

# ATA - Automated Trip Analysis

## ATA – Automated Tracking During Tripping

Manually keeping track of gains, losses and drag per stand is both time-consuming and potentially inaccurate, particularly when done for multiple stands. Values have to be exported by hand into excel sheets and abnormalities per stand or number of stands, must be monitored manually as well.

Now, with the Automated Trip Analysis tool (ATA), the entire process is automated, allowing you to work faster and more accurately on every stand in real-time.

### Benefits:

- ⬢ Saves up to 95% of the time it takes to maintain a trip sheet
- ⬢ Calculates gains/losses per stand as well as keeps track of the cumulative gain/loss throughout the run
- ⬢ Increases accuracy while enabling faster resolution of abnormalities
- ⬢ Reduces cost
- ⬢ Works with Petrolink's MBE (Manage-By-Exception) tool

### Visualize Calculated Values in Real-Time

For the first time, you can visualize calculated values such as displacement, running speed, hookload of the drill string and when tripping in and/or tripping out using the Trip Tank and/or the Active System. ATA also automatically calculates the costs of connections and performance during a specified trip/run.



ATA immediately tells you how much time it took VS the estimated time.



# ATA - Automated Trip Analysis

Count	Trip Status	Pipe Size (inch)	Pipe Wt (lb/ft)	Theo. Disp	Active Tank	Start Volume (bbbl)	End Volume (bbbl)	Actual Disp.	Calc Disp.	G/L	Cumulative...	Comments	Start Depth (ft)	End Depth (ft)
30	Trip Out	8.625	32.00	0.0236	AT 1	31.69	27.96	3.73	1.99	-0.75	28.3		11896.90	11770
31	Trip Out	8.625	32.00	0.0236	AT 1	91.94	91.71	0.23	1.98	-0.84	29.8		11770.30	11644
32	Trip Out	8.625	32.00	0.0236	AT 1	58.65	57.83	0.82	2.01	-0.75	30.3		11643.64	11517
33	Trip Out	8.625	32.00	0.0236	AT 1	14.48	13.16	1.32	2.14	-0.86	31.4		11516.70	11381
34	Trip Out	8.625	32.00	0.0236	AT 1	42.14	39.98	2.16	1.99	-0.23	31.6		11380.66	11254
35	Trip Out	8.625	32.00	0.0236	AT 1	14.94	13.31	1.63	1.98	-1.69	21.4		12914.68	12789
36	Trip Out	8.625	32.00	0.0236	AT 1	19.46	16.81	2.65	2.01	-1.41	22.8		12788.65	12662
37	Trip Out	8.625	32.00	0.0236	AT 1	34.68	33.16	1.52	2.14	-0.79	23.5		12662.03	12535
38	Trip Out	8.625	32.00	0.0236	AT 1	83.13	81.44	1.69	1.99	-1.05	23.6		12534.50	12407
39	Trip Out	8.625	32.00	0.0236	AT 1	93.73	91.79	1.94	1.98	-0.93	23.9		12407.23	12280
40	Trip Out	8.625	32.00	0.0236	AT 1	90.23	87.39	2.84	2.01	-1.01	26.5		12280.28	12153
41	Trip Out	8.625	32.00	0.0236	AT 1	60.82	58.65	2.17	2.00	-0.96	27.5		12152.64	12025
42	Trip Out	8.625	32.00	0.0236	AT 1	95.32	93.05	2.27	1.99	-0.67	28.2		12025.48	11897
43	Trip Out	8.625	32.00	0.0236	AT 1	58.84	57.06	1.78	1.98	-0.89	28.7		11897.83	11727
44	Trip Out	8.625	32.00	0.0236	AT 1	25.17	21.52	3.65	2.00	-1.03	29.1		11727.32	11600
45	Trip Out	8.625	32.00	0.0236	AT 1	98.27	96.79	1.48	2.14	-0.92	29.8		11600.25	10873
46	Trip Out	8.625	32.00	0.0236	AT 1	44.78	42.64	2.14	1.99	-0.90	27.9		10873.28	10745
47	Trip Out	6.625	28.00	0.0257	AT 1	62.16	59.22	2.94	1.98	-1.22	21.4		10231.71	10106
48	Trip Out	6.625	28.00	0.0257	AT 1	79.63	76.17	3.46	2.01	-1.09	20.3		10105.59	9981
49	Trip Out	6.625	28.00	0.0257	AT 1	45.65	43.97	1.68	2.14	-1.12	19.1		9980.67	9854
50	Trip Out	6.625	28.00	0.0257	AT 1	67.52	66.39	1.13	1.99	-0.70	19.4		9854.08	9727
51	Trip Out	6.625	28.00	0.0257	AT 1	14.94	13.62	1.32	1.98	-1.24	25.8		10745.04	10618
52	Trip Out	6.625	28.00	0.0257	AT 1	19.46	17.3	2.16	2.01	-1.24	28.4		10617.98	10491
53	Trip Out	6.625	28.00	0.0257	AT 1	34.68	33.05	1.63	2.14	-1.35	28.0		10490.94	10359
54	Trip Out	6.625	28.00	0.0257	AT 1	83.13	80.48	2.65	1.99	-1.45	23.8		10359.10	10232
55	Trip Out	6.625	28.00	0.0257	AT 1	93.73	95.25	-1.52	1.98	-2.68	15.8		9726.86	9599
56	Trip Out	6.625	28.00	0.0257	AT 2	90.23	88.54	1.69	2.01	-0.70	16.5		9599.35	9472
57	Trip Out	6.625	28.00	0.0257	AT 2	60.82	58.88	1.94	2.14	-0.09	16.4		9472.20	9345
58	Trip Out	6.625	28.00	0.0257	AT 2	95.32	92.48	2.84	1.99	-0.01	16.4		9345.07	9218
59	Trip Out	6.625	28.00	0.0257	AT 2	60.82	58.65	2.17	1.98	-0.04	16.3		9217.82	9090

In the table view, the user can adjust values and if connected to a function will see results cascade through the table. It can be color coded to more easily see types of drill pipe for quicker analysis.

## User-Friendly Interface Allows You to Do More, More Efficiently

Featuring a user-friendly interface, ATA enables you to easily input details of section, run and tubular layout. You simply define the type, size and weight of component and everything else is auto-populated in real-time from a catalog. ATA also features a table view that shows values per stand from a calculated log and interacts with the properties from the tubular such as displacement of a pipe per foot. The table can group any number of stands to view a larger section of the drill string in just a simple view, as well as providing many other advantages.

Discover the efficiencies, accuracies and advanced visualization capabilities of ATA today.



Intelligent Solutions for Today's Data Challenges

[www.petrolink.com](http://www.petrolink.com)