

QuickSet™ Gas Lift Control Skid

Improved Gas-Lift Performance
Methane Emissions-Free Operations

LIFTRUCK™
Integrated Lift Services



QuickSet™ Overview

- Patented gas compression control skid
- Fully integrated, easily installed system
- Proven in over 50 installations
- Delivers both environmental and economic benefits
- Eliminates emissions from gas lift operations
- Reduces operational burdens in gas lift facility operations



7 Key Benefits

1 Reduces facility field construction

QuickSet is manufactured in a controlled QA/QC environment, eliminating the majority of facility construction in the field. More than 90% of interconnecting piping connects are completed prior to delivery, requiring minimal piping connections on site. Safety risks are minimized, time and cost are reduced, and operators get to production faster.

2 Eliminates methane emissions

QuickSet captures 100% of fugitive methane emissions typically associated with gas lift operations, and repurposes all captured gas as fuel gas and injection gas. This allows operators to eliminate an average of 9.125 MMSCF of methane emissions per well per year.

3 Does away with liquid storage

QuickSet's natural gas liquid processing design eliminates the need for natural gas liquid storage tanks at the gas lift facility. All gases and liquids are processed within the QuickSet skid. There's no need for liquid storage or transport, and no risk of liquid tanks leaking hydrocarbons at the gas lift facility.

4 Prevents line freeze-ups and shutdowns

The QuickSet system eliminates compressor scrubber dump liquid level shutdown events and associated methanol line injections. The result is more uptime, higher production, and reduced maintenance costs.

5 Adds revenue from captured gas

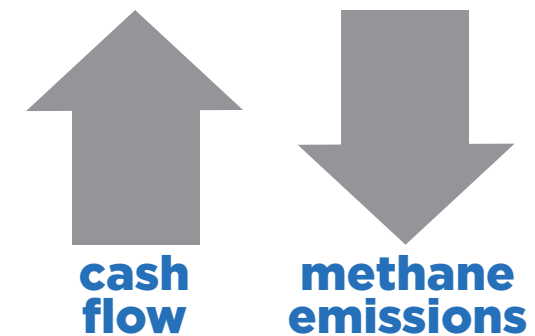
By reusing captured methane as fuel gas or injection gas, QuickSet increases monthly gas volumes, adding revenue to the bottom line.

6 Generates monthly methane capture reports

QuickSet's built-in telemetry reports capture methane emissions, VOCs (volatile organic compounds), and HAPs (hazardous air pollutants). The report details fuel gas, fuel makeup gas, and total captured gas, with daily and monthly totals.

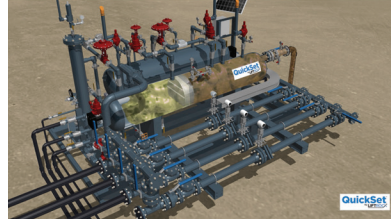
7 Reduces LOE

Instead of requiring additional capital to mitigate fugitive methane emissions, QuickSet does it as part of gas lift operations. QuickSet adds value through improved uptime, fewer maintenance events, higher production, and increased gas utilization.

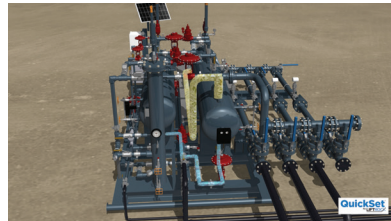


How QuickSet™ Works

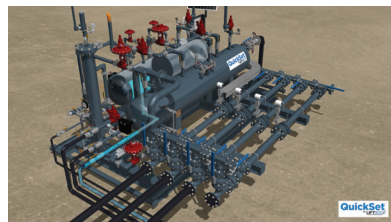
View a technical video explaining the QuickSet in detail.



The QuickSet's 2-phase separator removes liquids from gas stream, dry gas (in yellow) travels to the compressor inlet



Liquids from the inlet separator (in blue) are moved to the low-pressure side of the QuickSet's charge vessel



Low-pressure "dumps" from the compressor(s) enter into the QuickSet's low-pressure charge vessel



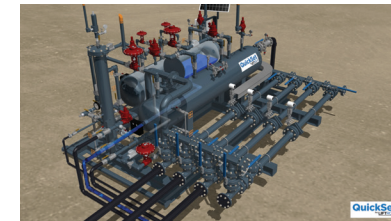
When the liquid reaches a certain level on the low-pressure side, high pressure gas (in red) is introduced



The liquids on the low-pressure side of the QuickSet are then evacuated through the flow line



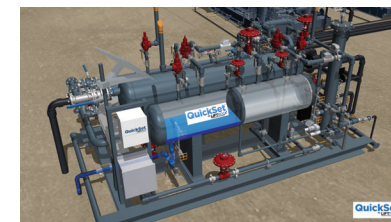
Flash gas from associated liquids passes through a coalescing filter, and then the dry fuel is transferred to the compressor(s) engine(s)



Liquids from the high-pressure "dumps" enter the high-pressure side of the QuickSet's charge vessel



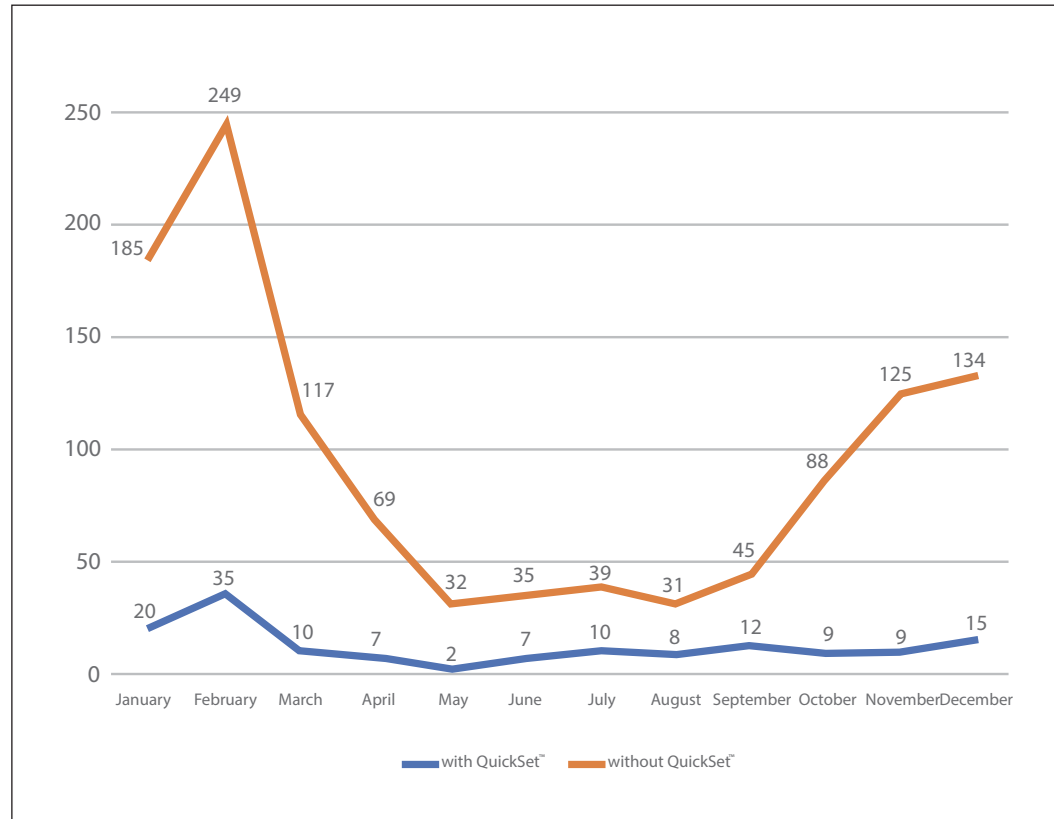
Once the liquids reach a certain level, high-pressure gas (in red) is introduced



Liquids on the high pressure side are then evacuated through the flow line

Performance Comparison

2021 Shutdown Events

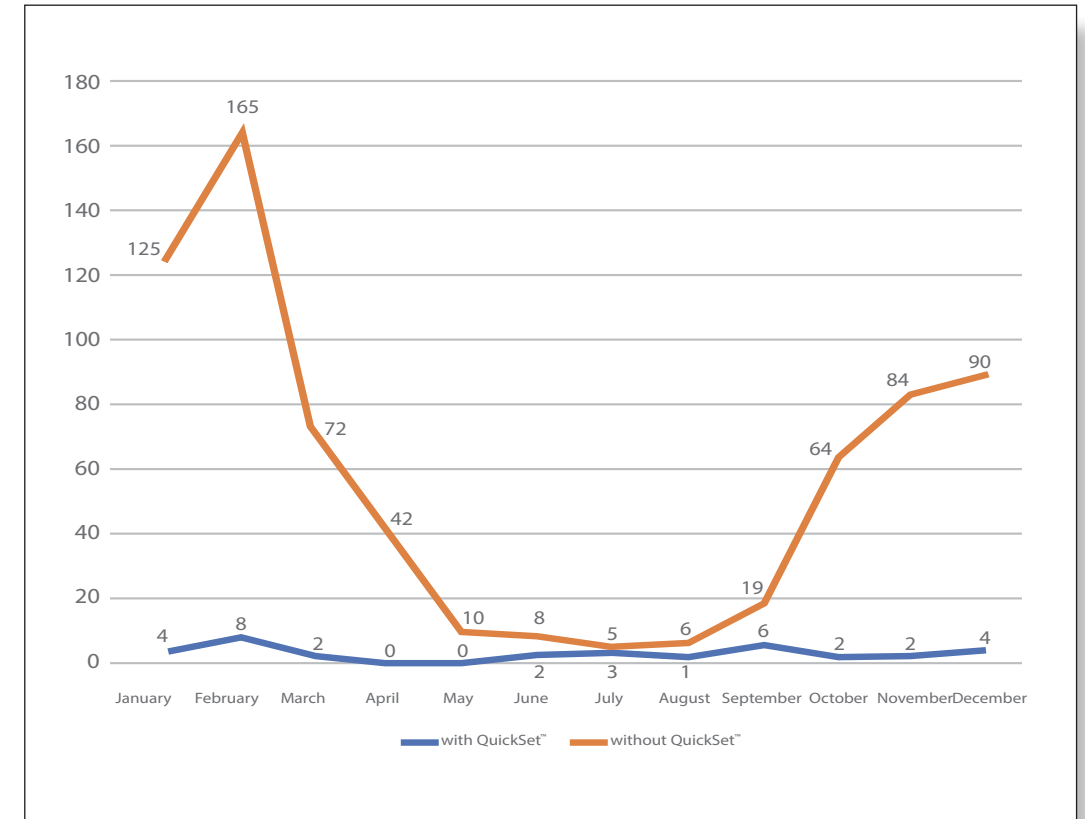


Without QuickSet - 1149
 With QuickSet - 144
Reduced By 87%



Performance Comparison

Total Number Of Compressor Scrubber Liquid Level Shutdown Events (2021)

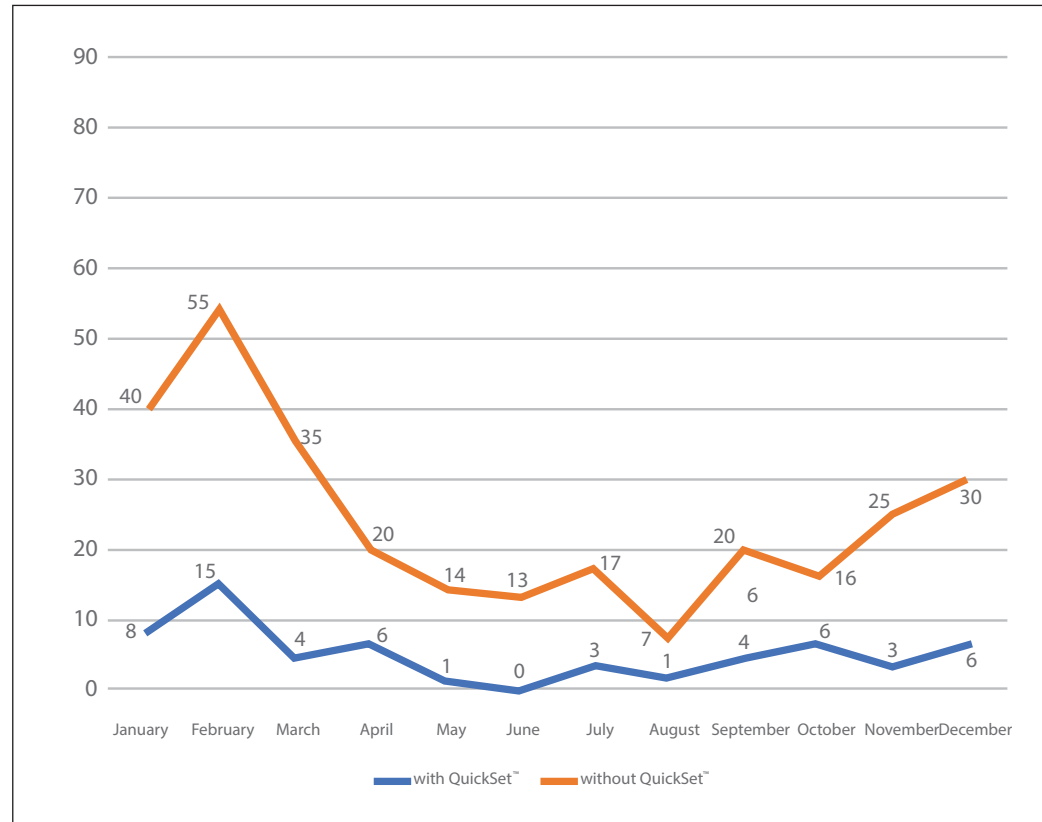


Without QuickSet - 690
 With QuickSet - 34
Reduced By 95%



Performance Comparison

Total Number Of Low Engine Oil Pressure Shutdowns/Negative Impact to Production (2021)

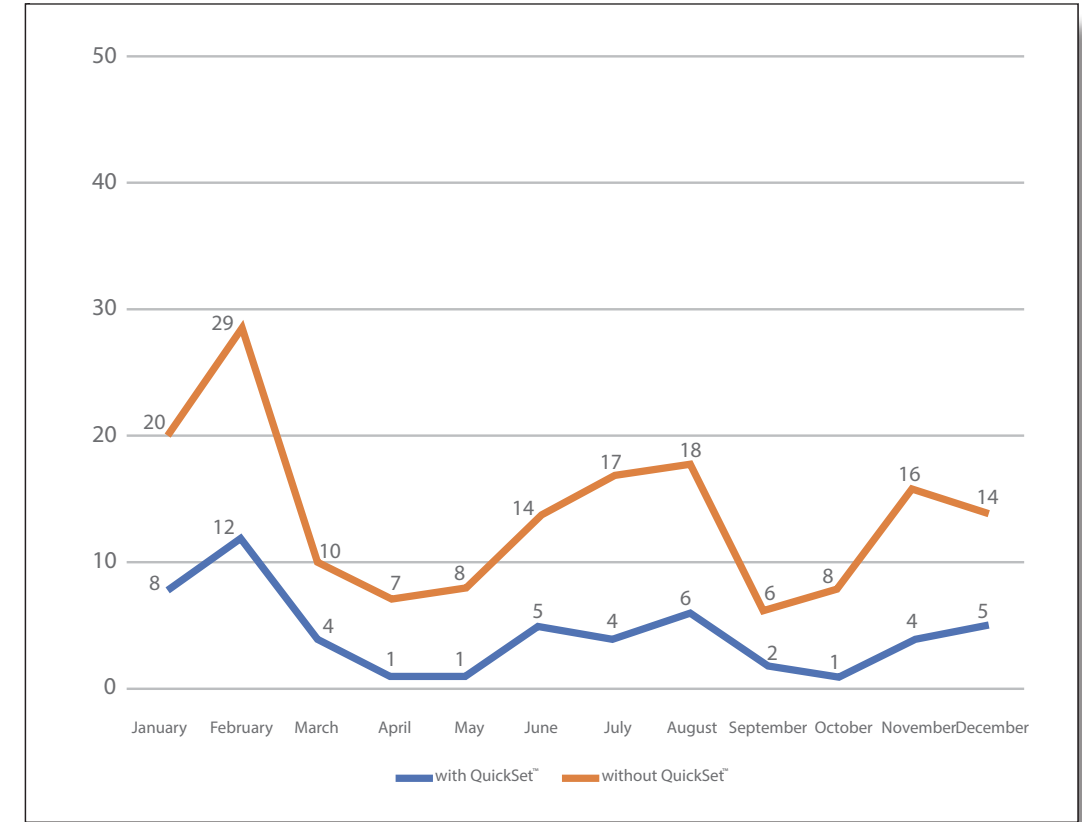


Without QuickSet - 292
 With QuickSet - 57
 Reduced By 80%



Performance Comparison

Total Number Of Engine Panel Shutdowns/Negative Impact to Production (2021)

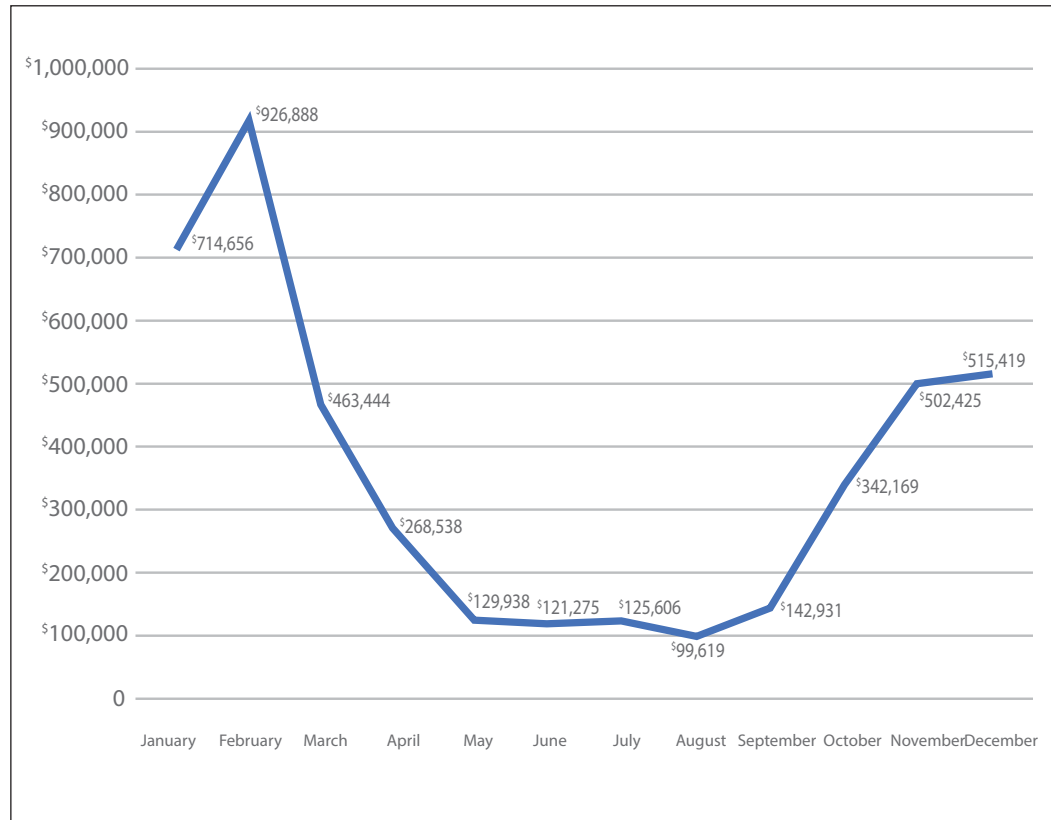


Without QuickSet - 167
 With QuickSet - 53
 Reduced By 68%



Performance Comparison

2021 Production Downtime Savings Without QuickSet
Vs With QuickSet



Annual Savings Of \$4,352,906

QuickSet™ – Proven Performance

87%

Fewer Shutdown Events

95%

Fewer Scrubber Liquid level Shutdown Events

68%

Fewer Engine Panel Shutdowns

80%

Fewer Low Engine Oil Pressure Incidents

Performance Comparison

Cost Of Downtime

Year	2021		2022
# Of Compressors	125		
# Of QS Skids	41		
Average Monthly Rental Rate Per QS Skid	(\$5,400)		
Average # of Wells Served Per Compressor/Skid:	3		
Average WTI: (Bbl)	\$70		\$99
Average Well Production Bpd:	150		
Average Hourly Production Value	\$1,313		\$1,855
Average Production Revenue Lost Per Compressor Shutdown Event	(\$4,331)		
Average Weighted Gas Value (Per MCF)	\$4.87		\$6.19
Total Methane Captured (MCF)	520,044		
Average MCF Captured Per Month Per Skid	1,057		
Average Downtime Per Event:	3.3		
	Without Skid	With Skid	
Total # Of Compressor Shutdown Events:	1149	144	
Annual Negative Impact to Production Due To Shutdown Events:	(\$4,976,606)	(\$623,700)	

Avg. Hourly Production Value Determined By:

Avg. WTI x Avg # of Wells Served x Avg. Well Production /24Hrs

Avg. Production Revenue Lost Per Compressor Shutdown Event Determined By:

Average Hourly Production Value x Avg. Downtime Per Event

Annual Negative Impact To Production Due To Shutdown Events Determined By:

Avg. Production Revenue Lost Per Compressor Shutdown Event x Total # of Compressor Shutdown Events

Performance Comparison

Return On Investment (ROI) Utilizing QuickSet (QS) to Reduce Production Downtime

Year	2021		2022
# Of Compressors	125		
# Of QS Skids	41		
Average Monthly Rental Rate Per QS Skid	(\$5,400)		
Average # of Wells Served Per Compressor/Skid:	3		
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	Without Skid	With Skid	
Total # Of Compressor Shutdown Events:	1149	144	
Annual Negative Impact to Production Due To Shutdown Events:	(\$4,976,606)	(\$623,700)	
ROI Valuation (Downtime Mitigation Savings - LOE)			
	Annual (Fleet)	Annual Per QS	Monthly Per QS
Impact to LOE Utilizing QS	(\$2,656,800)	(\$64,800)	(\$5,400)
Production Downtime Mitigation Savings Utilizing Quickset	\$4,352,906	\$106,168	\$8,847.37
ROI Utilizing QuickSet (Downtime Mitigation Only)	\$1,696,106	\$41,368	\$3,447

Impact To LOE Utilizing QuickSet Determined By:

Annual Fleet: # Of QS Skids x Avg. Rental Rate x 12 Months

Annual Per QS: Annual Fleet / # Of QS Skids

Monthly Per QS: Annual Per QS / 12 Months

Production Downtime Mitigation Savings Utilizing QuickSet Determined By:

Annual Negative Impact To Production Due To Shutdown Events (Without Skid /With Skid)

ROI (Return On Investment) Utilizing QS Skid

Impact to LOE Utilizing QS + Production Downtime Mitigation Savings Utilizing QS

Performance Comparison

Return On Investment (ROI) Utilizing QuickSet (QS) to Reduce Production Downtime + Methane Capture Savings

Year	2021	2022	
# Of Compressors	125		
# Of QS Skids	41		
Average Monthly Rental Rate Per QS Skid	(\$5,400)		
Average # of Wells Serviced Per Compressor/Skid:	3		
Average WTI: (Bbl)	\$70	\$99	
Average Well Production Bpd:	150		
Average Hourly Production Value	\$1,313	\$1,855	
Average Production Revenue Lost Per Compressor Shutdown Event	(\$4,331)		
Average Weighted Gas Value (Per MCF)	\$4.87	\$6.19	
Total Methane Captured (MCF)	520,044		
Average MCF Captured Per Month Per Skid	1,057		
Average Downtime Per Event:	3.3		
	Without Skid	With Skid	
Total # Of Compressor Shutdown Events:	1149	144	
Annual Negative Impact to Production Due To Shutdown Events:	(\$4,976,606)	(\$623,700)	
ROI Valuation (Downtime Mitigation Savings - LOE)			
	Annual (Fleet)	Annual Per QS	Monthly Per QS
Impact to LOE Utilizing QS	(\$2,656,800)	(\$64,800)	(\$5,400)
Production Downtime Mitigation Savings Utilizing Quickset	\$4,352,906	\$106,168	\$8,847.37
ROI Utilizing QuickSet (Downtime Mitigation Only)	\$1,696,106	\$41,368	\$3,447
ROI Valuation (Downtime Mitigation Savings + Methane Capture Valuation-LOE)			
Methane Capture Savings	\$2,532,614	\$61,771	\$5,148
ROI Utilizing QuickSet (Downtime Mitigation + Methane Capture) 2021	\$4,228,721	\$103,140	\$8,595
Commodity Pricing			
ROI Utilizing QuickSet (Downtime Mitigation + Methane Capture) 2022	\$6,714,794	\$163,775	\$13,648
Commodity Pricing			

Average Weighted Gas Value (Per MCF) Determined By:

Avg. Henry Hub Spot Price x the BTU of Gas Stream
(Example: Henry Hub Price Of \$3.89 x 1250 BTU = \$4.87 Per MCF)

Methane Capture Savings Determined By:

Total MCF Captured x the Avg. Weighted Gas Value (Per MCF)

ROI Utilizing QS Skid (Downtime Mitigation + Methane Capture)


Impact to LOE Utilizing QS + Production Downtime Mitigation Savings Utilizing Quickset + Methane Capture Savings



Performance Reporting

LIFTROCK Integrated Lift Services		Monthly Methane Capture Report			
Unit #: QS10014		Downtime Avoidance Credit Value:			
Lease Name: Confidential		(Hourly Production Value X's DT Hour Mitigated)			
Captured Gas Value:		Cushing OK WTI Spot Price (Prev 3 month avg, \$/bbl)	\$100.64		
(Henry Hub Spot Price X's Dry Basis BTU)		Avg Assumed Oil Production (Bbl/s/day)	250		
Henry Hub 3 Month Avg Spot Price per 1k BTU		Hourly Production Value \$	\$1,048.33		
Dry Basis BTU		Monthly Downtime Eliminated (Hrs)	4		
Captured Gas Value: \$6.70		Monthly Credit Value	\$4,193.33		
VOLATILE ORGANIC COMPOUNDS (VOC's) & HAZARDOUS AIR POLLUTANTS (HAP's) MITIGATED					
TOTAL SITE EMISSIONS MITIGATED- VOC's (Tons) / HAP's (Tons)		47.47	0.9412		
ESTIMATED YEARLY EMISSIONS MITIGATED- VOC's (TPY) / HAP's (TPY)		569.63	11.29		
MONTHLY EMISSIONS MITIGATION CALCULATIONS					
MEASURED CAPTURED GAS VOLUME (MCF)		5,869.09			
CAPTURED GAS VALUE		\$39,314			
DAILY EMISSIONS READINGS					
Date (12AM)	Fuel Gas Volume (MCF)	Fuel Makeup Gas Volume (MCF)	Captured Gas Volume (MCF)	Total Captured Gas Volume (MCF)	Captured Gas Value \$
04/30/22	145.49	116.05	241.74	271.18	\$1,816.50
04/29/22	145.82	111.43	238.19	272.58	\$1,825.88
04/28/22	123.79	83.82	163.65	203.62	\$1,363.95
04/27/22	142.56	118.95	159.45	183.06	\$1,226.23
04/26/22	135.22	132.85	132.64	135.01	\$904.37
04/25/22	146.21	146.15	213.57	213.63	\$1,431.00
04/24/22	144.03	143.14	210.79	211.68	\$1,417.94
04/23/22	144.69	142.48	211.35	213.56	\$1,430.54
04/22/22	143.83	142.51	209.70	211.02	\$1,413.52
04/21/22	141.83	139.88	208.11	210.06	\$1,407.09
04/20/22	133.56	130.92	191.83	194.47	\$1,302.66
04/19/22	131.58	130.34	191.46	192.70	\$1,290.77
04/18/22	133.62	132.48	192.94	194.08	\$1,300.05
04/17/22	124.26	122.77	178.35	179.84	\$1,204.66
04/16/22	126.59	125.78	179.80	180.62	\$1,209.86
04/15/22	138.90	137.91	204.56	205.55	\$1,376.88
04/14/22	137.71	136.77	195.91	196.85	\$1,318.60
04/13/22	126.18	125.54	174.26	174.90	\$1,171.54
04/12/22	103.17	102.66	138.94	139.45	\$934.11
04/11/22	131.87	130.98	183.41	184.30	\$1,234.54
04/10/22	131.79	131.42	184.52	184.89	\$1,238.49
04/09/22	137.87	137.11	190.18	190.94	\$1,279.02
04/08/22	121.88	120.24	153.05	154.69	\$1,036.19
04/07/22	131.27	131.12	201.77	201.92	\$1,352.57
04/06/22	131.27	131.12	201.77	201.92	\$1,352.57
04/05/22	131.27	131.12	201.77	201.92	\$1,352.57
04/04/22	130.34	129.49	181.67	182.52	\$1,222.59
04/03/22	126.58	125.68	177.41	178.31	\$1,194.38
04/02/22	131.27	131.12	201.77	201.92	\$1,352.57
04/01/22	131.27	131.12	201.77	201.92	\$1,352.57
Total	4,005.72	3,852.96	5,716.33	5,869.09	\$39,314.21
Downtime Avoidance Credit (Eliminating Compressor Scrubber Liquid Level Shutdown Events)					\$4,193.33
Total Monthly Savings Utilizing Quickset Skid					\$43,507.54



 Integrated Lift Services						
Annual Quickset Performance Report (Fleet)						
Unit #: QS-10013 & 10014						
Methane Mitigation Value: (MCF Measured X's Henry Hub Price X's BTU Of Gas Stream)						
Henry Hub Gas Value		\$5.01				
Dry Basis BTU		1251				
Captured Gas Value						\$6.30
Downtime Avoidance Credit Value Per Skid: (Hourly production value X's DT hour mitigated)						
Avg Cushing Ok. WTI Price (\$/Bbl)				\$90.65		
Avg. Oil Production (Bbl's/Day Per Well)			250			
# Of Wells Serviced		1				
# Of Historical Liquid Level Shutdown Events (Annually)		0				
Avg. Hours Of Downtime Per Event		4				
Avg. Est. Hourly Production Value \$			\$935.63			
Monthly Downtime Eliminated (Hrs)		4				
Monthly / YTD Evaluation						
Month	Monthly LOE	Methane Emissions Mitigated		Downtime Avoidance Credit		
		(MCF)	(Value \$)	Hours Mitigated	# Of Events	(Value \$)
December	\$10,800	555	\$3,323.14	8	2	\$6,416.64
January	\$10,800	2532	\$13,843.92	8	2	\$6,502.48
February	\$10,800	593	\$3,172.95	8	2	\$6,849.20
March	\$10,800	2793	\$16,167.58	8	2	\$7,871.12
April	\$10,800	6157	\$41,276.18	8	2	\$8,386.64
May	\$10,800	2087	\$17,004.53	8	2	\$8,884.16
June						
July						
August						
September						
October						
November						
Total	\$64,800	14717	\$94,788.30	48	12	\$44,910
Total Annual ROI Utilizing Quickset Skid				\$74,898.54		



For more information contact

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SCAN ME