences from application of the reported information and is the sole liability of the user. The reproduction in any media of this reported information may not be made, in portion or as a whole, without the written permission of EMPACT Analytical Systems, Inc.



EXTENDED CRUDE OIL ANALYSIS (*DHA)

E & P TANK / GLYCALC INFORMATION

PROJECT NO. :	202312057	ANALYSIS NO. :	02
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	DECEMBER 31, 2023 10:
ACCOUNT NO. :		SAMPLE DATE :	DECEMBER 13, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	.5L PLASTIC
LEASE NO. :		SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	JANET 0780 #3-16H21 JACKSON COUNTY #057 BRADENHEAD		FULCRUM ENERGY OPE

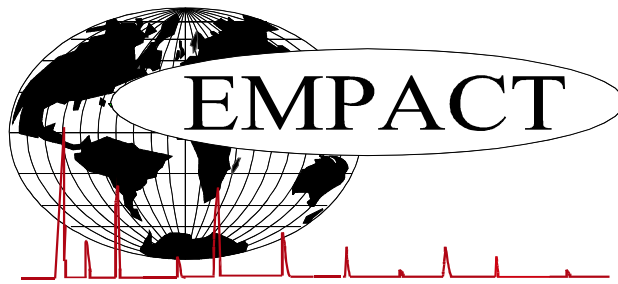
FIELD DATA
 SAMPLE PRES. :
 COMMENTS :

SAMPLE TEMP. :
 AMBIENT TEMP.:

<u>COMPONENT</u>	<u>Mole %</u>	<u>Wt %</u>	<u>LV %</u>	
METHANE	0.2347	0.0197	0.0516	
ETHANE	0.1585	0.0249	0.0549	
PROPANE	0.1988	0.0458	0.0709	
I-BUTANE	0.0383	0.0116	0.0162	
N-BUTANE	0.1494	0.0453	0.0609	
I-PENTANE	0.0696	0.0262	0.0329	
N-PENTANE	0.1113	0.0419	0.0522	
CYCLOPENTANE (N-C5)	0.0226	0.0083	0.0087	
N-HEXANE	0.1080	0.0486	0.0575	
CYCLOHEXANE (OTHER C6)	0.0767	0.0337	0.0338	
OTHER HEXANES	0.1861	0.0828	0.0922	
OTHER HEPTANES	0.4116	0.2154	0.2386	
METHYLCYCLOHEXANE (OTHER C7)	0.2281	0.1169	0.1187	
2,2,4 TRIMETHYLPENTANE	0.0035	0.0021	0.0024	
BENZENE	0.0247	0.0101	0.0090	
TOLUENE	0.0006	0.0003	0.0003	
ETHYLBENZENE	0.1469	0.0814	0.0734	
XYLENES	0.5093	0.2823	0.2540	
OTHER OCTANES	1.1133	0.6584	0.7020	
OCTANES PLUS	----	97.9790	----	99.2677
NONANES	3.6186	2.3555	2.3527	99.1008
DECANES PLUS	92.5874	95.8880	95.7163	
<u>SUB TOTAL</u>	<u>99.9980</u>	<u>99.9992</u>	<u>99.9992</u>	
<u>ALCOHOLS</u>	<u>0.0020</u>	<u>0.0008</u>	<u>0.0008</u>	
<u>TOTAL</u>	<u>100.0000</u>	<u>100.0000</u>	<u>100.0000</u>	

API Gravity	=	48.05	60/60
Vapor Pressure	=	13.53	PSIA & 100 F
Average Molecular Weight of Decanes plus	=	198.33	
Average Specific Gravity of Decanes plus	=	0.7910	

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EXTENDED CRUDE OIL ANALYSIS (*DHA)
BY CARBON NUMBER

PROJECT NO. :	202312057	ANALYSIS NO. :	02
COMPANY NAME :	FULCRUM ENERGY OPERATING	ANALYSIS DATE:	DECEMBER 31, 2023 10:37
ACCOUNT NO. :		SAMPLE DATE :	DECEMBER 13, 2023
PRODUCER :	FULCRUM ENERGY OPERATING LLC	CYLINDER NO. :	.5L PLASTIC
LEASE NO. :		SAMPLED BY :	ABEL RIVERA
NAME/DESCRIP :	JANET 0780 #3-16H21		FULCRUM ENERGY OPERATING
	JACKSON COUNTY #057		
	BRADENHEAD		

FIELD DATA	SAMPLE TEMP. :
SAMPLE PRES. :	AMBIENT TEMP.:
COMMENTS :	

<u>COMPONENT / CARBON NUMBER</u>	<u>MOLE%</u>	<u>MASS %</u>	<u>VOLUME %</u>
ALCOHOLS	0.0020	0.0008	0.0008
C1	0.2347	0.0197	0.0516
C2	0.1585	0.0249	0.0549
C3	0.1988	0.0458	0.0709
C4	0.1877	0.0569	0.0771
C5	0.2035	0.0764	0.0938
C6	0.3955	0.1752	0.1925
C7	0.6403	0.3326	0.3576
C8	1.7730	1.0242	1.0318
C9	3.6186	2.3555	2.3527
C10	11.8822	8.5756	8.3335
C11	15.0090	11.8101	11.3688
C12	11.0017	9.3007	9.2646
C13	8.3750	7.9182	8.1023
C14	4.8824	5.0580	5.1854
C15	7.7113	8.5538	8.7018
C16	9.5167	11.2531	11.3743
C17	7.3812	9.2688	9.3398
C18	9.5357	12.6757	12.7347
C19	1.6993	2.3828	2.3787
C20	1.5246	2.2335	2.1986
C21	1.4722	2.2800	2.2521
C22	0.9476	1.5369	1.5129
C23	0.6066	1.0281	1.0091
C24	0.3902	0.6900	0.6755
C25	0.1669	0.3073	0.3007
C26	0.1415	0.2709	0.2634
C27	0.0727	0.1444	0.1403
C28	0.0953	0.1963	0.1904
C29	0.0254	0.0542	0.0524
C30	0.0626	0.1382	0.1336
C31	0.0141	0.0322	0.0311
C32	0.0456	0.1074	0.1035
C33	0.0071	0.0173	0.0166
C34	0.0050	0.0126	0.0121
C35	0.0045	0.0117	0.0112
C36	0.0031	0.0082	0.0079
C37	0.0024	0.0065	0.0062
C38	0.0023	0.0063	0.0060
C39	0.0018	0.0051	0.0049
C40	0.0014	0.0041	0.0039
C41+	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

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3,4-Dimethylhexane	I8	0.0046	0.0028	0.0030
1c,2c,4-Trimethylcyclopentane	N8	0.0026	0.0015	0.0015
1c,3-Dimethylcyclohexane	N8	0.0023	0.0013	0.0013
3-Methylheptane	I8	0.0509	0.0303	0.0335
1c,2t,3-Trimethylcyclopentane	N8	0.1121	0.0657	0.0666
3-Ethylhexane	I8	0.0098	0.0058	0.0064
1t,4-Dimethylcyclohexane	N8	0.0400	0.0234	0.0240
1,1-Dimethylcyclohexane	N8	0.0114	0.0067	0.0067
2,2,5-Trimethylhexane	I9	0.0012	0.0008	0.0009
3c-Ethylmethylcyclopentane	N8	0.0127	0.0074	0.0075
3t-Ethylmethylcyclopentane	N8	0.0115	0.0067	0.0068
2t-Ethylmethylcyclopentane	N8	0.0249	0.0146	0.0148
1,1-Methylethylcyclopentane	N8	0.0055	0.0032	0.0032
2,2,4-Trimethylhexane	I9	0.0044	0.0029	0.0032
1t,2-Dimethylcyclohexane	N8	0.0738	0.0433	0.0436
1t,3-Dimethylcyclohexane	N8	0.0049	0.0028	0.0028
UnknownC7s	U7	0.0139	0.0073	0.0083
n-Octane	P8	0.2549	0.1520	0.1690
1c,4-Dimethylcyclohexane	N8	0.0315	0.0184	0.0184
i-Propylcyclopentane	I8	0.0085	0.0050	0.0050
2,4,4-Trimethylhexane	I9	0.0005	0.0003	0.0003
2,2,3,4-Tetramethylpentane	I9	0.0024	0.0016	0.0017
2,3,4-Trimethylhexane	I9	0.0021	0.0014	0.0015
1c,2-Dimethylcyclohexane	N8	0.0057	0.0034	0.0033
2,3,5-Trimethylhexane	I9	0.0033	0.0022	0.0024
2,2-Dimethylheptane	I9	0.0376	0.0252	0.0277
1,1,4-Trimethylcyclohexane	N9	0.1334	0.0879	0.0890
2,2,3-Trimethylhexane	I9	0.0206	0.0138	0.0148
2,4-Dimethylheptane	I9	0.0088	0.0059	0.0064
4,4-Dimethylheptane	I9	0.0041	0.0027	0.0029
Ethylcyclohexane	N8	0.0486	0.0284	0.0282
n-Propylcyclopentane	N8	0.0787	0.0461	0.0464
1c,3c,5-Trimethylcyclohexane	N9	0.0069	0.0046	0.0047
2,5-Dimethylheptane	I9	0.0295	0.0197	0.0215
3,3-Dimethylheptane	I9	0.0060	0.0040	0.0043
3,5-Dimethylheptane	I9	0.0086	0.0057	0.0062
2,6-Dimethylheptane	I9	0.0183	0.0123	0.0136
1,1,3-Trimethylcyclohexane	N9	0.0215	0.0142	0.0139
Ethylbenzene	A8	0.1469	0.0814	0.0734
1c,2t,4t-Trimethylcyclohexane	N9	0.0033	0.0021	0.0021
2,3-Dimethylheptane	I9	0.0080	0.0053	0.0057
1,3-Dimethylbenzene (m-Xylene)	A8	0.2569	0.1424	0.1288
1,4-Dimethylbenzene (p-Xylene)	A8	0.0986	0.0546	0.0495
3,4-Dimethylheptane	I9	0.0072	0.0048	0.0051
3,4-Dimethylheptane (2)	I9	0.0268	0.0179	0.0191
4-Ethylheptane	I9	0.0140	0.0094	0.0103
4-Methyloctane	I9	0.0661	0.0442	0.0479
2-Methyloctane	I9	0.0810	0.0543	0.0594
1c,2t,4c-Trimethylcyclohexane	I9	0.1274	0.0840	0.0904
3-Ethylheptane	I9	0.0303	0.0203	0.0218
3-Methyloctane	I9	0.0179	0.0120	0.0130
3,3-Diethylpentane	I9	0.0202	0.0136	0.0141
1c,2t,3-Trimethylcyclohexane	N9	0.0123	0.0081	0.0080
1,1,2-Trimethylcyclohexane	N9	0.0214	0.0141	0.0138
1,2-Dimethylbenzene (o-Xylene)	A8	0.1538	0.0853	0.0757
i-Butylcyclopentane	N9	0.1359	0.0896	0.0901
UnknownC8s	U8	0.1095	0.0653	0.0726
n-Nonane	P9	0.5365	0.3593	0.3908
1,1-Methylethylcyclohexane	N9	0.1271	0.0838	0.0915
i-Propylbenzene	A9	0.1026	0.0644	0.0584
i-Propylcyclohexane	N9	0.0556	0.0366	0.0357
2,2-Dimethyloctane	I10	0.0297	0.0221	0.0238
2,4-Dimethyloctane	I10	0.0479	0.0356	0.0376
2,6-Dimethyloctane	I10	0.0202	0.0150	0.0164
2,5-Dimethyloctane	I10	0.0094	0.0070	0.0074
n-Butylcyclopentane	N9	0.2153	0.1419	0.1376
3,3-Dimethyloctane	I10	0.0611	0.0454	0.0480
n-Propylbenzene	A9	0.2240	0.1406	0.1275
3,6-Dimethyloctane	I10	0.1429	0.1062	0.1127
3-Methyl-5-ethylheptane	I10	0.1426	0.1059	0.1140
1,3-Methylethylbenzene	A9	0.2799	0.1757	0.1576
1,4-Methylethylbenzene	A9	0.1156	0.0725	0.0651
1,3,5-Trimethylbenzene	A9	0.2719	0.1706	0.1541
2,3-Dimethyloctane	I10	0.0703	0.0522	0.0553
5-Methylnonane	I10	0.2401	0.1784	0.1902
1,2-Methylethylbenzene	A9	0.0191	0.0120	0.0107
2-Methylnonane	I10	0.4015	0.2983	0.3208
3-Ethylheptane	I10	0.1095	0.0813	0.0859
3-Methylnonane	I10	0.3011	0.2237	0.2383

1,2,4-Trimethylbenzene	A9	0.0236	0.0148	0.0132
t-Butylbenzene	A10	0.7963	0.5581	0.5034
i-Butylcyclohexane	N10	0.1889	0.1384	0.1330
1t-Methyl-2-n-propylcyclohexane	I10	0.1158	0.0848	0.0913
i-Butylbenzene	A10	0.1367	0.0958	0.0877
sec-Butylbenzene	A10	0.1539	0.1078	0.0977
UnknownC9s	U9	0.4127	0.2764	0.3006
n-Decane	P10	1.6396	1.2182	1.3028
1,2,3-Trimethylbenzene	A9	0.3537	0.2220	0.1941
1,3-Methyl-i-propylbenzene	A10	0.1710	0.1199	0.1070
1,4-Methyl-i-propylbenzene	A10	0.6558	0.4596	0.4102
Sec-Butylcyclohexane	N10	0.0414	0.0304	0.0292
1,2-Methyl-i-propylbenzene	A10	0.3221	0.2258	0.2013
3-Ethylnonane	I10	0.2729	0.2227	0.2395
1,3-Diethylbenzene	A10	0.1146	0.0803	0.0727
1,4-Diethylbenzene	A10	0.4823	0.3380	0.3065
1,4-Methyl-n-propylbenzene	A10	0.3900	0.2733	0.2488
n-Butylbenzene	A10	0.1938	0.1358	0.1234
1,3-Dimethyl-5-ethylbenzene	A10	0.3551	0.2489	0.2250
1,2-Diethylbenzene	A10	0.2395	0.1678	0.1491
1,2-Methyl-n-propylbenzene	A10	0.3469	0.2432	0.2176
1,3-Dimethyl-4-ethylbenzene	A10	0.6637	0.4652	0.4149
1,2-Dimethyl-4-ethylbenzene	A10	0.2578	0.1807	0.1615
1,3-Dimethyl-2-ethylbenzene	A10	0.5812	0.4073	0.3576
1,2-Dimethyl-3-ethylbenzene	A10	0.1968	0.1379	0.1208
1,2-Ethyl-i-propylbenzene	A10	0.2310	0.1788	0.1594
1,4-Methyl-t-butylbenzene	A11	0.2890	0.2237	0.1995
UnknownC10s	U10	1.3330	0.9904	1.0592
n-Undecane	P11	2.5956	2.1186	2.2366
1,4-Ethyl-i-propylbenzene	A11	0.5062	0.3919	0.3495
1,2,4,5-Tetramethylbenzene	A11	0.2223	0.1558	0.1373
1,2-Methyl-n-butylbenzene	A11	0.4294	0.3324	0.2964
1,2,3,5-Tetramethylbenzene	A11	0.4055	0.2842	0.2496
1,2-Methyl-t-butylbenzene	A11	0.2754	0.2132	0.1901
5-Methylindan	A11	0.3330	0.2299	0.2400
4-Methylindan	A11	0.2851	0.1968	0.2054
1,2-Ethyl-n-propylbenzene	A11	0.5059	0.3916	0.3492
2-Methylindan	A11	0.2486	0.1716	0.1791
1,3-Methyl-n-butylbenzene	A11	0.1851	0.1433	0.1278
1,3-Di-i-propylbenzene	A11	0.4336	0.3674	0.3276
sec-Pentylbenzene	A11	0.2983	0.2309	0.2102
n-Pentylbenzene	A11	0.3629	0.2809	0.2558
1,2-Di-n-propylbenzene	A11	0.3724	0.3155	0.2813
1,4-Di-i-propylbenzene	A11	0.2919	0.2473	0.2205
Tetrahydronaphthalene	A10	0.1221	0.0843	0.0752
t-Decahydronaphthalene	A10	0.0576	0.0464	0.0414
Naphthalene	A10	0.2461	0.1647	0.1469
1-t-Butyl-3,5-dimethylbenzene	A12	0.5039	0.4270	0.3849
1,4-Ethyl-t-butylbenzene	A11	0.4350	0.3686	0.3287
UnknownC11s	U11	4.0008	3.2657	3.4476
n-Dodecane	P12	2.6820	2.3857	2.4901
1,3-Di-n-propylbenzene	A12	0.4058	0.3438	0.3066
1,3,5-Triethylbenzene	A12	1.0794	0.9147	0.8304
1,2,4-Triethylbenzene	A12	0.3006	0.2547	0.2278
1,4-Methyl-n-pentylbenzene	A12	1.2201	1.0339	0.9219
n-Hexylbenzene	A12	0.4708	0.3990	0.3637
1,2,3,4,5-Pentamethylbenzene	A13	0.7682	0.5946	0.5302
2-Methylnaphthalene	A11	1.0230	0.7596	0.6773
1-Methylnaphthalene	A11	1.5100	1.1212	0.8593
UnknownC12s	U12	4.3391	3.5419	3.7392
n-Tridecane	P13	2.4795	2.3872	2.4682
UnknownC13s	U13	5.1273	4.9364	5.1039
n-Tetradecane	P14	2.9120	3.0167	3.0927
UnknownC14s	U14	1.9704	2.0413	2.0927
n-Pentadecane	P15	2.1272	2.3596	2.4004
UnknownC15s	U15	5.5841	6.1942	6.3014
n-Hexadecane	P16	1.8312	2.1653	2.1886
UnknownC16s	U16	7.6855	9.0878	9.1857
n-Heptadecane	P17	1.5242	1.9140	1.9287
UnknownC17s	U17	5.8570	7.3548	7.4111
n-Octadecane	P18	1.0970	1.4578	1.4647
UnknownC18s	U18	8.4387	11.2179	11.2700
n-Nonadecane	P19	0.9267	1.2995	1.2973
UnknownC19s	U19	0.7726	1.0833	1.0814
n-Eicosane	P20	0.6117	0.8961	0.8821
UnknownC20s	U20	0.9129	1.3374	1.3165
n-Heneicosane	P21	0.4075	0.6311	0.6234
UnknownC21s	U21	1.0647	1.6489	1.6287
n-Docosane	P22	0.2969	0.4815	0.4740

UnknownC22s	U22	0.6507	1.0554	1.0389
n-Tricosane	P23	0.1653	0.2801	0.2749
UnknownC23s	U23	0.4413	0.7480	0.7342
n-Tetracosane	P24	0.0999	0.1767	0.1730
UnknownC24s	U24	0.2903	0.5133	0.5025
n-Pentacosane	P25	0.0606	0.1115	0.1091
UnknownC25s	U25	0.1063	0.1958	0.1916
n-Hexacosane	P26	0.0457	0.0876	0.0852
UnknownC26s	U26	0.0958	0.1833	0.1782
n-Heptacosane	P27	0.0309	0.0613	0.0596
UnknownC27s	U27	0.0418	0.0831	0.0807
n-Octacosane	P28	0.0209	0.0430	0.0417
UnknownC28s	U28	0.0744	0.1533	0.1487
n-Nonacosane	P29	0.0198	0.0423	0.0409
UnknownC29s	U29	0.0056	0.0119	0.0115
n-Triacontane	P30	0.0140	0.0308	0.0298
UnknownC30s	U30	0.0486	0.1074	0.1038
n-Hentriacontane	P31	0.0117	0.0268	0.0259
UnknownC31s	U31	0.0024	0.0054	0.0052
n-Dotriacontane	P32	0.0095	0.0224	0.0216
UnknownC32s	U32	0.0361	0.0850	0.0819
n-Tritriacontane	P33	0.0071	0.0173	0.0166
n-Tetratriacontane	P34	0.0050	0.0126	0.0121
n-Pentatriacontane	P35	0.0045	0.0117	0.0112
n-Hexatriacontane	P36	0.0031	0.0082	0.0079
n-Heptatriacontane	P37	0.0024	0.0065	0.0062
n-Octatriacontane	P38	0.0023	0.0063	0.0060
n-Nonatriacontane	P39	0.0018	0.0051	0.0049
n-Tetracontane	P40	0.0014	0.0041	0.0039
TOTAL		100.0000	100.0000	100.0000

BTEX COMPONENTS	MOLE%	MASS%
BENZENE	0.0247	0.0101
TOLUENE	0.0006	0.0003
ETHYLBENZENE	0.1469	0.0814
XYLENE	0.5093	0.2823
TOTAL BTEX	0.6815	0.3741

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2177 & GPA 2186.

(CALC: GPA 2172, GPA 2145, GPSA & TP-17 @14.696 & 60 F)**

	TOTAL SAMPLE	C6+ FRACTION
Specific Gravity (H2O=1) =	0.7881	0.7874 60/60
API Gravity =	48.05	48.21 60/60
Molecular Weight =	100.00	192.984
Absolute Density =	6.57	6.56 LBS/GAL
Heating Value Liq. Idl Gas=	137466	139203 BTU/GAL
Vapor/Liquid =	13.16	13.23 CUFT/GAL
Vapor Pressure =	13.53	0.05 PSIA @100 F

****Calculated values may error depending on amount of unknown components in DHA, physical testing may be required.**

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