# Supplementary: Treading Towards Privacy-Preserving Table Structure Recognition

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Wtd. Avg. Aggregate Remaining Intrinsic Value

#### 1. Dataset Preprocessing

Our model for cell detection is trained on the FinTab-Net dataset, which initially provides bounding boxes around cell content. To transform this dataset into one with celllevel coordinates, we implement a preprocessing step. This involves determining the minimum and maximum x and y coordinates for each row and column based on the content boxes. Subsequently, we refine the coordinates by splitting the y-coordinate difference between adjacent rows by half. This extends the maximum y end coordinate of the preceding row while reducing the minimum y-coordinate of the current row. Similarly, we split the x-coordinate difference between adjacent columns by half, extending the maximum x end coordinate of the previous column and reducing the minimum x-coordinate of the current column. This processing ensures that our dataset adheres to all constraints relevant to our modeling approach. Figure 1 visualizes the steps.

## 2. Postprocessing Cell Detection Output

Following the identification of table cell bounding boxes and the prediction of row/column adjacency matrices, the subsequent task is to establish row and column spans for each cell, facilitating the reconstruction of the table's structure. Our post-processing algorithm, an extension of previously proposed methodologies [1, 2], integrates word/token bounding boxes extracted through OCR tools to refine cell boxes and enhance structural recognition. The algorithm entails several steps, including the removal of table cells with heights below 60 percent of the average height of predicted cells, the identification and exclusion of incorrectly predicted cells based on various loss weight values and overlap considerations, and the definition of functions for calculating overlap and containment between cell pairs. Additionally, the algorithm involves sorting all table cells based on their x-end coordinates and iterating through them to assign column indices, considering overlapping cells and applying threshold criteria. Ultimately, the resulting columns list for each cell aids in determining the start and

	Options (in thousands)	Price	Term (in years)	(dollars in millions)
Outstanding at April 25, 2014	35,577	\$ 44.78		
Granted	40,952	57.96		
Exercised	(13,503)	45.32		
Expired/Forfeited	(1,005)	50.43		
Outstanding at April 24, 2015	62,021	53.27	7.03	\$ 1,351
Vested and expected to vest at April 24, 2015	55,649	51.27	6.75	1,314
Exercisable at April 24, 2015	28,272	39.91	4.53	981
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(b) Origina			Wind Arrow	
	Options (in thousands)	Wtd. Avg. Exercise Price	Remaining Contractual Term (in years)	Aggregate Intrinsic Value (dollars in millions)
Outstanding at April 25, 2014	35,577	\$ 44.78		
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Vested and expected to vest at April 24, 2015	55,649	51.27	6.75	1 214
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(d) Final Preprocessed Annotations

Figure 1. Visualization of the Annotation Preprocessing steps to ensure alignment and continuity

end column indices, contributing to the comprehensive reconstruction of the table's layout.

Similarly, two functions are defined to calculate overlap and containment for cell pairs along the vertical direction, using ratios of intersecting line segment lengths. The subsequent steps involve sorting all table cells based on their yend coordinates and addressing the challenge of multi-row spanning cells by initializing empty lists for each cell and setting the current row index to zero. The iterative process involves identifying overlapping cells for each cell, updating the rows list based on specific criteria, and incrementing the row index accordingly. The resultant rows list facilitates the determination of start and end row indices for every cell.

Moving on to the smoothing and fine-tuning phase, row and column indices, along with bounding boxes, are utilized to align start and end coordinates. For columns, the process involves extracting minimum start-x coordinates and maximum end-x coordinates, dividing the gap equally among adjacent cells to ensure adherence to continuity, alignment, and non-overlapping constraints. The algorithm further leverages an OCR tool, such as Tesseract [3], for pre-processing the table image and obtaining word/tokenlevel bounding boxes. The final step involves refining the predicted cell bounding boxes using token bounding boxes, computing overlapping areas, assigning them to the highest overlapping cell, and adjusting cell boundaries along both x and y directions to fully encapsulate the content. This meticulous approach notably enhances detection performance, particularly at higher Intersection over Union (IoU) threshold values.

## 3. Optimization Behavior

Figures 2, 3, 4, 5 and 6 compare optimization behaviors of using Table Grid Approximator (TGA) vs Region Proposal Network (RPN) on classification, bounding-box regression, alignment, row-continuity and column-continuity losses respectively. Consistently across all five loss types, it is evident that using TGA allows for optimization to a lower loss value in a lesser time as compared to using RPN.

## 4. Distribution of Anchor Boxes

As opposed to a fix number of anchors set as 20,000, using TGA allows dynamically generated anchors which depend on the appromated grid size of the image. Figure 7 shows the probability distribution of text contours, grid cells and anchors respectively on linear as well as log scale. The graphs show that TGA allows for significantly reduced number of anchors on average as opposed to a fixed number of 20,000.

## 5. Annotation Errors in FinTabNet Train

Figures 8 through 12 demonstrate some erroneously annotated images in the FinTabNet-Train dataset.

## 6. Qualitative Examples

Figures 13 through 24 demonstrate near-perfect structure prediction on dense tables as well as those containing empty cells.

#### 6.1. Success Cases

#### 6.2. Failure Cases

Figures 25 through 28 demonstrate a few failure cases, which despite being predicted incorrectly are not very far from the ground truth.

#### 6.3. Errors in Annotations in FinTabNet-Test

Figures 29 through 31 demonstrate some examples on FinTabNet-Test dataset, which despite having incorrect annotations, were predicted accurately by our solution. This further demonstrates the robustness of TabGuard.

#### References

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- [3] Ray Smith. An overview of the Tesseract OCR engine. In ICDAR, 2007. 2
- [4] Xinyi Zheng, Douglas Burdick, Lucian Popa, Xu Zhong, and Nancy Xin Ru Wang. Global Table Extractor (GTE): A framework for joint table identification and cell structure recognition using visual context. In *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, pages 697–706, 2021. 5, 6, 7, 8, 9, 10, 11, 12, 13, 14



Figure 2. Optimization behavior for the classification loss. Orange curve represents loss using Table Grid Approximator (TGA) instead of Region Proposal Network (RPN), while the red curve represents loss using RPN instead of TGA.



Figure 3. Optimization behavior for the bounding box regression loss. Orange curve represents loss using Table Grid Approximator (TGA) instead of Region Proposal Network (RPN), while the red curve represents loss using RPN instead of TGA.



Figure 4. Optimization behavior for the alignment loss. Orange curve represents loss using Table Grid Approximator (TGA) instead of Region Proposal Network (RPN), while the red curve represents loss using RPN instead of TGA.



Figure 5. Optimization behavior for the row continuity loss. Orange curve represents loss using Table Grid Approximator (TGA) instead of Region Proposal Network (RPN), while the red curve represents loss using RPN instead of TGA.



Figure 6. Optimization behavior for the column continuity loss. Orange curve represents loss using Table Grid Approximator (TGA) instead of Region Proposal Network (RPN), while the red curve represents loss using RPN instead of TGA.



Figure 7. Distributions of text contours, table grid cells and generated anchors. X-axes denote the counts of contours, cells, and anchors respectively, while Y-axis denotes probability of occurrence. Row 1 is on linear scale while Row 2 is on the log scale. It is clear that text contours, grid cells and anchor boxes all follow log-linear distributions.



Figure 8. An example of file from Fintabnet-train [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original image, second image shows the original annotation, third image shows the intermediate step of annotation preprocessing, and fourth image shows the preprocessed annotation.

(Amounts in thousands)	Balance	Coupon rate <sup>1</sup>	Maturity	(Amounts in thousands)	Balance	Coupon rate <sup>1</sup>	Maturity
Amegy Statutory Trust I Amegy Statutory Trust II. Amegy Statutory Trust III Stockmen's Statutory Trust II. Stockmen's Statutory Trust III.	\$ 51,547 36,083 61,856 7,732 7,732 2,002	3mL+2.85% (3.09%) 3mL+1.90% (2.13%) 3mL+1.78% (2.02%) 3mL+3.15% (3.40%) 3mL+2.89% (3.13%)	Dec 2033 Oct 2034 Dec 2034 Mar 2033 Mar 2034	Amegy Statutory Trust I Amegy Statutory Trust II Amegy Statutory Trust III Stockmen's Statutory Trust II Stockmen's Statutory Trust III	\$ 51,547 36,083 61,856 7,732 7,732	3mL+2.85% (3.09%) 3mL+1.90% (2.13%) 3mL+1.78% (2.02%) 3mL+3.15% (3.40%) 3mL+2.89% (3.13%) 2mL+2.85% (3.09%)	Dec 2033 Oct 2034 Dec 2034 Mar 2033 Mar 2034
Total	\$ 168,043	5IIIL+2.85% (5.09%)	Mar 2054	Total	\$ 168,043	5IIIL+2.85% (5.09%)	Mar 2054
(Amounts in thousands)	Balance	Coupon rate <sup>1</sup>	Maturity	(Amounts in thousands)	Balance	Coupon rate <sup>1</sup>	Maturity

Figure 9. An example of file from Fintabnet-train [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original image, second image shows the original annotation, third image shows the intermediate step of annotation preprocessing, and fourth image shows the preprocessed annotation.

(1) Financial St	atements	Page No.	(1) Financial St	Statements	Page No.
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(c)	Consolidated Statements of Comprehensive Income for the years ended December 31, 2014, 2013 and 2012	79	0	Consolidated Statements of Comprehensive Income for the years ended December 31, 2014, 2013 and 2012	79
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Figure 10. An example of file from Fintabnet-train [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original image, second image shows the original annotation, third image shows the intermediate step of annotation preprocessing, and fourth image shows the preprocessed annotation.

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Figure 11. An example of file from Fintabnet-train [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original image, second image shows the original annotation, third image shows the intermediate step of annotation preprocessing, and fourth image shows the preprocessed annotation.

Notes Issued (in millions)	Maturity Date	Interest Rate	Interest Payment Dates	Notes Issued (in millions)	Maturity Date	Interest Rate	Interest Payment Dates
\$ 750	May 18, 2016	Variable; three-month U.S. dollar	February 18, May 18, August 18, and	\$ 750	May 18, 2016	Variable; three-month U.S. dollar	February 18, May 18, August 18, and
		LIBOR, reset quarterly, plus 45 basis	November 18; commencing on			LIBOR, reset quarterly, plus 45 basis	November 18; commencing on
		points	February 18, 2015			points	February 18, 2015
750	November 17, 2017	Fixed 1.750%	May 17 and November 17;	750	November 17, 2017	Fixed 1.750%	May 17 and November 17;
			commencing on May 17, 2015				commencing on May 17, 2015
1,250	November 18, 2019	Fixed 2.700%	May 18 and November 18;	1,250	November 18, 2019	Fixed 2.700%	May 18 and November 18;
			commencing on May 18, 2015				commencing on May 18, 2015
1,250	November 18, 2021	Fixed 3.300%	May 18 and November 18;	1,250	November 18, 2021	Fixed 3.300%	May 18 and November 18;
			commencing on May 18, 2015				commencing on May 18, 2015
2,000	November 18, 2024	Fixed 3.800%	May 18 and November 18;	2,000	November 18, 2024	Fixed 3.800%	May 18 and November 18;
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500	November 18, 2034	Fixed 4.500%	May 18 and November 18;	500	November 18, 2034	Fixed 4.500%	May 18 and November 18;
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1,500	November 18, 2044	Fixed 4.800%	commanding on May 18, 2015	1,500	November 18, 2044	r1xeu 4.800%	may 18 and November 18;
			commencing on way 18, 2015				commencing on May 18, 2015
\$8,000				\$8,000			
Notes Issued				Notes Issued			
Notes Issued (in millions)	Maturity Date	Interest Rate	Interest Payment Dates	Notes Issued (in millions)	Maturity Date	Interest Rate	Interest Payment Dates
Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar	Interest Payment Dates February 18, May 18, August 18, and	Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar	Interest Payment Dates February 18, May 18, August 18, and
Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on	Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on
Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015	Notes Issued (in millions) \$ 750	Maturity Date May 18, 2016	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015
Notes Issued (in millions) \$ 750 750	Maturity Date May 18, 2016 November 17, 2017	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17;	Notes Issued (in millions) \$ 750 750	Maturity Date May 18, 2016 November 17, 2017	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17;
Notes Issued (in millions) S 750	Maturity Date May 18, 2016 November 17, 2017	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750%	Interest Payment Dates February 18, May 18, August 18, and November 18: commencing on February 18, 2015 May 17 and November 17: commencing on May 17, 2015	Notes Issued (in millions) \$ 750 750	Maturity Date May 18, 2016 November 17, 2017	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015
Notes Issued (in millions)           \$ 750           750	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; May 18 and November 18;	Notes Issued (in millions)           \$ 750           750           1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; May 18 and November 18;
Notes Issued (in millions) \$ 750 (1,250)	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and May 18, 2015	Notes Issued (in millions) \$ 750 1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700%	Interest Payment Dates February 18, May 18, August 18, and November 18: commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and Movember 18;
Notes Issued in millions) \$ 750 1,250 1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300%	Interest Payment Dates February 18, May 18, August 18, and November 18: commencing on February 18, 2015 May 17 and November 17: commencing on May 17, 2015 May 18 and November 18: commencing on May 18, 2015 May 18 and November 18: commencing on May 18, 2015	Notes Issued (in millions)           \$ 750           750           1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015
Notes Issued in millions)           \$ 750           750           1,250           1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;	Notes Issued (in millions)           \$ 750           750           1,250           1,250	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;
Notes Issued in millions)           \$ 750           750           1,250           1,250           2,000	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015	Notes Issued (in millions)           \$ 750           750           1,250           1,250           2,000	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800%	Interest Payment Dates February 18, May 18, August 18, and November 18: commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015
Notes Issued in millions)           \$ 750           750           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2024	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;	Notes Issued (in millions)           \$ 750           750           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2024	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;
Notes Issued In millions)           \$ 750           750           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015	Notes Issued (in millions)           \$ 750           750           1,250           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015
Notes Issued In millions)           \$ 750           750           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034 November 18, 2034	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;	Notes Issued (in millions)           \$ 750           750           1,250           1,250           2,000           500           1,500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034 November 18, 2034	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18: commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015 May 18 and November 18;
Notes Issued In millions)           \$ 750           750           1,250           2,000           500           1,500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015	Notes Issued (in millions)           \$ 750           750           1,250           2,000           500	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034	Interest Rate Variable: three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.500% Fixed 4.500%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015
Notes Issued In millions)           \$ 750           759           1,250           1,250           2,000           500           1,500           \$ 58,000	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2024 November 18, 2024 November 18, 2034	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.300% Fixed 4.800% Fixed 4.800%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015	Notes Issued (in millions)           \$ 750           750           1,250           2,000           500           1,500           \$ \$8,000	Maturity Date May 18, 2016 November 17, 2017 November 18, 2019 November 18, 2021 November 18, 2024 November 18, 2034	Interest Rate Variable; three-month U.S. dollar LIBOR, reset quarterly, plus 45 basis points Fixed 1.750% Fixed 2.700% Fixed 3.300% Fixed 3.800% Fixed 4.800% Fixed 4.800%	Interest Payment Dates February 18, May 18, August 18, and November 18; commencing on February 18, 2015 May 17 and November 17; commencing on May 17, 2015 May 18 and November 18; commencing on May 18, 2015

Figure 12. An example of file from Fintabnet-train [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original image, second image shows the original annotation, third image shows the intermediate step of annotation preprocessing, and fourth image shows the preprocessed annotation.

and the second	Year	Ended Decembe	r 31	a search and the second second	_				Year En	(ed December )	1		Year F	inded December	e31
Millions of dollars and shares except per share data	2008	2007	2006			-		Millions of dollars and shares except per share data	2008	2007	2006	Millions of dollars and shares except per share data	2008	2007	2006
Revenuet								Revenue:				Revenue:			
Services	\$ 13,391	\$ 11,256	\$ 9,643					Services	\$ 13,391	\$ 11,256	\$ 9,643	Services	\$ 13,391	\$ 11,256	\$ 9,643
Product sales	4,888	4,008	3,312				1,111	Product sales	4,888	4,008	3,312	Product sales	4,888	4,008	3,312
Total revenue	18,279	15,264	12,955				10,000	Total revenue	18,279	15,264	12,955	Total revenue	18,279	15,264	12,955
Operating costs and expenses:								Operating costs and expenses:				Operating costs and expenses:			
Cost of services	10,079	8,167	6,751					Cost of services	10,079	8,167	6,751	Cast of services	10,079	8,167	6,751
Cost of sales	3,970	3,358	2,675					Cost of sales	3,970	3,358	2,675	Cost of sales	3,970	3,358	2,675
General and administrative	282	293	342		-	-		General and administrative	282	293	342	General and administrative	282	293	342
Gain on sale of business assets, net	(62)	(52)	(58)		_			Gain on sale of business assets, net	(67)	(52)	(58)	Gain on sale of business assets, net	(62)	(52)	(58)
Total operating costs and expenses	14,399	11,766	9,710				1.00	Total operating costs and expenses	14,269	11,766	9,710	Total operating costs and expenses	14,269	11,766	9,750
Operating income	4,010	3,498	3,245					Operating income	4,030	3,498	3,245	Operating income	4,010	3,498	3,245
Interest expense	(160)	(154)	(165)					Interest expense	(160)	(154)	(165)	Interest expense	(160)	(154)	(165)
Interest income	39	124	129					Interest income	39	124	129	Interest income	39	124	129
Other, net	(726)	(8)	(10)		_			Other, net	(726)	(8)	(10)	Other, net	(726)	(8)	(10)
Income from continuing operations before income			1.000					Income from continuing operations before income				Income from continuing operations before income			
taxes and minority interest	3,163	3,460	3,199					taxes and minority interest	3,163	3,460	3,199	taxes and minority interest	3,163	3,460	3,199
Provision for income taxes	(1,211)	(907)	(1,003)					Provision for income taxes	(1,211)	(907)	(1,003)	Provision for income taxes	(1,211)	(907)	(1,003)
Minority interest in net income of subsidiaries	9	(29)	(19)			-		Minority interest in net income of subsidiarips	9	(29)	(19)	Minority interest in net income of subsidiaries	9	(29)	(19)
Income from continuing operations	1,961	2,524	2,177					Income from continuing operations	1,961	2,524	2,177	Income from continuing operations	1,961	2,534	2,177
Income (loss) from discontinued operations, net of			1.000				100000	Income (loss) from discontinued operations, net of				facome (loss) from discontinued operations; net of			
income tax (provision) benefit of \$3, \$(15), and								income tax (provision) benefit of \$3, \$(15), and				income tax (provision) benefit of \$3, \$(15), and			
\$(183)	(423)	975	171			_		\$(183)	(423)	975	171	\$(183)	(423)	975	171
Net income	\$ 1,538	\$ 3,499	\$ 2,348		1 1.00			Net income	\$ 1,538	\$ 3,499	\$ 2,348	Net income	\$ 1,538	\$ 3,499	\$ 2,348
	-	-									-				
Basic income (loss) per share:								Basic income (loss) per share:				Basic income (loss) per share:			
Income from continuing operations	\$ 2.24	\$ 2.76	\$ 2.15				1 10	Income from continuing operations	\$ 2.24	\$ 2.76	\$ 2.15	Income from continuing operations	\$ 2.24	\$ 2.76	\$ 2.15
Income (loss) from discontinued operations, net	(0.49)	1.07	0.16				111	Income (loss) from discontinued operations, net	(0.49)	1.07	0.16	Income (loss) from discontinued operations, net	(0.45)	1.07	0.16
Net income per share	\$ 1.75	\$ 3.83	\$ 2.31		1.18	1.18	1.141	Net income per share	\$ 1.75	\$ 3.83	\$ 2.31	Net income per share	\$ 1.75	\$ 3.83	\$ 2.31
		1								_	_				
Diluted income (loss) per share:	1. C.							Diluted income (loss) per share:				Diluted income (loss) per share:			
Income from continuing operations	\$ 2.17	5 2.66	\$ 2.07		1 10	1.18	1.10	Income from continuing operations	\$ 2.17	5 2.66	\$ 2.07	Income from continuing operations	\$ 2.17	\$ 2.66	5 2.07
Income (loss) from discontinued operations, net	(0,47)	1.02	0.16				111	Income (loss) from discontinued operations, net	(0.47)	1.02	0.16	Income (loss) from discontinued operations, net	(0.47)	1.02	0.16
Net income per share	\$ 1.70	\$ 3.68	\$ 2.23		1.18	1.18	1.18	Net income per share	\$ 1.70	5 3.68	5 2.23	Net income per share	\$ 1.70	\$ 3.68	\$ 2.23
Basic weighted average common shares outstanding	877	913	1,014		-		1400	Basic weighted average common shares outstanding	877	913	1,014	Basic weighted average common shares outstanding	877	913	1,014
Diluted weighted average common shares outstanding	904	950	1,054		-			Diluted weighted average common shares extending	904	950	1,054	Diluted weighted average common shares outstanding	904	950	1,054
			-												

Figure 13. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

										_	_	_		_		_		_		
		Trar I	Lasted December	r 31,				-		_	Year I	<b>Joded December</b>	м.				Nuar I	soled December	DL.	
	2068	3967	2008	3000	3864		_			2008	2007	3006	2000	2004		2008	3067	388	3005	3864
		(In thousands,	encept per share	re associatio)							fa threads,	snampt per shar	amount.)			-	its thousands	encept per share	anterests)	
Income statement data									Income statement data	-					Income statement data			_	_	-
Total revenue	\$2,025,267	\$1,962,199	\$1,650,549	51,232,480	\$956,636				Total revenue	\$2,025,267	11962.159	51,650,549	\$1,232,480	\$956,636	Total revenue	\$2,025,267	51,962,199	\$1,650,549	\$1,232,480	\$956,636
Cost of operations trachusive of amortization and									Cost of operations (exclusive of amortization and						Cost of operations trachasive of amortization and					
depreciation disclosed separately below PTr	1.342.039	1,304,631	1,095,929	\$13,283	641,067				depreciation disclosed separately below (***	1,342,039	I, NHANI	1,085,929	\$11,283	641,063	depreciation disclosed separately below?11	1,342,039	1,304,631	1,095,929	\$13,283	641,067
General and administrative <sup>11</sup>	87,804	80,898	91,815	88,797	75,819				General and administrative <sup>11</sup>	82,804	80,898	91,815	88,797	15,819	General and administrative <sup>(1)</sup>	82,804	80,898	91,815	88,797	75,879
Depreciation and other amortization	68,527	99,688	48,499	40,543	37,369				Depreciation and other amortization	68,527	29,088	45,499	40,545	37,369	Depreciation and other amortization	68,527	59,685	48,499	40,545	37,369
Amortization of purchased intangibles	67,291	67,323	40,926	23,004	13,415			-	Amortization of purchased intangibles	67,291	67,323	40,935	23,004	13,415	Amortization of purchased intangibles	67,291	67,323	40,926	23,004	13,415
Loss on sale of assets	1,052	16,045							Loss on sale of assets	1,052	16,045				Loss on sale of assets	1,052	16,045			-
Morger costs	3,053	12,549		-					Merger cesits	3,053	12,349				Merger costs	3,853	12,349	-	-	-
Total operating expenses	1,564,766	1,540,934	1.277.169	985,629	767,670				Total operating expenses	1,564,766	1,540,934	1,277,169	985,629	767,679	Total operating expenses	1,564,766	1,540,934	1.277,169	985.629	767,670
Operating income	-460,501	421,225	373,360	246,851	155,966				Operating income	460,501	421.225	373,380	246.851	155.966	Operating income	460,501	421.225	373,380	246,851	188,966
Fair value loss on interest rate derivative					808				Fair value loss on interest rate derivative	-				805	Fair value loss on interest rate derivative			-	-	818
Interest expense, net	63,648	49,381	40,722	13,909	6,651				Interest expense, net	63,648	63,381	40,722	13,905	6,651	Interest expense, net	63,648	69,381	40,722	13,909	0,001
Income from continuing operations before									Income from continuing operations before						Income from continuing operations before					
income tanas	396,853	351,844	332,658	232,946	181,507		_		income taxes	396,853	351,844	332,655	232,946	181,507	income tation	396.853	151.844	332.658	212-946	181,507
Provision for income taxes	153,454	137,403	126,361	85,318	67,560				Provision for income taxes	153,454	137,403	126,261	86,318	67,500	Provision for income taxes	153,454	137,403	126,361	85,318	67,560
Income from continuing operations	243,399	214,441	206,397	146.628	113,947				Income from continuing operations	243,399	214,441	206,397	146,628	113,947	Income from continuing operations	243,399	214,441	206,397	146,628	113,947
Low from discontinued operations, net of									Loss from discontinued operations, net of						Low from the online of operations, not of					+
125.0%	(26,006)	(50,380)	(16,792)	(7,883)	(11,576)	 _			lands	(26,006)	(50,380)	(16,792)	(7,883)	(11.576)	123.0%	(26.006)	(50,180)	(16,792)	(7,883)	(111,576)
Net income	\$ 217,393	\$ 164,061	\$ 189,605	\$ 138,745	\$102,371	 			Net income	\$ 217,393	5 164,061	5 199,605	\$ 138,345	\$102,371	Net income	\$ 217,393	5 164,062	\$ 189,605	\$ 138,745	\$102,371
Income from continuing operations per share-									Income from continuing operations per sharp						Income from continuing operations per share-					
basic	5 3.40	\$ 2.74	\$ 2.59	5 1.78	5 1.41	 			husic	5 3.40 3	5 2.74	5 2.59	5 1.78	5 1.41	hasic	\$ 3,40	5 2.74	\$ 2.59	\$ 1.78	5 1.41
become from continuing operations per share									Income from continuing operations per share-						Income from continuing operations per share-					
diluted	\$ 3.31	\$ 2.65	\$ 2.53	\$ 1.73	\$ 1.36				diluted	\$ 3.31 2	\$ 2.65	\$ 2.53	\$ 1.73	\$ 1.36	diluted	\$ 3.31	\$ 2.65	\$ 2.51	8 1.73	5 1.35
Net income per sharebasic	\$ 3.04	\$ 2.09	\$ 2.38	\$ 1.69	\$ 1.27				Net income per share-basic	\$ 3.04 2	5 2.09	5 2.38	\$ 1.69	\$ 1.27	Net income per share-basic	\$ 3.04	\$ 2.09	\$ 2.38	\$ 1.69	\$ 1.27
Net income per share-dilated .	5 2.95	\$ 2.63	\$ 2.32	5 1.64	5 1.22				Net income per share-diluted	5 2.95 2	5 2.03	5 2.32	\$ 1.64	5 1.22	Net income per share-diluted	\$ 2.95	5 2.63	\$ 2.32	5 1.64	5 1.22
Weighted average shares used in computing per									Weighted average shares used in computing per						Weighted average shares used in computing per					
share amounts-basic	71,502	78,405	79,735	\$2,208	80,614				share amounts-basic	71,502	78,403	79,735	\$2,308	83,614	share amounts-basic	71,502	78,403	79,135	\$2,208	80,654
Weighted average shares used in computing per									Weighted average shares used in computing per						weighted average shares used in computing per-					1
share amounts-diluted	73,640	80,811	81,686	84,637	84,040	_			share answers-dilated	73,640	80,811	81,686	84,637	84,040	share amounts-diluted	73,640	80,811	81,686	84,637	84,040

Figure 14. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

	Dec	mber 31		-					Owner	ser 31		Dece	mber 31
Millions of dollars and shares except per share data	2008	2007		-			Millione of dollars and shares except per share data		2008	2007	Millions of dollars and shares ecosys per share data	2008	2007
Amon							Aanta				And		
Carrysil asseb:							Corrent assets				Carrent assets		
Cash and equivalents	8 1,124	\$ 1,847				- 1	Cash and equivalents	5	1,124	5 1,84	Cash and equivalents	\$ 1,124	\$ 1,847
Receivables (loss allowance for had dates of \$60 and \$40)	3,795	3,093					Receivables (hea allowance for had debts of \$60 and \$40)		3,795	3,09	Receivables (less allowance for had delts of \$61 and \$49)	3,795	3,093
Inventories	1,828	1,459	_			-	Investories		1,828	1,40	Investories	1,828	1,459
Current deferred income taxes	346	376		-		- 1	Current deferred income taxes		246	33	Cartoni deforted income taxes	246	378
Investments in markatable securities	-	366					Investments in marketable securities			38	Investments is marketable accurities	-	365
Other outrent assets	418	410				- L	Other current assets		418	-47	Other outrent assets	418	410
Total corrent each	7,411	1,575				-	Total correct assets		TATI	1,51	Tatal cervant assets	7,411	1,575
Property, plant, and equipment, not of accumulated depreciation of \$4,566 and \$4,726	4,782	3,630				- 1	Property, plant, and equipment, net of accumulated depreciation of \$4,566 and \$4,126		4,792	3,63	Property, plant, and equipment, not of accumulated depreciation of \$4,566 and \$4,126	4,782	3,630
Coodwill	1,872	790	-			- 1	Condwill		1,073	79	Conduill	1,672	790
Noncurrent deferred income taxes	157	348		-		- 1	Noncurrent deferred income taxes		157	54	Noncurrent deferred income taxes	197	348
Other aperts	963	294		-		<b>-</b> 1	Other assets		963	29	Other assets	963	794
Tutal assets	\$ 14,385	\$ 13,139		1.000			Y otal assets	5	4,383	5 13,02	Tutal andth	\$ 14,385	\$ 13,138
Linbilities and Shareholders' Equity							Liabilities and Shareholders' Equity				Elabilities and Shareholders' Equity		
Carroni Babilities							Cerrent Tabilities				Carvest labilities		
Accounts psysble	5 895	\$ 768				= 1	Accounts psyshle	5	895	\$ 76	Accounts payable	5 896	8 268
Account employee compensation and herefits	643	515		-		- 1	Accrued employee compensation and benefits		643	576	Accruit employee componiation and benefits	640	515
Department of Autice and Securities and Exchange Commission settlement						_	Department of Justice and Securities and Exchange Commission settlement				Department of Justice and Securities and Exchange Commission settlement		
and indonnity, curroni	373	-		-		• 1	and indemnity, current		375		and indemnify, rumon	20	-
Defamid revenue	231	209				-	Defend revone		251	20	Deferred revenue	201	309
Income tax payable	67	209				=	Income tax payable		67	20	Income tax payable	67	209
Carroni maturities of long-term debi	26	129				- 1	Current maturities of long-term debt		36	19	Carroni maturities ef long-ierm debi	26	139
Other current liabilities	543	491		-		-	Other current liabilities		540	49	Other ourset liabilities	50	491
Total corrent liabilities	2,781	2,411				-	Total correct liabilities		2,781	2,41	Tatal correst Rabilities	2,781	2,411
Long-torm dabe	2,586	2,627		1.100		- 1	Long-torm-debt		2,586	2,62	Long-torm dubt	2,596	2,627
Employee componenties and benefits	539	400		-		- 1	Employee compensation and benefits		3.39	40	Employee compensation and here fits	539	405
Other Tubilities	733	734				-	Other Indulties		735	13	Other Tabilities	733	734
Tetal Sublides	6,641	6,175		-		- 1	Total Babilities		6,641	6,17	Total liabilities	6,641	6,175
Minority interest in consolidated subsidiaries	19	54					Minority interest in cosmolidated subsidiaries		19	9	Minority interest in cossolidated subsidiaries	19	54
Skarekolders' equily:							Shareholders' opally:				Shareholders' equily:		
Common shares, par value \$2.50 per share - authorized 2,000 shares, issued 1,067							Common shares, par value \$2.50 per share - authorized 2,000 shares, issued 1,067				Common shares, par value \$2.50 per share - authorized 2,000 shares, issued 1,067		
and L0K3 shares	2,666	2,657				- 1	and 1,003 shares		2,666	2,65	and L063 shares	2,666	2,657
Paid is capital in excess of par value	1,114	1,741				- 1	Paid-is capital is excess of par value		1,314	1,76	Paid in capital in excess of par value	1,114	1,741
Accumulated other comprehensive loss	(219	(1)(4)					Accumulated other comprehensive loss		(215)	(19	Accumulated other comprehensive loss	(213)	(194)
Ratained earnings	9,411	8,302		8,000		- 1	Ritainat earlings		9,411	8,200	Ratained earnings	9,411	8,362
Treasury shock, at cost - 112 and 183 shares	0,200	(5,630)		-			Treasury stock, at cost - 172 and 183 shares			CLAN	Treasury stock, at cost - 172 and 183 shares	(1,291)	(3,630)
Yatal shareholders' equity	7,725	6,865		-			Total sharsholders' equity		1,115	6,95	Tatal shareholders' equity	1,725	6,866
Tutal Babilities and shareholders' equity	8 14,383	\$ 13,03		1.000	1.0		Total Sabilities and shareholders' equity	5	4,383	\$ 13,13	Total liabilities and shareholders' equity	8 14,303	8 13,03

Figure 15. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.



Figure 16. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

Normal Problem       Norma		_			1		_		_						_	
Home         Home <th< th=""><th></th><th>Teat</th><th>Ended December</th><th>or 20,</th><th></th><th></th><th>_</th><th></th><th></th><th>ar Ended Dorent</th><th>at 31.</th><th></th><th>Teat</th><th>Ended Decemb</th><th>er 31,</th></th<>		Teat	Ended December	or 20,			_			ar Ended Dorent	at 31.		Teat	Ended Decemb	er 31,	
Image: margine		2008	3967	386			-		2068	200	2006		200	2007	3866	
Description         UA34         VA054         VA054        VA054         VA054		che thomand	h, eucept per she	err amount-i					(In these	andri, eniregsi gior sil	(attended of a		the threase	-except per sh	T amount-	
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Kevenises			-				Revenues				Revenues				
Name         Note:	Tranaction	5 344,243	5 350,008	5 328,971			_	Transaction	. 5 344.24	3 5 350008	5 328.971	Transaction	5 344,243	5 550,008	5 328,971	
Notice and the set of point on the	Redemption	504,442	420,966	352,795				Redemption	. 506,64	2 420,966	382,798	Rodemption	. 504,442	420,966	352,795	
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Securitization income and finance charges, net	571,850	654,660	578,797				Securitization income and finance charges, net	. 337,9	0 654,860	\$18,733	Securitization income and finance charges, net	. 571,950	654,660	578,797	
One control         Table Sign         Table	Database marketing lees and direct marketing services	525,918	418,555	346,043				Database marketing fees and direct marketing services	. 925,91	478,055	546,693	Database marketing lees and direct marketing services	. 525,918	418,555	345,613	
bit         bit<         <	Other revenue	72,714	37,970	43,393				Other revenue	. 72,71	4 31,970	43,333	Other revenue	72,714	37,970	40,000	
Characterization         Control of the control o	Total revenue	2,825,267	1,962,159	1,650,549				Total revenue	. 2,025,28	7 10962 159	1,650,549	Total revenue	. 2,825,267	1,962,159	1,650,549	
Constrained provides and provides	Operating expenses							Operating expenses				operand educer				
Backet speech week         Description of the marking and speech week         Descrip	Cost of operations texclusive of depreciation and amortization			·				Cost of operations texclusive of depreciation and amortication				Cost of operations cenclusive of depreciation and amortization				
Operation         <	disclosed separately below)	1,342,099	1,304,631	1,005,929				disclosed separately below)	1,342.00	9 1,304,631	1,055,929	disclosed separately below)	1,342,039	1,304,431	1,005,929	
Description and the matrixes         43.57         79.68 <th< td=""><td>General and administrative</td><td>82,804</td><td>80,895</td><td>91,815</td><td></td><td></td><td></td><td>General and administrative</td><td>. 82,8</td><td>4 80,978</td><td>91,815</td><td>General and administrative</td><td>. 82,804</td><td>80,895</td><td>91,815</td></th<>	General and administrative	82,804	80,895	91,815				General and administrative	. 82,8	4 80,978	91,815	General and administrative	. 82,804	80,895	91,815	
Absolution digits of discontingingtion         0.201         0.201         0.001	Depreciation and other amortization	68.527	99,685	45,499				Depreciation and other amortization	. 68.5	7 599AB	48,499	Depreciation and other amortization	. 68,527	59,588	48,499	
$ \begin{array}{                                    $	Amortization of purchased intangiNes	67,291	67,323	40,935				Amortization of purchased intangibles	. 67,29	61023	40,925	Amortization of purchased intangibles	. 67,291	63,323	-40,935	
Network         1,00        1,00        1,00 </td <td>Loss on the sale of assets</td> <td>1,052</td> <td>16,045</td> <td></td> <td></td> <td></td> <td></td> <td>Loss on the sale of anets</td> <td>1,00</td> <td>2 16,045</td> <td></td> <td>Loss on the sale of assets</td> <td>. 1,052</td> <td>16,045</td> <td></td>	Loss on the sale of assets	1,052	16,045					Loss on the sale of anets	1,00	2 16,045		Loss on the sale of assets	. 1,052	16,045		
Index         Index <th< td=""><td>Merger costs</td><td>3,663</td><td>12,349</td><td></td><td></td><td></td><td></td><td>Merger costs</td><td>. 3.0</td><td>3 12,349</td><td>-</td><td>Merger cests</td><td>. 3,683</td><td>12,349</td><td></td></th<>	Merger costs	3,663	12,349					Merger costs	. 3.0	3 12,349	-	Merger cests	. 3,683	12,349		
Shared         600-30         CU-20         10-30         CU-20         10-30         CU-20         10-30         CU-20         10-30         CU-20         10-30         CU-20         10-30         CU-20         <	Total operating expenses	1,564,766	1,540,934	1,277,169			- 12	Total operating expenses	. 1,564,78	6 8,540,934	1,277,169	Total operating expenses	. 1,564,766	1,540,934	1,277,169	
Interference         Olive	Operating income	460,501	421,225	373,380				Operating income	460,50	6 421 225	313,380	Operating income	. 450,501	421,225	373,380	
Inter-open         N21         N23         N24         N24        N24         N24         N	Interest income	(15,601)	(20,440)	05,2581				Interest income	115,66	(10)440	+6.268	Interest income	. (15,601)	(10,440)	05,2680	
Inclusion contrast operation from torus (1)         PAUA1         PAUA1<	Interest expense	79,349	79,821	46,990				Interest expense	. 79,24	9 79(821	46,990	Interest expense	. 79,349	79,821	46,990	
New law         103,44         013,01         NExt         New law         New	Income from continuing operations before income taxes	396,853	351,844	332,658				Income from continuing operations before income taxes	. 396,85	3 351,844	332,658	Income from continuing operations before income taxes	. 296,853	351,844	332,658	
Name         120,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,011         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,010         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000         20,000         9 11,000	Provision for income taxes	153,454	137,403	126,261				Provision for income taxes	. 153,45	4 137,403	136,261	Provision for income taxes	. 153,454	137,403	126,261	
Line loss classified questions, or future         Cytotics         S Model	Income from continuing operations	\$ 243,399	\$ 214,441	206,397		I DESCRIPTION OF THE OWNER		Income from continuing operations	5 243,39	9 8 214 441	206,397	Income from continuing operations	. \$ 243,399	\$ 214,441	206,397	
State and fragment         21728         16408         9 10000         9 10000         9 10000	Loss from discontinued operations, net of taxes	(26,006)	(50,380)	(16,792)				Loss from discontinued operations, net of taxes	. (26.00	6) (50,380	(16,792)	Low from discontinued operations, net of taxes	. (26,006)	(30,380)	116,7927	
Initial control produe         Value	Net income	\$ 217,393	\$ 164.061	\$ 189,605				Net income	. 5 217.39	3 5 164 061	5 189,505	Net income	. \$ 217,393	\$ 164,061	\$ 189,605	
Image from sublid grant (s)         1/10 </td <td>Basic income floss) per share:</td> <td></td> <td></td> <td></td> <td></td> <td>And and A</td> <td>_</td> <td>Basic income (low) per share:</td> <td>_</td> <td></td> <td>-</td> <td>Basic income (loss) per share:</td> <td></td> <td>-</td> <td></td>	Basic income floss) per share:					And A	_	Basic income (low) per share:	_		-	Basic income (loss) per share:		-		
Los fondacións departariam         1 A/B         2	Income from continuing operations	\$ 3.40	\$ 2.74	\$ 2.99				Income from continuing operations	. 5 34	0 5 2.74	5 2.54	Income from continuing operations	. \$ 3.40	\$ 2.74	\$ 2.99	
Note starting of darm         1.01         2.01	Loss from discontinued operations	\$ 19,360	\$ (0.65)	\$ (0.21)				Loss from discontinued operations	. 5 (0.)	6) \$ 19.65	5 (0.21)	Loss from discontinued operations	. 8 (0.36)	\$ 00.651	\$ (0.2D)	
Datafic sport shows         5 (1)         2 (3)         5 (3)         2 (3)         5 (3)         2 (3)         5 (3)         2 (3)         5 (3)         2 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3)         3 (3)         5 (3) <td>Net income per share</td> <td>\$ 3.04</td> <td>\$ 2.09</td> <td>\$ 2.38</td> <td></td> <td></td> <td></td> <td>Net income per share</td> <td>. 5 3.1</td> <td>4 5 2.09</td> <td>5 2.38</td> <td>Net income per share</td> <td>. \$ 3.04</td> <td>\$ 2.09</td> <td>\$ 2.38</td>	Net income per share	\$ 3.04	\$ 2.09	\$ 2.38				Net income per share	. 5 3.1	4 5 2.09	5 2.38	Net income per share	. \$ 3.04	\$ 2.09	\$ 2.38	
Neurophone         11         1         14         2.01         Neurophone         5         11.5         14.5         2.01         Neurophone         5         11.6         10.7	Diluted income (loss) ner share:							Diluted income (low) ner share:			_	Dilated income (loss) ner share:			_	
Lie fondstanding dynamica         V (M)         V	Income from continuing operations	\$ 3.31	\$ 2.65	\$ 2.53				Income from continuing operations	. 5 . 33	5 2.65	\$ 2.51	Income from continuing operations	. 8 3.31	\$ 2.65	\$ 2.53	
Noticome go duar         2.26         3.20         5.22         Noticome go duar         5.25         5.26         5.22         Noticome go duar         5.25         5.20 <td>Loss from discontinued operations</td> <td>\$ 12.364</td> <td>5 (0.62)</td> <td>5 (0.21)</td> <td></td> <td></td> <td></td> <td>Loss from discontinued operations</td> <td>5 (0)</td> <td>61 5 19.62</td> <td>5 00.210</td> <td>Loss from discontinued operations</td> <td>. 8 10.360</td> <td>\$ (0.67)</td> <td>5 (0.21)</td>	Loss from discontinued operations	\$ 12.364	5 (0.62)	5 (0.21)				Loss from discontinued operations	5 (0)	61 5 19.62	5 00.210	Loss from discontinued operations	. 8 10.360	\$ (0.67)	5 (0.21)	
Berginder encrypt dater:         Title         Berginder encrypt dater:         Title         Berginder encrypt dater:         Berginder encrypt dater:         Berginder encrypt dater:         Distant         Title         Title <thtitle< th="">         Title         Title</thtitle<>	Net income per share	\$ 2.95	\$ 2.03	\$ 2.32				Net income per share	. 5 23	5 5 2.03	\$ 2.32	Net income per share	. \$ 2.95	\$ 2.03	5 2.32	
Inter         7,502         74,60         75,021         74,001         75,021         75,021         75,021         75,021         75,021         75,021         75,021         75,020         75,021         75,021         75,021         75,021         75,021         75,021         75,021         75,021         75,021         75,021         75,020         75,021         75,020         75,021         75,020         75,021         75,020         75,021         75,020         75,021         75,020         75,021         75,020 <th 75,020<="" td="" th<=""><td>Weishted average shares</td><td></td><td>_</td><td></td><td></td><td></td><td>_</td><td>Writebard average shares</td><td></td><td></td><td>-</td><td>Weished menors shares</td><td></td><td>_</td><td>_</td></th>	<td>Weishted average shares</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td>Writebard average shares</td> <td></td> <td></td> <td>-</td> <td>Weished menors shares</td> <td></td> <td>_</td> <td>_</td>	Weishted average shares		_				_	Writebard average shares			-	Weished menors shares		_	_
Dated 77,640 80,811 81,660 77,640 80,811 81,660 77,640 80,811 81,660 77,640 80,811 81,660 77,640 80,811 81,660	Basic	71,502	78,403	29,735				Beir	. 71,5	78,433	79,735	Basiac	71,902	78,403	29,735	
	Diluted	73,640	80,811	\$1,686	1 =			Diland	. 73,64	9 80,811	\$1,685	Diluted	. 73,640	80,811	81,686	

Figure 17. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

		-		-							_
a poende la tumpa	NO.	10-1				e soerse aprilore	Aug	Nº C	a November (R. (1990-01)	NU.	AU C
Ausets						Assets			Aueta		-
Cash and cash equivalents	4 61.0	\$ 793				Cash and cash inprivatents	\$ 45.5	\$ 750	Cash and sash equivalents	\$ 61.0	\$ 79.0
Trade accounts receivable, less allowances of \$411 for 2010 and \$4,016r 2010	485	465.3				Trade accounts receivable, less allowandes of \$4.1 for 2013 and \$4.3 for 2012	495.5	4055	Take account receivable, less allowances of \$41 for 700 and \$4.0 to 700	4955	455
Investories	6363	415.5		_		iverinies	426.8	6152	Inspityles	476.9	851
Prepaid expenses and other oursent assets	1044	125.5				Prepaid exploses and other purrent assets	134.8	055	Propaid expenses and other current assets	124.8	125.5
Total current assets	1,310.2	1,285.4		1000		Totial earrent assets	1,379.2	1,7854	Total ourset assets	1,390.2	1,285.4
Property plant and equipment, net	576.6	542.3		-		Property, plant and equipment, rult	576.6	5473	Property plant and equipment, set	\$76.6	963
Contail	0945	1.885.3				Goodwill .	1,798.5	1.0953	Goodwill	CHAS	1,695.3
Tetangible assets, ref	311.4	309.5		-	-	Intargèle alleits, net	300.4	3715	Vtargók KMTL NE	310.4	2015
investments and other assets	311.0	3/2.8				investments and other aspets	321.3	3138	investments and other assets	311.6	208
foral assers	\$1,448.7	\$1,165.4				Total aliaetta	\$4,449.7	\$4,1054	las/ mars	\$4,449.7	\$4,185.4
Labilities						Labilities	_		Cabilities 1		
Bort tem hormaings	6 2016	\$ 1415		1 11 1		Dent term termines	\$ 211.6	\$ 1413	Dart tem hontaines	\$ 211.6	\$ 1413
Carnet aution of long-term delin	15	823				Current parties of loss term date	25	2573	Current autrice of lane term debt	15	203
hate accounts southe	347.3	375.8			_	Tark annualis paulois	367.3	1718	Trade accounts savable	347.3	375.8
Other accued liabilities	4113	497				Other accuel Makines	461.7	4163	Other accrued liabilities	401.7	682
Total current lubilities	1.0681	1,187.8			1.188	Total sympet labilities	1,063.1	1.1878	Total current Tabilities	LOGI	1.187.8
Lana tarin data	1,019.0	279.2		100.00		Cano tave and	1,019.0	1752	Long-term data	1,019.0	278.2
Other long-term liabilities	415.5	408.4	and having being		_	Other long-tante liabilities	479.5	496.4	Other kng-term labilities	475.9	40.4
Tutar Laborities	2,962.0	2,485.7		-		Total Laboration	2,502.8	2,4052	total labilities	1,902.0	2,465.2
They believe anothe						Developing and			Deschalders' and		
Common stack, to pay value, authorized TH 0 shares, issued and substanding			with the same state in the second statements			Common stock, no pay values authorized 200 3 shares; issued and purchaseding			Common stock, to par value: authorized 2010 shares: issued and suntanding		
2013-011 shares 2013-02 & shares	202.8	202.6			_	2010-021 shares 2012-02 d shares	352.8	227.6	200-01 shares 200-02 £ shares	352.8	TUA
Common stack non-woling, no par value, authorized XVI I shares, issued and outstanding.			which the state of the life of the second states		_	Common stock non-voting, to parvalue, authorized 100.0 shares: leaved and successforg		-	Common stock non-writing, no pay value, authorized XM 0 shares, essent and outstanding,		-
2010-119.2 shares, 2010-100.1 phases	601.6	\$75.8		-		2010-113-0 dams, 2012-1001 shares	625.6	1214	2010-118.0 shares, 2010-129.1 shares	601.0	\$5.8
Persinel carrings	\$76.4	\$543				Antained salaring	970.4	\$24.8	Retained carnings	\$70.4	204.8
Accurulated effer comprehensive loss	6.5	758 K				Accumulated after competitioneve ites	6.5	1156.86	Accumulated other comprehensive loss	6.3	(158.N
Non-controlling interests	83	173		188	118	Non-controlling interests	15.2	113	Non-controlling interests	152	673
Total shareholders' equity	1,9427	1,700.2				tour staintuiter eaity	1,942.2	1,7002	Total shareholders' equity	1,617	1,788.2
Total flabilities and shareholders' equity	\$1,449.7	\$4.165.4				Total lijd (tries and charaholders' equity	\$4,449.7	\$4,105.4	Total Tabilities and shareholders' equity	\$4,449.7	\$4,165.4
		-						-			

Figure 18. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

			Dee	cember 31						
Millions of dollars		2009		2008	2	007				
Total assets:										
Completion and Production	\$	5,920	\$	5,936	\$ 4	4,763		<b>,</b>		,
Drilling and Evaluation		6,204		6,205	4	4,685		,	,	,
Shared assets		914		648		672				
Corporate and other		3,500		1,596	3	3,015		,	,	,
Total	\$	16,538	\$	14,385	\$13	3,135				,
			Dee	cember 31					December 31	
Millions of dollars		2009		2008	2	007	Millions of dollars	2009	2008	2007
Total assets:							Total assets:			
Completion and Production	\$	5,920	S	5,936	<b>S</b> 4	4,763	Completion and Production	\$ 5,920	\$ 5,936	\$ 4,763
Drilling and Evaluation		6,204		6,205	4	4,685	Drilling and Evaluation	6,204	6,205	4,685
Shared assets		914		648		672	Shared assets	914	648	672
Corporate and other	1.1	3,500		1,596	3	3,015	Corporate and other	3,500	1,596	3,015
Total	\$	6,538	\$	14,385	\$13	3,135	Total	\$16,538	\$14,385	\$13,135

Figure 19. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

Exhibit	Description		 Exhibit Number	Previation	Exhibit	Bascistion
3.1	Restated Cartificate of Incorporation (Field as an Exhibit as the Company's current report on Form 8-K. (Date of, Report, May 20, 2014), and incorporated herein by referenced (Commission File Number 901-12215)		NI	Eastered Certificate of Incorporation (Flod as an Fability to the Company's carrier teart on Form 8-K (Date of Report, May 20, 2011), and morporated herein by pelcence) (Company's Company's Compan	11	Brated Certificate of Incorporation (Field as an Table) to the Company's control report on Form KK (Date of Report, May 20, 2014) and incorporated herein by reference) (Commission, File Number 101-12213)
3.2	Amended and Jostand Britans of the Company office as an Exhibition for Company's content report on Form. 5-K (Date of Expect, Echnucy, 15, 2016) and incorporated herein by references (Commission File Number, 901-11215)	•	92	Amended and Barnard Dr. Lawy of the Company of his far an Exhibit to the Company's control spaces in Form. 84.0000 of Ratest Telenary 31. 2014) and incontential benjivity reference? Community TeleNariber WE(1):2130	32	Amended and Restand Bis Laws of the Compares (Field as an Erchthi to the Compare) control report as Form. 9-8, (Date of Report, February 27, 2016) and incorporated botto by references (Commission File Number, 901-12215)
41	Form of 5.59% Serier Note due 2007 (Elect as an Exhibit to the Company's current report on Form 8-K (Date of Report, June 13, 2007) and incorporated berein by reference (Commission file, Number 001-02215)	<u>"</u>	41	Form of 6.93%, Spring Note due 2017 (Flood as an Exhibits to the Company's current mourt on Form 8-K (Date of Report, Jane 19, 2017) and incorporated herein by teleptones (Commission Rev Norther 10: 12112)	41	Form of 6.39% Senior Note due 2017 (Eled as an Exhibit us the Company's partnet report on Form 8-K (Date of Report, June 19, 2007) and incorporated berton by reference? Commission file Number 9(1):12215)
42	Eprin of 4 198% Senior Note due 2020 (Elide as an Exhibit to the Company's current report on Farm 8-K (Date, of Report, Nevember 17, 500% and incorporated herein by sciences) (Commission Ele Number 8(1-12215)	<u> </u> "	0	Form of 4 755% Spring New day 2010 (That as an Exhibit to the Company) curves spring on Yorm 8 K. (Day of Report: Non-caller 17, 2009, and incorporated herein by reference) (Commission file Sumber 001-12215)	42	From al 4.795% Senior Note due 2020 cited as an Exhibit to the Company's convert separation Farm 9-8, (Date, of Report. Non-ombot 17, 5999) and incorporated horizo by Effortance (Commission file Samber 001-122/5)
43	Form of 3.789% Senior Note due 2010 (filed as an Exhibit is the Company's current report on Form 5-K. (Date, of Report. Nevember 17, 300% and incorporated herein by activeness (Commannen file Number 801-12213)	ŀ" -	0	Form of A 750% Senser None data 2010 (Flord as an Exhibit to the Concepts) is carrier prayet on Form B-K. (Data of Report, Non-order 17, 50% and incorporated betters in subsecut (Conceptson) for Nonber 001-11215		Term of 3 730% Senior Note doe 2001 (Filed as an Exhibit to the Conners) Conners Scorest on Term 8-K (Date, of Report. New online 17, 2009) and incorporated herein by selectroci (Commission file Number 80): 12213
44	Form of 4.70% is Senior Note due 2021 (Eliod as an Exhibit to the Company's correct report on Form 8-8, (Date, of Report, March 11, 2011) and incorporated horizin by reference (Commission File Number 001-12215)	ŀ" -	**	Form of 4 200% Sensor New Av. 2021 Effect as an Exchange to the Community Course spacet on Form 4-K (Daw, of Report, March 21, 2011) and incorporated horizon by reference 1 (Community File Number 901-12215)	u.	Form of 4. 2005; Senior Name due 2021 official an an Exhibit to the Company's control report on Form 8-K. (Deer, of Report: March 21. 2011); and incorporated bearin by information (Communication File Number (01), 19716).
45	Epres of 2.70% Senior Note due 2019 (filed as an Dable) in the Company's seniori report on Form 8.6. (Date of Report. March 12, 2019) and acceptonical beam by relevance (Commonism File Number 001-12215)	ŀ	-0	I printed 3 700% Sense New Sec. 2019 (Bool as an Debing to the Consents A sense report on Form 8.6) (Data of Report, March 12, 2014) and recomposing Sense to Advanced Commission 116, Norther 2014 (2019)	4	Form of 2.780% Senier Note due 2019-0760 as an Exhibit to the Company's convert spars on Form 8.4. (Date, of Report. March 12, 2019) and incorporated Denois by referenced of commission File Number 2011-122150
4.6	Epres of A 2005 Senior Note due 2021 (Edd, as an Exhibit to the Company's corport report on Form 8 K (Date, of Report. March 12, 2019) and incorporated lockin by reforence (Commission File Stanber 001-12215)	<u> "</u>		Term of 1.200% Series New day 2011 (Telled as an Exhibit to the Consume Control on Form & K. Char- of Report: March 12, West and scoreporate Series to Advected: Remonitor (Tel Namber HC-12113)	4.6	From of 4.250% Senier Note doe 2021 (field as an Exhibit to the Company's convert sport on From 8.8 (Date, of Report. March 12, 2014) and incorporated herein by referenced (Commission File Number 001-12215)
47	Form of 2.500% Senior Note due 2020 (Flod as an Exhibit to the Company's current report on Form 8-K (Date, of Report. March 10, 2015) and incorporated herein by reforence (Commission File Namber 001 (12215)	ŀ .	47	Term of J. 200%. Series New day 2018 (field as an Earlies to the Company), carryin report on Term & K. (Day, of Report, March 10, 2017) and recorporated Series in Advanced Remonstor. File Number 2011 (2015)	10	Form al 3.50% Senior Note due 2021 cilied as an Exhibit to the Company's current report on Form 8-6, (Date, of Report. March 10, 2015) and incorporated herein by referenced (Commission File Number 2011/12215)
4	Fprm of 3-50% Senier Note dae 2025 (Eldel as an Exhibit in the Egrapson's current report on Form 8-K. (Date, of Report, March 10, 2019) and incorporated herein by reforement (Commission File Number 001-12213)	l"	*	Form of 3. 200%. Senser Now day, 2014 (Bod as an Exhibit) to the Consum's current report on Form & K. (Day, of Kepter, March 16, 2014) and incorporated Senser in Adversaria Communication File Number 36 (12212)	0	Form of 3.500% Service Note due 2023 (2014) an an Exhibit to the Company's current report on Form 4-K (Date, of Report. March 18, 2015) and incorporated berton by referenced (Commission File Number 001-12215)
49	Form of 4.70% Senior Note due 2015 (filed as an Exhibit to the Company's current report on Form 8-K (Date, of Report, March 10, 2015) and incorporated barrain by reforence (Commission File Number 001-12215)	<b>.</b>		Form of 4 200% Spacer New day 20-1 citied as an Exhibit to the Contestion's carrier report on Torm 6-K. Char- of Report, March 10, 2013) and incorporated Section by Atlantical Commission (Fig Number 18(1-12113)	U	Form of 4.2005, Senior Name due 2005 (filed as an Exhibit to the Company's context report on Form 8-6 (Date, of Report: March 18, 2015) and incorporated bettern by reference()(Commission File, Number 9(1-12215)
4.10	Form of 3-48%s Senior Note due 2026 (filed as an Exhibit in the Company's current report on Form 8-K (Date, of Report, May 23, 2016) and incorporated berow by reference? Commission File Number 981-122159	ŀ" -	4 30	Jum of J. (STradense New day, 2016 Ellipt as an Exhibit to the Consum A current response of Farm Ack. Date. of Farmer New 21, 2019) and incorporated borns to informati (Consumman FileNamber 101-11219)	4.30	From of 3.1895, Senior Note doe 2020 (2016) as an Exhibit to the Company's current report on Form 8-K. Date, of Report. May 23. 2016) and incorporated herein its informaci (Commission File Number 201-12215).
4.11	Indexture dated as of Asso 27, 2991, among the Company, the Subsidiary Guarantons, and the Transo (Bod as an Exhibit as the Company's captor report, at Jonn & A. Clink of Asport, June 27, 2001) and incorporated herein, by a Microach Commission File Subsidier (Microach and Asport, June 27, 2001) and incorporated herein.		411	Informer dans as of June 27, 2011, among the Campary, the Subsidiary Guerrants, and the Transec (Flod as an Debby as the Company) courses some of years for all states. June 27, 2011, and incompanying bench. In systematic Commany in the State (States) (Trip)	4.11	Informer, dand as of June 27, 2001, among the Company, the Solvidiary Guernston, and the Transa (Field as an Exhibit as the Company's carrier trapper to Port A+K (Dirk of Asport, June 27, 2011) and incorporated herein, in adjuspace Community of Neuroper (A) (2015)

Figure 20. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

					_	_			_	No. Co	i d Dannah	1.11		X	A . S The second	11
and the second se	Tital En	and Decome	2010		_			March 1997	-	Trar La	and Decemb	67.30		Star La	ded Decord	40.31
Millione of dollars	2017	2016	2015			_		Millions of didlars	_	2011	2016	2015	Millions of dollars	2017	2006	3013
Cash flows from operating activities:							_	Cash flows from operating activities:					Cash flows from operating activities:		-	
Nel Iola	5 (400,0	0.0990	09610					Net mo		140815	0.79915	19613	Net Kis	5 (458)5	0.0893	(961)
Adjustments to reconcile net loss to-cash flows from operating activities:								Adjustments to reconcile set losi to cash flows from operating activities:	_				Adjustments to reconcile set loss to cash flows from operating activities:			
Depreciation, depletion and amortization	1,356	1,503	1,839					Depleciation, depletion and amortization		1,596	1,515	1,035	Depreciation, depletion and amortization	1,556	1,503	1,805
Deferred income tax provision (henefic), continuing operations	734	(1.501)	(224)		-		_	Deferred income tan provision (henefit), continuing operations		734	(1500)	(234)	Defored income tax provision (henefit), continuing operations	734	0.2010	(224)
Impairments and other charges	647	3,357	2,177		-			Impäirments and other charges		647	3,387	2,877	Impairments and other charges	647	3,357	2,177
U.S. tan refund	478	430	-		-			U.S.)ux refusid		478	430		U.S. tax refund	478	430	-
Payment related to the Macondo well incident	(368)	(33)	(333)					Payment related to the Macondo well incident		(366)	(83)	(333)	Payment related to the Macondo well incident	(368)	(33)	(303)
Cash inpact of inpairments and other charges - severance payments	-	(27)	(304)			_	-	Casil impact of impairments and other charges - severance payments.		-	(215)	(204)	Cash impact of impairments and other charges - severance payments	-	(223)	(304)
Changes in assets and liabilities:								Changes in assets and liabilities:	_				Changes in assets and liabilities:			
Receivables	(1.350)	895	1,468					Receivables	-	(1,350)	899	1,468	Receivables	0.350	899	1.468
Account pevable	153	(219)	09031				-	Access punible	-	753	(219)	19675	Account people	753	(219)	(90.7)
Tanosavies	(29)	552	153				-	Investories	_	(29)	552	153	Investories	(29)	552	153
Other	545	05493	(396)			-	-	Ober	-	515	(549)	(596)	Ober	515	15491	(596)
Total cash flows provided by (seed in) operating activities	2,468	0.300	2,906					Total cash flows provided by taxed int operating activities	-	2,468	(1,205)	2,806	Total cash flows provided by (used in) operating activities	2,468	0.290	2,906
Cash flows from invotting activities:						_	_	Cash flows from investing activities:	_	-	-		Cash flows from investing activities:			-
Capital expenditures	(1.373)	(798)	(2,384)					Capital expenditures		(1,315)	(796)	(3,184)	Capital expenditures	0.370	(798)	(2,184)
Payments to acquire businesses, set of cash acquired	05763	010	(79)					Payments to acquire businesses, net of cosh acquired		(876)	00	09	Payments to acquire businesses, tax of cash acquired	(626)	00	091
Proceeds from sales of property, plant and opsigment	158	222	158					Proceeds from sales of property, plant and equipment		158	222	168	Proceeds from sales of property, plant and equipment	158	222	168
Other investing activities	(84)	(107)	(137)		-			Other investing activities		(84)	085	0375	Other investing activities	(84)	(193)	0.975
Total cash flows used in investing activities	(1.927)	(718)	(2,192)					Total cash flows used in investing activities	_	(19(7))	(790)	0,140	Total cash flows used in investing activities	(756.1)	(796)	(J.)9D
Cash flows from financing activities:								Cash flows from financing activities:					Cash flows from financing activities:			
Payments on long-term horrowings	(1,641)	0,170	(10)					Payments on long-term borrowings		(1,611)	(3,171)	(8)	Paymenta on long-term borrowings	(1,641)	(3,171)	(8)
Dividends to shareholders	(626)	(620)	(684)		-	_		Dividends to shareholders	-	(9.36)	(9.30)	(514)	Dividends to shareholders	(626)	(6.30)	(604)
Proceeds from insuance of common stock	158	186	167					Proceeds from issuance of compton stock	-	158	186	167	Proceeds from insuance of common stock	158	186	167
Proceeds from insuance of long-term debt, net	10	74	7,440					Proceeds from issuance of long-lerm ddls, net		10	74	7,640	Proceeds from issuance of long-term-debt, net	10	74	7,640
Other financing activities	(62)	(9)	96					Other financing activities		(62)	(9)	96	Other financing activities	(82)	(9)	96
Total eash flows used in financing activities	(7,161)	0,540	7,081					Total cash flows used in financing activities	-	(1,161)	(3,540)	7,081	Total cash flows used in financing activities	(2,360)	(3,540)	7,081
Effect of exchange rate changes on cash	(57)	(115)	(9)					Effort of exchange rate changes on cash		(82)	(115)	(9)	Effort of exchange rate changes on cash	(50)	(148)	- 0
Increase (decrease) in cash and equivalents	(3,672)	(5,068)	7,786					Increase (decenase) in cash and equivalents	_	(1,672)	(846,068)	1,785	Increase (decrease) in (ash and equivalents	(1,672)	(6.068)	3,786
Cash and equivalents at beginning of year	4,009	\$9,077	2,291					Casil and equivalents at beginning of year		4,009	10,077	2,291	Cash and equivalents at beginning of year	4,009	10,077	2,291
Cash and equivalents at end of year	\$ 2,337 \$	4,009 3	10,077		1 100			Cash and equivalents at end of year	8	2,337 8	4,009 \$	10,017	Cash and oppivalents at end of year	\$ 2,337 \$	4,009 \$	10,077
Supplemental disclosure of cash flow information:								Supplemental disclosure of cash flow information:					Supplemental disclosure of cash flow information:			
Cash payments (receipts) during the period for:								Cash payments (receipts) during the period for:					Cash payments (nonipts) during the period for:			
Interval	5 214 5	629 3	380	-				Instat	5	596.5	6.99 \$	390	haved	\$ 594.5	659.5	380
Income takes	5 (178,6	(20)	370				-	Income taxes	5	0.28(\$	(20)5	370	Income tarters	\$ (178)\$	(20)	370
See notes to consolidated financial statements.		-	_				_	See notes to consolidated f(sancial statements.				_	See notes to consolidated financial statements.			_

Figure 21. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

	2013	2012 2011							2014.5	2012	2010		2013	2012	2011
Refining & Marketing Operating Statistics By Broiss						-	Refiniter & Marketine Onceatine Statistics By Review	_				Refining & Marketing Overging Statistics In Review			
Midwatt	1						Midwot	_				Midwat			_
Refiners Throughputs (throughputs of hurrels per day) <sup>10</sup>	1						Referery Throughputs (throughds of humols per day) 10					Refiners Throughputs (throughputs of horsels per day) <sup>10</sup>	1		
Cade of refined	625			-			Crude oil softwod		625			Crude of refined	625		
Other charge and blendwocks	54						Other charge and blendstocks		54			Other charge and blendnucks	54		
Total	679		-				Total		6.79			Tend	679		
Sour Crade Oil Throughput percont	18						Sour Crude Oil Throughput percent	_	38			Sour Crade Oil Throughput percent	38		
WTI-Priced Crude Oil Throughput pottent	42						WTI-Priced Crade Oil Throughput percent		63			WTI-Preed-Crude Oil Throughput percent	43		
Rafined Product Vields (thousands of burnels per day).10	1						Refined Product Vicids (thousands of humch per day). <sup>10</sup>					Refined Product Vields theseands of burnch per day 112			
Casoline	979		_				Gasoline		371			Gaseline	371		
Dealbass	207		-	-			Dustiliates		297			Dealtaus	307		
Property	14						Propune		14			Properc	14		
Feedstocks and special products	40						Fordstocks and special products		41			Feedstacks and special products	41		
Hany fuel oil	12						Hany fuel ail		12			Hany ful oil	12		
Asplait	45						Angelault		41			Asphalt	41		
Tatal	685		-				Total	_	686			Teal	646		
Refinery Direct Operating Costs idellars per barrel) 20							Refinery Direct Operating Croits (dollars per barrefs. <sup>367</sup>					Refiners Direct Operating Costs (dollars per harrel) 20	and the second se		
Planned turnaround and major maintenance	5 1.47						Planned turneround and major maintenance	5	1.47			Planned turneround and major maintenance	\$ 1.47		
Depreciation and amortication	1.74						Depreciation and amortization		1.74			Depreciation and amortization	174		
Other manufacturing <sup>10</sup>	4.21						Other manufacturing <sup>51</sup>		4.21			Other manufacturing <sup>11</sup>	4.21		
Total	5 7.42			1 10			Total	5	7.42			Tetal	\$ 7.42		
Speedway Operating Statistics							Speedway Operating Statistics					Speedway Operating Statistics			
Convenience stores at period-end	1,478	1,464 1,371				1.000	Convenience stores at period-end		1,478	1,414	1,371	Convenience moves at period-end	1,478	1,414	1,371
Gaustine & distillant sales (millions of gallom)	3,146	3,027 2,998					Gasoline & depillant sales (millions of gallons)		3,146	3,827	2,938	Gasotine & doubtase sales (millions of gallons)	3,146	1,027	2,918
Gasoline & dontilate press margin (dollars per gallon) <sup>10</sup>	5 0.1442 5	0.1108 \$ 0.1108		1 1 11	1 1 88		Gasoline & distillate gross margin tilellars per gallost <sup>10</sup>	8	0.1441	8 0.1318	\$ 0.1708	Gasoline & distillate gross margin (dollars per gallos) <sup>10</sup>	\$ 0.1441	\$ 0.1108	\$ 0.1108
Marchandisa sales (in millions)	\$ 3,139 \$	3,058 \$ 2,924		1 1.00			Merchandise sales (in millions)	- 5	3,135	5 3,056	\$ 2,934	Morchandisc sales (in millions)	\$ 3,139	\$ 1,098	\$ 2,904
Merchandise gross margin (in millions)	5 825 5	798 \$ 719					Morchandise gross margin (in millions)	5	825	\$ 795	\$ 719	Mochandra: gross margin (in millions)	\$ 825	\$ 715	\$ 719
Same store gasetine sales volume (ported over period)	0.5%	(0.8)% (0.7%)					Same store gaseline sales volume (period over period)		0.5%	(0.8)%	(1.7)%	Same store gasetine sales volume (period over period)	0.9%	0.8/%	(0.7)N
Same store monchandise sales (period over period) <sup>31</sup>	4.9%	7.0% 6.7%					Same store merchandise sales (period ever period) <sup>20</sup>		4.7%	70%	6.7%	Same store menchandise sales (period aver period) <sup>21</sup>	4.9%	7.0 %	6.7 %
Pipeline Transportation Operating Statistics							Pipeline Transportation Operating Statistics			1		Pipeline Transportation Operating Statistics			
Pipeline throughput (thousands of harrols per day) <sup>(2)</sup>							Pipeline throughput (throusands of burnels per day) <sup>20</sup>					Pipeline droughput (thousands of harrels per day)."			
Crude oil pipelines	1,380	1,190 1,184			1.100	1.100	Crude oil pipelines		1,280	1,090	1,184	Crude of pipelines	1,380	1,190	1.184
Rafined products pipelines	911	980 1,011				1.001	Refined products pipelines		911	980	1,871	Refined products pipelines	911	980	1.071
Tetal	2.191	2.170 2.215		1.00	1.00	1.000	Total		2.191	2.179	2,215	Tetal	2,191	2,170	2,215

Figure 22. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

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Figure 23. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

			Year en	led Decemb	er 31					_	_		
Millions of dollars except per share		2017	2016	2015	2014	2013							
Revenue	\$	20,620 \$	15,887 \$	23,633 \$	32,870	\$ 29,402							
Operating income (loss)		1,362	(6,778)	(165)	5,097	3,138							
Income (loss) from continuing operations		(449)	(5,767)	(662)	3,437	2,116							
Basic income (loss) per share from continuing operations		(0.51)	(6.69)	(0.78)	4.05	2.35							
Diluted income (loss) per share from continuing operations		(0.51)	(6.69)	(0.78)	4.03	2.33							
Cash dividends per share		0.72	0.72	0.72	0.63	0.525							
Net working capital		5,915	7,654	14,733	8,781	8,678		1					
Total assets		25,085	27,000	36,942	32,165	29,223							
Long-term debt		10,430	12,214	14,687	7,765	7,816				11.4			
Total shareholders' equity		8,349	9,448	15,495	16,298	13,615							
Capital expenditures		1,373	798	2,184	3,283	2,934							
			Year en	led Decemb	er 31				_	Year end	ed Decembe	r 31	
Millions of dollars except per share	-	2017	2016	2015	2014	2013	Millions of dollars except per share	20	017	2016	2015	2014	2013
Revenue	\$	20,620 \$	15,887 \$	23,633 \$	32,870	\$ 29,402	Revenue	\$ 2	0,620 \$	15,887 \$	23,633 \$	32,870 \$	29,402
Operating income (loss)		1,362	(6,778)	(165)	5,097	3,138	Operating income (loss)		1,362	(6,778)	(165)	5,097	3,138
Income (loss) from continuing operations		(449)	(5,767)	(662)	3,437	2,116	Income (loss) from continuing operations		(449)	(5,767)	(662)	3,437	2,116
Basic income (loss) per share from continuing operations		(0.51)	(6.69)	(0.78)	4.05	2.35	Basic income (loss) per share from continuing operations		(0.51)	(6.69)	(0.78)	4.05	2.35
Diluted income (loss) per share from continuing operations		(0.51)	(6.69)	(0.78)	4.03	2.33	Diluted income (loss) per share from continuing operation	5	(0.51)	(6.69)	(0.78)	4.03	2.33
Cash dividends per share		0.72	0.72	0.72	0.63	0.525	Cash dividends per share		0.72	0.72	0.72	0.63	0.525
Net working capital		5,915	7,654	14,733	8,781	8,678	Net working capital		5,915	7,654	14,733	8,781	8,678
Total assets		25,085	27,000	36,942	32,165	29,223	Total assets	2	5,085	27,000	36,942	32,165	29,223
Long-term debt		10,430	12,214	14,687	7,765	7,816	Long-term debt	10	0,430	12,214	14,687	7,765	7,816
Total shareholders' equity		8,349	9,448	15,495	16,298	13,615	Total shareholders' equity		8,349	9,448	15,495	16,298	13,615
Capital expenditures		1,373	798	2,184	3,283	2,934	Capital expenditures		1,373	798	2,184	3,283	2,934

Figure 24. An example of file from Fintabnet-test [4] dataset. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

			Effect on						
	Pretax 1	Pension	Pension Be	nefit Ob	oligation				
Millions of dollars	Expense	in 2009	at Decen	nber 31,	2009				
25-basis-point decrease in discount rate	\$	1	S	35				1	
25-basis-point increase in discount rate	\$	(1)	\$	(33)					
25-basis-point decrease in expected long-term rate of return	\$	1		NA				1	
25-basis-point increase in expected long-term rate of return	\$	(1)		NA				Ш	
				_					
			Effect on						Effect on
	Pretax I	Pension	Pension Be	nefit Ob	ligation		Pretax	Pension	Pension Benefit Obligation
Millions of dollars	Expense	in 2009	at Decen	ber 31,	2009	Millions of dollars	Expense	e in 2009	at December 31, 2009
25-basis-point decrease in discount rate	\$	1	S	35		25-basis-point decrease in discount rate	\$	1	\$ 35
25-basis-point increase in discount rate	\$	(1)	S	(33)		25-basis-point increase in discount rate	\$	(1)	\$ (33)
25-basis-point decrease in expected long-term rate of return	S	1		NA		25-basis-point decrease in expected long-term rate of return	\$	1	NA
25-basis-point increase in expected long-term rate of return	\$	(1)		NA		25-basis-point increase in expected long-term rate of return	\$	(1)	NA

Figure 25. An example of file from Fintabnet-test [4] dataset, where our model failed to capture near accurate structure. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

		Comp	any Shareholde	rs' Equity						_					
		Paid-in			· · · · · · · · · · · · · · · · · · ·					_					
		Capital in			Accumulated	Noncontrolling				_					
	Common	of Par	Treasury	Retained	Comprehensive	Consolidated		2 xxxx xx	_						100.000
Millions of dollars	Shares	Value	Stock	Earnings	Income (Loss)	Subsidiaries	Total			_					
Balance at December 31, 2006 Adoption of new accounting standard	\$ 2,650	\$ 1,689	\$ (1,577)	\$ 5,051	\$ (437)	\$ 69	\$ 7,445					I 14 <u>88</u>			
Adjusted Balance at December 31, 2006	\$ 2,650	\$ 1.752	\$ (1.577)	\$ 5,008	\$ (437)	\$ 69	\$ 7,465								
Cash dividends paid	-	-	-	(314)	-	-	(314)						· · ·		
Stock plans	7	23	130		-	-	160				_				
Tax benefit from exercise of options	-	-	(1,574)	-	-	-	(1,374)							•	
and restricted stock	-	29	-	-	-	-	29			-					-
Distributions to noncontrolling interest holders	-	-	-	-	-	(5)	(5)								
Total dividends and other transactions			-	(*)		(21)	(23)						_		-
with shareholders	7	52	(1,244)	(318)	-	(26)	(1,529)							_	
Shares exchanged in KBR, Inc. exchange offer	-	-	(2,809)	-	-	-	(2,809)					_			
Comprehensive income (loss):	-	-	-	(30)	-	-	(30)						•	•	
Net income	-	· · · · ·	-	3,486	-	50	3,536							-	
Other comprehensive income (loss):		-		-		-	1								
Realization of translation gains included		-	-			-	· · ·							•	•
in net income	-	-	-	-	(24)	-	(24)								
plans adjustments:															1000
Prior service cost:															
Plan amendment	-	-	-	-	(2)	-	(2)								
Actuarial gain (loss):	-	-	-	-		-						-		-	
Net gain	-	-	-	-	105	-	105								
Amortization of net loss		-	-	-	14	-	14								
Tax effect on defined benefit	-	-	-	-	,	-			-			-		-	-
and postretirement plans	-	-		-	(45)	-	(45)								
KBR, Inc. separation	-	-	-	-	271	-	271		_	_	_	_	_	_	-
postretirement plans, net	-	-	-	-	355	-	355								
Net unrealized gains on investments, net												_			
Total commentative income	-	-	-	3,486	313	50	3 869		_		-		_	_	
Balance at December 31, 2007	\$ 2,657	\$ 1,804	\$(5,630)	\$ 8,146	\$ (104)	\$ 93	\$ 6,966			1.10					
	-		-				-				1	1			_
		Comp	ary Shareholde	rs' Equity						Compa	y Shareholde	* Equity			
		Comp Paid-in Cariital in	ary Shareholde	rs' Equity	Accumulated	Noncontrolling				Compa Paid-in Canital in	y Shareholde	* Equity	Accumulated	Noncontrolling	
		Compo Paid-in Capital in Excess	ary Shareholde	rs' Equity	Accumulated	Noncontrolling Interest in				Compa Paid-in Capital in Excess	ry Shareholde	* Equity	Accumulated Other	Noncontrolling Interest in	
kellings of Julian	Common	Comp Paid-in Capital in Excess of Par	ary Shareholde Treasury	rs' Equity Retained	Accumulated Other Comprehensive	Noncontrolling Increst in Consolidated	Total	100 mm of dellare	Common	Compa Paid-in Capital in Excess of Par Value	Treasury	Retained	Accumulated Other Comprehensive	Noncontrolling Interest in Consolidated	Total
Milliour of dollars	Common Shares \$ 2,650	Comp Paid-in Capital in Excess of Par Value \$ 1.689	ary Shareholde Treasury Stock \$ (1.577)	rs' Equity Retained Earnings S 5.051	Accumulated Other Comprehensive Income (Loss) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries S. 69	Total \$ 7.445	Millions of dollars Balance at December 31, 2006	Common Shares	Compa Paid-in Capital in Excess of Par Value \$ 1.689	ry Shareholde Treasury Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries 5 69	Total \$.7.445
Milliour of dollars Balance at December 31, 2006 Adoption of new accounting standard	Common Shares \$ 2,650	Comp Paid-in Cagital in Excess of Par Value \$ 1,689 63	ary Shareholde Treasury Stock \$ (1,577)	Retained Earnings \$ 5,051 (43)	Accumulated Other Comprehensive Income (Loss) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries \$ 69	Total \$ 7,445 20	Millions of dollars Balance at December 31, 2006 Adoption of anno accounting standard	Common Shares \$ 2,650	Compa Paid-in Capital in Excess of Par Value \$ 1,689 63	Treasury Stock \$ (1,577)	Retained Earnings \$ 5,051 (43)	Accumulated Other Comprehensive Income (Loss) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries \$ 69	Total \$ 7,445 30
Milliour of dollary Balance at December 31, 2016 Adoption of new seconaring standard Adjusted Balance at December 31, 2006	Common Shares \$ 2,650 \$ 2,650	Compo Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752	Treasury Stock \$ (1,577) \$ (1,577)	Retained Earnings \$ 5,051 (43) \$ 5,008	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437)	Noncontrolling Interest in Corisolidated Subsidiaries \$ 69 - \$ 69	Total \$ 7,445 20 \$ 7,465	Millious of dollars Balance at December 31, 2006 Adoption of new seconding and and Adjusted Balance at December 31, 2006	Common Shares \$ 2,650 \$ 2,650	Compa Paid-in Capital in Excess of Par Value \$ 1,689 63 \$ 1,752	y Shareholde Treasury Stock \$ (1,577) \$ (1,577)	* Equity Retained Earnings \$ 5,051 (43) \$ 5,008	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries \$ 69 \$ 69	Total \$ 7,445 20 \$ 7,465
Millows of dollars Balance at December 31, 2016 Adgento of two secouring standard Adgento Blaince at December 31, 2016 Cash di videnda pial	Common Shares \$ 2,650 	Compa Paid-in Capital in Escess of Par Value \$ 1,689 63 \$ 1,752	Treasury Stock \$ (1,577) - 130	Retained Earnings \$ 5,051 (43) \$ 5,008 (314)	Accumulated Other Comprehensive Income (Loss) \$ (437) 	Noncontrolling Interest in Corisolidated Subsidiaries \$ 69  \$ 69 	Total \$ 7,445 20 \$ 7,465 (314)	Millions of dollars Balance at December 31, 2006 Adoption of areas ecounting attacked Adjusted Islance at December 31, 2006 Cash drivlenda paid	Common Shares \$ 2,650 \$ 2,650	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) \$ (1,577)	Retained Earnings \$ 5,051 (43) \$ 5,008 (314)	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries \$ 69 \$ 69	Total \$ 7,445 20 \$ 7,465 (314) (14)
Million of dollars Balance at December 31, 2016 Adjusted Balewa Economic Mander Adjusted Balewa Economic 31, 2006 Cach drivefaren at Stock Juna Stock Juna	Common Sharos \$ 2,650 	Comp Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752 	Treasury Stock \$ (1,577) - 130 (1,374)	Retained Earnings \$ 5,051 (43) \$ 5,008 (314)	Accumulated Other Comprehensive Income (Loss) \$ (437) - \$ (437) -	Noncontrolling Inforest in Cerisolidated Subsidiaries 5 69 - 5 69 - -	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374)	A6llion of dollars Balance at December 31, 2006 Adjusted Balance at December 31, 2006 Cash dividen yang at the second second second Stock Jana Correno shares purchased	Common Shares \$ 2,650 \$ 2,650 	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) \$ (1,577) 130 (1,374)	Retained Earnings \$ 5,051 (43) \$ 5,008 (314)	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437)	Noncontrolling Interest in Consolidated Subsidiaries \$ 69 \$ 69	Total \$ 7,445 30 \$ 7,465 (314) 160 (1,374)
Milliour of dollarr Balance at December 31, 2016 Adaption of new accounting standard Adaptatof Balance at December 31, 2006 Cash dividenda paid Stock plans Common shares purchated Tax benefit from exercise of options.	Common Shares \$ 2,650 	Comp Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752 	Treasury Stock \$ (1,577) - \$ (1,577) - 130 (1,374)	Retained Earnings \$ 5,051 (43) \$ 5,008 (314) 	Accumulated Other Comprehensive Income (Loss) - \$ (437) - - - -	Noncontrolling Interest in Corisolidated Subsidiaries 5 69 - 5 69 - - -	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374)	Millions of dollars Balance of December 31, 2006 Adoptin ef anne scowatting standard Adoptin falsance at December 31, 2006 Constant and Standard Standard Common shares purchased Common shares purchased Tas benefit from excises of options	Common Shares \$ 2,650 \$ 2,650 - 7 -	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) \$ (1,577) 	Retained Earnings \$ 5,051 (43) \$ 5,008 (314) -	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437) - -	Noncontrolling Interest in Consolidated Subsidiaries 5 69 5 69 	Total \$ 7,445 30 \$ 7,465 (314) 160 (1,374)
Millions of dollars Islains at Docember 31, 2006 Adgeton of new accounting standard Adgeton fails accounting standard Adgeton Balance at Docember 31, 2006 Cash dividends paid Stock Jana Common Alawas purchased Tax benefit from carcical options and restricted tool, multi- and restricted tool, multi- met holders	Common Shares \$ 2,650 	Compe Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752 	Treasury Stock \$ (1,577) - 130 (1,374) -	Retained Earnings \$ 5,051 (43) \$ 5,005 (314)	Accumulated Other Comprehensive Income (Loss) \$ (437) 	Noncontrolling Inferest in Corisolidated Subsidiaries 5 69     (5)	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5)	Adliens of dollars Balance at December 31, 2006 Adoption a forse accounting atundard Adoption for a consecution of the second Adoption for a second balance and a second Stock Jana Common shares purchased Tax benefit from secolice of options and restricted socie officiant interest holders.	Common Shares \$ 2,650 \$ 2,650 - 7 - -	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) 	Retained Earnings \$ 5,051 (43) \$ 5,008 (314) - -	Accumulated Other Comprehensive Income (Loss) \$ (437) \$ (437) - - -	Noncontrolling Interest in Consolidated Subsidiaries \$ 69 	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5)
Milliour of dollars Balance at December 31, 2016 Adoption of new accounting standard Adoption of new accounting standard Adoption familiar at December 31, 2006 Cash dividends paid Distributions to neuroscient of options and restricted stack Distributions to neuroscienting, internet holders Distributions to neuroscienting, internet holders	Common Shares \$ 2,650 	Compo Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752 	Treasury Stock \$ (1,577) - 130 (1,374) - -	Retained Earnings \$ 5,051 (43) \$ 5,005 (314) - - (4)	Accumulated Other Comprehensive Incorne (Cast) \$ (437) 	Noncontrolling Inferest in Consolidated Subsidiaries S 69    (5) (21)	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5) (25)	Adlions of dollars Balance at December 31, 2006 Adaptato fatance at December 31, 2006 Cash drivends paid Schedgens December 31, 2006 Cash drivends paid Schedgens December 31, 2006 Tas benefit from esserise of options and rearriced stock Distributions to noncontrolling interest holders	Contention Shares \$ 2,650 \$ 2,650 - - - - - -	Compa Paid-in Capital in Excess of Par Value \$ 1,689 61 5 1,752 - 23 - 23 - 29 29 -	y Shareholde Treasury Stock \$ (1,577) 	Retained Earnings \$ 5,051 (43) - - - - (4)	Accumulated Other Comprehensive Incorne (Loss) \$ (437) - - - - - -	Noncontrolling Interest in Consolidated Subsidiaries 5 69 - - - - (5) (21)	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5) (25)
Milliour of dollare Balance at December 31, 2016 Adgetto of free accounting standard Adgetto falance at December 31, 2016 Cash dividend paid Stock plans Control on a noncontrolling interval holders Other transactions with hardpolders Other transactions with hardpolders	Common Shares 5 2,650 	Compe Paid-in Cagital in Excess of Par Value \$ 1,689 63 \$ 1,752 	Treasury Stock \$ (1,577) - 130 (1,374) - -	Retained Earnings \$ 5,051 (43) \$ 5,008 (314) 	Accumulated Other Comprehensive Incorre (Cas) 5 (437) 	Noncontrolling Interest in Corisolidated Subsidiaries 5 69 - - - - (5) (21)	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5) (25)	Afflione of dollars Balance at December 31, 2006 Adoption of env accounting endoard Adoption of env accounting endoard Stock plans Stock plans Cash dividents paid Stock plans Coher transactions with Anterbolders Other transactions with Anterbolders Other transactions with Anterbolders	Corrention Shares \$ 2,650 - 7 - - -	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) \$ (1,577) 	Retained Earnings \$ 5,008 (314) - - (4)	Accumulated Other Comprehensive Income (Loss) \$ (437) - - - - - - -	Noncostrolling Interest in Consolidated Sebsidiaries Sebsidiaries - - - - - - - - - (5) (21)	Total \$ 7,445 30 \$ 7,466 (314) 160 (1,374) 29 (5) (25)
Million of dollars Palance at December 31, 2016 Adjusted Balance at December 31, 2016 Cash dividents and Common State Stock Junes Common Junes purchased Tax benefit from csercise of options and restricted atook Distributions to noncontrolling internat holders Other transactions with harpholders Teat dividends and other transactions Teat dividends and other transactions Teat dividends and other transactions	Common Shares 5 2,650 	Compa Paid-in Cagital in Escoss of Par Value \$ 1,689 63 \$ 1,752  23  23  29   29   29   29  29   29             	Treasury Stock \$ (1,577) 	n' Equity Retained Earnings \$ 5,011 (43) \$ 5,008 (314) - - (4) (4) (318)	Accumulated Other Comprehensive Income (Loss) \$ (437) 	Noncontrolling Inferest in Consolidated Subsidiaries Subsidiaries Subsidiaries 	Total \$ 7,445 20 \$ 7,465 (314) 160 (1,374) 29 (5) (25) (1,529) (2,509)	Afflior of dollars Balance at December 31, 2006 Adaption of an environmental particular Adjusted Falance at December 31, 2006 Cash dividents parthaed Stock Jans Common Anares purchased Tax benefit from cerceise of options and retricted toolcil Distributions to noncontrolling interest holders Distributions to noncontrolling interest holders Distributions to an occontrolling interest holders Test dividends and other transactions Cheme andburged 1961th the occusion of the	Common Shares \$ 2,650 7 - - - 7 7	Compa Paid-in Capital in Excess of Par Value \$ 1,689 	y Shareholde Treasury Stock \$ (1,577) - 130 (1,374) - (1,244) - 2,800	* Equity Retained Earnings \$ 5,051 (31) \$ 5,008 (314) - - (4) (318)	Accumulated Other Comprehensive Incorne (Loss) \$ (437) - - - - - - -	Noncontrolling Interest in Consolidated Subsidiarios S 69 - - - - (5) (21) (26)	Total \$ 7,445 20 \$ 7,445 (114) 160 (1,374) 29 (5) (25) (25) (1,529)
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Millions of dollare     Balance at December 31, 2016     Adjento of rev accounting student     Adjento for the accounting student     Adjento for the accounting student     Adjento faile accounting student     Adjento faile     Corrison almos purchased     Tax benefit from exercise of options     and retricted node     Adjento af new accounting student     Corrison almos purchased     Tax benefit from exercise of options     and retricted node     Total divident and other transmiss     Total divident of the transmiss     Total divident of the transmiss     Total divident and other transmiss     Total divident of the transmiss     Total divident of the transmiss     Total account of the total     Total sectors     Than anothered     Settlements corrultinents     Ameritation of the loss     Settlements corrultinents     Tax affect on defined benefit	Common Shares Stares Stares Stares S 2,650	Compo Paid-in Cagital in Escess of per- 5 (1,639) 6 (3) 5 (1,639) 6 (3) 5 (1,639) 7 (6) 7	x y Shareholde Treasury Stock \$ (1,577) - 130 (1,374) - - - - - - - - - - - - -	Retained Earnings 5 5,051 (314) - - - (30) 3,486 - - - - - - - - - - - - - - - - - - -	Accentulated Other Comprehensive Incerne (Loss) 5 (437) - - - - - - - - - - - - - - - - - - -	Necessaria	Total 5 7,445 20 5 7,445 (014) 1660 (1,574) 29 29 29 (2,529) (2,529) (2,529) (2,529) (2,529) (3,536) 1 (2,40) 3,536 1 (2,40) 5 5 (2,40) (3,536	Millions of dollars     Balance of Jobio     Balance at December 31, 2006     Adoption of airos accounting studentd     Adjusted falance at December 31, 2006     Cand forkion paid     Common hares purchased     Tas benefit from excites of options     and retricted stock     Distributions to accounting interval holders     Distributions to accounting interval holders     Total divident and other transactions     with startholders     Decomparise accounting interval holders     Distributions to accounting interval holders     Distributions     Di	Contenos Shares \$ 2,650 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Compa Paid-in Capital in Excess Var 5 1,689 23 23 23 29 29 29 29 29 52 	y Shareholde Treasury \$ (1,577) \$ (1,577) - 130 (1,577) - - (1,244) (2,469) - - - - - - - - - - - - -	* Equity Retained Earnings 3 5,051 (314) - - (318) (318) (318) (318) - - - - - - - - - - - - -	Accumulated Other Comprehensive Income (Loos) \$ (437) 	Noncontrolling Internet in Consolidated Subsidiaries (28) (28) (28) - - (28) - - - - - - - - - - - - - - - - - - -	Total \$ 7,445 2,445 (14) 160 (1,374) 29 (2,59) (2,59) (2,59) (2,59) (2,00) 3,536 (2,5) (2,00) 3,536 (2,5) (2,00) 3,536 (2,1) (2,2) (
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Milliour of dollare     Balance at December 31, 2016     Adjento of rev accounting standard     Adjento for the accounting standard     Adjento for the accounting standard     Adjento falsence at December 31, 2006     Cash dividend and     Common James purchased     Tax benefit from exercise of options     and retricted node     Common James purchased     Toxa to mainter the accounting standard     Common James purchased     Toxa to mainter the accounting standard     Common James purchased     Toxa to mainter the accounting standard     Toxa to mainter the accounting standard     Toxa to mainter the accounting standard     Common James purchased     Toxa to mainter the accounting standard     Common James purchased     Toxa to mainter the accounting standard     Communitive translation adjustments     Pains andment     Amontaid pain forbit     Net gain     Amontaid paintents     Pains andment     Amontaid paintents     Net gain     Amontaintent     Net gain     Amontaintent     Net gain     Amontaintent     Amontaint	Common Shares 5 2,650 	Comp Paid-in Cagital in Escess Value 5 1,659 63 5 1,752 23  - 29 29 29 29  - - - - - - - - - -	x y Shareholde Treasury Stock \$ (1,577) - - 136 (1,374) - - - - - - - - - - - - -	Retained Examings 5 5,051 (33) 5 5,008 (14) 5 5,008 (14) 6 (14) 7	Accentulated Other Comprehensive Incerne (Loss) \$ (437) 	Nexcentraling Increment in Controlland Subsidiaries 	Total \$ 7,445 20 (3 7,465 (3 14) 160 (1,374) (2,529) (2,509) (2,509) (3,530 1 1 (2,409) (2,409) (2,409) (2,409) (3,530) (2,409) (2,409) (3,530) (2,40) (3,530) (2,40) (3,530)	Millions of dollars     Balance of Josephilic States     Balance at December 31, 2006     Adjustian of anise accounting stundard     Adjustian failure accounting stundard     Adjustian failure accounting stundard     Common hares purchased     Total divisions and other particular     Common hares purchased     Total divisions and other transactions     with shareholders     Total divisions and other transactions     with shareholders     Common hares purchased     Total divisions and other transactions     with shareholders     Total divisions and other transactions     With shareholders     Total divisions and other transactions     With shareholders     Common states purchased     Total divisions     Totalance divisions     Totalance divisions     Total divisions     T	Common Shares Shares \$ 2,659 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Compa Paid-in Capital in Excess Value 5 1,089 61 - - - - - - - - - - - - - - - - - -	y Shareholde Treasury Shock \$ (1,577) \$ (1,577) - 130 (1,577) - - - (1,244) (3,699) - - - - - - - - - - - - -	* Equity Retained Exemings \$ 5,051 (33) 3 5,008 (314) (4) (318) (30) 3,486	Accumulated Other Comprehensive Incore (Loss) \$ (437) \$ (437) - - - - - - - - - - - - - - - - - - -	Noncontrolling Internet in Consolidated Subsidiaries - - - - - - - - - - - - - - - - - - -	Total \$ 7,445 20 \$ 7,445 (14) 160 (1,374) (25) (25) (25) (25) (25) (25) (20) 3,536 1 (24) 5 105 105 105 105 105 105 105
Millione of dollare     Multives of dollare     Multives and Doctmber 31, 2016     Adjustion of the accounting standard     Stock plane     Control of the accounting standard     Other transactions with hardpoolders     Total dividend and other transactions     Other transactions with hardpoolders     Total dividend and other transactions     Comprehensive tencome (loss):     Net income     Adjustion of these accounting standard     Comprehensive tencome (loss):     Net income     Pains adjustments:     The accounting standard     Realization     Defined benefit     Poins adjustments:     The approximation of the loss:     Net gain     Adjustion of these (loss):     Net gain     A	Common Shares Shares Stares (5 2,650)	Comp Paid-in Cagital in b Cagital in b C Par Value 5 1,659 63 5 1,752 	Tressey Shareholder Tressey Shareholder Stock \$ (1,577) - (1,374) - - - - - - - - - - - - -	n' Equity Retained Retained Retained Retained (314) (315,5008 (314) (314	Accumulated Other Comprehensive Incere (Loss) \$ (437)  - - - - - - - - - - - - - - - - -	Necessarial and a second secon	Total         5 7,445           20         5 7,465           (314)         166           167         (1,274)           29         (5)           (25)         (1,274)           (2,899)         (3)           3,556         1           (24)         5           105         165           105         164           (45)         271           3553         355	Millions of dollars Balance at December 31, 2006 Adoption of seva sourcing studied Adoption of seva sourcing studied Adoption for an experimental Book Path Book Path Book Path Tax borefit from excites of other transactions with hardrollders Other transactions with hardrollders Other transactions with hardrollders Comprehensive incorrect grant and Adoption of new accounting studied Comprehensive incorre (basi): Net incorre Defined benefit and other prosteriorment plans applications Poster and the studied of the studied in net incorre Defined benefit and other posteriorment Poster and the studied of the studied in net incore Defined benefit and other posteriorment Poster and the studied of the studied Net gain Metal incore in the studied of the studied in net incore Defined benefit and other posteriorment Poster and the studied benefit Adoption of new file studied benefit Adoption of new file studied benefit Adoption of new file studied benefit Adoption and the studied benefit and posteriorment plans (KBR, Inc., separation Defined benefit and other posteriorment plans applications of the studied benefit and posteriorment plans (KBR, Inc., separation Defined benefit and other posteriorment plans (KBR, Inc., separation Defined benefit and other posteriorment plans (KBR, Inc., separation Defined benefit and other studied benefit of the structure and the	Commos Shares Shares \$ 2,650 7 7 - - - - - - - - - - - - - - - - -	Compa Paid-in Capital in Ecipatian Ecipatian S 1,089 - 23 - 29 - 29 - 29 - 29 - 29 - 29 - 2	y Shareholde Treasury Stock \$ (1,577) - - - - - - - - - - - - -	Equity Equity Retained S 508 (014) (015) (019)	Accumulated Other Comprehensive Income (Loss) \$ (437) 	Nescentrelling Interest in Cossolidated shihidared 	Total \$ 7,445 300 (149) (1,574
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Figure 26. An example of file from Fintabnet-test [4] dataset, where our model failed to capture near accurate structure. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

	Years ended December 31		Yes	rs endec	Dece-1	er 31		Years a	nded Decemi	iber 31
Millions of dollars	2004 2003 2002	Millions of dollars	2004	2	003	2002	Millions of dollars	2004	003	2002
Depreciation, depletion, and amortization:		Depreciation, depletion, and amortization:					Depreciation, depletion, and amortization:			
Production Optimization	\$ 115 \$ 104 \$ 99	Production Optimization	\$ 115	5 \$	104	\$ 99	Production Optimization	\$ 115	\$ 104	\$ 99
Fluid Systems	60 50 48	Fluid Systems	6	0	50	48	Fluid Systems	60	50	48
Drilling and Formation Evaluation	115 144 137	Drilling and Formation Evaluation	115	5	144	137	Drilling and Formation Evaluation	115	144	137
Digital and Consulting Solutions	75 77 112	Digital and Consulting Solutions	71	5	77	112	Digital and Consulting Solutions	75	77	112
Shared Energy Services	91 92 79	Shared Energy Services	90	1	92	79	Shared Energy Services	91	92	79
Total Energy Services Group	456 467 475	Total Energy Services Group	450	6	467	475	Total Energy Services Group	456	467	475
Government and Infrastructure	27 22 11	Government and Infrastructure	2	7	22	11	Government and Infrastructure	27	22	11
Energy and Chemicals	11 16 17	Energy and Chemicals	1	1	16	17	Energy and Chemicals	11	16	17
Shared KBR	15 12 1	Shared KBR	1	5	12	1	Shared KBR	15	12	1
Total KBR	53 50 29	Total KBR	53	3	50	29	Total KBR	53	50	29
General corporate	- 1 1	General corporate		-	1	1	General corporate		1	1
Total	\$ 509 \$ 518 \$ 505	Total	\$ 508	9 \$	518	\$ 505	Total	\$ 509	\$ 518	\$ 505
Total assets:		 Total assets:					Total assets:	1. A		
Production Optimization	\$ 1,754 \$ 1,659 \$ 1,444	Production Optimization	\$ 1,75	4 \$ 1	1,659	\$ 1,444	Production Optimization	\$ 1,754	\$ 1,659	\$ 1,444
Fluid Systems	1,045 1,030 830	Fluid Systems	1,043	5 1	1,030	830	Fluid Systems	1,045	1,030	830
Drilling and Formation Evaluation	960 1,074 1,163	Drilling and Formation Evaluation	96	0 1	1,074	1,163	Drilling and Formation Evaluation	960	1,074	1,163
Digital and Consulting Solutions	768 794 1,320	Digital and Consulting Solutions	76	8	794	1,320	Digital and Consulting Solutions	768	794	1,320
Shared Energy Services	1,021 1,240 1,187	Shared Energy Services	1,02	1 1	1,240	1,187	Shared Energy Services	1,021	1,240	1,187
Total Energy Services Group	5,548 5,797 5,944	Total Energy Services Group	5,548	8 1	797	5,944	Total Energy Services Group	5,548	5,797	5,944
Government and Infrastructure	3,309 2,758 784	Government and Infrastructure	3,309	9 :	2,758	784	Government and Infrastructure	3,309	2,758	784
Energy and Chemicals	1,656 2,078 2,055	Energy and Chemicals	1,650	6 3	2,078	2,055	Energy and Chemicals	1,656	2,078	2,055
Shared KBR	198 246 265	Shared KBR	196	8	246	265	Shared KBR	198	246	265
Total KBR	5,163 5,082 3,104	Total KBR	5,163	3 5	5,082	3,104	Total KBR	5,163	5,082	3,104
General corporate	5,085 4,620 3,796	General corporate	5,083	5 0	620	3,796	General corporate	5,085	4,620	3,796
Total	\$15,796 \$15,499 \$12,844	Total	\$15,79	6 \$15	5,499	\$12,844	Total	\$15,796	\$15,499	\$ 2,844
Chanter				_		_				

Figure 27. An example of file from Fintabnet-test [4] dataset, where our model failed to capture near accurate structure. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

4.5	Third Supplemental Indoneses dated as of August 1, 1997 heroses Hallshurses and The Bank of New York Trate Computer, N.A. (as successes to Trans Commerce Bank National Association), as Treates, so the Second Sensie Indonese and as of Occounty 1, 1996 (account by information for Archive) 10-16 (or the year ended December 31, 1998, Fife No. 001-03482).	"	45	Theid Supplemental Indextons cannot as of August 1, 1997 Between Hatthoutnes and The Instea of New Yest. Their Company, N.A. (a) successor to Yean Commonly, Data Named Associations at Tanzer, to the Scient Tolener and and a set Department 11 Web recommended by reference to Foldel 4.7 in multihument Terry 16-4. For the year could December 71, 1998, 740, 746, 71697,	4.5	Third Supplemental Indentest dated as of August 1, 1997 hornees Hallburton and The Bank of New York True Computer, N.A. (as successer as Tecas Commercity Bank National Association), as Thesee, us the Social Sociale Indicense and an of December 10, 1996 (socialized by stolence to Echibit 4.7 to Hallburton's Form 19-K for the year ended December 31, 1998, File No. 401-03482).
45.	Fourth Supplemental Indontest data at of September 29, 1999 het ween Hallburton and The Etails of New York Train Company, N.A. to increase to Texas Commerce Bink National Associations, an Trainte, to the Second Steine Indontest and and a Disconduct 1, 1999. Giosponied by references in Edulatio 4.8 to Hallburton's Form 10-4. For the year ended December 31, 1998, File No. 001 403433	•	46	Foreth Supplemental Indoneses dated in all Superador 29, 1998 Network Hallsharen and The Barks of Net- York The Lee grows, NA, as a successor to Tool Construct Thank Network Associations in Transit, to the Sourcal Source Indoneses dated in all Construct. The Superamond to Associations in Transit, the IN- Ballborne's Network 100K for the year model Docember 11, 1998, Tile Net 100 (2012);	4.5	Fourth Supplemental Indenture dated as of September 29, 1998 hervaces Hallburton and The Bask of New York Trant Company, N.A. (in successor to Texas Company: Bank National Association, in Trantse, to the Socional Sensor Indention Adult on Information (Contemported In an Artisteria In Analysis) Ballburton's Form TERC for the year ended December 37, 1998, TBC No. 081-031493.
47	Resolutions of Hallburton's Board of Directors adopted by unanimous consent dated December 3, 1996 (incorporated by reference to Exhibits Agg) of Hallburton's Form 10-8, for the year ended December 31, 1996, File No. 001-01482).	ŀ	 47	Parallectors of Huldser, etc. ). Speed of Derectors adoption for assessments connect dated Derectors 1, 1996, The State of the optimum in Echleric Age of Huldser, Provided Three and Three of the State of The State (1997) 1997 (1997)	4.7	Basolutions of Hallbuston's Board of Directors adapted by unarimous consent dated December 5, 1996, incorporated by reference on Edubits Agg of Hallbuston's Poum 2016, for the year anded December 11, 1006, File No. 001-014/025.
4.8	Form of debt security of 6.75% Notes due February 1, 2027 (incorporated by reference to Exhibit 4.1 to Haliburium's Form 8-K dated as of February 11, 1997, File No. 001-054703.	<b>.</b>	48	Form of data security of 4 TSN, Native due P devices 1, 2022 incomposing the inference to involution 4 For Haldbooks V Form E.R. dated as of February 11, 1997, Feb No. 001:011015	4.8	Form of debt security of 6.75% Notes due February 1, 2027 (incorporated by reference to Exhibit 4.1 to Haliburtur's Form & K. dated as of February 11, 1997 [File No. 001-07492].
17	Copies of instruments that define the rights of helders of miscellaneous long-term notes of Haliburton Company and its subsidiaries have not been find with the Commission. Haliburton Company agrees in formeds opper, of these instruments upon rouges.	ŀ	40	Capter of instruments the define the right of helders of superfluences instruments and labbarran Company and its unbalances are not low for four with the Communication Unbilatenter Company aggres to Thematic represent of these mentioned inspires reports.	43	Copies of instruments that define the rights of helders of miscellaneous long-arm sets: of Haliburton Company, and its physiolatrics have and local field with the Commission, Haliburton Company, and too the instruments piper rights?
4.10	Form of debt security of 7.53% Notes due May 12, 2017 (incorporated by reference to Exhibit 4.4 to Haliburner's Form 10-Q for the quarter ended March 31, 1997; File No. 001-031873.	••	4.10	Press of data security of 7.15%, Name data Mar. (1), X17 (security and the extension to Feddule 4.4 to Rabits and Yorks (2007) for the quarter cash, March 11, 1997, Fair No. 001-014923	4.99	From of debt security of 7.53% Notes due May 12, 20 Naliburtur's Form In-Q for the quarter edge Match H, 1997, File No. 001-014975.
4.11	From of Indextoner dated as of April 18, 1996 heries no. Desseer and The Bank of New York Treat Company, N.A. as moreover to lives i Commerce final National Association as "Invest Componented by reference 303-403 heries and the April 1996 heries and the April 1996 heries and the April 1996 1937-4037 heries and The Bank of York York That Company, N.A. in associate to Krast Commerce 1996 heries Dessein and The Bank of York York That Company, N.A. in associate to Krast Commerce 1996 heries Dessein and The Bank of York York That Company, N.A. in associate to Krast Commerce to Desseir V Farence ARE and a supervised to Provide The State Mark of the State State On Desseir V Farence ARE and April 1997 heries (1400).	ŀ	411	From of Table sizes final and April TA. 1996 Springer 20 Design and The Table of New York Theor Compose C. C. C. Hard, S. S. Hard, S. H	411	From of backness data of a dgell (B. 1998) however, beneze and The Back of New York Trand Company, N.Y. (2019) compared by Total Company, Back Valence Absorbances as Transes resequences by Profiles to 10.5 (2017), as specified and an exter data of the Total Company, N.Y. (2019) compared by Profiles to 10.5 (2017), as specified and an exter data of the Total Company, N.Y. (2010) compared by Profiles to 10.5 (2017), as specified and an exter data of the Total Company, N.Y. (2010) compared by Profiles to 10.5 (2017), as specified and an exter data of the Total Company, N.Y. (2010) compared by Profiles to 10.5 (2011) (2011) compared by Profiles to 10.5 (2011) compared by Profiles to 10.5 (2011) (2011) compared by Profiles to 10.5 (2011) compared by Profiles to 10.5 (2011) (2011) compared by Profiles to 10.5 (2011) compared by Profiles to 10.5 (2011) (2011) compared by Profiles to 10.5 (2011) compared by Profiles to 10.5 (2011) compared by Profiles to 10.5 (2011) (2011) compared by Profiles to 10.5 (2011) compared by Profiles t
4.12	Second Supplemental Indenture dated as of October 27, 2003 here-cen DH Industries, LLZ and The Bank of New York Tran Company, N.A. (as successed to 2PMorpan Clase Bank), as Tratec, to the Indenture dated as of April 18, 1996 (incorporate) by reference to Exhibit 4.15 to Halibustor's Form 104K, for the year ended December 31, 2003, Feb No. 00 (2014)).	ŀ	4,12	Scored Supplemental Informery dated as of October 27, 394 Februara DEI Informers LLC, and The Bank of New York Trans Company, N.X. (as inccessor in PMA-part Chard Bank) as Tranke, in N. Informers dated as of April 19, 1997, increasing on the State 1, 19, or Balkwaras Term 16, 5, for the year ended December 17, 2007, Tay Sca. (2017) 1202, 20	4.12	Second Supplemental Indexture dated as of Ocoher 27, 2001 herisoen [24] Industries, LLC and The Burk of New York Trust Company, N.A. (as successor to IPM-Appan Chase Data), as Truster, to the Industrate dated as of April 18, 1996 (incorporated by reference to Irabible 4.15 to Hallburkon's Poron 1945; for the your ended Docomber 37, 2007; W.P. No. (III 1947).
4.13	Third Supplemental Indenture dated as of December 12, 2003 among DH Industries, LLC, Hallburton Compare and The Bask of New York Tran Company, N.A. (as successor to IPMorgan Claser Bask), as Transe, to the Industries dated as of April 18, 1996, incorporated by reference to Exhibit 4.56 to Hallburton's Permi 20-K for the year ended December 11, 2007, 1496, 400, 164 (Hz).	ŀ	415	Their Supplemental Indexture due of these ther 12, 300 among DI Indextures, LLC, Hall-barres, Company, and The Ball of New York That Company WA. In an excitant in PMMerger Charc Ball, an Teners, as for indexed and and April 31, 756, Incompanies for interaction of while 4.16 an Editbertory From IR-5. Kit in practical Decouver 12, 300, Yuk 2004 (0.187);	4.13	Third Supplemental Indentest dated as of Dependent 1, 2003 among DHI Industries, LLC, Halibuston Company and The Basik of New York Treat Company, N.A. (as successor to IPMorgan Chare Basik), as Tranker, in the Indenteue dated as of April 18, 1996, pioceporated for informate to Exhibit 4.19 to Halibuston's Parami DA (dis frequere and Dependence 14, 2004), Fill (2004) eXiII (2014).
4.34	Indentine dated in of October 17, 2003 between Hollburton Company, and The Rook of New York Treat Company, NA, tas successor to (PMstegan Chase Bank), as Treater (acceptance) by reference to Exhibit 4.1 to Hallburton's Form 19-Q for the quarker ended September 30, 2003, File Na. 005-0147(5).	ŀ	414	Indextors also a 30 October 17, 2009 here one Mathematic Company and The Heads of New York, Tana Company, N. K. dar na second at 19 Margin Chair Back, at Trainer composited by inference in Table 137 in Plac Meater's Form 10-1976 the quarker outual September 30, 2007, Plac New 00764392.	4.14	Indentitie dated as of October 17, 2001 between Halillanton Company and The Rask of New York Timat Company, N.A., as successes to 20Metant Chard Barlel, as Trainie (incremented by selevance to Exhibit 4.1 to Halillanton v Form 11-Q for the quarter coded September 30, 2001, Fac No. 002-014970.
4.15	Second Supplemental Indentary dated as of December 11, 2001 between Haliburtus Company, and The Rusk, of New York Touri Company, N.A. (as sociated in Phargan Chain Hash), as Transe, so the Societ Industant and as of Charles 11, 2001 (responsible Statistics to Echlober 4.27 to Haliburney's Form 10-K for the year ended December 31, 2000, File No. 900-41492).	•	415	Second Supplemental Indianes: dated as of December 19, 2000 Intervent Hallmarker Company and The Back driver Field That Company XX to execute an ePhotogen Chen Fanit, as Tentes, to the second stand as Stated as of COMPUTE 7, 2007 Research by Colores on Tables (27% Hallmarker From 1957) for the year called December 17, 2009 Research by Colores on Tables (27% Hallmarker From 1957) for the year called December 17, 2009 Research by Colores on Tables (27% Hallmarker From 1957).	4.15	Second Supplemental Indexture dated as of December 17, 2015 hetween Hallburtes Company, and The Rask, of New York Tsue Company, N.A. Ice sociences to IPMergan Chard Banki, as Trusto, to the Second Indexture dated as of Chardren 17, 2001 concernably information in Exhibit 4.27 to Hallburtee's Form 10-K for the year ended December 31, 2000, File No. 001414923.
4.36	Form of note of 7.6% determines due 20% (included as Exhibit A to Exhibit 4.15 above).		4 16	Ferm of non of 7.0% differences due 20% (included as Eshibit A to Eshibit 4.35 aboves	4.86	Form of new of 7.6% determines due 20% (included as Eshibit A to Exhibit 4.15 above).

Figure 28. An example of file from Fintabnet-test [4] dataset, where our model failed to capture near accurate structure. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

		Fiscal Year	s Ended Sej	ptember 30,				
		2009	2008	2007		_	-	_
Risk-free interest rate		1.82% to 2.68%	4.13%	4.41% to 4.86%				
Expected life of options		6 years	4 years	4 years				
Expected dividend yield of stock		_	-	_				
Expected volatility of stock		35%	30%	30%				
	-		-					
		Fiscal Year	s Ended Se	ptember 30,		Fiscal Year	s Ended Se	ntember 30,
		Fiscal Year 2009	s Ended Se 2008	ptember 30, 2007		Fiscal Year 2009	s Ended Ser 2008	2007
Risk-free interest rate		Fiscal Year 2009 1.82% to 2.68%	Ended Sep 2008 4.13%	2007 4.41% to 4.86%	Risk-free interest rate	 Fiscal Year 2009 1.82% to 2.68%	2008 4.13%	2007 4.41% to 4.86%
Risk-free interest rate Expected life of options		Fiscal Year 2009 1.82% to 2.68% 6 years	Ended Sep 2008 4.13% 4 years	tember 30, 2007 4.41% to 4.86% 4 years	Risk-free interest rate	 Fiscal Year 2009 1.82% to 2.68% 6 years	2008 4.13% 4 years	2007 4.41% to 4.86% 4 years
Risk-free interest rate		Fiscal Year 2009 1.82% to 2.68% 6 years	Ended Sep 2008 4.13% 4 years —	2007 4.41% to 4.86% 4 years	Risk-free interest rate	 Fiscal Year 2009 1.82% to 2.68% 6 years —	2008 2008 4.13% 4 years —	2007 4.41% to 4.86% 4 years —

Figure 29. An example of file from Fintabnet-test [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

		Fiscal	Years Ended Septembe	er 30,				
		2016	2015	2014				
Risk-free interest rate		1.33% to 1.73%	1.33% to 1.64%	1.71% to 2.03%				
Expected life of options		5 years	5 years	6 years				
Expected dividend yield of stock		-	-	-				
Expected volatility of stock	• •	25%	35%	35%				
			· · · · · · · · · · · · · · · · · · ·					
		Fiscal	Years Ended Septembe	er 30,		Fisca	Years Ended Septemb	er 30,
		Fiscal 2016	Years Ended Septembe 2015	er 30, 2014		Fisca 2016	Years Ended Septemb 2015	er 30, 2014
Risk-free interest rate		Fiscal 2016 1.33% to 1.73%	Years Ended Septembe 2015 1.33% to 1.64%	<b>2014</b> 1.71% to 2.03%	Risk-free interest rate	 Fisca 2016 1.33% to 1.73%	2015 1.33% to 1.64%	er 30, 2014 1.71% to 2.03%
Risk-free interest rate Expected life of options		Fiscal 2016 1.33% to 1.73% 5 years	Years Ended Septembe 2015 1.33% to 1.64% 5 years	r 30, 2014 1.71% to 2.03% 6 years	Risk-free interest rate Expected life of options	 Fisca 2016 1.33% to 1.73% 5 years	Years Ended Septemb 2015 1.33% to 1.64% 5 years	er 30, 2014 1.71% to 2.03% 6 years
Risk-free interest rate Expected life of options Expected dividend yield of stock		Fiscal 2016 1.33% to 1.73% 5 years	Years Ended September 2015 1.33% to 1.64% 5 years	2014 1.71% to 2.03% 6 years	Risk-free interest rate Expected life of options Expected dividend yield of stock	 Fisca 2016 1.33% to 1.73% 5 years	Years Ended Septemb           2015           1.33% to 1.64%           5 years	er 30, 2014 1.71% to 2.03% 6 years —

Figure 30. An example of file from Fintabnet-test [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.

Location	Products Manufactured	Segment	Approximate Area (Sq. Feet)	_		_	
Mississauga, Canada <sup>(6)</sup>	-	Consumer International	123,000				
Folkestone, England()	1	Consumer International	78,500				
Revel, France	1- 1	Consumer International	35,500				
Mexico City, Mexico	]	Consumer International	27,500				
Sydney, Australia	-	Consumer International	24,900				
Feira de Santana, Bahia,							
Brazil	-	SPD	21,700				
Langley, British Columbia <sup>(3)</sup>	-	Consumer International	6,300				
Offices							
Levallois, France	-	Consumer International	21,600				
Mississauga, Canada	-	Consumer International	17,000				
Folkestone, England <sup>(8)</sup>	-	Consumer International	11,000				
Dover, England	-	Consumer International	9,400				
Location	Products Manufactured	Segment	Approximate Area (Sq. Feet)	Location	Products Manufactured	Segment	Approximate Area (Sq. Feet)
Location Mississauga, Canada <sup>(6)</sup>	Products Manufactured	Segment Consumer International	Approximate Area (Sq. Feet) 123,000	Location Mississauga, Canada®	Products Manufactured	Segment Consumer International	Approximate Area (Sq. Feet) 123.000
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup>	Products Manufactured	Segment Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500	Location Mississanga, Canada® Folkestone, England®	Products Manufactured	Segment Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France	Products Manufactured	Segment Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500	Location Mississauga, Canadat® Folkestone, England <sup>(7)</sup> Revel, France	Products Manufactured	Segment Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico	Products Manufactured   	Segment Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500	Location Mississauga, Canadatty Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico	Products Manufactured	Segment Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia	Products Manufactured — — — — — — — —	Segment Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900	Location Mississunga, Canadaffi Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Feira de Santana, Babia,	Products Manufactured 	Segment Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900	Location Mississauga, Canadath Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Feira de Santana, Dahia,	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia  Feira de Santana, Bahia, Brazi	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International Consumer International SPD	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700	Location Mississauga, Canadatti Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Feirr de Sumtana, Dahia, Brazil	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700
Location Mississauga, Canada <sup>(0)</sup> Fölkestone, England <sup>(2)</sup> Revel, France Mexico City, Mexico Sydmey, Australia Peira de Santana, Bahia, Brazil Langley, British Columbia <sup>(2)</sup> .	Products Manufactured 	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 	Location Mississanga, Canadath Folkestone, England <sup>(7)</sup> , Revel, France. Mexico City, Mexico Sydney, Austina, Baida, Brazil Brazil Langley, British Columbia <sup>(9)</sup>	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Feira de Santana, Bahia, Brazil Langley, British Columbia <sup>(2)</sup> . Offices	Products Manufactured       	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300	Location Mississauga, Canadath Folkestone, England <sup>70</sup> Revel, France Mexico City, Mexico Sydney, Australia Frira de Santana, Bahia, Brazil Langley, British Columbia <sup>(9)</sup> -Offices	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico, City, Mexico Sydney, Australia Peira de Santana, Bahia, Brazil Langley, British Columbia <sup>(2)</sup> <i>Offices</i> Levallois, France	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International	Approximate Area (5q. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300 21,600	Location Missicsauga, Canadatti Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Peira de Santana; Dahia, Brazil Langley, British Columbia <sup>(3)</sup> Offices Levallois, France	Products Manufactured	Segnent Consumer International Consumer International Consumer International Consumer International SPD Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300 21,600
Location Mississauga, Canada <sup>(6)</sup>	Products Manufactured 	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300 21,600 17,000	Location Mississauga, Canadath Folkestone, England <sup>10</sup> Revel, France Mexico City, Mexico Sydney, Australia – Prira de Santana, Bahia, Brazi Langley, British Columbia <sup>(1)</sup> – Offices Levallois, France – Mexissang, Canada	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 24,900 6,300 21,600 17,000
Location Mississauga, Canada <sup>(6)</sup> Folkestone, England <sup>(7)</sup> Revel, France Mexico, City, Mexico Sydney, Australia Brazil Brazil Langley, British Columbia <sup>(2)</sup> Offices Levallois, France Mississauga, Canada Folkestone, England <sup>(3)</sup>	Products Manufactured	Segment Consumer International Consumer International Consumer International Consumer International SPD Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feed) 123,000 78,500 35,500 27,500 24,900 21,700 6,300 21,600 17,000 11,000	Location Mississanga, Canadatti Folkestone, England <sup>(7)</sup> Revel, France Mexico City, Mexico Sydney, Australia Brazil Langley, British Columbia <sup>(3)</sup> Offices Levallois, France Mississang, Canada Folketone, England <sup>(3)</sup>	Products Manufactured	Segnent Consumer International Consumer International Consumer International Consumer International SPD Consumer International Consumer International Consumer International Consumer International	Approximate Area (Sq. Feet) 123,000 78,500 35,500 27,500 24,900 21,700 6,300 21,600 17,000 11,000

Figure 31. An example of file from Fintabnet-test [4] dataset which is incorrectly annotated. Reading order of images proceeds from left to right and then to the next row. First image shows the original annotation, second image shows the masked image, third image shows the approximated table grid, and fourth image shows the output of TabGuard.