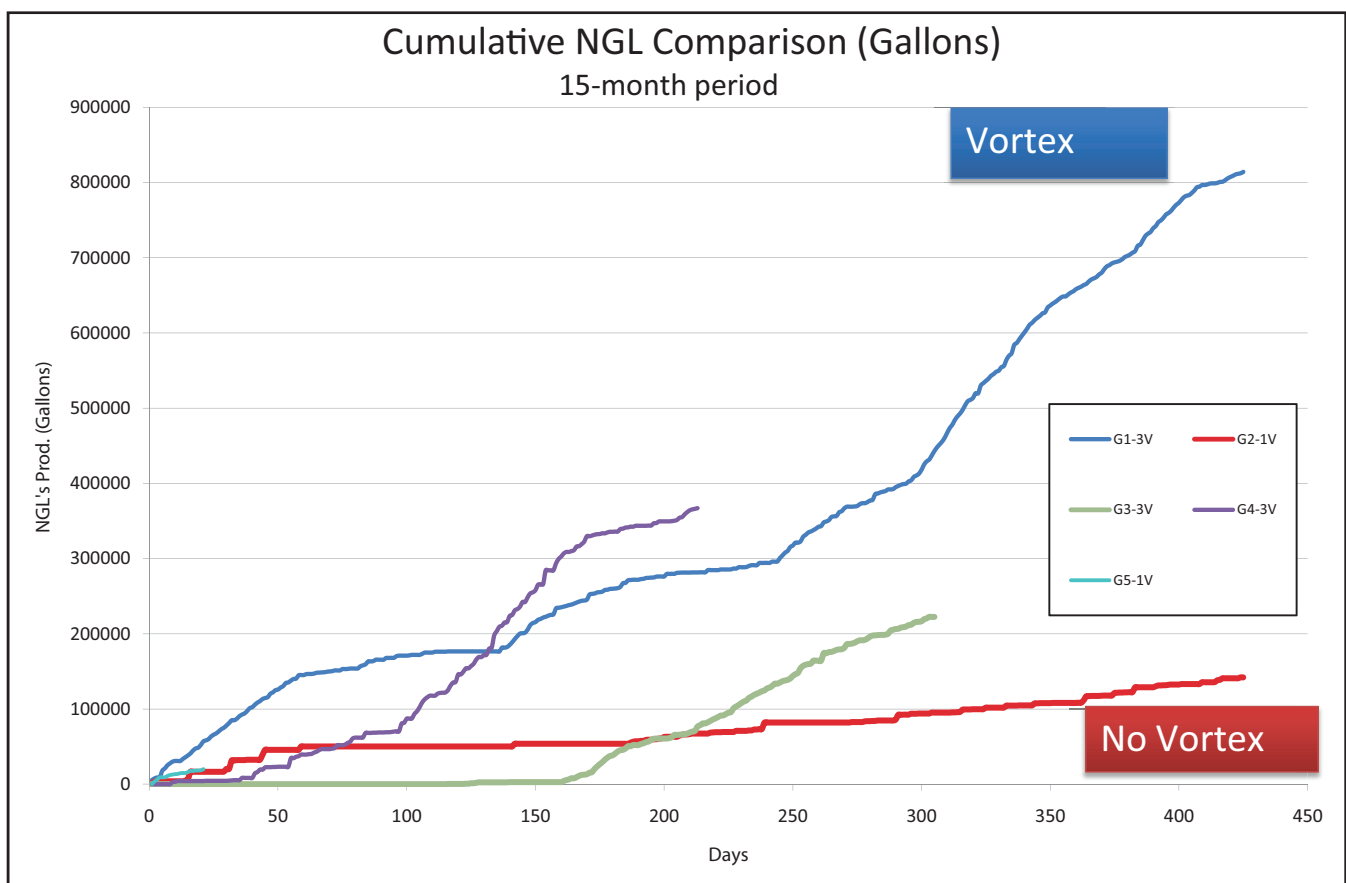




# Vortex provides an economic solution to field recovery of NGLs in rich gas plays

## Vortex tools provide:

- ▼ A field recovery solution that can recover up to 10 times the NGLs that are recovered with drips
- ▼ A solution that reduces the need for pigging and reduces hydrate formation and freeze-ups in line
- ▼ A solution that requires no maintenance or intervention
- ▼ A solution with an ROI of less than 30 days (based on customer experience)
- ▼ An interim solution for NGL plays where processing solutions are incomplete or inadequate



## What benefits might I see with the tool?

*"In one year, not counting any NGLs produced prior to the Vortex Installation, we have produced 1,205,447 gallons of NGLs."\**

*"The addition of the Vortex tools has helped to prevent freeze-ups in the past two months of winter."*

Customer quotation: March 4, 2011

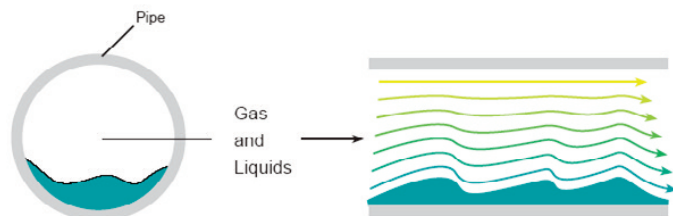
\*The NGLs referenced in the chart and recovered by the Vortex system are in addition to the condensate which is normally knocked out at the first plant separator.



# Customer Results and Pricing Comparison

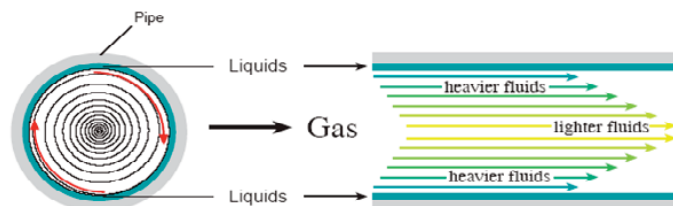
Vortex NGL Solution	Year 1		Year 2*	
	Gallons	Values	Gallons	Values
Revenues generated from NGLs	863,314	\$1,233,305	2,654,740	\$2,844,364
Cost of Vortex solution - tools, tanks, installs		(333,500)		(280,800)
<b>Net revenue from NGLs (Vortex solution)</b>		<b>899,805</b>		<b>2,563,564</b>
*1st quarter 2011 actual revenues = \$948,122				
*1st quarter 2011 actual costs = \$107,550				
<b>Processing plant NGL solution</b>				
Revenues generated from NGLs	104,595	\$149,421	112,725	\$161,036
Cost of Pigging solution		(33,000)		(33,000)
Cost of processing (plant recovery costs)		(29,884)		(32,207)
<b>Net revenue from NGLs (Processing plant solution)</b>		<b>86,537</b>		<b>95,829</b>
<b>Value-added with Vortex Solution</b>	<b>758,719</b>	<b>\$813,268</b>	<b>2,542,015</b>	<b>\$2,467,735</b>
(NGL Values based on \$60/barrel)				

## No Vortex – NGLs drop out in line



The Vortex tools keep NGLs in flow/gathering lines in a liquid state despite changes in temperature and elevation over long distances (up to six miles).

## With Vortex – NGLs travel in liquid state



## Tool Sizes and Ratings:

Size	Pressure	Price
2"	150#	\$7,400
	300#	\$7,800
	600#	\$8,800
3"	150#	\$10,800
	300#	\$13,100
	600#	\$17,400
4"	150#	\$21,300
	300#	\$22,100
	600#	\$25,600
6"	150#	\$24,200
	300#	\$26,200
	600#	\$29,200

Other sizes & pressures available



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