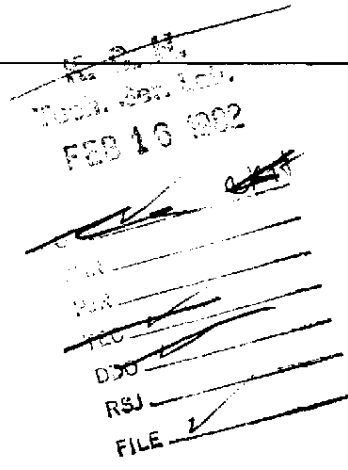




To K. C. Hunt, Ponca City

From J. J. Mangelinkx, Westlake

Date February 9, 1982

Subject Control Laboratory Progress Report for the Period
January 24, 1982, to February 8, 1982

2/4/82 COL 31-041; 11,000 bbls from Tank 32, 13.5

An automated moisture analyzer was placed in service, which allows calcined coke water contents to be completed in eight minutes versus the previous six to eight hours required.

sd
cc:
IFW MSJ WJW JWL FOR SGC MEO FILE(2)
E. E. Morrison, 276 P ROPD, Ponca City
C. J. Adams, 2528 ROPD, Houston
Don Goff, 2538 REP, Houston

I have talked with JGM
about the auto protection ins.
He will send me list.
It is interesting and
has other applications
JGM

MCD 000022519

REFINERY Lake Charles No. 3

WEEKLY PROGRESS REPORT

WEEK ENDING 7 A.M. February 8, 1982

Conoco

GASOLINE SHIPMENTS

GRADE	C	REGULAR SPECS	25	NO LEAD SPECS	92	SUPER NO SPECS	LEAD	65
TANK NUMBER								
TENDER								
BARRELS								
GRAVITY, A. P. I.			60.5		55.9			62.8
I. B. P.			93		89			89
10% EVAP. AT		140+	126		120			120
50% AT		170-240	220		232			230
90% AT		365+	325		334			334
% AT 140		10-	16		17			14
% AT 170		50+	29.5		26.5			25
% AT 240		50-	59		54			54
% AT 365		90-	96.5		95.5			94
% AT								
% AT								
DRY POINT			400		416			411
END POINT		430+	403		425			423
RECOVERY, %		94.0-	97		96			95
R. V. P.		11.5+	11.5		11.3			12.7
ASTM GUM (UW)								
3TM GUM (W)		2+	1.6		1.2			1.6
ACCEL GUM (UW)		8+	2.6		3.2			3.4
IND. PER. MIN.		360-	360+		360+			360+
SULFUR, WT. %		0.1+	0.02		0.02			0.02
DOCTOR TEST			swt		swt			swt
MERCAP SULFUR, WT. %								
SAYBOLT COLOR								
OCTANE NUMBER								
1/2 (R&M)		89.0-	89.0	87.0-	87.2	91.0-		91.0
RESEARCH		92.5-	92.5	91.0-	92.1			94.2
MOTOR			85.5	82.0-	82.2			87.8
TEL. ML/GAL.		3.38+	0.88	0.01+	<.003			<.003
INHIBITORS: #/M BBLs.								
T20		124-	130		132			126
COMPOSITION:								
Lt. St. Run			6.4		1.6			0.4
FCC			22.2		41.1			4.5
Thermal			1.5		3.3			0.4
#2 Ref			22.9		31.0			37.9
Butane			10.6		6.6			8.1
Ref Naphtha					1.6			
Poly Gasoline			2.1		3.0			0.3
Alky			0.8		7.1			47.4
#1 Ref			20.2		1.2			0.2
3but SR			9.7		2.7			0.6
Den CH			3.6		0.8			0.2

REMARKS:

MCD 000022520

REFINERY Lake Charles No. 3WEEKLY PROGRESS REPORTWEEK ENDING 7 A.M. February 8, 1982

Colonial

GASOLINE SHIPMENTS

GRADE	D	SPECS	REGULAR		SPECS	NO LEAD			
TANK NUMBER			87	80		78			
TENDER			*	**		***			
BARRELS									
GRAVITY, A. P. I.			62.0	62.2		59.4			
I. B. P.			87	77		85			
10 % EVAP. AT		131+	114	106		110			
50 % AT		170-235	207	206		224			
90 % AT		365+	344	326		348			
% AT 131		10-	18	21		18.5			
% AT 170		50+	35	35.5		31.5			
% AT 235		50-	60	64.5		54.5			
% AT 365		90-	93	95.5		92.5			
% AT									
% AT									
DRY POINT			416	409		421			
END POINT		430+	418	418		428			
RECOVERY, %		95.0-	96.5	96		95			
R. V. P.		31.5+	13.3	13.2		13.5			
ASTM GUM (UW)									
STM GUM (W)		13.2+	1.8	0.8		2.0			
ACCEL GUM (UW)		8+	2.9	1.8		3.6			
IND. PER., MIN.		360-	360+	360+		360+			
SULFUR, WT. %		0.1+	0.02	0.02		0.02			
DOCTOR TEST			swt	swt		swt			
MERCAP SULFUR, WT. %									
SAYBOLT COLOR									
OCTANE NUMBER									
1/2 (R&M)		89.0-	89.0	89.1	87.0-	87.1			
RESEARCH		92.5-	93.4	92.5	91.0-	92.2			
MOTOR			84.6	85.8	82.0-	82.0			
TEL., ML/GAL.		3.38+	0.83	0.37	0.01+	<.003			
INHIBITORS, #/M BBLs.									
T20		116-	118	117		119			
COMPOSITION:									
LSR			7.9	5.8		1.8			
FCC			33.5	24.7		43.2			
Thermal			5.9	2.0		3.5			
#2 Ref			12.3	12.1		30.2			
Butane			1.9	6.8		11.0			
Poly Gaso			2.5	1.8		3.1			
Ref Naphtha			6.3	1.2					
Alky				27.8		2.8			
#1 Ref			14.0	4.9		0.5			
but SR			11.3	9.7		3.0			
ben CH			4.4	3.2		0.9			

REMARKS: * 43,758 bbls. delivered to Conoco via LCPL (CLK 32-046)
** 50,000 bbls. delivered to Murphy Oil via LCPL (MUK 32-041)
37,823 bbls. delivered to Conoco via LCPL (CLK 32-041)
*** 35,161 bbls. delivered to Conoco via LCPL (CLK 40-036)
34,582 bbls. delivered to Conoco via LCPL (CLK 40-041)

MCD 000022521

* 25,000 bbls. delivered to Murphy via LCPL (MUK 37-031)
39,449 bbls. delivered to Conoco via LCPL (CLK 37-031)

** 21,431 bbls. delivered to Conoco via LCPL (CLK 37-031)

*** 39,860 bbls. delivered to Mobil Oil via LCPL (MBK 37-038)
25,000 bbls. delivered to Conoco via LCPL (CLK 37-044)
14,832 bbls. delivered to Cities Service via LCPL (CSK 37-044)

+ 11,076 bbls. delivered to Cities Service via LCPL (CSK 37-044)
14,035 bbls. delivered to Atlantic Richfield via LCPL (ARK 37-046)

++ 10,965 bbls. delivered to Atlantic Richfield via LCPL (ARK 37-046)
26,055 bbls. delivered to Petroleum Marketers via LCPL (PMK 37-046)

REFINERY Lake Charles No. 3WEEKLY PROGRESS REPORTWEEK ENDING 7 A.M. February 8, 1982

Colonial

GASOLINE SHIPMENTS

GRADE	E	SPECS	REGULAR										
TANK NUMBER			32	87	32	32	87						
TENDER			*	**	***	+	++						
BARRELS													
GRAVITY, A. P. I.			61.8	62.3	62.8	59.5	72.4						
I. B. P.			84	89	87	90	86						
10 % EVAP. AT		122+	102	105	111	114	110						
50 % AT		170-230	204	199	210	220	206						
90 % AT		365+	328	332	357	318	337						
% AT 122		10-	20	18.5	14.5	13.5	16						
% AT 170		50+	37	39.5	34	31	36						
% AT 230		50-	60.5	61	51.5	54.5	59						
% AT 365		90-	95.5	94.5	91	97.5	93.5						
% AT													
% AT													
DRY POINT			387	414	420		405						
END POINT		430+	396	415	430	386	420						
RECOVERY, %			95	95	95	95	96						
R. V. P.		14.5+	14.5	14.0	14.3	14.2	14.0						
ASTM GUM (UW)													
TM GUM (W)		4+	1.6	1.2	1.6	1.4	1.8						
ACCEL GUM (UW)		8+	2.4	2.6	2.8	3.0	2.9						
IND. PER., MIN.		360-	360+	360+	360+	360+	360+						
SULFUR, WT. %		0.1+	0.02	0.02	0.02	0.02	0.02						
DOCTOR TEST			swt	swt	swt	swt	swt						
MERCAP SULFUR, WT. %													
SAYBOLT COLOR													
OCTANE NUMBER													
1/2 (R&M)		89.0-	89.1	89.0	89.0	89.0	89.0						
RESEARCH		9.25-	92.7	93.2	93.2	92.5	93.4						
MOTOR			85.5	84.8	84.8	85.5	84.6						
TEL. ML/GAL.		3.38+	0.59	0.73	0.73	0.48	0.81						
INHIBITORS: #/M BBLs.													
T20		105-	110	112	114	117	114						
COMPOSITION:													
LSR:			5.8	6.9	1.8	7.4	7.9						
FCC			25.1	39.4	43.3	7.5	33.5						
Thermal			2.0	3.2	3.5	0.6	5.9						
#2 Ref			16.1	9.9	30.1	48.7	12.3						
Butane			11.6	9.9	11.0	10.8	1.9						
Poly Gaso			1.8	2.6	3.1	0.5	2.5						
Ref Naphtha						0.5	6.3						
Atky				0.2	2.8								
#1 Ref			23.9	14.1	0.5	9.9	14.0						
2but SR			10.6	10.0	3.0	10.4	11.3						
2en CH			3.1	3.8	0.9	3.7	4.4						

REMARKS:

MCD 000022523

REFINERY Lake Charles No. 3

WEEKLY PROGRESS REPORT

WEEK ENDING 7 A. M. February 8, 1982

Explorer

GASOLINE SHIPMENTS

GRADE	Winter	SPECS	REGULAR										
TANK NUMBER			87	87									
TENDER			*	**									
BARRELS													
GRAVITY, A. P. I.			62.0	61.8									
I. B. P.			87	88									
10 % EVAP. AT		131+	114	110									
50 % AT		170-235	207	208									
90 % AT		365+	365	341									
% AT 131		10-	18	19.5									
% AT 170		50+	35	36									
% AT 235		50-	60	60.5									
% AT 365		90-	93	93									
% AT													
% AT													
DRY POINT			416	420									
END POINT		430+	418	425									
RECOVERY, %		96.0-	96.5	95									
R. V. P.		13.5+	13.3	13.5									
ASTM GUM (UW)													
M GUM (W)		2+	1.8	0.8									
ACCEL GUM (UW)		8+	2.9	4.3									
IND. PER. MIN.		360-	360+	360+									
SULFUR, WT. %		0.2+	0.02	0.02									
DOCTOR TEST			swt	swt									
MERCAP SULFUR, WT. %													
SAYBOLT COLOR													
OCTANE NUMBER													
1/2 (R&M)		89.0-	89.0	89.0									
RESEARCH		92.5-	93.4	93.2									
MOTOR			84.6	84.8									
T. L. ML/GAL.		3.38+	0.83	0.67									
INHIBITORS: #/M BBLs.													
T20		116-	118	111									
COMPOSITION:													
LSR			7.9	6.9									
FCC			33.5	39.5									
Thermal			5.9	3.2									
#2 Ref			12.3	9.9									
Butane			1.9	9.9									
Polv Gasoline			2.5	2.6									
Ref Naphtha			6.3										
Alky													
#1 Ref			14.0	14.1									
ut SR			11.3	10.0									
Den CH			4.4	3.9									

REMARKS: * 12,577 bbls. delivered to Conoco via EPL (COL 32-041)
** 69,607 bbls. delivered to Conoco via EPL (COL 31-031)

MCD 000022524

REFINERY Lake Charles No. 3

WEEKLY PROGRESS REPORT

WEEK ENDING 7 A. M. February 8, 1982

Explorer

GASOLINE SHIPMENTS

GRADE	Inter-seasonal	SPECS	REGULAR	SPECS	NO LEAD				
TANK NUMBER			80		31				
TENDER			*		**				
BARRELS									
GRAVITY, A. P. I.			60.5		58.2				
I. B. P.			91		90				
10 % EVAP. AT	140+		121		118				
50 % AT	170-240		215		227				
90 % AT	365+		320		339				
% AT 140	10-		18		17.5				
% AT 170	50+		30.5		28.5				
% AT 240	50-		61		56				
% AT 365	90-		96.5		94.5				
% AT									
% AT									
DRY POINT			385		408				
END POINT	430+		394		417				
RECOVERY, %	96-		96		96				
R. V. P.	11.5+		11.4		11.5				
ASTM GUM (UW)									
TM GUM (W)	4+		0.4		0.8				
ACCEL GUM (UW)			4.6		2.0				
IND. PER., MIN.	360-		360+		360+				
SULFUR, WT. %	0.1+		0.02		0.02				
DOCTOR TEST			SWt		SWt				
MERCAP SULFUR, WT. %									
SAYBOLT COLOR									
OCTANE NUMBER									
1/2(R&M)	89.0-		89.0	87.0-	87.1				
RESEARCH	92.5-		92.5	91.0-	92.3				
MOTOR			85.5	82.0-	82.0				
TEL. ML/GAL.	3.38+		0.89	0.01+	<.003				
INHIBITORS: #/M BBLs.									
T20	124-		129		130				
COMPOSITION:									
LSR			11.1		1.7				
			15.4		39.7				
			7.0		3.2				
			22.0		33.3				
			4.3		2.2				
			1.1		2.9				
			0.2		3.3				
			4.0		8.4				
			22.1		1.4				
			9.4		3.0				
			3.4		0.9				

REMARKS: * 14,633 bbls. delivered to Conoco via FPI (COL 31-041)

** 40,522 bbls. delivered to Conoco via FPI (COL 41-041)

REFINERY Lake Charles No. 3
WEEKLY PROGRESS REPORT

WEEK ENDING 7 A. M. February 8, 1982

SHIPMENTS OF KEROSENE, DISTILLATE, AND OTHER PRODUCTS

GRADE	SPECS	#2 FUEL											
TANK NUMBER		82	88										
TENDERS													
BARRELS													
GRAVITY, API	30-	31.7	33.4										
FLASH, COC, °F													
FLASH, TOC, °F													
FLASH, TCC, °F													
FLASH, PM, °F	130-	186	178										
VISCOSITY @ 100 °F	32.6-37.9	36.7	37.3										
SSF @ 122 °F													
COLOR	2.5+	11.0	11.5										
SULFUR, WT. %	0.2+	0.20	0.16										
POUR POINT, °F	0+	-10	0										
CLOUD POINT, °F	15+	8	6										
CST @ 122 °F													
CETANE INDEX	40-	44.5	46.5										
RBON RES. RAMS % BTMS., WT. %	0.35+	0.14	0.10										
ASH, WT. %	0.01+	0.00	0.00										
16 HR. ACC. O. B. GUM													
WATER & SEDIMENT, %	0.05+	tr	tr										
ANILINE POINT, °F													
SMOKE POINT, MM.													
FREEZE POINT, °F													
AROMATICS													
I. B. P., °F		404	407										
10%	480+	466	465										
20%													
50%		537	536										
90%	640+	599	599										
95%													
END POINT	670+	640	648										
Neut No.		0.12	0.12										
Pad Rtg.	4+	3	3										
Haze @ 70°F		2	2										
COMPOSITION:													
Desulf Dsl		9.3	16.2										
Diesel		45.6	45.0										
Lt FCC CO		30.3	22.7										
HOD		7.2	7.1										
Dsl Dst		2.3	4.0										
Raff Solv													
1+ Th CY Oil		5.3	5.0										
lex Raff													

REMARKS: * 30,884 bbls. delivered to Conoco via 'EPL (COL 76-041)
25,000 bbls. delivered to Keystone via LCPL (KSK 76-041)
16,982 bbls. delivered to Conoco via LCPL (CLK 76-046)
** 33,000 bbls. delivered to Conoco via LCPL (CLK 76-046)
76,889 bbls. delivered to Northville via LCPL (NIK 76-046)

MCD 000022526

REFINERY Lake Charles No. 3
WEEKLY PROGRESS REPORT

WEEK ENDING 7 A.M. February 8, 1982

SHIPMENTS OF KEROSENE, DISTILLATE, AND OTHER PRODUCTS

[illegible]

REMARKS: * 10,353 bbls. delivered to American Airlines via EPL(AAL 51-042)
 ** 41,968 bbls. delivered to Conoco via FPL (COL 51-041)
 14,647 bbls. delivered to American Airlines via FPL (AAL 51-042)
 *** 31,872 bbls. delivered to Conoco via LCPL (COL 51-041)
 30,376 bbls. delivered to Conoco via LCPL (CLK 51-041)

MCD 000022527

REFINERY Lake Charles No. 3

WEEKLY PROGRESS REPORT

WEEK ENDING 7 A. M. February 8, 1982

SHIPMENTS OF KEROSENE, DISTILLATE, AND OTHER PRODUCTS

GRADE	KERO	#1 FUEL	#2 FUEL	DIESEL	DIESEL	HVY. FUEL OIL	SAND FRAC.						
TANK NUMBER	95		202										
TENDERS	*		**										
BARRELS	local		local										
GRAVITY, API	41.3		32.5										
FLASH, COC, °F													
FLASH, TOC, °F													
FLASH, TCC, °F	158												
FLASH, PM, °F			199										
VISCOSITY @ 100°F	1.70												
CS @ -4 °F	7.3												
COLOR	27		L1.0										
SULFUR, WT. %	0.02		0.16										
POUR POINT, °F			-10										
CLOUD POINT, °F			10										
CST @ 122 °F	1A		1A										
CETANE INDEX	45		46										
SON RES. RAMS BTMS., WT. %			0.16										
ASH, WT. %			0.00										
WSIM	98												
WATER & SEDIMENT, %			trace										
ANILINE POINT, °F	147.5		139										
SMOKE POINT, MM.	29												
FREEZE POINT, °F	-100												
AROMATICS	15												
I. B. P., °F	374		404										
10%	400		466										
20%													
50%	430		537										
90%	465		600										
95%	504												
END POINT	533		649										
Neut No.			0.11										
90 Min Stab			3										
Haze @ 70°F			1										
COMPOSITION:													
Diesel			58.6										
Lt FCC CO			29.2										
HOD.			6.6										
Lt TCO			5.6										
Npahtha													
Molex Raff													
ff Solv													

REMARKS: * 2 Trucks of Jet Fuel loaded for local sales

** 22 tank cars of #2 Fuel loaded

REFINERY Lake Charles No. 3
WEEKLY PROGRESS REPORT

WEEK ENDING 7 A.M. February 8, 1982

SHIPMENTS OF KEROSENE, DISTILLATE, AND OTHER PRODUCTS

GRADE	LIGHT	BLEND			HEAVY	BLEND		#6 FUEL OIL				
TANK NUMBER	340	342	342		297	297	297	89				
TENDERS	*	**	***		+	++	+++	X				
BARRELS												
GRAVITY, API	36.6	36.7	36.5		30.3	30.6	31.9	11.5				
FLASH, COC, °F												
FLASH, TOC, °F												
FLASH, TCC, °F												
FLASH, PM, °F	210	178	224		230+	253	261	230+				
VISCOSITY @ 100 °F												
SSF @ 122 °F								2.11				
COLOR	L1.0	L1.0	L0.5		L1.5	L2.5	L2.0					
SULFUR, WT. %	0.04	0.05	0.03		0.04	0.04	0.12	1.0				
POUR POINT, °F	20	30	10		60	65	55	70				
CLOUD POINT, °F	26		14									
CST @ 122 °F												
CETANE INDEX												
BON RES. RAMS & BTMS., WT. %	0.05	0.07	0.08		0.08	0.08	0.10					
ASH, WT. %	0.00	0.00	0.00		0.00	0.00	0.00	0.008				
16 Hr. Acc. O.B. GUM												
WATER & SEDIMENT, %	trace	trace	trace		trace	trace	trace	trace				
ANILINE POINT, °F												
SMOKE POINT, MM.								S, ppm 19				
FREEZE POINT, °F								V, ppm 22				
AROMATICS												
I. B. P., °F	412	454	471		448	448	434					
10%	483	511	504		590	590	588					
20%												
50%	546	551	543		703	703	686					
90%	610	611	598		810	810	790					
95%												
END POINT	684	678	627		873	873	864					
BMC1	28	29	29		32	32	31					
K Factor	11.9	11.9	11.9		32	32	31					
Metal	< 1	< 1	< 1									
COMPOSITION:												
Mollex Raff												
#2 Dsl	11.0	22.8	79.7									
Naphtha												
#3 Desulf GO					34.7	34.9	75.4					
#3 Desulf DFO	83.3	76.8	20.3									
#3 Desulf LVGO					65.3	65.1	24.6					
Debut SR												
HOD	5.7	0.4	1.0									

REMARKS: * 50,042 bbls. loaded on Barges 7006 & 7007 for Conoco Chemicals
 ** 17,001 bbls. loaded on Barge ALMO 19 for Conoco Chemicals
 *** 25,485 bbls. loaded on Barge 7006 for Conoco Chemicals
 + 45,463 bbls. loaded on Barges 7004 & 7005 for Conoco Chemicals
 ++ 15,003 bbls. loaded on Barge ALMO 19 for Conoco Chemicals
 +++ 22,167 bbls. loaded on Barge 7007 for Conoco Chemicals
 X 100,000 bbls. loaded on S/S Guadalupe for Koch

MCD 000022529

REFINERY

No.

WEEKLY PROGRESS REPORT

WEEK ENDING 7 A.M. February 8, 1982

UNLOADINGS OF KEROSENE, DISTILLATE, AND OTHER PRODUCTS

[illegible]

REMARKS:

- (1) & (2) Barges 7001 & 7002 from Conoco Chemicals unloaded to refinery storage
(3) Barges S2021 & 2022 from Crown Central unloaded to refinery storage
(4) S/S Alamo from Humber Refinery unloaded to refinery storage

MCD 000022530