











# SERVICE ORDER CONTRACT

Customer: **Extraction Oil and Gas**

Ticket Number: **FL2745**

Lease & Well Number: **King HA 23-10**

Date: **12/7/2017**

In consideration of the services and materials to be sold and/or provided by C&J Spec-Rent Services, Inc. ("C&J") under this service order, the above-named customer ("Customer") agrees that:

The services and materials quoted under this service order are based on the best information available at the time that this quotation was prepared. When the actual work is performed the amounts and types of services and materials may require adjustments any pre-quoted items in service order. Actual amounts and types of services and materials will be charged at the time the work is performed. Unit prices from C&J's current price list and discounts quoted are applied as per this service order, unless otherwise noted. Except as otherwise provided for herein, this service order is only for the materials and services quoted hereunder.

The prices and discounts reflected herein are based on C&J being awarded the work on a first call basis. Prices may be adjusted if the work is not on a first call basis. Prices are valid for a period of thirty (30) days following this quotation. Taxes, if any, will be applied to the actual invoice.

**All services and materials sold and/or provided by C&J are subject to the terms of C&J's "Contractor's Standard Terms and Conditions" document (the "Terms and Conditions"), which contains provisions concerning risk allocation and warranties associated with C&J's services. The parties hereby agree that all materials and services will be furnished pursuant to the Terms and Conditions and this service order. A copy of the Terms and Conditions is attached to this proposal.**

**BY SIGNING IN THE SPACE PROVIDED BELOW, CUSTOMER (I) ACKNOWLEDGES RECEIPT OF A COPY OF THE TERMS AND CONDITIONS, AND (II) AGREES THAT THE TERMS AND CONDITIONS SHALL GOVERN ALL SERVICES AND MATERIALS SOLD AND/OR PROVIDED HEREUNDER. THE UNDERSIGNED FURTHER WARRANTS AND REPRESENTS THAT THE UNDERSIGNED IS AUTHORIZED TO EXECUTE THIS SERVICE ORDER AS CUSTOMER'S AGENT.**

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

**Customer Authorized Agent:** \_\_\_\_\_



## Field Cementing Water Analysis

Company: Extraction Oil and Gas  
 Well: King HA 23-10

Test Date: 12/7/2017  
 Ticket Number: FL2745

| Ion                | Sample Volume | Titer | Factor | Concentration | Units                  | Limit   |
|--------------------|---------------|-------|--------|---------------|------------------------|---------|
| pH                 |               |       |        | 7             |                        | 6 - 8   |
| Calcium            | 50            | 175   | 0.801  | 140.17        | mg/l                   | <300    |
| Total Hardness     |               |       |        | 250           | mg/l                   | <600    |
| Chlorides          |               |       |        | 92            | mg/l                   | <500    |
| Alkalinity         |               |       |        | 350           | mg/l CaCO <sup>3</sup> | <600    |
| Slurry Temperature |               |       |        | 81            | °F                     | 50-80°F |

| Water Analysis Limits |         |   |
|-----------------------|---------|---|
|                       | Limits  | Potential Impact of Excess  |
| pH                    | 6 - 8   | Accelerate or Retard Set Time, Short & Long Term Stability Issues           |
| Calcium               | <300    | Accelerate Set Times and Higher Mixing Viscosities                          |
| Total Hardness        | <600    | Accelerate or Retard Set Time and Higher Mixing Viscosities                 |
| Chlorides             | <500    | Accelerate Set Time, Higher Mixing Visc, Interfere with fluid loss chemical |
| Alkalinity            | <600    | Accelerate or Retard Set Time, Lower Compressive Strength, Higher Visc      |
| Slurry Temperature    | 50-80°F | Blend will not perform as designed  |

O-Tex Supervisor Signature: \_\_\_\_\_

Company Supervisor Signature: \_\_\_\_\_

| Job Safety Analysis Worksheet  |  |   | DATE:   | 12/7/2017 |
|--|--|---|---|-----------|
| LEASE NAME AND JOB TYPE:   | King HA 23-10  | Top Off   | JOB NUMBER:                                     | FL2745    |
| EMPLOYEE NAME AND JOB TITLE:   | Cheal, Sam   | Supervisor  | <b>"HAS YOUR IRON BEEN INSPECTED RECENTLY?"</b> |           |
| <b>PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED OR REQUIRED:</b>  |  |   |   |           |
| Hard Hat - Safety Toe Shoes/Boots - Safety Glasses - FR Apparel (worn on outer most layer) - Gloves - Hearing Protection   |  |   |   |           |
| SEQUENCE OF BASIC JOB STEPS  | POTENTIAL ACCIDENTS OR HAZARDS   | RECOMMENDED SAFE JOB PROCEDURES   |   |           |
| <b>LOCATION HAZARD ASSESSMENT / SITE WALK AROUND</b>   | Slips, Trips, Falls - Driving or walking obstructions - Environmental conditions (Ice, snow, mud, water, etc.) - Emergency evacuation route. | Hold Pre Rig Up Safety meeting to discuss hazards. Be cautious of your surroundings. Avoid cluttered work/walk areas. Practice good "house keeping" in work areas. Keep walking and emergency routes clear of obstruction.  |   |           |
| <b>SPOT EQUIPMENT</b>  | Over head obstructions - Running into or over unseen persons/items - Blind backing of equipment - Improper equipment placement               | ALWAYS use designated spotters when moving any vehicle. Do not move equipment before a walk around. Do not spot equipment near high risk areas. Do not obstruct evacuation route or road ways. Remember to chock vehicle wheels and set fire extinguishers one equipment is parked.   |   |           |
| <b>RIGGING UP IRON AND HOSES</b>   | Slips, trips, falls - Pinching, smashing, or crushing of body parts - Lifting injuries - Un safe condition of, or incorrect use of tools.    | Keep work area as clean as reasonable. Avoid carrying hardware through hazardous walking conditions. ALWAYS team lift to avoid un necessary strains. Be continuously aware of pinch points/body placement. Use the proper tool for the job. Do not use excessively worn or damaged tools.   |   |           |
| <b>RIGGING UP IRON AND HOSES (Cont'd)</b>  | Iron inspection up to date   | Inspect tag on iron to assure the inspection date is within the last 12 months  |   |           |
| <b>RAISING AND LOWERING HARDWARE AND EQUIPMENT TO RIG FLOOR</b>  | Falling or unsecured loads - Pinching or crushing injury - Damaged lifting equipment   | Do not walk or work under any elevated load. Always inspect lifting straps, cables, hooks, etc. before and after use. Discard damaged items. Use a tag line when possible to control movement of lifted items. Be aware of body placement/pinch points in relation to moving lifted objects. Always ensure load is secure. Never leave lifted load unattended.  |   |           |
| <b>CASING / WELL CONNECTIONS</b>   | Body placement - Congested work area - Raising/lowering items - Well control conditions  | If working on rig floor, be cautious of slippery conditions (drilling mud, ice, etc.). Before removing any casing/well connections, ensure all pressure is released. When making a casing connection, watch pinch points. Use extra care when hoisting cement head onto casing. When working in cellar, have a spotter. Obey the same rules as on floor. Be cautious of poor footing, difficult walking or standing conditions. |   |           |
| <b>PRE JOB SAFETY MEETING</b>  | All potential job related hazards  | Conduct a pre job safety meeting with rig crew and any other 3rd party contractors on location involved with the task at hand. Discuss operation procedures and safety hazards involved with pressure pumping operations. Set up a contingency plan incase of emergency, including muster points, first aid, safety vehicles, nearest hospital, safety contacts, etc.   |   |           |
| <b>PRESSURE TESTING LINES AND HARDWARE</b>   | High Pressure - Loose connections - Lines separating - Hardware blow outs  | Ensure ALL personnel are aware of testing operations. Clear everyone from working area. Keep open and clear communication while testing. Before beginning test, move all personnel to a safe zone at reasonable distance from iron and hardware. Do not attempt to access or repair any issues while equipment is under pressure. Confirm release of ALL pressure before continuing any operations.                             |   |           |
| <b>FLUID PUMPING</b>   | Blow outs - Hardware failure - Improper valve operations - Leaks or spills   | Always be aware of your self and those around you. Do not interact with the iron while pumps are in operation. If you see an issue, make all personnel aware and stop operations before attempting corrections. Double check all valve positions and function. Be aware of what is being pumped and its direction of flow. Report and identify any spills immediately.  |   |           |
| <b>WASHING UP / FLUID DISPOSAL</b>   | Loose connections - Lines blowing out of wash up tank - leaks/spills - Pumping into wrong disposal container - Over flowing pits             | Have someone visually inspect lines and hardware before and during clean up. Check valve placement and fluid flow to ensure all are going in the proper direction. Make sure connection at disposal container is secure. Stop operation immediately and report to supervisor if a leak or spill occurs.   |   |           |
| <b>RIGGING DOWN THE JOB</b>  | Slips, trips, falls - Pinching, smashing, or crushing of body parts - Lifting injuries - Un safe condition of, or incorrect use of tools.    | Keep work area as clean as reasonable. Avoid carrying hardware through hazardous walking conditions. ALWAYS team lift to avoid un necessary strains. Be continuously aware of pinch points/body placement. Use the proper tool for the job. Do not use excessively worn or damaged tools.   |   |           |
| <b>EXITING LOCATION AFTER JOB</b>  | Over head obstructions - Running into or over unseen persons/items - Blind backing of equipment - Improper equipment placement               | Use a spotter when moving equipment. Do not move vehicles until you have completed a walk around. Be aware of direction travel and any obstacles along the way. Do NOT rush. Before leaving location, ensure good "house keeping" procedures. Clean any trash or unused items from work zone. Report and tend to any spills or damages that may occurred during operations.   |   |           |
| <p><i>Any and ALL personnel retain the right to "STOP JOB AUTHORITY". This means that it is not only your right, but your responsibility to warn others of any situation that you find to be a potential safety hazard. You have the right to request the shut down of operations at any time you see the safety of yourself or your fellow workers in jeopardy. It is the responsibility of everyone on location to ensure a safe, successful job and work environment. Safety first.</i></p> |  |   |   |           |

