

CEMENT JOB REPORT



| | | | | | | | | | | | | | | | | | | | |
|---|----------|---|-------------------------|---|--|---------------|------|---------|----------|---|-------|-------------|-------------|-----------|--|--|--|--|--|
| CUSTOMER CARRIZO OIL & GAS | | DATE 19-JUL-12 | F.R. # 1001923864 | SERV. SUPV. RYAN SULLIVAN | | | | | | | | | | | | | | | |
| LEASE & WELL NAME HEMBERGER 3-26-34-8-60 - API 05123358140000 | | LOCATION 26-8N-60W | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | | | | | | | | | | |
| DISTRICT Brighton | | DRILLING CONTRACTOR RIG # Xtreme #19 | | TYPE OF JOB Intermediate | | | | | | | | | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | MECHANICAL BARRIERS MD TVD HANGER TYPES MD TVD | | | | | | | | | | | | | | | |
| 7" Top Cem Plug, Nitrile cvr, Phen | | Float Collar, Auto Fill, 7 - 8rd | | | | | | | | | | | | | | | | | |
| | | Float Shoe 7 - 8rd | | | | | | | | | | | | | | | | | |
| | | Centralizer, with Pins, 7 in | | | | | | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | LAB REPORT NO. | | PHYSICAL SLURRY PROPERTIES | | | | | | | | | | | | | | | |
| | | | | SACKS OF CEMENT SLURRY WGT PPG SLURRY YLD FT ³ WATER GPS PUMP TIME HR:MIN Bbl SLURRY Bbl MIX WATER | | | | | | | | | | | | | | | |
| Drilling Mud + Biocide | | N/A | | 0 9.5 0 0 00:00 0 | | | | | | | | | | | | | | | |
| Fresh Water + Magnacide | | N/A | | 0 8.33 0 0 00:00 10 | | | | | | | | | | | | | | | |
| SealBond Spacer + Magnacide | | N/A | | 0 8.4 0 0 00:00 40 | | | | | | | | | | | | | | | |
| Premium Lite Cement + adds | | | | 384 12.5 1.94 10.65 132.7 97.26 | | | | | | | | | | | | | | | |
| 50/50 (Poz/Class G Cement) + adds | | | | 156 13.5 1.71 8.30 47.5 30.78 | | | | | | | | | | | | | | | |
| Drilling Mud | | N/A | | 0 9.5 0 0 00:00 245.34 | | | | | | | | | | | | | | | |
| Available Mix Water 350 Bbl. | | Available Displ. Fluid 500 Bbl. | | TOTAL 475.54 128.03 | | | | | | | | | | | | | | | |
| HOLE | | TBG-CSG-D.P. | | | | COLLAR DEPTHS | | | | | | | | | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | | | | | | |
| 8.75 | 35 | 6425 | 6.366 | 7 | 23 | CSG | 6406 | 6406 | P-110 | 6406 | 6333 | 0 | | | | | | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | | TOP CONN | | | WELL FLUID | | | | | | | |
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. | | | | | |
| 8.9 | 9.63 | 36 | CSG | 1420 | 1420 | No packer | | 0 | 0 | 0 | 7 | 8RD | WATER BASED | 9.5 | | | | | |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | | CAL. MAX PSI | | OP. MAX | | MAX TBG PSI | | MAX CSG PSI | | MIX WATER | | | | | |
| VOLUME | UOM | TYPE | | WGT. | BUMP PLUG | TO REV. | | SQ. PSI | RATED | Operator | RATED | Operator | | | | | | | |
| 249.3 | BBLS | Drilling Mud | | 9.5 | 1072 | 0 | | 0 | 0 | 0 | 6333 | 4000 | Rig | | | | | | |
| Circulation Prior to Job | | | | | | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | | Circulation Time: 1.5 | | | | | Circulation Rate: 5 BPM | | | | | | | | | |
| Mud Density In: 9.5 LBS/GAL | | | | | Mud Density Out: 9.5 LBS/GAL | | | | | PV & YP Mud In: 0 | | | | | PV & YP Mud Out: 0 | | | | |
| Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | | Units: | | | | | Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | | | | | | |
| Displacement And Mud Removal | | | | | | | | | | | | | | | | | | | |
| Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | | Amount Bled Back After Job: 1.5 BBLS | | | | | | | | | | | | | | |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL | | | | | Method Used to Verify Returns: Visually | | | | | | | | | | | | | | |
| Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | | | Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | | | | | | | | | | | |
| Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | | | | | | |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | | Quantity: 52 | | | | | Type: <input checked="" type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | | | | | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD | | | | | | | | | | | | | | | | | | | |
| Plugs | | | | | | | | | | | | | | | | | | | |
| Number of Attempts by BJ: 0 | | | | | Competition: 0 | | | | | Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity: | | | | | | | | | |
| Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | | | | | | | | | | |
| Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | Top of Plug: 0 FT | | | | | Bottom of Plug: 0 FT | | | | | | | | | |
| Squeezes (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | | | | | | |
| BLOCK SQUEEZE <input type="checkbox"/> | | | | | SHOE SQUEEZE <input type="checkbox"/> | | | | | TOP OF LINER SQUEEZE <input type="checkbox"/> | | | | | PLANNED <input type="checkbox"/> UNPLANNED <input checked="" type="checkbox"/> | | | | |
| Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | PSI Applied: 0 | | | | | Fluid Weight: 0 LBS/GAL | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | | | | | | |
| Casing Test Pressure: 0 PSI | | | | | With 0 LBS/GAL | | | | | Mud | | | | | Time Held: 00 Hours 00 Minutes | | | | |

CEMENT JOB REPORT



Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
 None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
 None

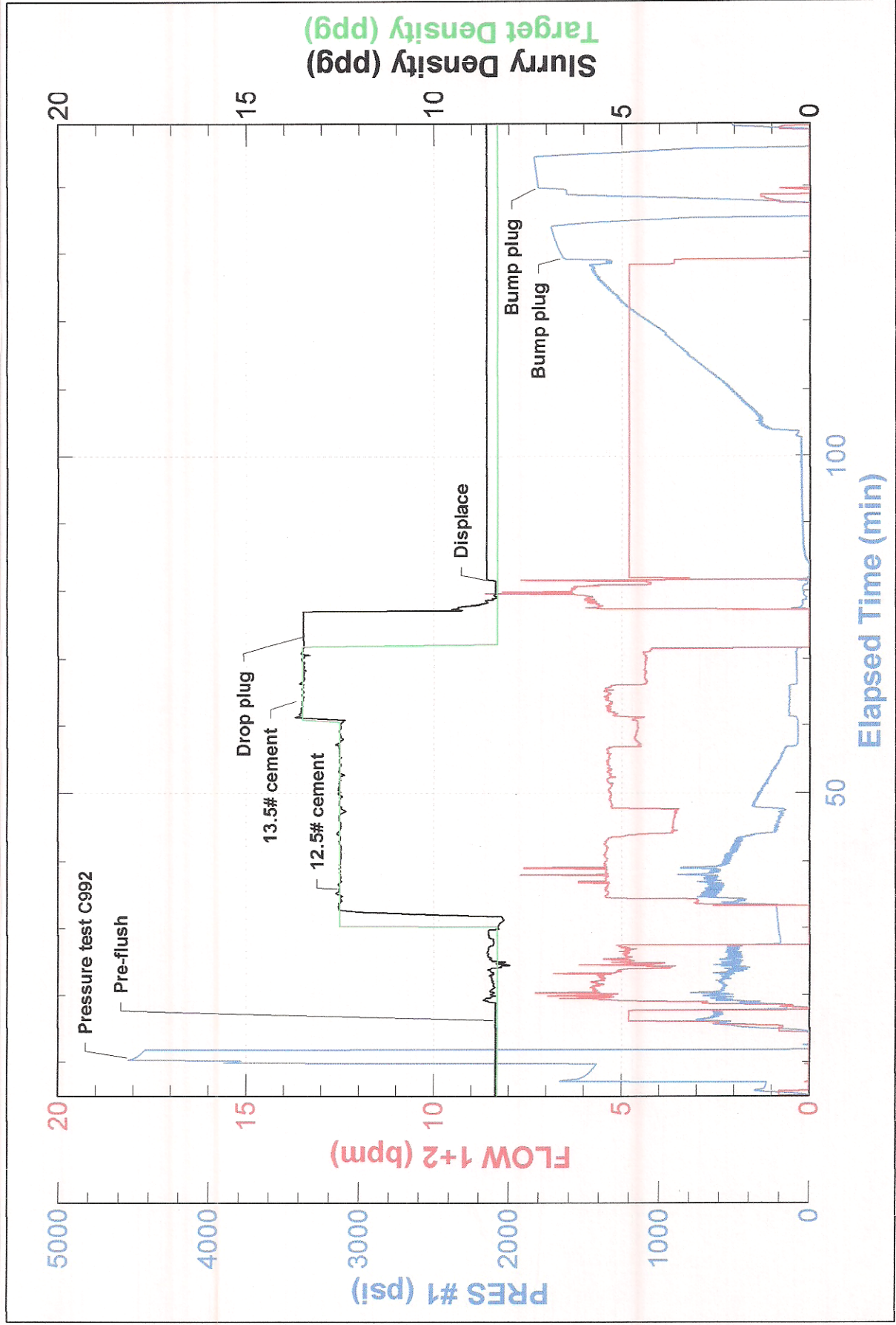
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
 Floats leaking by, bumped again per customer request. Floats still leaking, shut-in head @ 512 psi per customer request.

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | |
|--|------------------------|--|---------------------------------|-------------------------|-----------------------|---|---|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES | 4543 PSI |
| | | | | | | CIRCULATING WELL - RIG | <input checked="" type="checkbox"/> BJ <input type="checkbox"/> |
| 14:20 | 0 | 0 | 0 | 0 | N/A | Arrive on location, 77 miles, rig still running casing | |
| 15:10 | 0 | 0 | 0 | 0 | N/A | Spot trucks, pre-rig up safety meeting | |
| 16:50 | 0 | 0 | 0 | 0 | N/A | Pre-job safety meeting - Rig to pump mud w/ magnacide, per customer | |
| 17:36 | 1664 | 0 | 0 | 0 | WATER | Low pressure test | |
| 17:38 | 4543 | 0 | 0 | 0 | WATER | High pressure test | |
| 17:42 | 658 | 0 | 4.8 | 10 | WATER | Freshwater w/ magnacide | |
| 17:47 | 589 | 0 | 5.8 | 40 | SEAL BON | Seal bond spacer w/ magnacide | |
| 18:00 | 190 | 0 | 5.4 | 135 | CEMENT | Batch-up, weigh, & pump 384 sx of PLC + 0.25% Cello Flake + 0.4% FL-52 + 6% Bentonite @ 12.5 ppg | |
| 18:30 | 136 | 0 | 5.5 | 50 | CEMENT | Mix, weigh, & pump 156 sx of (50:50) Poz:G + 0.4% FL-52 + 3% Bentonite + 0.1% SMS + 20% S-8 @ 13.5 ppg | |
| 18:41 | 0 | 0 | 0 | 0 | N/A | Release plug | |
| 18:46 | 43 | 0 | 4.8 | 125 | MUD | Displace | |
| 19:13 | 110 | 0 | 4.8 | 120 | MUD | Caught cement | |
| 19:36 | 1319 | 0 | 3.6 | 5 | MUD | Rate change | |
| 19:38 | 1356 | 0 | 3.6 | 250 | MUD | Bump plug to 1622 psi, 1.6 bbls bled back, 8 bbls cement to surface, floats leaking by, bump again per customer | |
| 19:48 | 1824 | 0 | 0 | 0 | MUD | Bump plug to 1824 psi, hold for 5 minutes, floats still leaking by, pressured up to 512 psi and shut-in head & customer request | |
| 19:55 | 0 | 0 | 0 | 0 | N/A | Pre-rig down safety meeting | |
| 20:40 | 0 | 0 | 0 | 0 | N/A | Leave location | |
| BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | Service Supervisor Signature: |
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 1356 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 8 | 485 | 512 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |



BJ Services JobMaster Program Version 3.50
Job Number: 1001923864
Customer: Carrizo
Well Name: Hemberger 3-26-34-8-60





FIELD RECEIPT NO. 1001923864

| | | | | | | | | | | | | | |
|---|------------------------------------|--------------------------|------------|--|---------------------------|----------------------------|---------------------|--|-------------------|---|--------|-----------------------|--|
| CUSTOMER | | | | CARRIZO OIL & GAS | | CREDIT APPROVAL NO. | | PURCHASE ORDER NO. | | CUSTOMER NUMBER 20015134 - 00250300 | | INVOICE NUMBER | |
| MAIL INVOICE TO: | | | | STREET OR BOX NUMBER 1000 LOUISIANA ST, STE 1699 | | CITY Houston | | STATE Texas | | ZIP CODE 77002 | | | |
| DATE WORK COMPLETED | | MO. | DAY | YEAR | BHI REPRESENTATIVE | | WELL API NO: | | WELL TYPE: | | | | |
| 07 19 2012 | | 07 | 19 | 2012 | RYAN SULLIVAN | | 05123358140000 | | New Well | | | | |
| DISTRICT | | | | | | | | JOB DEPTH (ft) | | WELL CLASS: | | | |
| BJS, BRIGHTON | | | | | | | | 6,406 | | Oil | | | |
| WELL NAME AND NUMBER | | | | | | | | TD WELL DEPTH (ft) | | GAS USED ON JOB: | | | |
| HEMBERGER 3-26-34-8-60 | | | | | | | | 6,425 | | No Gas | | | |
| WELL LOCATION: | | LEGAL DESCRIPTION | | COUNTY/PARISH | | STATE | | JOB TYPE CODE: | | | | | |
| | | 26-8N-60W | | Weld | | Colorado | | Intermediate | | | | | |
| PRODUCT CODE | DESCRIPTION | | | UNIT OF MEASURE | QUANTITY | LIST PRICE UNIT | GROSS AMOUNT | % DISC. | NET AMOUNT | | | | |
| 100021 | Class G Cement | | | sacks | 78 | 31.800 | 2,480.40 | 65% | 868.14 | | | | |
| 100120 | Bentonite | | | lbs | 2399 | 0.530 | 1,271.47 | 65% | 445.01 | | | | |
| 100121 | Silica Flour | | | lbs | 2621 | 0.590 | 1,546.39 | 65% | 541.24 | | | | |
| 100275 | Sodium Metasilicate | | | lbs | 14 | 4.100 | 57.40 | 65% | 20.09 | | | | |
| 100295 | Cello Flake | | | lbs | 84 | 5.100 | 428.40 | 65% | 149.94 | | | | |
| 100317 | Poz (Fly Ash) | | | sacks | 78 | 14.200 | 1,107.60 | 65% | 387.66 | | | | |
| 398224 | Premium Lite Cement | | | sacks | 384 | 27.650 | 10,617.60 | 65% | 3,716.16 | | | | |
| 398416 | SealBond Spacer (w/ 30lb pail) | | | bbls | 40 | 277.200 | 11,088.00 | 65% | 3,880.80 | | | | |
| 488015 | FL-52 | | | lbs | 187 | 26.900 | 5,030.30 | 65% | 1,760.61 | | | | |
| 488019 | FP-6L | | | gals | 5 | 104.250 | 521.25 | 65% | 182.44 | | | | |
| 488252 | Magnacide 575 | | | gals | 1 | 307.000 | 307.00 | 65% | 107.45 | | | | |
| 488521 | SealBond Plus | | | lbs | 600 | 4.730 | 2,838.00 | 65% | 993.30 | | | | |
| 499632 | Granulated Sugar | | | lbs | 100 | 3.840 | 384.00 | 65% | 134.40 | | | | |
| 86714-1 | 7" Top Cem Plug, Nitrile cvr, Phen | | | ea | 1 | 244.000 | 244.00 | 65% | 85.40 | | | | |
| SUB-TOTAL FOR Product Material | | | | | | | | | | 37,921.81 | 65.00% | 13,272.64 | |
| ARRIVE LOCATION: | | | | MO. | DAY | YEAR | TIME | SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER. SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER. CUSTOMER AUTHORIZED AGENT <input checked="" type="checkbox"/> BHI APPROVED | | | | | |
| CUSTOMER REP. | | | | Bob McNeese | | | | | | | | | |
| SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS | | | | | | | | | | | | | |
| CUSTOMER AUTHORIZED AGENT | | | | | | | | | | | | | |

Well: HEMBEL BLEN 3-26-34-6-60

AFE: 312-120

Code: 160-110

Description: Cement 211 TAPEDUCIATE

Amount Approved: 22,749.76

Approved By: Bob McNeese

FIELD RECEIPT NO. 1001923864



| CARRIZO OIL & GAS | | | | CREDIT APPROVAL NO. | | PURCHASE ORDER NO. | | CUSTOMER NUMBER | | INVOICE NUMBER | | | | | | | | |
|--|--|--|-----|---------------------|--------------------|--------------------|--|------------------|---|----------------|--------------|---|---------|--|------------|--|--|--|
| STREET OR BOX NUMBER | | | | CITY | | STATE | | ZIP CODE | | | | | | | | | | |
| 1000 LOUISIANA ST, STE 1699 | | | | Houston | | Texas | | 77002 | | | | | | | | | | |
| DATE WORK COMPLETED | | MO. | DAY | YEAR | BHI REPRESENTATIVE | | WELL APINO: | | WELL TYPE: | | | | | | | | | |
| 07 19 | | 2012 | 19 | 2012 | RYAN SULLIVAN | | 05123358140000 | | New Well | | | | | | | | | |
| DISTRICT | | | | JOB DEPTH (ft) | | WELL CLASS: | | GAS USED ON JOB: | | | | | | | | | | |
| EJS, BRIGHTON | | | | 6,406 | | Oil | | No Gas | | | | | | | | | | |
| WELL NAME AND NUMBER | | | | TD WELL DEPTH (ft) | | JOB TYPE CODE: | | | | | | | | | | | | |
| HEMBERGER 3-26-34-8-60 | | | | 6,425 | | Intermediate | | | | | | | | | | | | |
| WELL LOCATION: | | | | COUNTY/PARISH | | STATE | | JOB TYPE CODE: | | | | | | | | | | |
| | | | | Weld | | Colorado | | | | | | | | | | | | |
| PRODUCT CODE | | DESCRIPTION | | | UNIT OF MEASURE | | QUANTITY | | LIST PRICE UNIT | | GROSS AMOUNT | | % DISC. | | NET AMOUNT | | | |
| A152 | | Personnel Per Diem Chrg - Cement Svc | | | ea | | 1 | | 210.00 | | 210.00 | | 0% | | 210.00 | | | |
| M100 | | Bulk Materials Blending Charge | | | cu ft | | 668 | | 5.450 | | 3,640.60 | | 65% | | 1,274.21 | | | |
| R798 | | Automatic Density System | | | job | | 1 | | 1,990.000 | | 1,990.00 | | 65% | | 696.50 | | | |
| | | SUB-TOTAL FOR Service Charges | | | | | | | | | 5,840.60 | | 62.66% | | 2,180.71 | | | |
| F065A | | Cement Pumping, 6001 - 7000 ft | | | Ghrs | | 1 | | 8,300.000 | | 8,300.00 | | 65% | | 2,905.00 | | | |
| F090 | | Fuel per pump charge - cement | | | pump/hr | | 4 | | 70.250 | | 281.00 | | 0% | | 281.00 | | | |
| J050 | | Cement Head | | | job | | 1 | | 830.000 | | 830.00 | | 65% | | 290.50 | | | |
| J390 | | Mileage, Heavy Vehicle | | | miles | | 154 | | 11.850 | | 1,824.90 | | 65% | | 638.72 | | | |
| J391 | | Mileage, Auto, Pick-Up or Treating Van | | | miles | | 154 | | 6.700 | | 1,031.80 | | 65% | | 361.13 | | | |
| | | SUB-TOTAL FOR Equipment | | | | | | | | | 12,267.70 | | 63.51% | | 4,476.35 | | | |
| J401 | | Bulk Delivery, Dry Products | | | ton-mi | | 2045 | | 3.940 | | 8,057.30 | | 65% | | 2,820.06 | | | |
| | | SUB-TOTAL FOR Freight/Delivery Charges | | | | | | | | | 8,057.30 | | 65.00% | | 2,820.06 | | | |
| | | FIELD ESTIMATE | | | | | | | | | 64,087.41 | | 64.50% | | 22,749.76 | | | |
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| 07 19 2012 | | 14:20 | | | | | | | <input checked="" type="checkbox"/> CUSTOMER AUTHORIZED AGENT | | | | | <input checked="" type="checkbox"/> BHI APPROVED | | | | |
| CUSTOMER REP. | | Bob McNeese | | | | | <input checked="" type="checkbox"/> CUSTOMER AUTHORIZED AGENT | | | | | <input checked="" type="checkbox"/> BHI APPROVED | | | | | | |
| SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS | | | | | | | | | | | | | | | | | | |