

Energy Perspectives



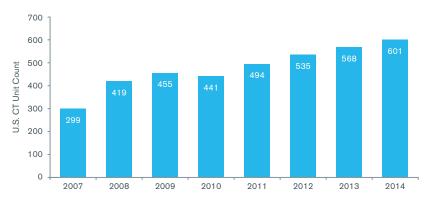
Segment Snapshot – The Shift from Coil Tubing to Snubbing in Completions

This edition of Energy Perspectives takes a look at the growing use of snubbing units for completions, which are increasingly replacing coil tubing units.

The service intensity required to complete wells and enhance production in shale gas and tight oil plays contributed to significant growth in coiled tubing over the past decade, as evident by the chart below. The versatility, efficiency and cost effectiveness of Coiled Tubing ("CT") units caused operators to turn to them for faster well completions, in addition to their historical fit for interventions. This expanded functionality helped lead to a boom in CT, with domestic unit counts doubling between 2007 and 2014.

Similarly, between 2007 and 2011 service days for CT doubled, with day rates reaching as high as \$80,000 due to the tight market conditions. Beginning in 2012, however, service days for CT dropped dramatically and remained at this lower level (see chart on the following page). Strong orders for new CT equipment, placed when CT service days were still climbing, led to equipment supply hitting the market as demand retracted, creating significant overcapacity in CT. Pricing for CT services has declined accordingly, and hovers well below peaks from three years ago. Projections for CT service days show modest

Growth in Coiled Tubing



Source: ICoTA

Third Quarter 2014

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 The Shift from Coil Tubing to Snubbing in Completions
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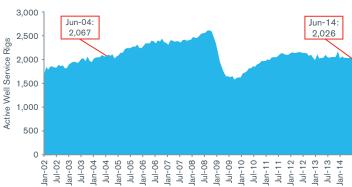
Segment Snapshot – The Shift from Coil Tubing to Snubbing in Completions (cont.)

Coiled Tubing Service Days

Source: E&P Magazine



Number of Active Service Rigs



Source: Guiberson

Why did the spigot turn off so quickly for CT? An increase in the efficiency of fracking may be part of the answer, as is the higher supply of CT units, which eliminated the need for stand-by arrangements. But an additional and meaningful reason is the

need for stand-by arrangements. But an additional and meaningful reason is the growing use of snubbing as a replacement for CT in completions.

We may now be in the early stages of a similar trajectory in snubbing units and demand that CT experienced years ago. The continued growth in lateral lengths of horizontal wells is forcing companies to shy away from CT and turn to stand-alone or rig-assist snubbing units. CT has limitations in reach – highway safety weight restrictions effectively cap the length/diameter of the tube that can be delivered to well sites. So for longer laterals, CT either (i) is not long enough to reach the total depth of the well, or (ii) is not strong enough to supply the needed weight on the bit without buckling.

Enter snubbing units. Traditionally, snubbing has been used when operators need to service a well without killing it. Snubbing units provide pressure on the jointed pipe being

inserted into the well, forcing the pipe deeper into the live well and overcoming the natural surface pressure of the well.

In completions of wells with long laterals, jointed pipe provides a significant advantage over CT because it is stronger than tubing, and can reach the outer edges of the well without buckling. Because the pipe is transported to the well site in segments, there is no limit on the number of joints that can be delivered to the well. Highway weight restrictions are irrelevant. And because the wells are lateral wells, gravity is not an effective means of inserting pipe, so workover units are not useful. Rather, pressure must be applied to push the pipe out into the well, and hence the need for snubbing units in completions.

Snubbing has likely been underinvested in for years. Though data for snubbing on a stand-alone basis is difficult to gather, the trend that exists in overall workover rigs (evidenced in the chart above) serves as a proxy. The number of active service rigs since 2011 is flat to down, and sits at a similar level to 2004, a decade ago.

As laterals continue to extend and snubbing becomes increasingly prevalent in completions demand for snubbing may pick up significantly. Incumbent snubbing providers may have a window for generating meaningful profit as rig utilization and pricing improve. As typically happens in the oilfield, new entrants will ultimately expand the rig supply to the point that we reach a state of excess capacity, and pricing will drop accordingly. But in the meantime, we may see excess profits from snubbing over the next several years.

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Duff & Phelps is the premier global valuation and corporate finance advisor with expertise in complex valuation, dispute consulting, M&A and restructuring. The firm's more than 1,000 employees serve a diverse range of clients from offices in North America, Europe and Asia. For more information, visit www.duffandphelps.com.



Valuation and Corporate Finance Advisors

Energy Market Transaction

Majority Recapitalization



has completed a majority recapitalization by



Duff & Phelps Advises Surveying And Mapping, Inc. in a Majority Recapitalization with Austin Ventures

On February 28, 2014, Surveying And Mapping, Inc., a leading, independent, full-service provider of land surveying and mapping capabilities for oil and gas, electric energy, and transportation clients, completed a majority recapitalization with Austin Ventures.

About Surveying And Mapping, Inc.

Founded in 1994 in Austin, Texas, Surveying And Mapping, Inc. ("SAM" or the "Company") is a leading independent full-service provider of land surveying and mapping capabilities for clients in the domestic infrastructure industry. Supported by state-of-the-art technology, the Company offers end-to-end geospatial solutions through an extensive suite of services, including professional land surveying, hydrographic surveying, aerial mapping and photogrammetry, airborne, mobile, and terrestrial HDS LiDAR, subsurface utility engineering, utility coordination, geographic information system (GIS) asset inventory and management, as well as construction-phase services through SAM-Construction

Services, Inc. The Company delivers its services to clients across a wide range of attractive, growth-oriented end markets, including oil and gas, electric energy, transportation, railway, water/wastewater, and other infrastructure-related industries.

About Austin Ventures

Austin Ventures ("AV") has worked with talented entrepreneurs to build valuable companies for over 30 years. With \$3.9 billion of capital raised, AV is the most active venture capital firm in Texas and one of the most established in the nation. AV invests in early stage and middle-market companies, and its strategy is to partner with talented executives and entrepreneurs to build industry-leading companies predominantly in Texas.

Transaction Role

Duff & Phelps acted as the exclusive financial advisor to Surveying And Mapping, Inc. in connection with the majority recapitalization by Austin Ventures.

Public Markets Update as of August 22, 2014(1)

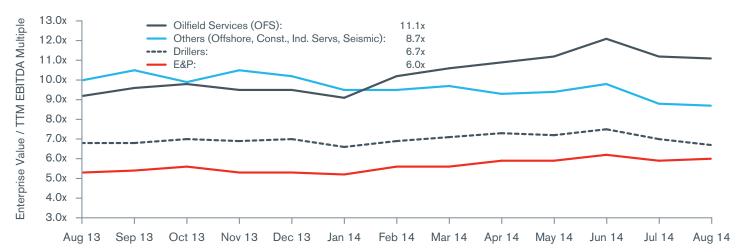
Energy Sub-Sector Summary (2)

| | Average LTM EBITDA _ | Avera EV/EBI | _ | Average % of 52-Week |
|-------------------------|-------------------------|-----------------|-------|----------------------|
| Oilfield Service (OFS) | Margin | LTM | 2014E | High |
| Diversified | 19.3% | 10.7x | 8.3x | 90.4% |
| Service Focused | 18.6 | 9.9 | 7.9 | 80.8 |
| Equipment Focused | 21.1 | 12.3 | 10.3 | 87.9 |
| E&P | | | | |
| Integrated Majors | 15.5% | 5.6x | 4.7x | 93.1% |
| Large Independents | 49.2 | 6.7 | 5.8 | 91.0 |
| Drillers | | | | |
| Land | 33.0% | 6.2x | 6.0x | 83.8% |
| Offshore | 44.1 | 7.1 | 9.9 | 75.2 |
| Others | | | | |
| Offshore Transportation | 26.7% | 8.5x | 12.4x | 78.3% |
| Construction | 8.3 | 9.4 | 9.5 | 76.8 |
| Industrial Services | 8.9 | 11.4 | 13.1 | 79.1 |
| Seismic Related | 18.8 | 6.0 | 2.9 | 60.2 |
| Average ⁽³⁾ | 22.9% | 8.5x | 8.3x | 82.6% |
| Median | 19.3% | 8.5x | 8.3x | 80.8% |

- (1) For definitions, refer to page 14.
- (2) For more data around the constituents of each sub-sector, refer to pages 9-14.
- (3) Excludes the highest and lowest values.

Source: Capital IQ

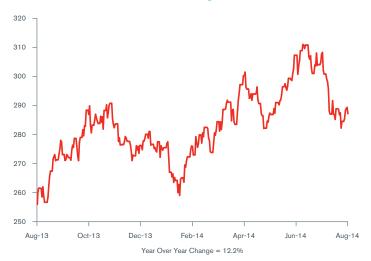
Average Major Energy Sectors' Trading Multiples for the Last 12 Months



Source: Capital IQ

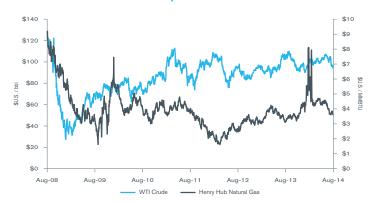
Market Review

OSX Index — Last 12 Months through 8/22/2014



Source: Capital IQ

Crude Oil and Natural Gas Spot Prices — 2008 to 8/22/2014



Sources: EIA, Bloomberg

Current Oil and Gas Prices as of 8/22/2014

| WTI Crude Oil | HH - Natural Gas | Oil 12 Mo Strip | Gas 12 Mo Strip |
|---------------|------------------|-----------------|-----------------|
| \$93.96 | \$3.89 | \$92.79 | \$4.99 |

Sources: EIA, Bloomberg

North American Rig Count as of 8/22/2014

| Location | This Week | +/- L | ast Week | +/- | Year Ago |
|---------------------|-----------|-------|----------|------|----------|
| Land | 1,822 | (19) | 1,841 | 130 | 1,692 |
| Inland Waters | 10 | 0 | 10 | (12) | 22 |
| Offshore | 64 | 2 | 62 | 2 | 62 |
| United States Total | 1,896 | (17) | 1,913 | 120 | 1,776 |

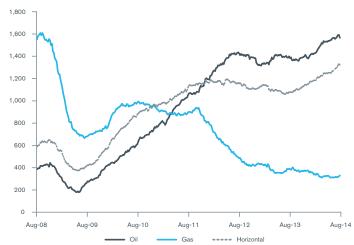
| Gulf of Mexico | 62 | 2 | 60 | 3 | 59 |
|----------------|-------|------|-------|-----|-------|
| Canada | 405 | 4 | 401 | 22 | 383 |
| North America | 2,301 | (13) | 2,314 | 142 | 2,159 |

Source: Baker Hughes

| U.S. Breakout | This Week | +/- | Last Week | +/- | Year Ago |
|---------------|-----------|------|------------------|------|----------|
| Oil | 1,564 | (25) | 1,589 | 182 | 1,382 |
| Gas | 330 | 9 | 321 | (57) | 387 |
| Miscellaneous | 2 | (1) | 3 | (5) | 7 |
| Directional | 209 | (7) | 216 | (47) | 256 |
| Horizontal | 1,321 | (8) | 1,329 | 246 | 1,075 |
| Vertical | 366 | (2) | 368 | (79) | 445 |

Source: Baker Hughes

U.S. Historical Rig Count — 2008 to 8/22/2014



Source: Baker Hughes

% of Total U.S. Rig Count

| | Gas | Oil | Land | Horizontal |
|-----------------|-------|-------|-------|------------|
| August 22, 2014 | 17.4% | 82.6% | 96.1% | 69.7% |
| Year Ago | 21.9% | 78.1% | 95.3% | 60.8% |

Source: Baker Hughes

Upcoming Events

North America Downstream Week September 22-24, 2014 | Houston, TX

The World Refining Association is launching its inaugural North America Downstream Week in Houston, TX. Bringing over 200 senior representatives from the North American downstream industry, the event will unite the entire value chain of the U.S. downstream market.

North American Assembly October 6-7, 2014 | Houston, TX

One of the fastest growing oil and gas events in the U.S., North America Assembly welcomes over 500 delegates including directors, CEO's, and presidents to discuss the business of oil, gas, investment, and finance.

Offshore Executive Conference: Gulf of Mexico

October 16, 2014 | Houston, TX

Together with its E&P magazine, and Subsea Engineering News (SEN) and Deepwater International newsletters, Hart Energy has developed the Offshore Executive Conference: Gulf of Mexico to provide an annual forum for senior-level offshore oil and gas executives to discuss major activities throughout the Gulf.

IPAA Wildcatters' Sporting Clays October 17, 2014 | Dallas, TX

The IPAA Wildcatters' Sporting Clays invitational is the premier oil and gas industry sporting clay tournament benefiting IPAA's Educational Foundation. The tournament will be held at the Dallas Gun Club from 11:00 am – 5:00 pm outside of Dallas in Lewisville, TX.

Featured Articles

Mexico Senate Approves Final Bill to Open Energy Sector

Insight on the effects regarding the legislative overhaul of Pemex's 75-year monopoly in Mexico's energy sector.

http://in.reuters.com/article/2014/08/07/mexico-reforms-senate-idlNL2N0QD07D20140807

Reuters, August 7, 2014

Surge of Industrial Projects to Lift U.S. Gas Demand

An examination on natural gas demand this decade due to the increase of petrochemical investments and other U.S. industrial projects.

http://fuelfix.com/blog/2014/07/08/ surge-of-industrial-projects-could-lift-u-s-gasdemand-by-19-percent/

Fuelfix, July 8, 2014

Industry Remarks

Energy companies are taking their fracking operations from the land to the sea — to deep waters off the U.S., South American, and African coats. The practice has been around for two decades yet only in the past few years have advances in technology and vast offshore discoveries combined to make large scale fracking feasible offshore. "Fracking in the Gulf of Mexico is expected to grow by more than 10% over a two year period ending in 2015."

Douglas Stephens,Baker Hughes, President of
Pressure Pumping

John Schiller is expecting the horizontal wells in the Gulf of Mexico to drive higher profits than the onshore wells in the shale plays. "The biggest surprise going back into these old fields is how many wells we can simply turn back on," says Schiller. "Grand Isle 22 had been off for years. It was a simple turn on." Now five months later that old well is still making 50 barrels of oil per day. It used to be that when a well's "water cut" got too high an operator would just walk away rather than invest in more gear to separate it out. "You ran from water back then," says Schiller. "You recompleted four-foot sections at a time to get away from it. Today we welcome water. We can handle the water. If we're still making 15% oil cut, we're making money."

John Schiller, CEO for Energy XXI

E&P(1)

| | | Price as of | 52- | Week | Market | Enterprise | LTM | EB | SITDA | LTM EBITDA | EV/E | BITDA | % of 52-Week |
|-----------------------------------|--------|----------------|---------|------------------------|-------------|-------------|-------------|------------|------------|---------------|------|-------|--------------|
| | Ticker | 8/22/2014 | Low | High | Сар | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Integrated Majors | | | | | | | | | | | | | |
| BP plc | BP. | \$8.04 | \$7.07 | \$8.73 | \$147,460.5 | \$173,601.5 | \$376,480.0 | \$32,438.0 | \$38,523.0 | 8.6% | 5.4x | 4.5x | 92.1% |
| Chevron Corporation | CVX | 127.11 | 109.27 | 135.10 | 241,373.2 | 251,852.2 | 208,698.0 | 40,487.0 | 50,508.0 | 19.4 | 6.2 | 5.0 | 94.1 |
| ConocoPhillips | СОР | 80.24 | 62.74 | 87.09 | 98,660.5 | 113,835.5 | 58,949.0 | 22,119.0 | 24,236.0 | 37.5 | 5.1 | 4.7 | 92.1 |
| Exxon Mobil Corporation | хом | 98.50 | 84.79 | 104.76 | 420,072.2 | 442,730.2 | 397,129.0 | 61,766.0 | 77,403.9 | 15.6 | 7.2 | 5.7 | 94.0 |
| Royal Dutch Shell plc | RDSA | 39.75 | 30.97 | 41.21 | 253,112.6 | 282,913.6 | 446,636.0 | 48,508.0 | 62,881.0 | 10.9 | 5.8 | 4.5 | 96.5 |
| Total SA | FP | 63.43 | 53.99 | 72.42 | 144,547.7 | 178,106.7 | 232,535.0 | 37,430.4 | 38,555.1 | 16.1 | 4.8 | 4.6 | 87.6 |
| | | | | Average ⁽²⁾ | \$196,623.5 | \$221,618.5 | \$303,710.5 | \$39,715.8 | \$47,616.8 | 15.5% | 5.6x | 4.7x | 93.1% |
| | | | | Median | \$194,416.9 | \$214,979.5 | \$304,507.5 | \$38,958.7 | \$44,531.5 | 15.8% | 5.6x | 4.7x | 93.1% |
| Large Independents | | | | | | | | | | | | | |
| Anadarko Petroleum Corporation | APC | \$109.74 | \$73.60 | \$113.00 | \$55,524.4 | \$66,243.4 | \$16,432.0 | \$9,522.0 | \$11,449.9 | 57.9% | 7.0x | 5.8x | 97.1% |
| Apache Corp. | APA | 99.82 | 77.31 | 104.57 | 38,178.5 | 49,466.5 | 15,504.0 | 10,724.0 | 10,503.7 | 69.2 | 4.6 | 4.7 | 95.5 |
| Chesapeake Energy Corporation | СНК | 26.02 | 23.92 | 31.49 | 16,989.8 | 32,339.8 | 19,606.0 | 5,143.0 | 5,442.7 | 26.2 | 6.3 | 5.9 | 82.6 |
| Devon Energy Corporation | DVN | 74.15 | 56.65 | 80.63 | 30,334.8 | 45,567.8 | 14,529.0 | 5,897.0 | 7,268.7 | 40.6 | 7.7 | 6.3 | 92.0 |
| Encana Corporation | ECA | 21.97 | 16.03 | 24.52 | 16,281.7 | 20,403.7 | 6,295.0 | 2,846.0 | 3,552.9 | 45.2 | 7.2 | 5.7 | 89.6 |
| EOG Resources, Inc. | EOG | 106.27 | 76.77 | 118.89 | 58,178.1 | 62,857.7 | 16,164.0 | 8,078.5 | 9,267.4 | 50.0 | 7.8 | 6.8 | 89.4 |
| Marathon Oil Corporation | MRO | 40.00 | 31.57 | 40.75 | 26,979.4 | 32,240.4 | 14,274.0 | 7,721.0 | 7,064.0 | 54.1 | 4.2 | 4.6 | 98.2 |
| SandRidge Energy, Inc. | SD | 5.15 | 5.12 | 7.43 | 2,544.2 | 6,094.3 | 1,776.5 | 843.2 | 928.5 | 47.5 | 7.2 | 6.6 | 69.3 |
| | | | | Average ⁽²⁾ | \$30,714.7 | \$40,479.3 | \$13,866.3 | \$6,534.6 | \$7,183.2 | 49.2% | 6.7x | 5.8x | 91.0% |
| | | | | Median | \$28,657.1 | \$38,953.8 | \$15,016.5 | \$6,809.0 | \$7,166.3 | 48.7% | 7.1x | 5.9x | 90.8% |

For definitions see page 14 Source: Capital IQ

^{(1) \$} Millions, except for per share data

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

OILFIELD SERVICE (OFS)(1)(3)

| | | Price as of | 52-V | Veek | Market | Enterprise | LTM | EBI | TDA | LTM EBITDA | EV/EBITDA | | % of 52-Week |
|------------------------------------|--------|----------------|---------|------------------------|------------|------------|------------|-----------|-----------|---------------|-----------|-------|--------------|
| | Ticker | 8/22/2014 | Low | High | Сар | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Diversified | | | | | | | | | | | | | |
| Baker Hughes Incorporated | ВНІ | \$68.08 | \$46.25 | \$75.64 | \$29,617.7 | \$33,225.7 | \$23,313.0 | \$4,082.0 | \$4,905.7 | 17.5% | 8.1x | 6.8x | 90.0% |
| Halliburton Company | HAL | 67.47 | 47.15 | 74.33 | 57,385.1 | 62,741.1 | 30,510.0 | 6,428.0 | 7,383.1 | 21.1 | 9.8 | 8.5 | 90.8 |
| Schlumberger Limited | SLB | 109.03 | 80.68 | 118.76 | 141,350.4 | 148,062.4 | 46,808.0 | 12,707.0 | 13,907.0 | 27.1 | 11.7 | 10.6 | 91.8 |
| Weatherford International plc | WFT | 22.39 | 13.07 | 24.88 | 17,317.5 | 26,244.5 | 14,865.0 | 2,138.0 | 3,235.7 | 14.4 | 12.3 | 8.1 | 90.0 |
| | | | | Average ⁽²⁾ | \$43,501.4 | \$47,983.4 | \$26,911.5 | \$5,255.0 | \$6,144.4 | 19.3% | 10.7x | 8.3x | 90.4% |
| | | | | Median | \$43,501.4 | \$47,983.4 | \$26,911.5 | \$5,255.0 | \$6,144.4 | 19.3% | 10.7x | 8.3x | 90.4% |
| Service Focused | | | | | | | | | | | | | |
| Archer Limited | ARCHER | \$1.65 | \$0.73 | \$2.01 | \$958.2 | \$1,717.7 | \$2,001.1 | \$187.7 | \$216.5 | 9.4% | 9.2x | 7.9x | 82.3% |
| Basic Energy Services, Inc. | BAS | 23.80 | 11.29 | 29.84 | 1,028.2 | 1,808.6 | 1,329.2 | 265.1 | 320.6 | 19.9 | 6.8 | 5.6 | 79.8 |
| Calfrac Well Services Ltd. | CFW | 18.28 | 13.05 | 20.61 | 1,726.8 | 2,341.8 | 1,783.6 | 204.4 | 276.9 | 11.5 | 11.5 | 8.5 | 88.7 |
| C&J Energy Services, Inc. | CJES | 27.95 | 19.88 | 34.93 | 1,546.9 | 1,829.5 | 1,211.8 | 167.6 | 228.8 | 13.8 | 10.9 | 8.0 | 80.0 |
| Core Laboratories NV | CLB | 150.94 | 143.14 | 221.00 | 6,704.9 | 7,014.5 | 1,079.9 | 365.8 | 381.7 | 33.9 | 19.2 | 18.4 | 68.3 |
| Key Energy Services Inc. | KEG | 6.11 | 5.96 | 10.52 | 938.1 | 1,633.4 | 1,458.6 | 210.8 | 186.9 | 14.4 | 7.7 | 8.7 | 58.1 |
| Natural Gas Services Group Inc. | NGS | 29.10 | 24.70 | 34.96 | 364.3 | 350.3 | 89.3 | 39.2 | 43.8 | 44.0 | 8.9 | 8.0 | 83.2 |
| Newpark Resources Inc. | NR | 12.43 | 10.43 | 13.64 | 1,040.0 | 1,176.5 | 1,030.3 | 135.2 | 154.5 | 13.1 | 8.7 | 7.6 | 91.1 |
| Oil States International Inc. | OIS | 62.96 | 59.66 | 113.64 | 3,404.9 | 3,529.1 | 2,765.4 | 802.9 | 429.3 | 29.0 | 4.4 | 8.2 | 55.4 |
| RPC Inc. | RES | 22.37 | 14.22 | 25.15 | 4,895.3 | 5,004.5 | 2,062.6 | 546.8 | 654.4 | 26.5 | 9.2 | 7.6 | 88.9 |
| Seventy Seven Energy Inc. | SSE | 23.03 | 21.89 | 28.34 | 1,109.6 | 2,673.5 | 2,120.4 | 390.3 | 427.2 | 18.4 | 6.8 | 6.3 | 81.3 |
| Superior Energy Services, Inc. | SPN | 34.66 | 22.85 | 37.05 | 5,361.3 | 6,815.8 | 4,602.8 | 1,045.3 | 1,223.7 | 22.7 | 6.5 | 5.6 | 93.5 |
| TETRA Technologies, Inc. | TTI | 11.12 | 9.25 | 13.43 | 884.6 | 1,305.5 | 935.1 | 96.5 | 202.8 | 10.3 | 13.5 | 6.4 | 82.8 |
| Trican Well Service Ltd. | TCW | 14.05 | 10.93 | 16.61 | 2,102.3 | 2,690.9 | 2,136.1 | 129.2 | 224.6 | 6.0 | 20.8 | 12.0 | 84.6 |
| | | | | Average ⁽²⁾ | \$2,083.0 | \$2,710.6 | \$1,659.5 | \$291.9 | \$308.7 | 18.6% | 9.9x | 7.9x | 80.8% |
| | | | | Median | \$1,328.2 | \$2,085.7 | \$1,621.1 | \$207.6 | \$252.9 | 16.4% | 9.0x | 8.0x | 82.5% |

^{(1) \$} Millions, except for per share data

For definitions see page 14 Source: Capital IQ

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

OILFIELD SERVICE (OFS)(1)(3)

| | | Price as of | 52-\ | Week | Market | Enterprise | LTM | EB | TDA | LTM EBITDA | EV/E | BITDA | % of 52-Week |
|---|--------|----------------|---------|------------------------|------------|------------|------------|-----------|-----------|---------------|-------|-------|-----------------|
| | Ticker | 8/22/2014 | Low | High | Сар | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Equipment Focused | | | | | | | | | | | | | |
| Cameron International Corporation | CAM | \$72.58 | \$52.50 | \$74.53 | \$14,726.6 | \$17,613.6 | \$10,640.4 | \$1,561.9 | \$1,670.6 | 14.7% | 11.3x | 10.5x | 97.4% |
| CARBO Ceramics Inc. | CRR | 104.38 | 81.01 | 156.00 | 2,411.6 | 2,365.3 | 691.1 | 184.6 | 192.1 | 26.7 | 12.8 | 12.3 | 66.9 |
| Compressco Partners, L.P. | GSJK | 26.04 | 18.78 | 31.00 | 863.0 | 893.1 | 124.3 | 40.0 | 77.8 | 32.2 | 22.3 | 11.5 | 84.0 |
| Dover Corporation | DOV | 88.88 | 77.63 | 97.00 | 14,802.9 | 16,902.6 | 8,965.8 | 1,881.5 | 1,640.4 | 21.0 | 9.0 | 10.3 | 91.6 |
| Dresser-Rand Group Inc. | DRC | 68.23 | 51.46 | 71.91 | 5,227.5 | 6,280.7 | 2,788.4 | 408.5 | 472.8 | 14.6 | 15.4 | 13.3 | 94.9 |
| Dril-Quip, Inc. | DRQ | 98.86 | 94.99 | 121.07 | 3,952.1 | 3,609.5 | 891.6 | 272.8 | 303.3 | 30.6 | 13.2 | 11.9 | 81.7 |
| Exterran Holdings, Inc. | EXH | 42.99 | 26.50 | 45.90 | 2,881.2 | 4,862.0 | 2,896.9 | 601.3 | 655.4 | 20.8 | 8.1 | 7.4 | 93.7 |
| Exterran Partners, L.P. | EXLP | 28.50 | 25.61 | 31.48 | 1,586.3 | 2,652.1 | 501.4 | 211.6 | 276.6 | 42.2 | 12.5 | 9.6 | 90.5 |
| Flotek Industries Inc. | FTK | 27.72 | 18.51 | 32.92 | 1,494.7 | 1,549.4 | 407.1 | 88.4 | 0.0 | 21.7 | 17.5 | NA | 84.2 |
| FMC Technologies, Inc. | FTI | 60.03 | 47.58 | 63.92 | 14,098.5 | 15,045.5 | 7,582.0 | 1,167.0 | 1,269.7 | 15.4 | 12.9 | 11.8 | 93.9 |
| Forbes Energy Services Ltd. | FES | 4.88 | 2.93 | 5.75 | 106.3 | 399.2 | 437.6 | 67.0 | 76.9 | 15.3 | 6.0 | 5.2 | 84.9 |
| Forum Energy Technologies, Inc. | FET | 32.87 | 24.32 | 37.03 | 3,084.9 | 3,490.5 | 1,616.1 | 289.6 | 341.5 | 17.9 | 12.1 | 10.2 | 88.8 |
| General Electric Company | GE | 26.15 | 22.92 | 28.09 | 262,386.6 | 636,922.6 | 146,124.0 | 28,281.0 | 28,506.8 | 19.4 | 22.5 | 22.3 | 93.1 |
| National Oilwell Varco, Inc. | NOV | 84.00 | 71.72 | 86.41 | 36,140.1 | 35,489.1 | 23,957.0 | 4,509.0 | 4,581.0 | 18.8 | 7.9 | 7.7 | 97.2 |
| Nuverra Environmental Solutions, Inc. | NES | 13.60 | 12.92 | 27.40 | 363.5 | 940.0 | 515.1 | 77.0 | 101.3 | 14.9 | 12.2 | 9.3 | 49.6 |
| RigNet, Inc. | RNET | 45.93 | 32.36 | 59.06 | 809.2 | 833.7 | 272.3 | 61.2 | 74.1 | 22.5 | 13.6 | 11.3 | 77.8 |
| Tenaris SA | TEN | 21.62 | 19.56 | 24.42 | 25,518.8 | 24,383.7 | 10,330.0 | 2,755.7 | 2,802.6 | 26.7 | 8.8 | 8.7 | 88.5 |
| Tesco Corporation | TESO | 20.36 | 15.45 | 22.50 | 816.5 | 710.2 | 535.7 | 99.6 | 113.3 | 18.6 | 7.1 | 6.3 | 90.5 |
| The Weir Group PLC | WEIR | 43.20 | 33.74 | 47.20 | 9,217.7 | 10,516.7 | 4,073.4 | 851.6 | 862.5 | 20.9 | 12.3 | 12.2 | 91.5 |
| | | | | Average ⁽²⁾ | \$8,117.4 | \$8,714.0 | \$4,535.4 | \$887.5 | \$912.5 | 21.1% | 12.3x | 10.3x | 87.9% |
| | | | | Median | \$3,084.9 | \$3,609.5 | \$1,616.1 | \$289.6 | \$341.5 | 20.8% | 12.3x | 10.4x | 90.5% |

For definitions see page 14 Source: Capital IQ

^{(1) \$} Millions, except for per share data

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

DRILLERS(1)(3)

| | | Price as of | 52- | Week | Market | Enterprise | LTM | ЕВ | ITDA | LTM EBITDA | EV/E | BITDA | % of 52-Week |
|------------------------------------|--------|----------------|---------|------------------------|------------|------------|-----------|-----------|-----------|---------------|------|-------|--------------|
| | Ticker | 8/22/2014 | Low | High | Сар | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Land | | | | | | | | | | | | | |
| Helmerich & Payne, Inc. | НР | \$99.88 | \$62.39 | \$118.95 | \$10,809.7 | \$10,454.8 | \$3,599.2 | \$1,510.2 | \$1,565.8 | 42.0% | 6.9x | 6.7x | 84.0% |
| Nabors Industries Ltd. | NBR | 25.29 | 15.21 | 30.24 | 7,580.5 | 11,061.2 | 6,365.2 | 1,705.9 | 1,797.3 | 26.8 | 6.5 | 6.2 | 83.6 |
| Patterson-UTI Energy Inc. | PTEN | 32.24 | 18.83 | 38.43 | 4,711.4 | 5,278.0 | 2,825.1 | 919.9 | 986.4 | 32.6 | 5.7 | 5.4 | 83.9 |
| Pioneer Energy Services Corp. | PES | 14.39 | 6.72 | 18.40 | 909.5 | 1,379.8 | 981.0 | 242.7 | 268.3 | 24.7 | 5.7 | 5.1 | 78.2 |
| Precision Drilling Corporation | PD | 11.95 | 8.40 | 14.29 | 3,496.0 | 4,564.7 | 2,065.3 | 633.1 | 750.0 | 30.7 | 7.2 | 6.1 | 83.6 |
| Unit Corporation | UNT | 63.29 | 45.00 | 70.37 | 3,138.2 | 3,808.8 | 1,486.3 | 683.6 | 791.0 | 46.0 | 5.6 | 4.8 | 89.9 |
| | | | | Average ⁽²⁾ | \$4,731.5 | \$6,026.59 | \$2,494.0 | \$936.7 | \$1,023.3 | 33.0% | 6.2x | 5.7x | 83.8% |
| | | | | Median | \$4,103.7 | \$4,921.4 | \$2,445.2 | \$801.8 | \$888.7 | 31.6% | 6.1x | 5.7x | 83.8% |
| Offshore | | | | | | | | | | | | | |
| Atwood Oceanics, Inc. | ATW | \$48.36 | \$44.88 | \$58.46 | \$3,111.6 | \$4,461.0 | \$1,077.9 | \$532.4 | \$541.6 | 49.4% | 8.4x | 8.2x | 82.7% |
| Diamond Offshore Drilling, Inc. | DO | 43.21 | 43.16 | 66.35 | 5,926.1 | 7,089.4 | 2,733.6 | 1,044.6 | 1,068.0 | 38.2 | 6.8 | 6.6 | 65.1 |
| Ensco plc | ESV | 50.01 | 47.85 | 62.44 | 11,720.3 | 16,278.8 | 5,082.1 | 2,399.6 | 2,345.0 | 47.2 | 6.8 | 6.9 | 80.1 |
| Hercules Offshore, Inc. | HERO | 3.15 | 3.10 | 7.85 | 506.5 | 1,525.3 | 960.3 | 346.7 | 322.3 | 36.1 | 4.4 | 4.7 | 40.1 |
| Noble Corp. | NE | 27.68 | 26.04 | 40.66 | 7,037.9 | 13,636.7 | 4,606.6 | 2,306.3 | 2,029.0 | 50.1 | 5.9 | 6.7 | 68.1 |
| Ocean Rig UDW Inc. | ORIG | 19.01 | 16.12 | 20.97 | 2,507.0 | 6,483.8 | 1,476.2 | 729.6 | 881.0 | 49.4 | 8.9 | 7.4 | 90.7 |
| Parker Drilling Co. | PKD | 6.16 | 5.54 | 8.67 | 749.9 | 1,286.8 | 964.5 | 270.1 | 276.0 | 28.0 | 4.8 | 4.7 | 71.0 |
| Rowan Companies plo | RDC | 29.67 | 28.43 | 38.65 | 3,694.0 | 5,254.8 | 1,576.6 | 548.7 | 699.0 | 34.8 | 9.6 | 7.5 | 76.8 |
| SeaDrill Limited | SDRL | 36.69 | 32.40 | 48.09 | 18,091.1 | 30,914.1 | 4,836.0 | 2,482.0 | 2,938.2 | 51.3 | 12.5 | 10.5 | 76.3 |
| Transocean Ltd. | RIG | 37.97 | 37.67 | 55.74 | 13,752.3 | 22,107.3 | 9,603.0 | 3,897.0 | 3,539.0 | 40.6 | 5.7 | 6.2 | 68.1 |
| Vantage Drilling Company | VTG | 1.78 | 1.59 | 2.02 | 545.0 | 3,291.6 | 808.4 | 448.8 | 461.3 | 55.5 | 7.3 | 7.1 | 88.1 |
| | | | | Average ⁽²⁾ | \$5,449.4 | \$8,903.2 | \$2,590.4 | \$1,204.3 | \$1,253.9 | 44.1% | 7.1x | 6.8x | 75.2% |
| | | | | Median | \$3,694.0 | \$6,483.8 | \$1,576.6 | \$729.6 | \$881.0 | 47.2% | 6.8x | 6.9x | 76.3% |
| | | | | | | | | | | | | | |

For definitions see page 14 Source: Capital IQ

^{(1) \$} Millions, except for per share data

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

OTHERS(1)(3)

| | | Price as of | 52-V | Week | Market | Enterprise | LTM | EBI | ΓDA | LTM EBITDA | EV/E | BITDA | % of 52-Week |
|---------------------------------------|--------|-------------|---------|------------------------|-----------|------------|-----------|---------|---------|---------------|-------|-------|-----------------|
| | Ticker | 8/22/2014 | Low | High | Сар | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Offshore Transportatio | n | | | | | | | | | | | | |
| Bristow Group, Inc. | BRS | \$71.31 | \$64.10 | \$85.70 | \$2,536.1 | \$3,365.9 | \$1,594.1 | \$313.2 | \$319.5 | 19.6% | 10.7x | 10.5x | 83.2% |
| Gulfmark Offshore, Inc. | GLF | 38.48 | 37.35 | 53.89 | 1,015.2 | 1,535.0 | 497.3 | 193.4 | 198.9 | 38.9 | 7.9 | 7.7 | 71.4 |
| Hornbeck Offshore Services, Inc. | HOS | 41.95 | 37.44 | 59.93 | 1,523.5 | 2,327.9 | 585.5 | 265.0 | 311.9 | 45.3 | 8.8 | 7.5 | 70.0 |
| PHI Inc. | PHII | 36.54 | 33.50 | 42.70 | 565.7 | 907.3 | 891.2 | 161.1 | NA | 18.1 | 5.6 | NA | 85.6 |
| SEACOR Holdings Inc. | СКН | 79.87 | 75.25 | 99.00 | 1,583.2 | 2,066.7 | 1,302.9 | 240.4 | 260.9 | 18.5 | 8.6 | 7.9 | 80.7 |
| Tidewater Inc. | TDW | 49.15 | 45.51 | 63.22 | 2,443.8 | 3,908.1 | 1,486.7 | 442.1 | 409.9 | 29.7 | 8.8 | 9.5 | 77.7 |
| | | | | Average ⁽²⁾ | \$1,641.4 | \$2,323.9 | \$1,066.6 | \$253.0 | \$272.8 | 26.7% | 8.5x | 8.4x | 78.3% |
| | | | | Median | \$1,553.3 | \$2,197.3 | \$1,097.0 | \$252.7 | \$286.4 | 24.7% | 8.7x | 7.9x | 79.2% |
| Construction | | | | | | | | | | | | | |
| Cal Dive International Inc | DVR | \$0.80 | \$0.68 | \$2.17 | \$78.4 | \$317.8 | \$555.8 | (\$7.1) | \$6.9 | NM | NM | 46.0x | 36.6% |
| Chicago Bridge & Iron Company N.V. | СВІ | 63.13 | 57.54 | 89.22 | 6,830.1 | 8,908.8 | 12,214.8 | 1,046.2 | 1,150.5 | 8.6 | 8.5 | 7.7 | 70.8 |
| Fluor Corporation | FLR | 73.93 | 63.17 | 83.93 | 11,644.9 | 9,971.0 | 23,611.9 | 1,336.2 | 1,383.5 | 5.7 | 7.5 | 7.2 | 88.1 |
| Foster Wheeler AG | FWLT | 32.35 | 22.92 | 34.95 | 3,237.5 | 2,871.9 | 3,238.4 | 237.4 | 322.7 | 7.3 | 12.1 | 8.9 | 92.6 |
| Gulf Island Fabrication Inc. | GIFI | 20.63 | 18.06 | 26.82 | 299.2 | 267.9 | 567.2 | 38.5 | 45.1 | 6.8 | 7.0 | 5.9 | 76.9 |
| Helix Energy Solutions Group, Inc. | HLX | 26.31 | 19.44 | 28.00 | 2,776.8 | 2,834.9 | 1,006.1 | 321.2 | 375.2 | 31.9 | 8.8 | 7.6 | 94.0 |
| Jacobs Engineering Group Inc. | JEC | 53.89 | 49.57 | 66.88 | 7,170.4 | 7,260.2 | 12,619.4 | 707.0 | 774.4 | 5.6 | 10.3 | 9.4 | 80.6 |
| KBR, Inc. | KBR | 21.89 | 20.42 | 36.70 | 3,179.0 | 2,284.0 | 6,727.0 | 8.0 | 249.9 | 0.1 | NM | 9.1 | 59.6 |
| McDermott International Inc. | MDR | 7.39 | 6.58 | 9.36 | 1,756.1 | 1,985.7 | 2,284.1 | (222.1) | 48.4 | NM | NM | 41.0 | 79.0 |
| Oceaneering International, Inc. | OII | 68.23 | 66.00 | 87.64 | 7,369.5 | 7,346.2 | 3,515.7 | 796.3 | 865.1 | 22.6 | 9.2 | 8.5 | 77.9 |
| Willbros Group Inc. | WG | 10.69 | 7.66 | 13.69 | 540.5 | 774.7 | 2,149.0 | 100.2 | 116.9 | 4.7 | 7.7 | 6.6 | 78.1 |
| | | | | Average ⁽²⁾ | \$3,684.4 | \$3,842.7 | \$4,924.6 | \$360.8 | \$438.7 | 8.7% | 8.7x | 11.8x | 78.2% |
| | | | | Median | \$3,179.0 | \$2,834.9 | \$3,238.4 | \$237.4 | \$322.7 | 6.8% | 8.7x | 8.5x | 78.1% |

For definitions see page 14 Source: Capital IQ

^{(1) \$} Millions, except for per share data

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

OTHERS(1)(3)

| | | Price as of | 52- | Week | Market | Enterprise | LTM | EBI | ΓDA | LTM EBITDA | EV/E | BITDA | % of 52-Week |
|--------------------------------|--------|-------------|---------|------------------------|-----------|------------|-----------|---------|---------|---------------|-------|-------|--------------|
| | Ticker | 8/22/2014 | Low | High | Cap | Value | Revenue | LTM | 2014E | Margin | LTM | 2014E | High |
| Industrial Services | | | | | | | | | | | | | |
| Chart Industries Inc. | GTLS | \$67.66 | \$64.05 | \$130.85 | \$2,061.9 | \$2,198.9 | \$1,178.6 | \$178.1 | \$178.7 | 15.1% | 12.3x | 12.3x | 51.7% |
| CIRCOR International, Inc. | CIR | 70.36 | 56.88 | 83.37 | 1,243.6 | 1,170.6 | 847.8 | 109.8 | 110.0 | 12.9 | 10.7 | 10.6 | 84.4 |
| NOW Inc. | DNOW | 33.18 | 28.00 | 37.65 | 3,552.2 | 3,316.2 | 4,183.0 | 238.0 | 248.5 | 5.7 | 13.9 | 13.3 | 88.1 |
| Matrix Service Company | MTRX | 28.64 | 15.52 | 38.71 | 756.5 | 742.9 | 1,154.3 | 75.8 | 78.4 | 6.6 | 9.8 | 9.5 | 74.0 |
| MRC Global Inc. | MRC | 24.82 | 24.11 | 32.70 | 2,532.2 | 3,893.6 | 5,460.9 | 359.5 | 417.0 | 6.6 | 10.8 | 9.3 | 75.9 |
| Team, Inc. | TISI | 39.45 | 32.33 | 48.09 | 808.1 | 852.8 | 749.5 | 71.9 | 77.8 | 9.6 | 11.9 | 11.0 | 82.0 |
| | | | | Average ⁽²⁾ | \$1,661.5 | \$1,884.6 | \$1,840.9 | \$150.4 | \$153.9 | 8.9% | 11.4x | 10.9x | 79.1% |
| | | | | Median | \$1,652.8 | \$1,684.8 | \$1,166.4 | \$144.0 | \$144.3 | 8.1% | 11.3x | 10.8x | 79.0% |
| Seismic Related | | | | | | | | | | | | | |
| Bolt Technology Corp. | BOLT | \$17.02 | \$15.94 | \$22.76 | \$147.7 | \$126.5 | \$67.5 | \$17.6 | NA | 26.1% | 7.2x | NA | 74.8% |
| Dawson Geophysical Company | DWSN | 23.27 | 22.77 | 37.61 | 185.1 | 146.8 | 268.8 | 25.7 | 27.1 | 9.5 | 5.7 | 5.4 | 61.9 |
| ION Geophysical Corporation | Ю | 3.34 | 2.81 | 5.52 | 548.0 | 588.1 | 564.7 | 172.6 | 156.4 | 30.6 | 3.4 | 3.8 | 60.5 |
| Mitcham Industries Inc. | MIND | 13.34 | 12.65 | 17.87 | 169.1 | 172.6 | 90.5 | 4.0 | 38.1 | 4.4 | NM | 4.5 | 74.7 |
| Petroleum Geo Services ASA | PGS | 7.82 | 7.67 | 13.59 | 1,674.0 | 2,856.3 | 1,354.6 | 726.9 | 810.9 | 53.7 | 3.9 | 3.5 | 57.5 |
| TGC Industries Inc. | TGE | 3.98 | 3.69 | 8.53 | 87.4 | 70.9 | 106.9 | 9.6 | 26.0 | 9.0 | 7.4 | 2.7 | 46.7 |
| | | | | Average ⁽²⁾ | \$262.5 | \$258.5 | \$257.7 | \$56.4 | \$61.9 | 18.8% | 5.6x | 3.9x | 63.6% |
| | | | | Median | \$177.1 | \$159.7 | \$187.8 | \$21.6 | \$32.6 | 17.8% | 5.7x | 3.8x | 61.2% |

Source: Capital IQ

Enterprise Value

Market Capitalization + Total Debt + Preferred Equity + Minority Interest – Cash and Short Term Investments

EBITDA

Earnings Before Interest, Taxes, Depreciation, and Amortization

LTM

Last Twelve Months

^{(1) \$} Millions, except for per share data

⁽²⁾ Excludes the highest and lowest values

⁽³⁾ EBITDA does not reflect adjustments for extraordinary items

Appendix - Relevant M&A Transactions

| 9/1/14 8/18/14 | Agility Projects AS Cameron International's centrifugal compression business | Agility Projects AS offers engineering, procurement, construction, installation (EPCI), and commissioning services, for the offshore and onshore oil and gas industry in Norway. | NA | John Wood Group plc | \$164.0 |
|-------------------|---|--|--|--|-----------|
| 8/18/14 | centrifugal compression | | | | |
| | business | Cameron International's centrifugal compression business includes the Turbo-Air and MSG brands. In 2013 the business produced \$396MM in revenue. | NA | Ingersoll-Rand Pic | \$850.0 |
| 8/4/14 | Compressor Systems, Inc. | Compressor Systems, Inc. fabricates, sells, rents, and services natural gas compressors in the United States, Australia, Mexico, and internationally. The company offers reciprocating and rotary screw compressors. | Warren Equipment Company | Compresso Partners, L.P. | \$825.0 |
| 7/21/14 | AGR Petroleum Services Holdings AS | AGR Petroleum Services Holdings AS provides reservoir evaluations, well planning, well operations, and integrated field management services to the upstream oil and gas industry worldwide. | AGR Group ASA; Petco Invest AS; Petco Invest II AS | Silverfleet Capital Partners | \$270.4 |
| 7/16/14 | Cadre Services, Inc. | Cadre Services, Inc. produces frac-sand proppants for oil and natural gas applications. | NA | US Silica Holdings, Inc. | \$98.0 |
| 7/1/14 | Crest Pumping Technologies | Crest Pumping Technologies is a provider of downhole cementing, acidizing and pump down services. | NA | Nine Energy Service | \$174.0 |
| 6/26/14 | Erick Flowback Services, LLC and Rod's Production Services, LLC | Erick Flowback Services, LLC provides equipment and services to the oil and gas industry. Rod's Production Services, LLC provides well-test services for the oil and gas industry. | NA | New Source Energy Partners L.P. | \$116.8 |
| 6/25/14 | Nabors Industries Ltd., Completion & Production Services Businesses | Nabors's Completion & Production Units provide services that include stimulation, coiled tubing, cementing, wire line, work over and well services, and fluids management. | Nabors Industries Ltd. | C&J Energy Services, Inc. | \$2,918.8 |
| 6/1/14 | Axip Energy Services LP, Compression, Processing & After- Market Service Business | Axip Energy Services LP offers contract, aftermarket, and producer services to upstream and midstream oil and gas operators worldwide. | Axip Energy Services LP | Enerflex Ltd. | \$430.0 |
| 5/27/14 | Knox Oil Field Supply, Inc. | Knox Oil Field Supply, Inc. distributes and markets oilfield production equipment, including down-hole pumps, packers and anchors, valves and fittings, and rods and pipes. | NA | Applied Industrial Technologies, Inc. | \$132.8 |
| 5/23/14 | KUDU Industries, Inc. | KUDU Industries, Inc. manufactures cavity pump solutions for the global oil and gas industry. | PCM S.A. | Schlumberger Limited | \$239.1 |
| 5/8/14 | Desert NDT, LLC | Desert NDT, LLC provides nondestructive testing services such as field X-ray inspection, welder testing, piping inspection, and storage tank inspection. | Sterling Partners | ShawCor Ltd. | \$260.0 |
| 5/7/14 | Wayne, Inc. | Wayne, Inc. engages in the design, manufacture, and supply of dispenser equipment and forecourt technologies for retail and fleet fueling applications. | General Electric Company | Riverstone Holdings LLC | \$600.0 |
| 5/6/14 | Arctic Energy Services, LLC | Arctic Energy Services, LLC provides equipment and services consisting of flow testing, contract pumping, fluid management, and equipment rentals. | NA | Prospect Capital Corporation | \$87.1 |

Dates in red are publicly announced transactions that have not closed.



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