Devon US

Delaware Basin
Sec 18-25S-32E_Non TRAC
Cotton Draw Unit 284H

Original Hole

HOBBS OCD
MAR 13 2017
RECEIVED

Plan: Plan_1

Standard Planning Report

23 June, 2016

Database:	EDM r5000 US Production	**Local Co-ordinate Reference:**	Well Cotton Draw Unit 284H
Company:	Devon US	**TVD Reference:**	KB @ 3438.60ft
Project:	Delaware Basin	**MD Reference:**	KB @ 3438.60ft
Site:	Sec 18-25S-32E_Non TRAC	**North Reference:**	Grid
Well:	Cotton Draw Unit 284H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan_1		

Project	Delaware Basin		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 18-25S-32E_Non TRAC				
Site Position:		**Northing:**	414,320.16 usft	**Latitude:**	32.137574
From:	Map	**Easting:**	730,250.42 usft	**Longitude:**	-103.723006
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.32 °

Well	Cotton Draw Unit 284H					
Well Position	**+N/-S**	-530.00 ft	**Northing:**	413,790.16 usft	**Latitude:**	32.136090
	+E/-W	1,690.00 ft	**Easting:**	731,940.41 usft	**Longitude:**	-103.717556
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	3,413.60 ft

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,850.00	0.00	0.00	4,850.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,611.63	7.62	90.00	5,609.39	0.00	50.55	1.00	1.00	0.00	90.00	
9,142.00	7.62	90.00	9,108.61	0.00	518.45	0.00	0.00	0.00	0.00	
9,903.63	0.00	0.00	9,868.00	0.00	569.00	1.00	-1.00	0.00	180.00	
9,904.63	0.10	0.00	9,869.00	0.00	569.00	10.00	10.00	0.00	0.00	
10,803.74	90.01	0.00	10,440.96	573.07	569.04	10.00	10.00	0.00	0.00	
15,760.46	90.01	0.00	10,440.00	5,529.79	569.40	0.00	0.00	0.00	0.00	BHL_CDU284H

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Well:	Cotton Draw Unit 284H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan_1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,850.00	0.00	0.00	4,850.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.50	90.00	4,900.00	0.00	0.22	0.02	1.00	1.00	0.00
5,000.00	1.50	90.00	4,999.98	0.00	1.96	0.20	1.00	1.00	0.00
5,100.00	2.50	90.00	5,099.92	0.00	5.45	0.56	1.00	1.00	0.00
5,200.00	3.50	90.00	5,199.78	0.00	10.69	1.09	1.00	1.00	0.00

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Site:	Sec 18-25S-32E_Non TRAC	**North Reference:**	Grid
Well:	Cotton Draw Unit 284H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan_1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	4.50	90.00	5,299.54	0.00	17.66	1.81	1.00	1.00	0.00
5,400.00	5.50	90.00	5,399.16	0.00	26.38	2.70	1.00	1.00	0.00
5,500.00	6.50	90.00	5,498.61	0.00	36.83	3.77	1.00	1.00	0.00
5,600.00	7.50	90.00	5,597.86	0.00	49.02	5.02	1.00	1.00	0.00
5,611.63	7.62	90.00	5,609.39	0.00	50.55	5.18	1.00	1.00	0.00
5,700.00	7.62	90.00	5,696.98	0.00	62.26	6.38	0.00	0.00	0.00
5,800.00	7.62	90.00	5,796.10	0.00	75.51	7.73	0.00	0.00	0.00
5,900.00	7.62	90.00	5,895.22	0.00	88.77	9.09	0.00	0.00	0.00
6,000.00	7.62	90.00	5,994.33	0.00	102.02	10.45	0.00	0.00	0.00
6,100.00	7.62	90.00	6,093.45	0.00	115.27	11.81	0.00	0.00	0.00
6,200.00	7.62	90.00	6,192.57	0.00	128.53	13.16	0.00	0.00	0.00
6,300.00	7.62	90.00	6,291.69	0.00	141.78	14.52	0.00	0.00	0.00
6,400.00	7.62	90.00	6,390.80	0.00	155.04	15.88	0.00	0.00	0.00
6,500.00	7.62	90.00	6,489.92	0.00	168.29	17.24	0.00	0.00	0.00
6,600.00	7.62	90.00	6,589.04	0.00	181.54	18.60	0.00	0.00	0.00
6,700.00	7.62	90.00	6,688.16	0.00	194.80	19.95	0.00	0.00	0.00
6,800.00	7.62	90.00	6,787.28	0.00	208.05	21.31	0.00	0.00	0.00
6,900.00	7.62	90.00	6,886.39	0.00	221.30	22.67	0.00	0.00	0.00
7,000.00	7.62	90.00	6,985.51	0.00	234.56	24.03	0.00	0.00	0.00
7,100.00	7.62	90.00	7,084.63	0.00	247.81	25.38	0.00	0.00	0.00
7,200.00	7.62	90.00	7,183.75	0.00	261.07	26.74	0.00	0.00	0.00
7,300.00	7.62	90.00	7,282.86	0.00	274.32	28.10	0.00	0.00	0.00
7,400.00	7.62	90.00	7,381.98	0.00	287.57	29.46	0.00	0.00	0.00
7,500.00	7.62	90.00	7,481.10	0.00	300.83	30.81	0.00	0.00	0.00
7,600.00	7.62	90.00	7,580.22	0.00	314.08	32.17	0.00	0.00	0.00
7,700.00	7.62	90.00	7,679.34	0.00	327.33	33.53	0.00	0.00	0.00
7,800.00	7.62	90.00	7,778.45	0.00	340.59	34.89	0.00	0.00	0.00
7,900.00	7.62	90.00	7,877.57	0.00	353.84	36.24	0.00	0.00	0.00
8,000.00	7.62	90.00	7,976.69	0.00	367.10	37.60	0.00	0.00	0.00
8,100.00	7.62	90.00	8,075.81	0.00	380.35	38.96	0.00	0.00	0.00
8,200.00	7.62	90.00	8,174.92	0.00	393.60	40.32	0.00	0.00	0.00
8,300.00	7.62	90.00	8,274.04	0.00	406.86	41.67	0.00	0.00	0.00
8,400.00	7.62	90.00	8,373.16	0.00	420.11	43.03	0.00	0.00	0.00
8,500.00	7.62	90.00	8,472.28	0.00	433.36	44.39	0.00	0.00	0.00
8,600.00	7.62	90.00	8,571.40	0.00	446.62	45.75	0.00	0.00	0.00
8,700.00	7.62	90.00	8,670.51	0.00	459.87	47.10	0.00	0.00	0.00
8,800.00	7.62	90.00	8,769.63	0.00	473.13	48.46	0.00	0.00	0.00
8,900.00	7.62	90.00	8,868.75	0.00	486.38	49.82	0.00	0.00	0.00
9,000.00	7.62	90.00	8,967.87	0.00	499.63	51.18	0.00	0.00	0.00
9,100.00	7.62	90.00	9,066.98	0.00	512.89	52.53	0.00	0.00	0.00
9,142.00	7.62	90.00	9,108.61	0.00	518.45	53.10	0.00	0.00	0.00
9,200.00	7.04	90.00	9,166.14	0.00	525.85	53.86	1.00	-1.00	0.00
9,300.00	6.04	90.00	9,265.49	0.00	537.23	55.03	1.00	-1.00	0.00
9,400.00	5.04	90.00	9,365.02	0.00	546.88	56.02	1.00	-1.00	0.00
9,500.00	4.04	90.00	9,464.71	0.00	554.79	56.83	1.00	-1.00	0.00
9,600.00	3.04	90.00	9,564.52	0.00	560.96	57.46	1.00	-1.00	0.00
9,700.00	2.04	90.00	9,664.42	0.00	565.38	57.91	1.00	-1.00	0.00
9,800.00	1.04	90.00	9,764.38	0.00	568.06	58.19	1.00	-1.00	0.00
9,903.63	0.00	0.00	9,868.00	0.00	569.00	58.28	1.00	-1.00	0.00
9,904.63	0.10	0.00	9,869.00	0.00	569.00	58.28	10.00	10.00	0.00
9,950.00	4.64	0.00	9,914.32	1.88	569.00	60.15	10.00	10.00	0.00
10,000.00	9.64	0.00	9,963.92	8.09	569.00	66.33	10.00	10.00	0.00
10,050.00	14.64	0.00	10,012.79	18.60	569.00	76.78	10.00	10.00	0.00
10,100.00	19.64	0.00	10,060.55	33.32	569.00	91.43	10.00	10.00	0.00

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Site:	Sec 18-25S-32E_Non TRAC	**North Reference:**	Grid
Well:	Cotton Draw Unit 284H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan_1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,150.00	24.64	0.00	10,106.85	52.16	569.00	110.17	10.00	10.00	0.00
10,200.00	29.64	0.00	10,151.33	74.96	569.01	132.85	10.00	10.00	0.00
10,250.00	34.64	0.00	10,193.66	101.55	569.01	159.30	10.00	10.00	0.00
10,300.00	39.64	0.00	10,233.50	131.72	569.01	189.31	10.00	10.00	0.00
10,350.00	44.64	0.00	10,270.57	165.26	569.01	222.67	10.00	10.00	0.00
10,400.00	49.64	0.00	10,304.57	201.90	569.01	259.12	10.00	10.00	0.00
10,450.00	54.64	0.00	10,335.25	241.36	569.02	298.37	10.00	10.00	0.00
10,500.00	59.64	0.00	10,362.37	283.34	569.02	340.14	10.00	10.00	0.00
10,550.00	64.64	0.00	10,385.73	327.53	569.02	384.09	10.00	10.00	0.00
10,600.00	69.64	0.00	10,405.15	373.59	569.03	429.91	10.00	10.00	0.00
10,650.00	74.64	0.00	10,420.49	421.16	569.03	477.23	10.00	10.00	0.00
10,700.00	79.64	0.00	10,431.61	469.89	569.03	525.71	10.00	10.00	0.00
10,750.00	84.64	0.00	10,438.45	519.41	569.04	574.96	10.00	10.00	0.00
10,803.74	90.01	0.00	10,440.96	573.07	569.04	628.34	10.00	10.00	0.00
10,900.00	90.01	0.00	10,440.94	669.33	569.05	724.10	0.00	0.00	0.00
11,000.00	90.01	0.00	10,440.92	769.33	569.06	823.57	0.00	0.00	0.00
11,100.00	90.01	0.00	10,440.90	869.33	569.06	923.05	0.00	0.00	0.00
11,200.00	90.01	0.00	10,440.88	969.33	569.07	1,022.52	0.00	0.00	0.00
11,300.00	90.01	0.00	10,440.86	1,069.33	569.08	1,122.00	0.00	0.00	0.00
11,400.00	90.01	0.00	10,440.84	1,169.33	569.09	1,221.47	0.00	0.00	0.00
11,500.00	90.01	0.00	10,440.82	1,269.33	569.09	1,320.95	0.00	0.00	0.00
11,600.00	90.01	0.00	10,440.81	1,369.33	569.10	1,420.42	0.00	0.00	0.00
11,700.00	90.01	0.00	10,440.79	1,469.33	569.11	1,519.89	0.00	0.00	0.00
11,800.00	90.01	0.00	10,440.77	1,569.33	569.11	1,619.37	0.00	0.00	0.00
11,900.00	90.01	0.00	10,440.75	1,669.33	569.12	1,718.84	0.00	0.00	0.00
12,000.00	90.01	0.00	10,440.73	1,769.33	569.13	1,818.32	0.00	0.00	0.00
12,100.00	90.01	0.00	10,440.71	1,869.33	569.14	1,917.79	0.00	0.00	0.00
12,200.00	90.01	0.00	10,440.69	1,969.33	569.14	2,017.27	0.00	0.00	0.00
12,300.00	90.01	0.00	10,440.67	2,069.33	569.15	2,116.74	0.00	0.00	0.00
12,400.00	90.01	0.00	10,440.65	2,169.33	569.16	2,216.22	0.00	0.00	0.00
12,500.00	90.01	0.00	10,440.63	2,269.33	569.17	2,315.69	0.00	0.00	0.00
12,600.00	90.01	0.00	10,440.61	2,369.33	569.17	2,415.17	0.00	0.00	0.00
12,700.00	90.01	0.00	10,440.59	2,469.33	569.18	2,514.64	0.00	0.00	0.00
12,800.00	90.01	0.00	10,440.57	2,569.33	569.19	2,614.12	0.00	0.00	0.00
12,900.00	90.01	0.00	10,440.55	2,669.33	569.20	2,713.59	0.00	0.00	0.00
13,000.00	90.01	0.00	10,440.53	2,769.33	569.20	2,813.07	0.00	0.00	0.00
13,100.00	90.01	0.00	10,440.51	2,869.33	569.21	2,912.54	0.00	0.00	0.00
13,200.00	90.01	0.00	10,440.50	2,969.33	569.22	3,012.02	0.00	0.00	0.00
13,300.00	90.01	0.00	10,440.48	3,069.33	569.22	3,111.49	0.00	0.00	0.00
13,400.00	90.01	0.00	10,440.46	3,169.33	569.23	3,210.97	0.00	0.00	0.00
13,500.00	90.01	0.00	10,440.44	3,269.33	569.24	3,310.44	0.00	0.00	0.00
13,600.00	90.01	0.00	10,440.42	3,369.33	569.25	3,409.92	0.00	0.00	0.00
13,700.00	90.01	0.00	10,440.40	3,469.33	569.25	3,509.39	0.00	0.00	0.00
13,800.00	90.01	0.00	10,440.38	3,569.33	569.26	3,608.87	0.00	0.00	0.00
13,900.00	90.01	0.00	10,440.36	3,669.33	569.27	3,708.34	0.00	0.00	0.00
14,000.00	90.01	0.00	10,440.34	3,769.33	569.28	3,807.81	0.00	0.00	0.00
14,100.00	90.01	0.00	10,440.32	3,869.33	569.28	3,907.29	0.00	0.00	0.00
14,200.00	90.01	0.00	10,440.30	3,969.33	569.29	4,006.76	0.00	0.00	0.00
14,300.00	90.01	0.00	10,440.28	4,069.33	569.30	4,106.24	0.00	0.00	0.00
14,400.00	90.01	0.00	10,440.26	4,169.33	569.31	4,205.71	0.00	0.00	0.00
14,500.00	90.01	0.00	10,440.24	4,269.33	569.31	4,305.19	0.00	0.00	0.00
14,600.00	90.01	0.00	10,440.22	4,369.33	569.32	4,404.66	0.00	0.00	0.00
14,700.00	90.01	0.00	10,440.21	4,469.33	569.33	4,504.14	0.00	0.00	0.00
14,800.00	90.01	0.00	10,440.19	4,569.33	569.33	4,603.61	0.00	0.00	0.00

Database:	EDM r5000 US Production	**Local Co-ordinate Reference:**	Well Cotton Draw Unit 284H
Company:	Devon US	**TVD Reference:**	KB @ 3438.60ft
Project:	Delaware Basin	**MD Reference:**	KB @ 3438.60ft
Site:	Sec 18-25S-32E_Non TRAC	**North Reference:**	Grid
Well:	Cotton Draw Unit 284H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan_1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.00	90.01	0.00	10,440.17	4,669.33	569.34	4,703.09	0.00	0.00	0.00
15,000.00	90.01	0.00	10,440.15	4,769.33	569.35	4,802.56	0.00	0.00	0.00
15,100.00	90.01	0.00	10,440.13	4,869.33	569.36	4,902.04	0.00	0.00	0.00
15,200.00	90.01	0.00	10,440.11	4,969.33	569.36	5,001.51	0.00	0.00	0.00
15,300.00	90.01	0.00	10,440.09	5,069.33	569.37	5,100.99	0.00	0.00	0.00
15,400.00	90.01	0.00	10,440.07	5,169.33	569.38	5,200.46	0.00	0.00	0.00
15,500.00	90.01	0.00	10,440.05	5,269.33	569.39	5,299.94	0.00	0.00	0.00
15,600.00	90.01	0.00	10,440.03	5,369.33	569.39	5,399.41	0.00	0.00	0.00
15,700.00	90.01	0.00	10,440.01	5,469.33	569.40	5,498.89	0.00	0.00	0.00
15,760.46	90.01	0.00	10,440.00	5,529.79	569.40	5,559.03	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL_CDU284H - plan hits target center - Point	0.00	0.01	10,440.00	5,529.79	569.40	419,319.94	732,509.82	32.151281	-103.715614

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
9,904.63	9,869.00	0.00	0.00	KOP
15,760.46	10,440.00	0.00	50.55	TD