

# **RECON**petro

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

## Reduced Rig Time and Cost Savings

RECON's Proprietary Telemetry Allows For Higher Resolution  
With Less Time In Hole

Open Hole Logging in North America

# Logging Speed and Costs

- ▶ RECON Standard Pass (no charge)
  - ▶ 9 meters / minute (1,800 feet / hour)
    - ▶ Speed may vary depending on hole condition and “Feel”
- ▶ RECON HDD™ Pass (\$10.00 / meter, \$3.00 / ft)
  - ▶ 7 ½ meters / minute (1,500 feet / hour)
    - ▶ Speed may vary depending on hole condition and “Feel”
  
- ▶ Industry Main Pass (no charge)
  - ▶ 9 meters / minute (1,800 feet / hour)
    - ▶ Speed may vary depending on hole condition and “Feel”
- ▶ Industry High Resolution Pass (\$10.00 / meter, \$3.00 / ft)
  - ▶ 4 meters / minute (780 feet / hour)
    - ▶ Speed may vary depending on hole condition and “Feel”

\* HDD™ and High-Resolution cost based on known book price, subject to discount

# “Time in Hole” - Logging

Well Depth (m / ft)	“Time in Hole” (hr) (Down Pass + Repeat + Main + 1.5hr Rig up/Rig Down - 15% for Surface Casing)			
	Industry Main (9 m/min) (1800 ft/hr)	Industry High Res (4 m/min) (780 ft/hr)	RECON Standard (9 m/min) (1800 ft/hr)	HDD™ (7 1/2 m/min) (1500 ft/hr)
750m / 2,450ft	3.27	5.48	3.27	3.63
1,000m / 3,300ft	3.86	6.81	3.86	4.33
1,500m / 4,900ft	5.04	9.47	5.04	5.75
2,000m / 6,550ft	6.22	12.13	6.22	7.17
2,500m / 8,200ft	7.40	14.78	7.40	8.58
3,000m / 9,850ft	8.58	17.44	8.58	10.00

# Average Rig & Rental Cost Per Job

Well Depth (ft / m)	Average Rig Cost Per Logging Job \$1,500 (Rig + Rentals) Multiplied by "Time in Hole"			
	Industry Main (2-3samples/ft) (8-10 samples/m)	Industry High Res (12 samples/ft) (40 samples/m)	RECON Standard (10 samples/ft) (33 samples/m)	<b>HDD™</b> (40 samples/ft) (132 samples/m)
2,450ft / 750m	\$4,906	\$8,227	\$4,906	\$5,438
3,300ft / 1,000m	\$5,792	\$10,219	\$5,792	\$6,500
4,900ft / 1,500m	\$7,563	\$14,203	\$7,563	\$8,625
6,550ft / 2,000m	\$9,333	\$18,188	\$9,333	\$10,750
8,200ft / 2,500m	\$11,104	\$22,172	\$11,104	\$12,875
9,850ft / 3,000m	\$12,875	\$26,156	\$12,875	\$15,000

\* \$1,500 / hour conservative rig and rentals cost

# Rig & Rental Savings w/ Faster Logging

Well Depth (ft / m)	Rig Time Cost Savings (Including Rentals and Standby Equipment)				
	Industry Main vs RECON Standard	Industry High Resolution vs RECON Standard		Industry High Resolution vs RECON HDD™	
	2-3 samples/ft, 8-10 samples/m (Industry Main) vs 10 samples/ft, 33 samples/m (RECON Standard)	12 samples/ft, 40 samples/m (Industry High Res) vs 10 samples/ft, 33 samples/m (RECON Standard)		Un-matched 40 samples/ft, 132 samples/meter	
2,450ft / 750m	Equal Cost With Superior Data	\$3,320	40%	\$2,789	34%
3,300ft / 1,000m	Equal Cost With Superior Data	\$4,427	43%	\$3,719	36%
4,900ft / 1,500m	Equal Cost With Superior Data	\$6,641	47%	\$5,578	39%
6,550ft / 2,000m	Equal Cost With Superior Data	\$8,854	49%	\$7,438	41%
8,200ft / 2,500m	Equal Cost With Superior Data	\$11,068	50%	\$9,297	42%
9,850ft / 3,000m	Equal Cost With Superior Data	\$13,281	51%	\$11,156	43%

- ▶ Less time Spent Logging equals less \$\$ spent on equipment
- ▶ Less Time on the Lease means more time on production

# High-Resolution Data Charges

Well Depth (ft / m)	Average Additional Charges For Enhanced Resolution Logging Services		
	Industry High Resolution (12 samples/ft) (40 samples/m) \$3.00 /ft (\$10.00 /m)*	RECON Standard (10 samples/ft) (33 samples/m) No Charge	HDD™ (40 samples/ft) (132 samples/m) \$3.00 /ft (\$10.00 /m)*
2,450ft / 750m	\$6,375	\$0	\$6,375
3,300ft / 1,000m	\$8,500	\$0	\$8,500
4,900ft / 1,500m	\$12,750	\$0	\$12,750
6,550ft / 2,000m	\$17,000	\$0	\$17,000
8,200ft / 2,500m	\$21,250	\$0	\$21,250
9,850ft / 3,000m	\$25,500	\$0	\$25,500

\* Prices Subject to Discount

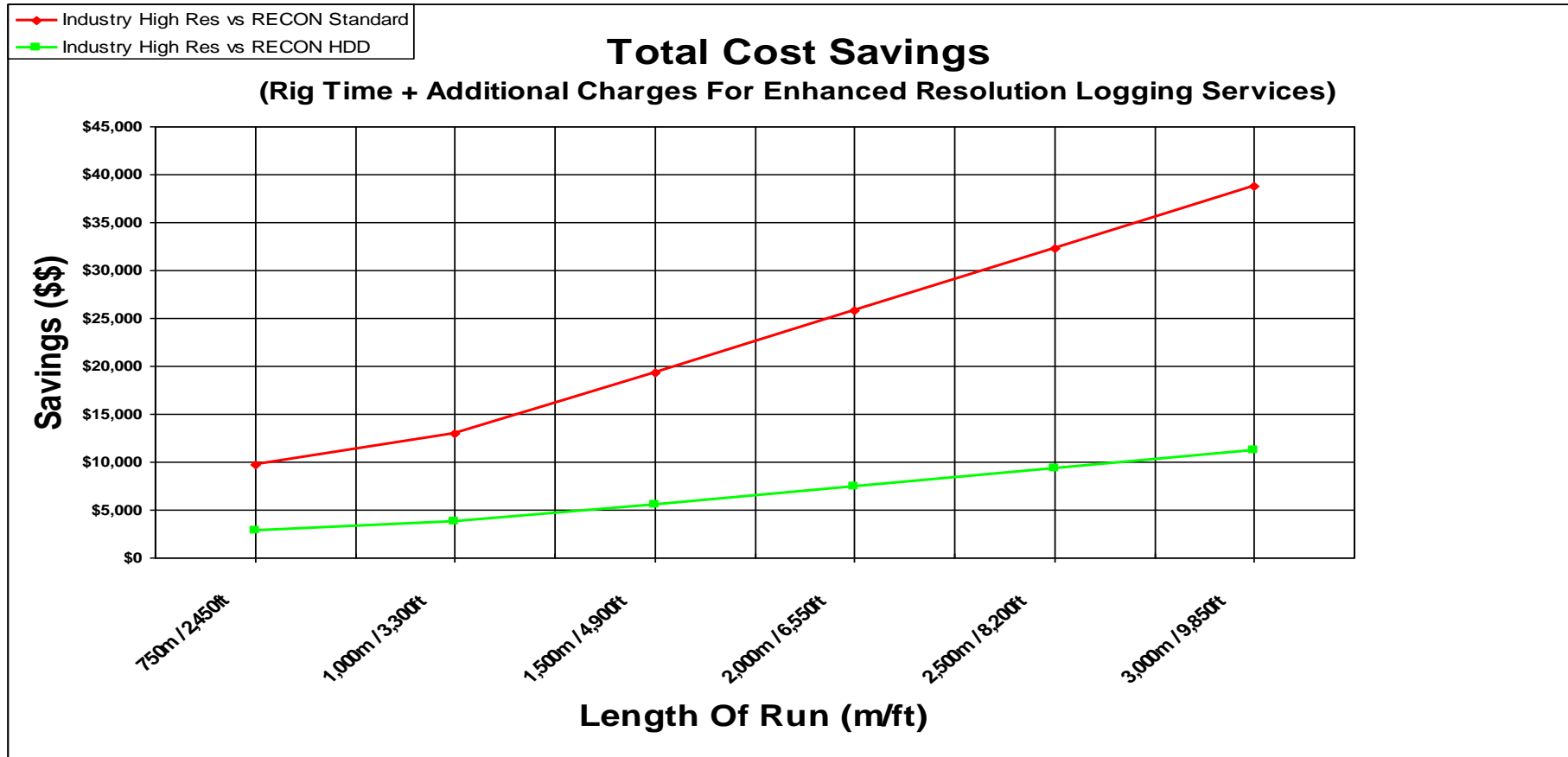
\* HDD™ and High-Resolution cost based on known published book price, subject to discount

# Cumulative Savings By Logged Interval

Well Depth (ft / m)	Rig Time and Logging Services Cost Savings		
	Industry Main vs RECON Standard	Industry High Resolution vs RECON Standard	Industry High Resolution vs RECON HDD™
	2-3 samples/ft, 8-10 samples/m (Industry Main) vs 10 samples/ft, 33 samples/m (RECON Standard)	12 samples/ft, 40 samples/m (Industry) vs 10 samples/ft, 33 samples/meter (RECON Standard)	<b>Un-matched 40 samples/ft, 132 samples/m</b>
2,450ft / 750m	Equal Cost With Superior Data	\$9,695	\$2,789
3,300ft / 1,000m	Equal Cost With Superior Data	\$12,927	\$3,719
4,900ft / 1,500m	Equal Cost With Superior Data	\$19,391	\$5,578
6,550ft / 2,000m	Equal Cost With Superior Data	\$25,854	\$7,438
8,200ft / 2,500m	Equal Cost With Superior Data	\$32,318	\$9,297
9,850ft / 3,000m	Equal Cost With Superior Data	\$38,781	\$11,156

- ▶ The Greater the Zone of Interest the more Efficient and cost effective the RECON system becomes
- ▶ Superior Data at no additional cost is always a key Differentiator

# Total Cost Savings



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# Value Proposition

- ▶ Cost Savings Realized Using:
  - ▶ RECON Standard Logging Services and Proprietary Telemetry
  - ▶ RECON HDD™ Logging Services and Proprietary Telemetry
- ▶ Case Study Quantifies:
  - ▶ Logging Program Cost Savings Both Standard and High Definition
  - ▶ Rig & Rental Time/Cost Savings
- ▶ RECON Provides Industry's Fastest POOH Logging and Data Sampling Utilizing RECON Proprietary Telemetry

Making the Most of Every \$\$