

# Introducing ..... *GOMFields*

The screenshot displays the GOMFields software interface. The 'Field Details' tab is active, showing the following information:

- Field Name: GB426, Auger
- Operator Field Name: Auger
- Field Type: Oil
- Discovery Date: May-1987
- Proved Oil [MMstb]: 219.3
- Proved Gas [BCF]: 820.2
- Water Depth [ft]: 2,863.0
- Field GOR [scf/stb]: 3740

Below the field details is a 'Field History' table with the following columns: Month, Oil Rate [bbls/d], Gas Rate [Mcf/d], Water Rate [bbls/d], Liquid Rate [bbls/d], Oil Volume [bbbls], Gas Volume [Mcf], Water Volume [bbbls], Liquid Volume [bbbls], Cumulative Oil [bbbls], and Cumulative Gas [Mcf].

Month	Oil Rate [bbls/d]	Gas Rate [Mcf/d]	Water Rate [bbls/d]	Liquid Rate [bbls/d]	Oil Volume [bbbls]	Gas Volume [Mcf]	Water Volume [bbbls]	Liquid Volume [bbbls]	Cumulative Oil [bbbls]	Cumulative Gas [Mcf]
Apr-1994	963.2	1,875.1	5.9	969.1	28,895.0	56,254.0	178.0	29,073.0	28,895.0	56,254.0
May-1994	3,293.5	6,968.1	0.0	3,293.5	102,100.0	216,010.0	0.0	102,100.0	130,995.0	272,264.0
Jun-1994	12,087.1	36,274.2	12.1	12,099.2	362,613.0	1,088,226.0	362.0	362,975.0	493,608.0	1,360,490.0
Jul-1994	24,103.3	72,973.0	23.5	24,126.8	747,202.0	2,262,162.0	730.0	747,932.0	1,240,810.0	3,622,652.0
Aug-1994	41,794.1	97,725.3	3.6	41,797.7	1,295,617.0	3,029,484.0	113.0	1,295,730.0	2,536,427.0	6,652,136.0
Sep-1994	45,399.1	99,914.4	1.1	45,400.2	1,361,972.0	2,997,431.0	33.0	1,362,005.0	3,898,399.0	9,649,567.0
Oct-1994	41,467.7	87,605.5	0.1	41,467.9	1,285,500.0	2,715,769.0	4.0	1,285,504.0	5,183,899.0	12,365,336.0
Nov-1994	37,893.3	79,656.5	3.1	37,896.4	1,136,800.0	2,389,696.0	93.0	1,136,893.0	6,320,699.0	14,755,032.0
Dec-1994	47,107.7	101,054.2	0.0	47,107.7	1,460,338.0	3,132,679.0	0.0	1,460,338.0	7,781,037.0	17,887,711.0
Jan-1995	31,118.8	64,706.5	0.0	31,118.8	964,684.0	2,005,902.0	0.0	964,684.0	8,745,721.0	19,893,613.0
Feb-1995	48,227.8	102,033.1	0.0	48,227.8	1,350,378.0	2,856,928.0	0.0	1,350,378.0	10,096,099.0	22,750,541.0
Mar-1995	49,056.0	102,479.3	286.5	49,342.5	1,520,736.0	3,176,858.0	8,882.0	1,529,618.0	11,616,835.0	25,927,399.0
Apr-1995	45,807.1	95,040.9	6.9	45,814.1	1,374,214.0	2,851,227.0	208.0	1,374,422.0	12,991,049.0	28,778,626.0
May-1995	58,746.7	122,562.2	0.0	58,746.7	1,821,147.0	3,799,429.0	0.0	1,821,147.0	14,812,196.0	32,578,055.0
Jun-1995	56,220.7	117,085.3	0.0	56,220.7	1,686,621.0	3,512,558.0	0.0	1,686,621.0	16,498,817.0	36,090,613.0
Jul-1995	57,113.1	119,420.6	0.0	57,113.1	1,770,506.0	3,702,038.0	0.0	1,770,506.0	18,269,323.0	39,792,651.0
Aug-1995	55,917.0	116,487.3	0.0	55,917.0	1,733,427.0	3,673,106.0	0.0	1,733,427.0	20,002,750.0	43,465,757.0
Sep-1995	40,710.7	84,008.9	0.2	40,710.9	1,221,321.0	2,520,267.0	5.0	1,221,326.0	21,224,071.0	45,986,024.0
Oct-1995	53,432.1	114,725.8	0.0	53,432.1	1,656,396.0	3,556,501.0	0.0	1,656,396.0	22,880,467.0	49,542,525.0
Nov-1995	59,467.5	127,138.5	0.0	59,467.5	1,784,024.0	3,814,155.0	0.0	1,784,024.0	24,664,491.0	53,356,680.0
Dec-1995	65,982.9	143,685.7	2.3	65,985.1	2,045,469.0	4,454,258.0	70.0	2,045,539.0	26,709,960.0	57,810,938.0
Jan-1996	69,086.9	150,618.5	0.0	69,086.9	2,141,695.0	4,669,173.0	0.0	2,141,695.0	28,851,655.0	62,480,111.0
Feb-1996	69,547.1	150,033.3	0.0	69,547.1	2,016,867.0	4,350,966.0	0.0	2,016,867.0	30,868,522.0	66,831,077.0
Mar-1996	68,591.7	148,098.6	0.0	68,591.7	2,126,343.0	4,591,057.0	0.0	2,126,343.0	32,994,865.0	71,422,134.0



## ***GOMFields* is a database application containing all US Gulf of Mexico field production data**

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- ❑ Analyse the production and injection history of any field in the Gulf of Mexico, based on a rate or ratio v's time basis or rate or ratio v's cumulative basis
- ❑ Obtain well statistics [maximum rates, cumulative recoveries, etc] on a field-by-field basis
- ❑ Perform field level decline curve analysis on the oil or gas rate v's time basis, or any rates and ratios displayed on a cumulative basis
- ❑ Examine the key production profile statistics for any Gulf of Mexico oil and gas field for analogue field comparison



# Field Details

- Quickly navigate between fields with the FieldView tree structure
- Easy copy and paste tables to clipboard

WellName	Months on Production	Max Oil Rate [bbls/d]	Max Gas Rate [Mcf/d]	Max Water Rate [bbls/d]	Cumulative Oil [bbls]	Cumulative Gas [Mcf]	Cumulative Water [bbls]
A001	86	9,011.3	26,368.4	14,232.3	10,794,946.0	23,297,209.0	2,060,595.0
A002	63	11,576.9	35,869.9	5,775.8	9,532,946.0	22,560,493.0	1,681,309.0
A003	89	13,950.1	59,884.8	8,792.2	4,909,661.0	23,073,340.0	1,529,490.0
A004	29	11,940.8	20,144.8	1,996.5	5,495,213.0	9,183,424.0	302,924.0
A005	84	9,528.8	24,443.1	3,249.2	9,205,942.0	20,355,769.0	1,795,078.0
A006	38	11,533.8	22,431.8	3,668.4	8,056,888.0	14,165,364.0	335,795.0
A007	63	10,804.9	18,141.2	4,821.1	8,973,023.0	15,513,169.0	1,879,691.0
A008	83	13,118.6	88,202.9	4,636.8	19,432,450.0	118,154,839.0	741,797.0
A009	62	16,897.0	30,801.0	6,836.7	13,163,591.0	28,721,957.0	2,373,140.0
A010	66	14,375.4	84,860.9	10,146.7	8,160,746.0	47,407,295.0	5,278,524.0
A011	42	3,685.7	32,104.3	4,579.9	1,116,830.0	7,807,373.0	1,519,362.0
A012	92	12,688.4	44,505.3	7,538.7	11,853,492.0	30,667,014.0	8,136,727.0
A013	101	19,459.3	44,731.6	3,109.5	15,079,154.0	40,594,580.0	3,911,583.0
A014	113	12,589.8	66,266.6	4,013.4	17,989,736.0	91,185,393.0	2,261,416.0
A015	49	7,008.9	27,311.7	2,589.0	5,240,083.0	18,559,779.0	349,055.0
A016	80	13,522.5	68,648.4	2,400.5	12,417,288.0	58,151,196.0	1,232,098.0
A017	10	18,052.7	35,118.3	0.0	4,390,660.0	8,799,724.0	0.0
A018	28	2,457.3	47,424.3	3,133.4	719,654.0	12,166,536.0	531,705.0
A019	81	9,039.3	32,415.9	4,001.2	13,749,731.0	45,914,291.0	1,597,350.0
A020	91	12,554.5	87,492.5	9,382.3	9,533,506.0	78,347,880.0	4,300,099.0
Minimum		2,457.3	18,141.2				
Average		11,729.8	44,858.4				
Maximum		19,459.3	88,202.9				

The screenshot displays the 'Field Details' window for 'GB426, Auger'. It includes a 'FieldView' tree on the left, a 'Field Details' panel with fields for Name, Operator, Type, and Discovery Date, and a 'Field History' table. The table shows monthly production data from April 1994 to March 1999, including Oil Rate, Gas Rate, Water Rate, and Cumulative totals.

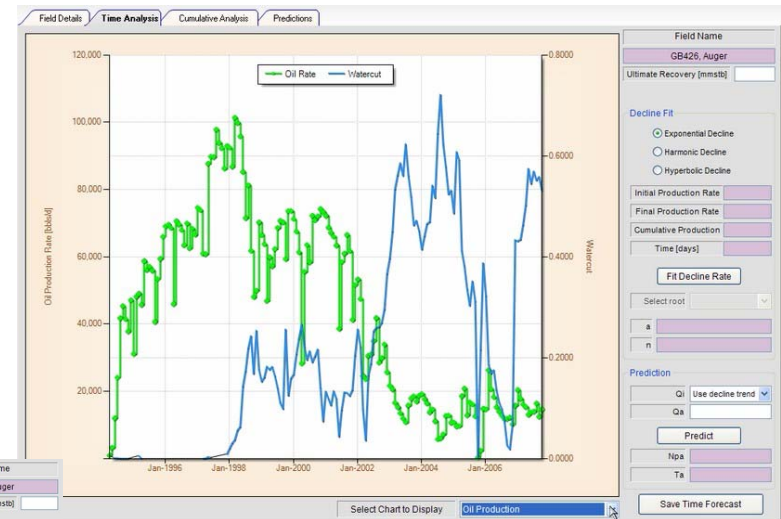
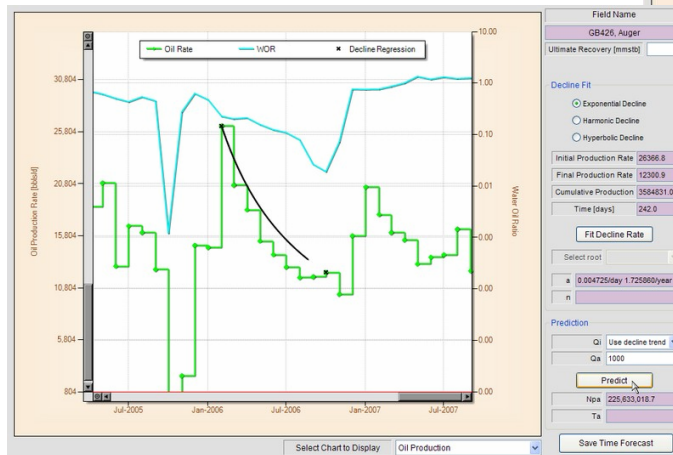
Month	Oil Rate [bbls/d]	Gas Rate [Mcf/d]	Water Rate [bbls/d]	Liquid Rate [bbls/d]	Oil Volume [bbls]	Gas Volume [Mcf]	Water Volume [bbls]	Liquid Volume [bbls]	Cumulative Oil [bbls]	Cumulative Gas [Mcf]
Apr-1994	963.2	1,875.1	5.9	969.1	20,995.0	56,254.0	178.0	29,073.0	28,995.0	56,254.0
May-1994	3,293.5	6,968.1	0.0	3,293.5	102,100.0	216,010.0	0.0	102,100.0	130,995.0	272,264.0
Jun-1994	12,087.1	36,274.2	12.1	12,099.2	362,613.0	1,088,226.0	362.0	362,975.0	493,608.0	1,360,490.0
Jul-1994	24,103.3	72,973.0	23.5	24,126.8	747,202.0	2,282,162.0	730.0	747,932.0	1,240,810.0	3,622,852.0
Aug-1994	41,794.1	97,725.2	3.6	41,797.7	1,295,617.0	3,029,484.0	113.0	1,295,730.0	2,536,427.0	6,652,196.0
Sep-1994	45,399.1	99,914.4	1.1	45,400.2	1,281,972.0	2,997,431.0	32.0	1,282,005.0	3,988,399.0	9,649,567.0
Oct-1994	41,467.7	87,605.5	0.1	41,467.9	1,285,500.0	2,715,769.0	0.0	1,285,504.0	5,183,899.0	12,365,336.0
Nov-1994	37,893.3	79,656.5	3.1	37,896.4	1,136,800.0	2,389,696.0	93.0	1,136,893.0	6,320,699.0	14,755,032.0
Dec-1994	47,107.7	101,954.2	0.0	47,107.7	1,460,338.0	3,132,679.0	0.0	1,460,338.0	7,781,037.0	17,887,711.0
Jan-1995	31,118.8	64,706.5	0.0	31,118.8	964,684.0	2,005,902.0	0.0	964,684.0	8,745,721.0	19,893,613.0
Feb-1995	48,227.8	102,033.1	0.0	48,227.8	1,350,378.0	2,856,928.0	0.0	1,350,378.0	10,096,099.0	22,750,541.0
Mar-1995	49,056.0	102,479.3	286.5	49,342.5	1,520,736.0	3,176,858.0	888.0	1,520,618.0	11,616,899.0	25,927,399.0
Apr-1995	45,807.1	95,040.9	6.9	45,814.1	1,374,214.0	2,851,227.0	2,082.0	1,374,422.0	12,991,049.0	28,778,628.0
May-1995	58,746.7	122,562.2	0.0	58,746.7	1,821,147.0	3,799,429.0	0.0	1,821,147.0	14,812,196.0	32,578,955.0
Jun-1995	56,220.7	117,665.2	0.0	56,220.7	1,686,621.0	3,512,558.0	0.0	1,686,621.0	16,498,817.0	36,096,130.0
Jul-1995	57,113.1	119,420.6	0.0	57,113.1	1,770,506.0	3,702,038.0	0.0	1,770,506.0	18,269,323.0	39,792,651.0
Aug-1995	55,917.0	118,487.3	0.0	55,917.0	1,733,427.0	3,673,106.0	0.0	1,733,427.0	20,002,750.0	43,465,757.0
Sep-1995	40,710.7	84,008.9	0.2	40,710.9	1,221,321.0	2,520,267.0	5.0	1,221,326.0	21,224,071.0	45,988,024.0
Oct-1995	53,432.1	114,725.8	0.0	53,432.1	1,656,396.0	3,556,901.0	0.0	1,656,396.0	22,880,467.0	49,542,523.0
Nov-1995	59,497.5	127,198.5	0.0	59,497.5	1,784,024.0	3,914,155.0	0.0	1,784,024.0	24,664,491.0	53,356,680.0
Dec-1995	65,982.9	143,685.7	2.3	65,985.1	2,045,469.0	4,454,258.0	70.0	2,045,539.0	26,709,960.0	57,810,938.0
Jan-1996	60,086.9	150,618.5	0.0	60,086.9	2,141,695.0	4,669,173.0	0.0	2,141,695.0	28,851,655.0	62,480,111.0
Feb-1996	69,547.1	150,033.2	0.0	69,547.1	2,016,667.0	4,350,966.0	0.0	2,016,667.0	30,868,322.0	66,831,074.0
Mar-1996	68,591.7	148,098.6	0.0	68,591.7	2,126,343.0	4,591,057.0	0.0	2,126,343.0	32,994,665.0	71,422,134.0

Month	Oil Rate [bbls/d]	Gas Rate [Mcf/d]	Water Rate [bbls/d]	Liquid Rate [bbls/d]
Apr-1994	963.2	1,875.1	5.9	969.1
May-1994	3,293.5	6,968.1	0.0	3,293.5
Jun-1994	12,087.1	36,274.2	12.1	12,099.2
Jul-1994	24,103.3	72,973.0	23.5	24,126.8
Aug-1994	41,794.1	97,725.2	3.6	41,797.7
Sep-1994	45,399.1	99,914.4	1.1	45,400.2
Oct-1994	41,467.7	87,605.5	0.1	41,467.9



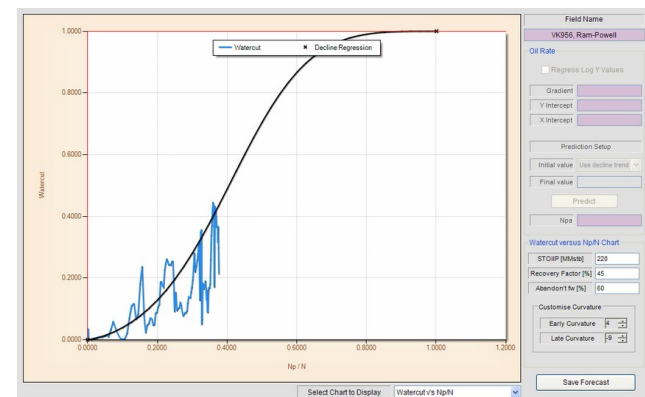
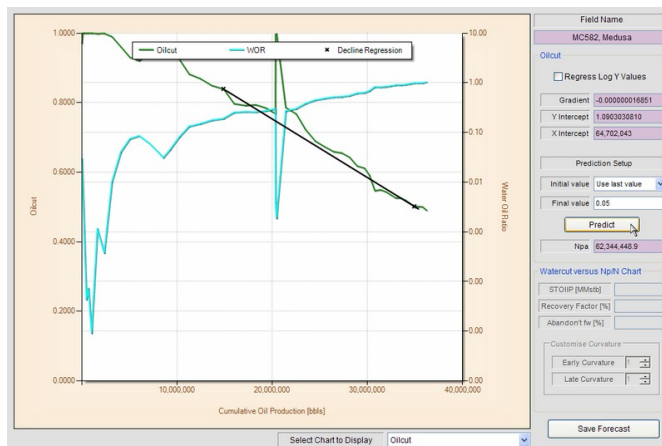
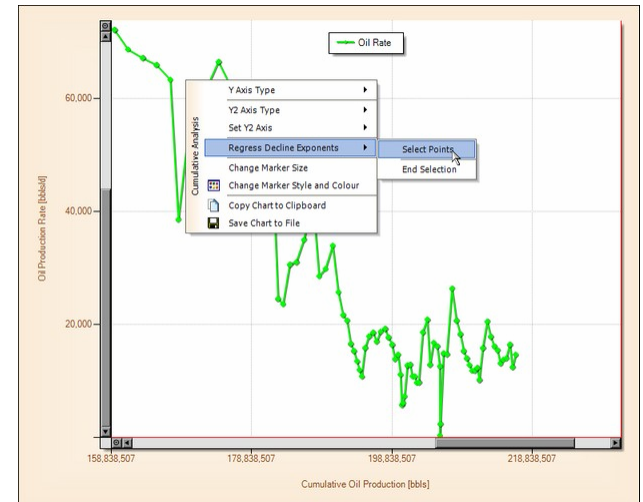
# Time Analysis

- Display numerous charts of production rates and ratios versus time.
- Decline curve analysis :
  - Oil and Gas production rate
    - Exponential, harmonic and hyperbolic decline curve fitting



# Cumulative Analysis

- Display numerous charts of production and injection rates and ratios versus cumulative production.
- Decline curve analysis :
  - Oil rate, Gas rate v's cumulative
  - Oilcut, Watercut and Water-Oil ratio v's cumulative
  - Watercut v's normalised cumulative ( $N_p/N$ )



# Predictions

- Rate v's Time Predictions
- Rate v's Cumulative Prediction
  - Converted to Time Prediction
- Oilcut, watercut and water-oil ratio prediction methods
  - Converted to Time Prediction

Rate v's Time Prediction Setup

	Oil	Gas
Decline	Hyperbolic	Exponential
'a' value	0.0005529645770	
'n' value	0.66701257002651	
Initial Rate	Use last rate	Use decline trend
Final Rate	1000	

Cumulative Prediction Setup

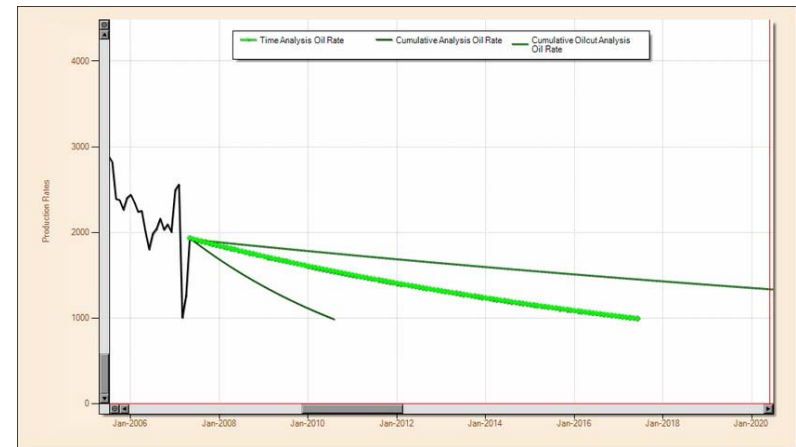
	Oil	Gas	Oilcut	Watercut	Water Oil Ratio
Log Y Fit?	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No
Gradient	-0.0005529645770		-1.1797788205412		
Y Intercept	63391.7648606694		1.3442340890804		
Initial value	Use last value		Use last value		
Final value	1000	0	0.05	0	0

Convert to Time Options

Input Liquid Rate

Link to Oil Rate v's Time Prediction  
Link to Oil Rate v's Cumulative Prediction  
Input Constant Liquid Rate Value

Month	Oilrate Time Oil Rate [bbls/d]	Prediction Charts Oilrate Time Cumulative Oil [bbls]	Month	Oilrate Cumulative Oil Rate [bbls/d]	Oilrate Cumulative Oil [bbls]	Month	Oilcut Cumulative Oil Rate [bbls/d]	Oilcut Cumulative Oil [bbls]	Oilcut Cumulative Water Rate [bbls/d]	O
May-2007	1935.4	111,193,797.0	May-2007	1935.4	111,193,797.0	May-2007	1,935.4	111,193,797.0	4,206.5	
Jun-2007	1,923.8	111,255,358.4	Jun-2007	1,901.8	111,254,694.0	Jun-2007	1,923.8	111,255,358.4	4,295.2	
Jul-2007	1,912.6	111,314,649.6	Jul-2007	1,869.7	111,312,615.8	Jul-2007	1,912.6	111,314,649.6	4,284.2	
Aug-2007	1,901.2	111,375,486.6	Aug-2007	1,837.2	111,371,456.9	Aug-2007	1,901.2	111,375,486.6	4,272.9	
Sep-2007	1,889.8	111,435,959.7	Sep-2007	1,805.3	111,429,175.9	Sep-2007	1,889.8	111,435,959.7	4,261.6	
Oct-2007	1,878.9	111,494,204.3	Oct-2007	1,774.9	111,484,196.4	Oct-2007	1,878.9	111,494,204.3	4,250.7	
Nov-2007	1,867.7	111,553,969.4	Nov-2007	1,744.0	111,540,004.2	Nov-2007	1,867.7	111,553,969.4	4,239.4	
Dec-2007	1,856.9	111,611,533.3	Dec-2007	1,714.6	111,593,156.9	Dec-2007	1,856.9	111,611,533.3	4,228.2	
Jan-2008	1,845.9	111,670,601.0	Jan-2008	1,684.8	111,647,070.2	Jan-2008	1,845.9	111,670,601.0	4,217.2	
Feb-2008	1,834.9	111,729,318.3	Feb-2008	1,655.5	111,700,046.2	Feb-2008	1,834.9	111,729,318.3	4,205.9	
Mar-2008	1,824.7	111,784,060.7	Mar-2008	1,628.5	111,748,950.7	Mar-2008	1,824.7	111,784,060.7	4,195.4	
Apr-2008	1,814.9	111,842,107.4	Apr-2008	1,603.2	111,800,106.0	Apr-2008	1,814.9	111,842,107.4	4,184.2	
May-2008	1,803.6	111,898,018.8	May-2008	1,580.6	111,850,000.0	May-2008	1,803.6	111,898,018.8	4,173.3	
Jun-2008	1,793.0	111,955,393.6	Jun-2008	1,559.2	111,900,000.0	Jun-2008	1,793.0	111,955,393.6	4,162.0	
Jul-2008	1,782.8	112,010,658.9	Jul-2008	1,538.6	111,950,000.0	Jul-2008	1,782.8	112,010,658.9	4,151.2	
Aug-2008	1,772.3	112,067,211.9	Aug-2008	1,518.8	112,000,000.0	Aug-2008	1,772.3	112,067,211.9	4,140.0	
Sep-2008	1,761.9	112,123,752.1	Sep-2008	1,499.4	112,050,000.0	Sep-2008	1,761.9	112,123,752.1	4,128.8	
Oct-2008	1,751.9	112,178,060.9	Oct-2008	1,480.7	112,000,000.0	Oct-2008	1,751.9	112,178,060.9	4,117.9	
Nov-2008	1,741.7	112,233,793.7	Nov-2008	1,462.6	112,050,000.0	Nov-2008	1,741.7	112,233,793.7	4,106.7	
Dec-2008	1,731.8	112,287,479.8	Dec-2008	1,445.1	112,100,000.0	Dec-2008	1,731.8	112,287,479.8	4,095.9	
Jan-2009	1,721.7	112,342,574.6	Jan-2009	1,428.1	112,150,000.0	Jan-2009	1,721.7	112,342,574.6	4,084.7	
Feb-2009	1,711.7	112,397,348.7	Feb-2009	1,411.6	112,200,000.0	Feb-2009	1,711.7	112,397,348.7	4,073.6	
Mar-2009	1,702.7	112,449,270.9	Mar-2009	1,395.4	112,250,000.0	Mar-2009	1,702.7	112,449,270.9	4,062.5	
Apr-2009	1,692.8	112,500,897.2	Apr-2009	1,379.5	112,300,000.0	Apr-2009	1,692.8	112,500,897.2	4,052.4	
May-2009	1,683.3	112,553,080.3	May-2009	1,364.2	112,350,000.0	May-2009	1,683.3	112,553,080.3	4,041.6	
Jun-2009	1,673.6	112,606,243.9	Jun-2009	1,349.2	112,400,000.0	Jun-2009	1,673.6	112,606,243.9	4,030.5	
Jul-2009	1,664.2	112,658,225.8	Jul-2009	1,334.4	112,450,000.0	Jul-2009	1,664.2	112,658,225.8	4,019.7	
Aug-2009	1,654.6	112,711,173.5	Aug-2009	1,319.8	112,500,000.0	Aug-2009	1,654.6	112,711,173.5	4,008.6	
Sep-2009	1,645.1	112,763,818.2	Sep-2009	1,305.4	112,550,000.0	Sep-2009	1,645.1	112,763,818.2	3,997.5	
Oct-2009	1,635.9	112,814,209.0	Oct-2009	1,291.1	112,600,000.0	Oct-2009	1,635.9	112,814,209.0	3,986.8	
Nov-2009	1,626.5	112,866,578.5	Nov-2009	1,277.0	112,650,000.0	Nov-2009	1,626.5	112,866,578.5	3,975.7	



# More information ...

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