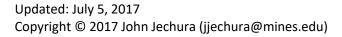
		I	ncrement	Cumulative		Corrected	Corrected	Mid-Cumulative	
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP						
1	756	122	2.6	2.6	0.644				
2	756	167	2.3	4.9	0.683				
3	756	212	5.0	9.9	0.725				
4	756	257	7.9	17.8	0.751				
5	756	302	6.2	24.0	0.772				
6	756	347	4.9	28.9	0.791				
7	756	392	4.6	33.5	0.808				
8	756	437	5.2	38.7	0.825				
9	756	482	4.9	43.6	0.837				
10	756	527	6.2	49.8	0.852				
11	40	392	4.3	54.1	0.867				
12	40	437	5.2	59.3	0.872				
13	40	482	5.3	64.6	0.890				
14	40	527	3.2	67.8	0.897				
15	40	572	5.4	73.2	0.915				
Residuum			25.0	98.2	0.984				
Total									
Loss									
Reported					0.854				





					•				
			Increment	Cumulative	:	Corrected	Corrected	Mid-Cum	nulative
Fraction	mm Hg	°F :	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	lBP						
1	756	122		2.6	0.644				
2	756	16 <mark>7</mark>	2.3	4.9	0.683				
3	756			9.9	0.725				
4	756	_		17.8	0.751				
5	756	302	6.2	24.0	0.772				
6	756	347	4.9	28.9	0.791				
7	756	39 <mark>2</mark>	4.6	33.5	0.808				
8	756			38.7	0.825				
9	756			43.6	0.837				
10	756			49.8	0.852				
11	40	392	4.3	54.1	0.867				
12	40	_		59.3	0.872				
13	40			64.6	0.890				
14	40	527	3.2	67.8	0.897				
15	40	572	5.4	73.2	0.915				
Residuum			25.0	98.2	0.984				
Total			98.2						
Loss									
Reported					0.854				

If both incremental & cumulative yields given, use one & calculate other (as check).

Updated: July 5, 2017 Copyright © 2017 John Jechura (jjechura@mines.edu)



			Increment	Cumulative		Corrected	Corrected	Mid-Cum	nulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP		-				
1	756	122	2.6	2.6	0.644				
2	756	167	2.3	4.9	0.683				
3	756	212	5.0	9.9	0.725				
4	756	257	7.9	17.8	0.751				
5	756	302	6.2	24.0	0.772				
6	756	347	4.9	28.9	0.791				
7	756	392	4.6	33.5	0.808				
8	756	437	5.2	38.7	0.825				
9	756	482	4.9	43.6	0.837				
10	756	527	6.2	49.8	0.852				
11	40	392	4.3	54.1	0.867				
12	40	437	5.2	59.3	0.872				
13	40	482	5.3	64.6	0.890				
14	40	527	3.2	67.8	0.897				
15	40	572	5.4	73.2	0.915				
Residuum			25.0	98.2	0.984				
Total			98.2	••••					
Loss			1.8						
Reported				""	0.854				

Calculate difference from 100%.
Attribute losses to light ends.

Updated: July 5, 2017 Copyright © 2017 John Jechura (jjechura@mines.edu)



		I	Increment	Cumulative		Corrected	Corrected	Mid-Cumulative	
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP						
1	756	122	2.6	2.6	0.644				
2	756	167	2.3	4.9	0.683				
3	756	212	5.0	9.9	0.725				
4	756	257	7.9	17.8	0.751				
5	756	302	6.2	24.0	0.772				
6	756	347	4.9	28.9	0.791				
7	756	392	4.6	33.5	0.808				
8	756	437	5.2	38.7	0.825				
9	756	482	4.9	43.6	0.837				
10	756	527	6.2	49.8	0.852				
11	40	392	4.3	54.1	0.867				
12	40	437	5.2	59.3	0.872				
13	40	482	5.3	64.6	0.890				
14	40	527	3.2	67.8	0.897				
15	40	572	5.4	73.2	0.915				
Residuum			25.0	98.2	0.984				
				7.1		:			
Total			98.2	:	0.858				
Loss			1.8						
Reported					0.854				

Calculate overall specific gravity & compare to reported value.

Updated: July 5, 2017



			ncrement	Cumulative		Corrected	Corrected	Mid-Cumulative	
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP		-				
1	756	122	2.6	2.6	0.644				88.2
2	756	167	2.3	4.9	0.683				75.7
3	756	212	5.0	9.9	0.725				63.7
4	756	257	7.9	17.8	0.751			:	56.9
5	756	302	6.2	24.0	0.772				51.8
6	756	347	4.9	28.9	0.791				47.4
7	756	392	4.6	33.5	0.808				43.6
8	756	437	5.2	38.7	0.825				40.0
9	756	482	4.9	43.6	0.837				37.6
10	756	527	6.2	49.8	0.852				34.6
11	40	392	4.3	54.1	0.867				31.7
12	40	437	5.2	59.3	0.872				30.8
13	40	482	5.3	64.6	0.890			:	27.5
14	40	527	3.2	67.8	0.897				26.2
15	40	572	5.4	73.2	0.915				23.1
Residuum			25.0	98.2	0.984				12.3
								<i></i>	
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				

Calculate the °API from the given specific gravities.





			Increment	Cumulative		Corrected	Corrected	Mid-Cum	nulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Çumulative	Amount	°API
	756	82	IBP			82.3			
1	756	122	2.6	2.6	0.644	122.3			88.2
2	756	167	2.3	4.9	0.683	167.3			75.7
3	756	212	5.0	9.9	0.725	212.3			63.7
4	756	257	7.9	17.8	0.751	257.3			56.9
5	756	302	6.2	24.0	0.772	302.4	:		51.8
6	756	347	4.9	28.9	0.791	347.4			47.4
7	756	392	4.6	33.5	0.808	392.4			43.6
8	756	437	5.2	38.7	0.825	437.4			40.0
9	756	482	4.9	43.6	0.837	482.4			37.6
10	756	527	6.2	49.8	0.852	527.4	:		34.6
11	40	392	4.3	54.1	0.867		- - 1		31.7
12	40	437	5.2	59.3	0.872				30.8
13	40	482	5.3	64.6	0.890				27.5
14	40	527	3.2	67.8	0.8/97				26.2
15	40	572	5.4	73.2	0.915				23.1
Residuum			25.0	98.2	0.984				12.3
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				

Correct the reported atmospheric TBP temperatures to 760 mmHg.

Updated: July 5, 2017



		ı	ncrement	Cumulative		Corrected	Corrected	Mid-Cum	ulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP			82.3			
1	756	122	2.6	2.6	0.644	122.3			88.2
2	756	167	2.3	4.9	0.683	167.3			75.7
3	756	212	5.0	9.9	0.725	212.3			63.7
4	756	257	7.9	17.8	0.751	257.3			56.9
5	756	302	6.2	24.0	0.772	302.4			51.8
6	756	347	4.9	28.9	0.791	347.4			47.4
7	756	392	4.6	33.5	0.808	392.4			43.6
8	756	437	5.2	38.7	0.825	437.4			40.0
9	756	482	4.9	43.6	0.837	482.4			37.6
10	756	527	6.2	49.8	0.852	527.4			34.6
11	40	392	4.3	54.1	0.867	584.0			31.7
12	40	437	5.2	59.3	0.872	635.0			30.8
13	40	482	5.3	64.6	0.890	685.5			27.5
14	40	527	3.2	67.8	0.897	735.7			26.2
15	40	572	5.4	73.2	0.915	785.4			23.1
Residuum			25.0	98.2	0.984				12.3
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				

Correct the reported TBP temperatures from 40 mmHg to 760 mmHg.

Updated: July 5, 2017



			Increment	Cumulative		Corrected	Corrected	Mid-Cum	ulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative.	Amount	°API
	756	82	IBP			82.3	1.8		
1	756	122	2.6	2.6	0.644	122.3	7		88.2
2	756	167	2.3	4.9	0.683	167.3	/		75.7
3	756	212	5.0	9.9	0.725	212.3			63.7
4	756	257	7.9	17.8	0.751	257.			56.9
5	756	302	6.2	24.0	0.772	302.4			51.8
6	756	347	4.9	28.9	0.791	347.4			47.4
7	756	392	4.6	33.5	0.808	392.4			43.6
8	756	437	5.2	38.7	0.825	437.4			40.0
9	756	482	4.9	43.6	0.837	482.4			37.6
10	756	527	6.2	49.8	0.852	527.4			34.6
11	40	392	4.3	54.1	0.867	584.0			31.7
12	40	437	5.2	59.3	0.872	635.0			30.8
13	40	482	5.3	64.6	0.890	685.5			27.5
14	40	527	3.2	67.8	0.897	735.7			26.2
15	40	572	5.4	73.2	0.915	785.4			23.1
Residuum			25.0	98.2	0.984				12.3
					/				
Total		21	98.2	•••	0.85				
Loss		:	1.8						
Reported		١.		I E	0.854				

Start the corrected cumulative amounts with the light ends loss.

Updated: July 5, 2017



		ı	ncrement	Cumulative		Corrected	Corrected	Mid-Cun	nulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F .	Cumulative	Amount	°API
	756	82	IBP			82.3	1.8		
1	756	122	2.6	2.6	0.644	122.3	4.4		88.2
2	756	167	2.3	4.9	0.683	167.3	6.7		75.7
3	756	212	5.0	9.9	0.725	212.3	11.7		63.7
4	756	257	7.9	17.8	0.751	257.3	19.6		56.9
5	756	302	6.2	24.0	0.772	302.4	25.8		51.8
6	756	347	4.9	28.9	0.791	347.4	30.7		47.4
7	756	392	4.6	33.5	0.808	392.4	35.3		43.6
8	756	437	5.2	38.7	0.825	437.4	40.5		40.0
9	756	482	4.9	43.6	0.837	482.4	45.4		37.6
10	756	527	6.2	49.8	0.852	527.4	51.6		34.6
11	40	392	4.3	54.1	0.867	584.0	55.9		31.7
12	40	437	5.2	59.3	0.872	635.0	61.1		30.8
13	40	482	5.3	64.6	0.890	685.5	66.4		27.5
14	40	527	3.2	67.8	0.897	735.7	69.6		26.2
15	40	572	5.4	73.2	0.915	785.4	75.0		23.1
Residuum			25.0	98.2	0.984		100.0		12.3
								•	
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				

Calculate the corrected cumulative amounts including the light ends loss.

Updated: July 5, 2017



			ncrement	Cumulative		Corrected	Corrected	Mid-Cum	ulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	.Amount	°API
	756	82	IBP			82.3	1.8	0.9	
1	756	122	2.6	2.6	0.644	122.3	4.4	3.1	88.2
2	756	167	2.3	4.9	0.683	167.3	6.7	5.5	75.7
3	756	212	5.0	9.9	0.725	212.3	11.7	9.2	63.7
4	756	257	7.9	17.8	0.751	257.3	19.6	15.7	56.9
5	756	302	6.2	24.0	0.772	302.4	25.8	22.7	51.8
6	756	347	4.9	28.9	0.791	347.4	30.7	28.3	47.4
7	756	392	4.6	33.5	0.808	392.4	35.3	33.0	43.6
8	756	437	5.2	38.7	0.825	437.4	40.5	37.9	40.0
9	756	482	4.9	43.6	0.837	482.4	45.4	43.0	37.6
10	756	527	6.2	49.8	0.852	527.4	51.6	48.5	34.6
11	40	392	4.3	54.1	0.867	584.0	55,9	53.8	31.7
12	40	437	5.2	59.3	0.872	635.0	61.1	58.5	30.8
13	40	482	5.3	64.6	0.890	685.5	66.4	63.8	27.5
14	40	527	3.2	67.8	0.897	735.7	69.6	68.0	26.2
15	40	572	5.4	73.2	0.915	785.4	75.0	72.3	23.1
Residuum			25.0	98.2	0.984		100 0	87.5	12.3
							_ ¹ '''		
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				

Calculate the cumulative amount at the mid-point of the increment.





		I	ncrement	Cumulative		Corrected	Corrected	Mid-Cum	ulative
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP			82.3	1.8	0.9	
1	756	122	2.6	2.6	0.644	122.3	4.4	3.1	88.2
2	756	167	2.3	4.9	0.683	167.3	6.7	5.5	75.7
3	756	212	5.0	9.9	0.725	212.3	11.7	9.2	63.7
4	756	257	7.9	17.8	0.751	257.3	19.6	15.7	56.9
5	756	302	6.2	24.0	0.772	302.4	25.8	22.7	51.8
6	756	347	4.9	28.9	0.791	347.4	30.7	28.3	47.4
7	756	392	4.6	33.5	0.808	392.4	35.3	33.0	43.6
8	756	437	5.2	38.7	0.825	437.4	40.5	37.9	40.0
9	756	482	4.9	43.6	0.837	482.4	45.4	43.0	37.6
10	756	527	6.2	49.8	0.852	527.4	51.6	48.5	34.6
11	40	392	4.3	54.1	0.867	584.0	55.9	53.8	31.7
12	40	437	5.2	59.3	0.872	635.0	61.1	58.5	30.8
13	40	482	5.3	64.6	0.890	685.5	66.4	63.8	27.5
14	40	527	3.2	67.8	0.897	735.7	69.6	68.0	26.2
15	40	572	5.4	73.2	0.915	785.4	75.0	72.3	23.1
Residuum			25.0	98.2	0.984		100.0	87.5	12.3
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				





									_	
					umulative		Corrected	Corrected	Mid-Cum	
Frac	tion	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
		756	82	IBP			82.3	1.8	0.9	
	1	756	122	2.6	2.6	0.644		4.4	3.1	88.2
	2	756	167	2.3	4.9	0.683		6.7	5.5	75.
	3	756	212	5.0	9.9	0.725		11.7	9.2	63.
	4	756	257	7.9	17.8	0.751		19.6	15.7	56.9
	5	756	302	6.2	24.0	0.772		25.8	22.7	51.
	6	756	347	4.9	28.9	0.791	347.4	30.7	28.3	47.4
	_		222	1.0	^^ -	30 <mark>8</mark>		35.3	33.0	43.0
			Ten Section Fie	ld (pg 402)		325	437.4	40.5	37.9	40.0
			Tell Section Fiel	iu (pg 402)		32 <mark>5</mark> 33 <mark>7</mark>	482.4	45.4	43.0	37.0
						35 <mark>2</mark>	527.4	51.6	48.5	34.6
120	00							55.9	53.8	31.
	F					/ 372		61.1	58.5	30.8
	[390		66.4	63.8	27.
100	00 ‡					39 7		69.6	68.0	26.2
	-					915		75.0		23.
正 80	00 ‡		_	 		984		100.0	87.5	12.3
ē.	E					358				
atn 60	00 ‡									
ber	E				0	354				
Temperature [°F]	00 =									
20	00 + 0		_							
	0 +	10 20	30 40	50 60 7	70 80 90) 100				
	U	10 20		e Yield [vol%]	70 60 90	, 100				
	0	Original Data •	Corrected °F & vol9	% — Interpolat	ed/Extrapolated Cur	ve				

Updated: July 5, 2017 Copyright © 2017 John Jechura (jjechura@mines.edu)



			ncrement	Cumulative		Corrected	Corrected	Mid-Cum	ulative			
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API			
	756	82	IBP			82.3	1.8	0.9				
1	756	122	2.6	2.6	0.644		4.4	3.1	88.2			
2	756	167	2.3	4.9	0.683		6.7	5.5	75.7			
3	756	212	5.0	9.9	0.725		11.7	9.2	63.7			
4	756	257	7.9	17.8	0.751		19.6	15.7	56.9			
5	756	302	6.2	24.0	0.772		25.8	22.7	51.8			
6	756	347	4.9	28.9	0.791	347.4	30.7	28.3	47.4			
7	756						35.3	33.0	43.6			
8	756			40.5	37.9	40.0						
9	756			Ten Section Field	(10 10 -7		45.4	43.0	37.6			
10	756						51.6	48.5	34.6			
11	40	120					55.9	53.8	31.7			
12	40	-					61.1	58.5	30.8			
13	40	100					66.4	63.8	27.5			
14	40	100					69.6	68.0	26.2			
15	40	Ī. \					75.0	72.3	23.1			
Residuum		80 +					100.0	87.5	12.3			
		≥					1					
otal		API Gravity										
.oss		6 0 +										
Reported		<u> </u>										
		40	· · · · · · · · · · · · · · · · · · ·			i						
		40 T										
		-										
		20 🕂 — -										
		-										
		-					<u> </u>					
		0 +	+	++								
		0	10 20	30 40 50	60 70	80 90	100					
				Mid-Incremen								
			Fraction's SpGr @ Mid Volume Interpolated/Extrapolated Curve									
			action 3 Spor @	Tina volume	interpolated/	Extrapolated carve	┙ │					





		IncrementCumulative				Corrected	Corrected	Mid-Cumulative	
Fraction	mm Hg	°F	vol%	vol%	SpGr	°F	Cumulative	Amount	°API
	756	82	IBP			82.3	1.8	0.9	
1	756	122	2.6	2.6	0.644	122.3	4.4	3.1	88.2
2	756	167	2.3	4.9	0.683	167.3	6.7	5.5	75.7
3	756	212	5.0	9.9	0.725	212.3	11.7	9.2	63.7
4	756	257	7.9	17.8	0.751	257.3	19.6	15.7	56.9
5	756	302	6.2	24.0	0.772	302.4	25.8	22.7	51.8
6	756	347	4.9	28.9	0.791	347.4	30.7	28.3	47.4
7	756	392	4.6	33.5	0.808	392.4	35.3	33.0	43.6
8	756	437	5.2	38.7	0.825	437.4	40.5	37.9	40.0
9	756	482	4.9	43.6	0.837	482.4	45.4	43.0	37.6
10	756	527	6.2	49.8	0.852	527.4	51.6	48.5	34.6
11	40	392	4.3	54.1	0.867	584.0	55.9	53.8	31.7
12	40	437	5.2	59.3	0.872	635.0	61.1	58.5	30.8
13	40	482	5.3	64.6	0.890	685.5	66.4	63.8	27.5
14	40	527	3.2	67.8	0.897	735.7	69.6	68.0	26.2
15	40	572	5.4	73.2	0.915	785.4	75.0	72.3	23.1
Residuum			25.0	98.2	0.984		100.0	87.5	12.3
Total			98.2		0.858				
Loss			1.8						
Reported					0.854				



