

We put you first.
And keep you ahead.

Surface Integrated Services

Redacted



CLIENT

Redacted

PROJECT LOCATION

Redacted

FMC QUOTATION

WH15-QRF-892

DATE

06/03/2016

SIS



Our commitment to the success of our customers has prompted FMCTI to restructure our organization to form Surface Integrated Services, or SIS. We believe that aligning our Wellhead, Completion Services, Fluid Control and Measurement operations into a single integrated offering will improve customer returns. The alignment allows SIS to drive cost reduction through efficiency, innovation and standardization. If NPT is incurred as a result of an FMC Technologies equipment or service failure – all rental and labour charges will cease. Upon resolution, charges will resume.

Our sales teams will work directly with our customers to create customized integrated pads. Our versatile combinations of services and products meet our customers drilling, completion and pipeline tie-in (sale) needs.

FMC Technologies is the partner of choice to develop the North American shale plays. We look forward to partnering with you.

Sincerely,

Tim Eaton

General Manager, Surface Integrated Services

* (NPT or non-productive time is defined as unscheduled time spent idle resulting from an unplanned event, either equipment failure or service execution issue.)



SERVICE LIST

At FMC Technologies, we understand our customers' business and develop technology and service solutions that help them overcome their most difficult challenges. Simply put - We put you first and keep you ahead.



WELLHEAD

Surface Wellhead solutions reduce non-productive time and decrease drilling and completion risks, all while ensuring continuous safety.



FLUID CONTROL

Fluid Control businesses Flowline, Well Service Pump, Fluid Control Services, Invlaco, Compact Valves and Pumps allow customers to maximize safety and equipment longevity.



FRAC RENTAL

Frac rentals broad selection of fracturing equipment and services maximizes uptime with best in class technology and proven maintenance practices.



HSE

HSE is guided by our HSE vision, policy, strategy and management system, as well as our focus on Destination Zero; our company-wide goal of zero safety incidents, worldwide, every day.



MEASUREMENT

Measurement Solutions sets the global standard in design, manufacture and service of precision products and systems used to measure and control liquids and gases.



DSS

Delivering Superior Service addresses how SIS recruits, trains, deploys, manages and develops personnel who provide superior service to customers.



FLOWBACK

Using a closed loop system that filters out sand, water and oil and minimizes the venting of natural gas, our flowback products demonstrate environmental sensitivity and yield improved production.



FLOW TREATMENT

Flow Treatment offers customers truly innovative technology dramatically improving flow, water management and sand removal.



WIRELINE

Wireline Services include perforating, well integrity, reservoir analysis, production logging, fiber optic sensing for dynamic flow profiling, fracture optimization, and enhanced oil recovery monitoring.



OFFERING

Surface Integrated Services products and services ensure the success of your pad by delivering quality, reliability and performance.



One vendor -

From wireline services to frac rental through flowback, flow treatment and production systems, SIS does it all. Fewer vendors onsite reduces your risk of downtime, communication failure, logistics issues and promotes a safer pad environment. One vendor means fewer PO's, tickets and invoices to manage. Each of which improves your bottom line.

Highly skilled technicians -

Our service technicians are experts in providing shale specific services and are able to work across services giving you the ability to move from one activity to the next without delay - saving you valuable time. A lead technician working across the pad decreases the chance for communication errors and increases safety.

Best technology -

From the patented frac isolation sleeve, allowing you to stimulate multiple stages in single or pad wells at pressures above tubing head rating while protecting wellhead equipment from erosion to the hydrocyclonic desander that achieves overall solid removal efficiency of >90%, compared to conventional systems of <20-50%, FMCTI offers you some of the best technology in the industry.

WHY CHOOSE US?

We help you minimize costs, maximize performance and optimize your bottom-line results.

1

FLAWLESS EXECUTION

FMCTI will provide a single point of contact, your Account Manager, to work with you for all your product and service needs. We will ensure your project is managed from proposal through production. Working with us across the well's life cycle will allow us to predesign your well site minimizing its footprint and maximizing its output. While on site, FMCTI will provide a knowledgeable and experienced Technical Service Lead who will guide field execution.

2

QUALITY

FMCTI is known for highly engineered, high quality solutions. Our engineering standards and technology are higher than industry standards and our training programs, including FMC University and School of Applied Learning and the FMC Tomball Learning Pad are state of the art. A commitment to quality is an FMCTI core value.

3

COST SAVINGS

Highly skilled cross-trained technicians reduce man-hours while streamlined communications reduce logistics and vendor management requirements. An engineered pad reduces downtime and optimizes the site resulting in day rate savings. Combining flowback with our patented desander reduces and limits erosion charges. Combining frac rental with flowback reduces rigging and third party crane charges. Increasing your volume with FMCTI allows us to pass the savings on to you.

4

EFFICIENCY GAINS

FMCTI's leading edge equipment offers significant time savings in a stand-alone application. When taken together, the result is truly powerful. For example, our speed wellhead systems save drill time and our proprietary time and efficiency manifolds, grease delivery system and articulating frac arm manifold save you pump time. Expand further and even more savings can be captured.

SIS Package - Proposed Line Item Pricing

Equipment & Services	SIS Package Rates	
	PU Rate	Unit
Description		
Well Prep / Workover Rig Drill Out Tree Rental - 7"-10K	Redacted	per well per day
Frac Tree Rental - 7"-10K Ground Level	Redacted	per well per day
Frac Tree Redress - 3-1 Average - 7"-10K Ground Level	Redacted	per well
TE Manifold Rental w/Spools and Flow Iron - 7"-10K Ground Level	Redacted	per well per day
TE Manifold Redress - 3-1 Average - 7"-10K Ground Level	Redacted	per well
SuperFrac Missile Rental - 7"-15K (16 HP & 32 LP Stations)	Redacted	per pad per day
SuperFrac Missile Redress - Level 2 - 7"-15K (16 HP & 32 LP Stations)	Redacted	per pad
Coil Tubing Drill Out Tree Rental - 7"-10K	Redacted	per well per day
Service Equipment Rental (Greasing Unit & Manifold)	Redacted	per pad per day
Service Equipment Rental (Test & Torque Unit)	Redacted	per pad per day
Service Consumables (Valve Grease)	Redacted	per pound
Frac Assist Equipment Package (Per Pad)	Redacted	per pad per day
Drill Out / Flow Back Equipment Package	Redacted	per day per pad
Drill Out / Flow Back Redress	Redacted	per well
Service Tech Rate	Redacted	per shift
Service Mileage Rate	Redacted	per mile
Towing Mileage Rate - RU/RD Frac	Redacted	per mile

Prices listed above are valid only if complete SIS Package Proposal is accepted.

Project Notes

Redacted

CLIENT NAME (UPPERCASE)

CLIENT SIGNATURE

DATE

3 Well Pad Pricing by Mode

Quantities Are Based on Project Assumptions Listed Separately

SIS Package Rates					
Operating Mode	Rate	Unit	QTY	SubTotal	Total
Well Prep	Redacted	per day	Redacted	Redacted	Redacted
RU - Frac <small>Towing Mileage</small> Includes:	Redacted	per day	Redacted	Redacted	Redacted
	Redacted	per well	Redacted	Redacted	
	Redacted	Technicians		Per Shift	
	Redacted	Service Vehicles		Per Shift	
	Redacted	Towing Trips		Per Pad	
Frac <small>Grease, Redress & Inspection</small> Includes:	Redacted	per day	Redacted	Redacted	Redacted
	Redacted	per well	Redacted	Redacted	
	Redacted	Technicians		Per Shift	
	Redacted	Service Vehicles		Per Shift	
RU - DO/FB <small>Towing Mileage</small> Includes:	Redacted	per day	Redacted	Redacted	Redacted
	Redacted	per well	Redacted	Redacted	
	Redacted	Technicians		Per Shift	
	Redacted	Service Vehicles		Per Shift	
	Redacted	Towing Trips		Per Pad	
DO & FB <small>Redress & Inspection</small> Includes:	Redacted	per day	Redacted	Redacted	Redacted
	Redacted	per well	Redacted	Redacted	
	Redacted	Technicians		Per Shift	
	Redacted	Service Vehicles		Per Shift	
RD - DO/FB <small>Towing Mileage</small> Includes:	Redacted	per day	Redacted	Redacted	Redacted
	Redacted	per well	Redacted	Redacted	
	Redacted	Technicians		Per Shift	
	Redacted	Service Vehicles		Per Shift	
	Redacted	Towing Trips		Per Pad	
Total (Per Pad)				Redacted	

3 Well Pad Pricing Estimate Project Assumptions			
Wells Considered In Pricing Model	Redacted	Expected Days For Shop Assembly & Testing Frac Tree & Manifold	Redacted
Wells per Pad	Redacted	Expected Days to Rig Up Well Prep	Redacted
Wells per Manifold	Redacted	Expected Days for Well Prep	Redacted
Wells per Drill Out / Flow Back Package	Redacted	Expected Days to Rig Up Frac	Redacted
Stages per well	Redacted	Expected Days to Field Test Frac Tree & Manifold	Redacted
Expected Stages per day Frac	Redacted	Expected Days For Frac Operations	Redacted
Screenouts Considered per well	Redacted	Expected Days to Rig Up Drill Out / Flowback	Redacted
Expected Days per Screenout	Redacted	Expected Days to Drill Out & Flowback	Redacted
Frac Iron Service Considered per well	Redacted	Expected Coil Units Utilized during Drill Out	Redacted
Expected Shifts per Frac Iron Service	Redacted	Expected Days to Rig Down Drill Out	Redacted
Hours Per Shift	Redacted	Expected Days to Flowback	Redacted
Shifts per Day	Redacted	Expected Days to Rig Down Drill Out / Flowback	Redacted
Expected Dist. to Location One Way	Redacted	Expected Greasing Interval	Redacted

CLIENT NAME (UPPERCASE)

CLIENT SIGNATURE

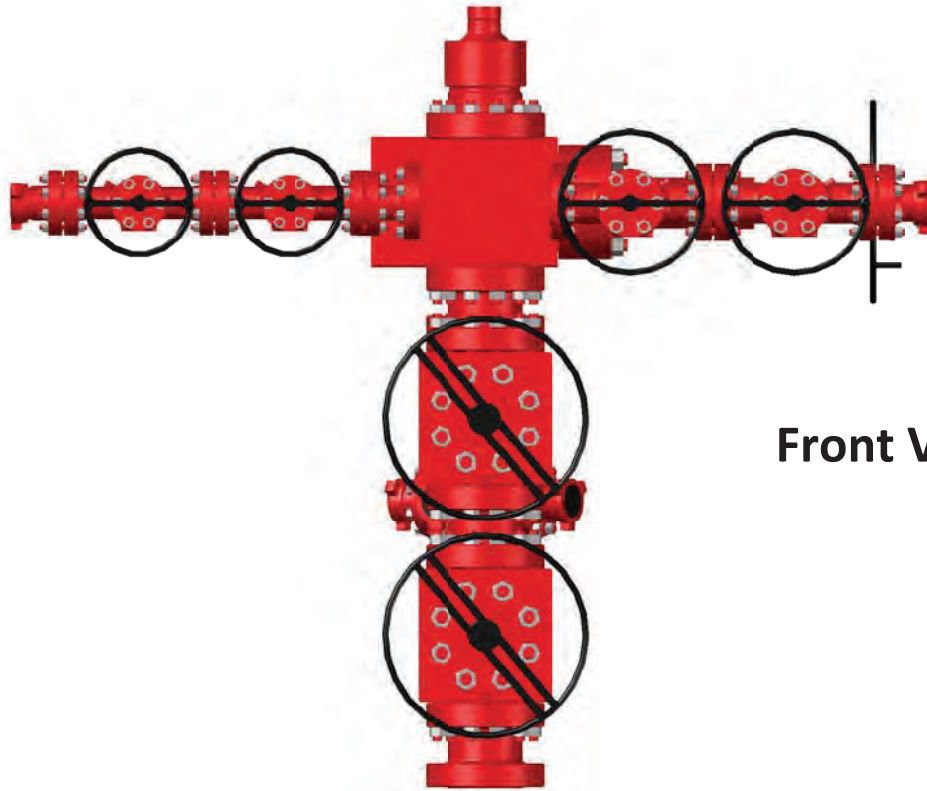
DATE



© FMC Technologies Inc.
This document and all of the information contained herein are the confidential and exclusive property of FMC Technologies Inc. and may not be reproduced, disclosed, or made public in any manner prior to express written authorization by FMC Technologies Inc.

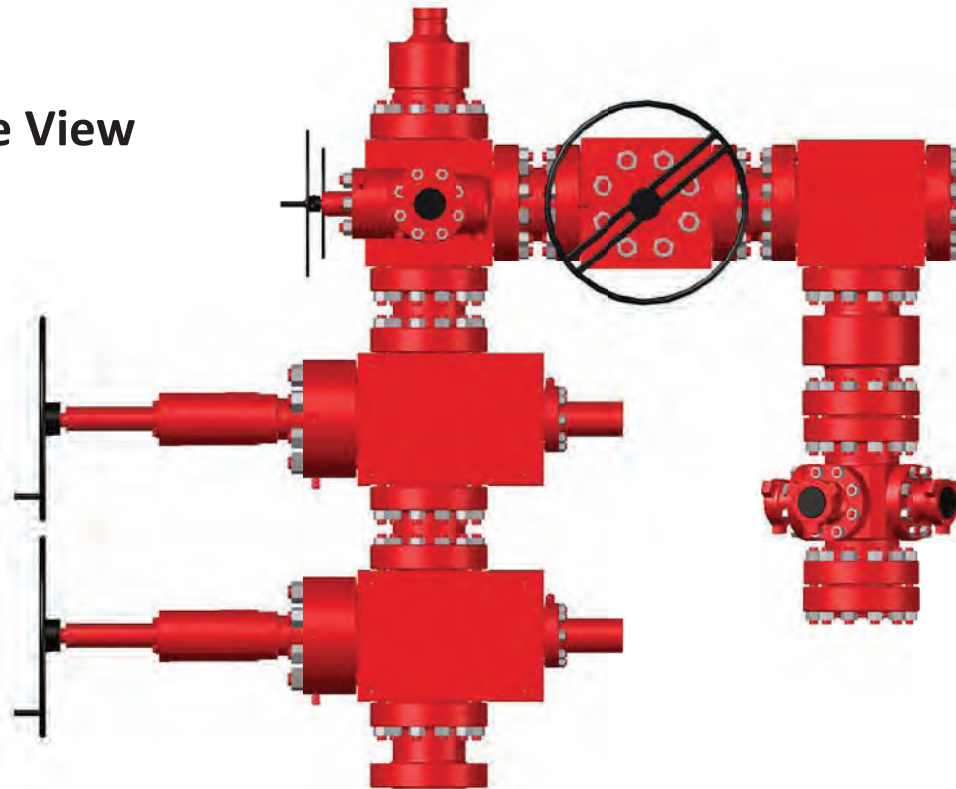
**We put you first.
And keep you ahead.**

7 1/16" 10K Ground Level Frac Tree



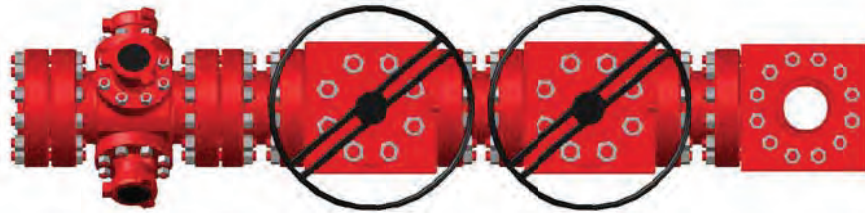
Front View

Side View

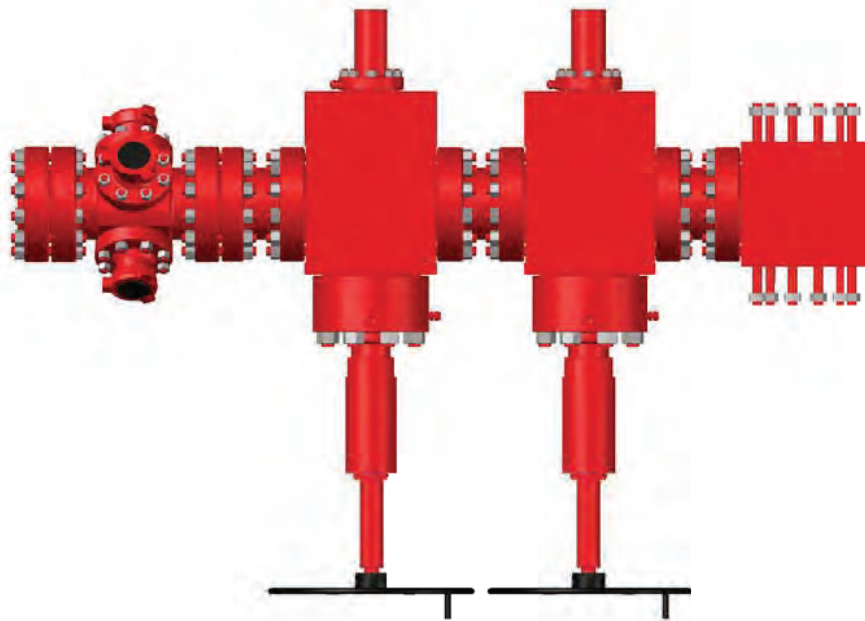


7 1/16" 10K Ground Level TE Manifold

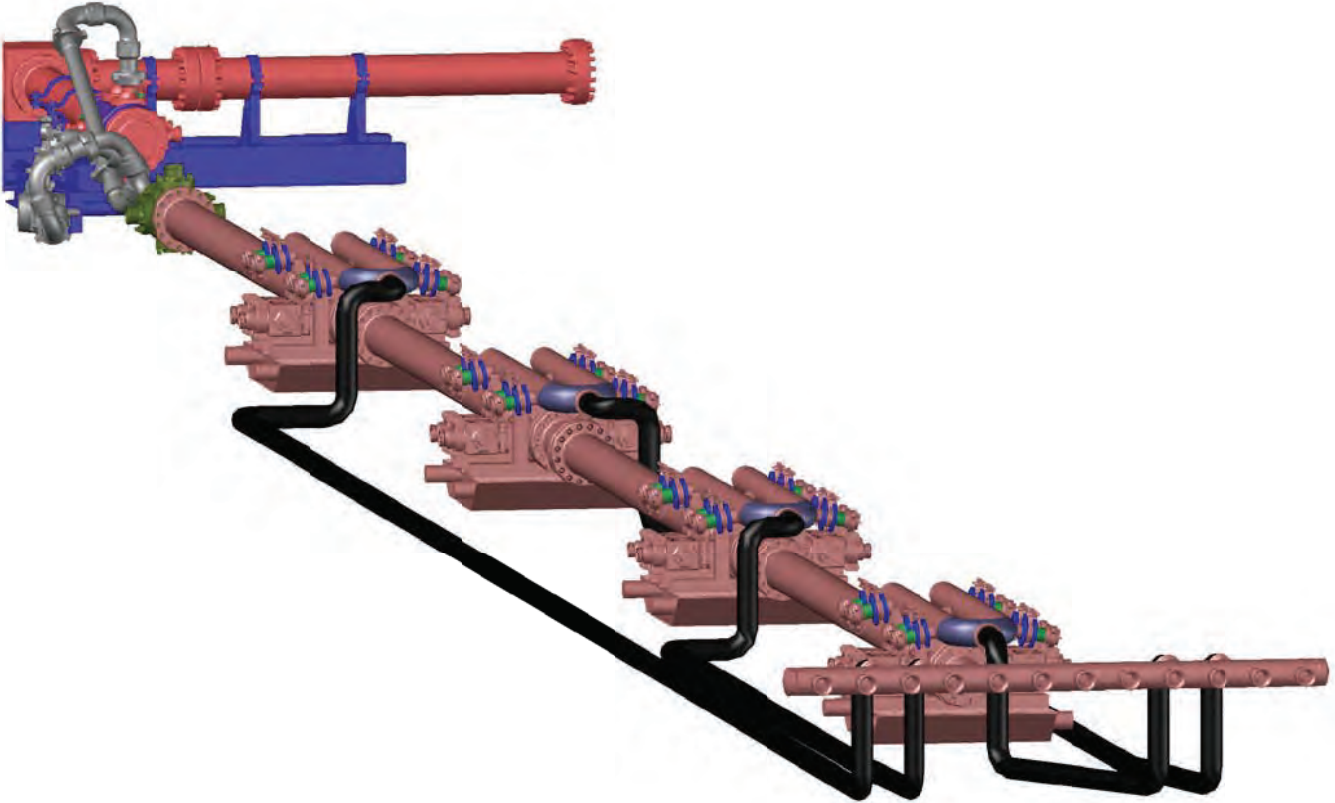
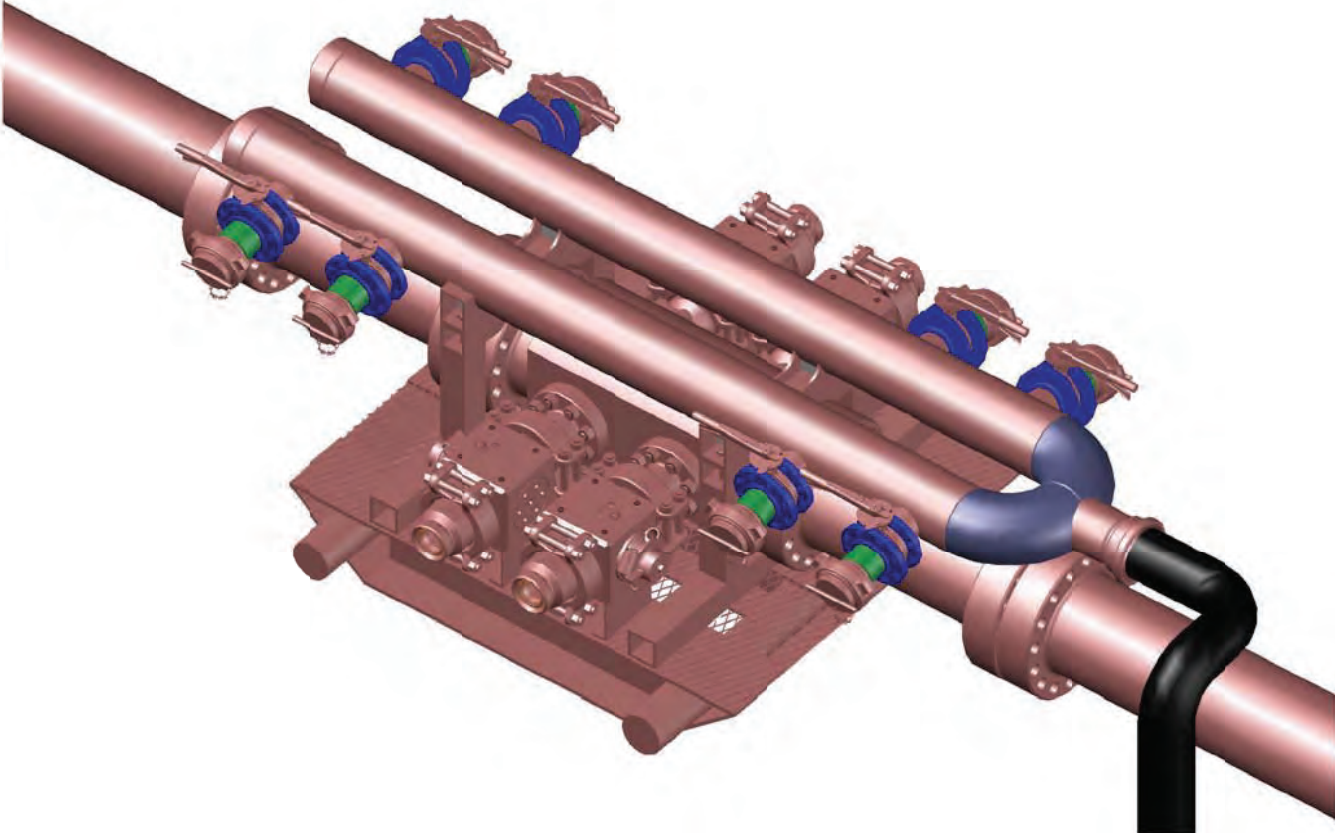
Front View



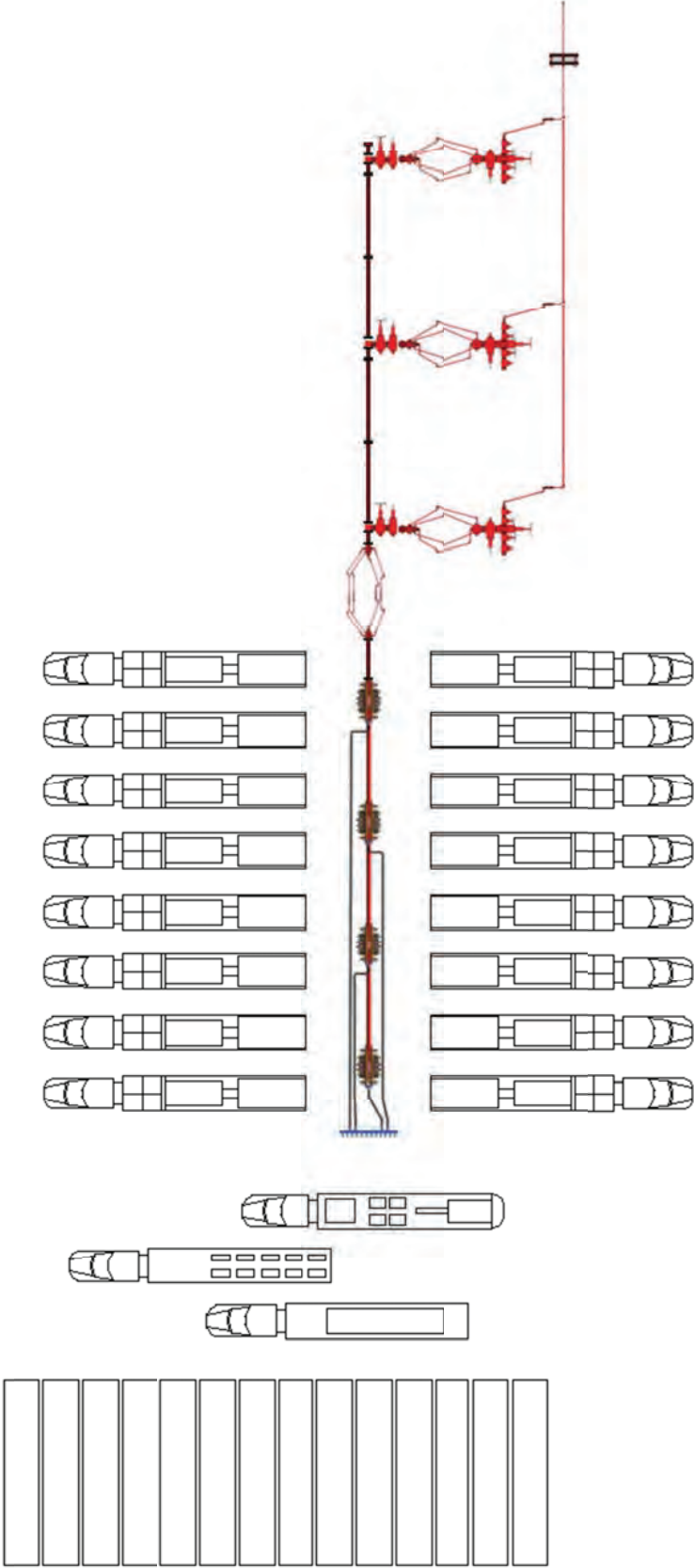
Top View



7 1/16" 15K Single Line Pumping Manifold



Typical Integrated Services Frac Pad Layout



Frac Assist

FMC Technologies to Supply (Frac Operations Package):

- 2" 10k Flow Line (150')
- 2" 10k Choke Manifold from well head to flow back tank
- Continuous H/P Restraints for all iron
- Power Plant and Fire Extinguishers
- Portable Office Trailer c/w Equipment
- Service Vehicles Equipped with Tools
- Field Notes Software, Cellular Communications
- Subsistence

Drill Out

FMC Technologies to Supply (Drillout Operations Package):

- 3" 10k lines Flow Line (150')
- 3" 10k Double Barrel Vertical Junk Catcher
- 3" 10k Choke Manifold
- 3" 10k Unionized ESD Valve
- Gas Buster
- Continuous H/P Restraints for all iron
- Power Plant and Fire Extinguishers
- Portable Office Trailer c/w Equipment
- Service Vehicles Equipped with Tools
- Field Notes Software, Cellular Communications
- Subsistence

WE LOOK
FORWARD TO
PARTNERING
WITH YOU.

Redacted



We put you first.
And keep you ahead.

ONLINE
www.fmctechnologies.com

TELEPHONE
Alan McNaughton
(214) 543-1790

ADDRESS
7301 North Hwy 161
Suite 198
Irving, TX 75039

