



Well History

Well Name: Bauer #1

| | | | | |
|-----------------------------------|---|----------------------------------|------------------------------|-------------------------------------|
| API/JWI 05123126630000 | Surface Legal Location NWNW 4 5N 64W | Field Name Wattenberg | State/Prov CO | Well Configuration Type Vertical |
| Ground Elevation (ft) 4,628.00 | Original KB Elevation (ft) 4,638.00 | KB-Ground Distance (ft) 10.00 | Spud Date 9/19/1985 00:00 | Rig Release Date 9/30/1985 00:00 |
| On Production Date 10/1/1985 | | | | |

Daily Operations

| Start Date | Summary | End Date |
|------------|--|------------|
| 11/28/2012 | ITP-0, ICP-0, ISCP-0. MIRU Basic rig 1548. RU pump lines to WH. Broke circ. and reversed circ. hole clean to verify there were not any tools left in the hole. After 30 min. of circulation surface began to communicate. RD lines. ND WH and NU BOP. PU 2 tag jts. and tagged @ 6,882' w/212 jts.. LD tag jts. and MIRU Pick Testers. POOH, tally, and hydro test tbg. to 6,000 psi.. Tested 210 jts..-6,817.54' of 2 3/8" 4.7# J-55 EUE 8 rd. prod. tbg.. Five jts. tested bad. RD Pick Testers. PU WLTC 4 1/2" RBP from RMOR. TIH w/prod. tbg. and stacked out @ 6,116.35' w/188 jts.. POOH 188 jts. to the derrick and LD RBP. Drain lines, shut in and secured the well for the night. | 11/28/2012 |
| 11/29/2012 | No press. @ WH. PU 3 7/8" blade bit and casing scraper for 4 1/2" 11.6# casing. TIH w/prod. tbg.. EOT @ 6,655.55' w/205 jts.. RU circ. equip. and rolled hole clean. POOH 205 jts. to the derrick. LD bit and scraper. PU WLTC RBP from RMOR for 4 1/2" 11.6# casing. TIH w/205 jts. from the derrick and set RBP @ 6,663.05' w/205 jts., tools and KB. POOH 10 jts. and drop 2 sacks of sand. POOH 195 jts. to the derrick. LD retrieving head and PU 32A tension packer. TIH w/72 jts. and start hunting holes. Found holes from 1432' to 1498'. POOH to the derrick and LD pakcer. Drain lines, shut in and secured the well for the night. | 11/29/2012 |
| 11/30/2012 | No press. @ WH. PU retrieving head for RBP. TIH w/prod. tbg. tagging sand @ 6,650' w/205 jts.. RU circ. equip.. Broke circ. and wash down latching onto RBP @ 6,663.05' w/same jt.. RD circ. equip. and released RBP. POOH 205 jts. onto float provided by ATP. LD tools. Leaving 5 bad jts. on the ground for the land owner and 205 jts. on the float. ATP hauled float to there yard. MIRU Nabors wireline. RIH w/collar locator, and Baker CIBP for 4 1/2" 11.6# casing. Got on correct depth and set CIBP @ 6,800'. POOH and laid down setting tool and locator. PU dump bailor filled w/2 sacks of cement. RIH and dumped cement ontop of CIBP. POOH, LD tools and RD Nabors. ND BOP and NU WH. RDMOL | 11/30/2012 |
| 1/29/2013 | 0 psi @ WH, MIRU Bayou #008, opened well to rig tank, PU 4 1/2" unlanding sub, unlanded casing @ 100K, worked casing from 0-100 k, only getting 16" of stretch, stretch calculation shows est. free pipe @ 1364', found in well file squeeze job performed March of 2000. NU BOP's, RU Superior Wireline, ran GR/CCL/CBLVDL log from 6200' to surface, original cmt top to 6020' and squeeze from 2070-1660 w/ signs of stringers up to 1350', LD logging tool, PU RIH w/3 1/8" slickgun, correlated cased/open logs getting on correct depth, shot squeezes holes @ 4200' 4spf (.36" holes), PU spotting again at 3500', shot squeeze holes @ 3500' 4 spf (.36"), all shots fired, RD e-line, PU RMOR PKR dressed for 4 1/2" 11.63# casing, 2 blast jts and 2 3/8" CS Hydrill workstring, TIH w/ tubing and tools, set PKR @ 3567.19, setting blast jts from 3525.95-3485.95, RU circulation equipment, broke circulation, established 3.2 bbls p/m rate @ 1000 psi, conditioned hole for 1 hour, released PKR, TOOH standing back to derrick, shut in and isolated well, drained lines, prepared for next day operations. SDFN | 1/29/2013 |
| 1/30/2013 | 0 psi @ WH, MIRU Nabors Wireline, RIH w/cement retainer dressed for 4 1/2" correlated cased/open logs getting on correct depth setting retainer @ 3,520', RD e-line, PU RMOR retainer stinger, 2 blast jts and TIH w/ tubing from derrick plus tools, tagged retainer @ 3220', stung into retainer, subbing up setting tubing 3' above rig floor MI&RU Halliburton Cement Services to 2 3/8" 4.7# CSHD, hold JSA and procedure meeting. Pressure test lines to 3,500 psi Preflush: Pumped 10 bbl fresh water to establish circulation 1st stage:EOT set @ 3,520.10" w/111 jts plus 2 blast jts and tools,,mix, batch, and pump 200 sks, Varicem 12.0 ppg 2.18 yield (77.65 bbls) Displace 12 bbls (1.6 bbls less then tubing cap. Broke Halliburton off of WH, PU stinging out of retainer, lay down 35 jts, RU rig circulation equipment, broke circulation, rolled tubing clean, continued TOOH LD w/ remaining 76 jts plus tools, MIRU Nabors Wireline, PU TIH w, CIBP dressed for 4 1/2", correlated cased/open logs getting on correct depth setting CIBP @ 660', TOOH LD setting tool, PU RIH w/3 1/8" slickgun, correlated cased/open logs getting on correct depth, shot squeeze hole @ 650', 4 spf (4 new holes. TOOH, RD Wireline. RU Halliburton onto 4 1/2" casing. 2nd stage, pumped 10 bbls of mud flush ahead, mix, batch and pump 250 sks of Varicem 12.0 ppg 2.18 yield (97 bbls), returned 17 bbls cement to tank, Displace 1.0 Bbls, RD and release Halliburton, SI and isolated well, drained lines, prepared for next day operations, SDFN. | 1/30/2013 |
| 1/31/2013 | 0 psi @ WH, MIRU roustabouts, dug around well head, MIRU welder, cut off 8 5/8" surface casing and 4 1/2" production casing 6' below ground level, welded cap onto surface casing, RD welder, backfilled burying capped casing. RD roustabouts. FINAL REPORT | 1/31/2013 |

The Road to Excellence Starts with Safety

| | | | |
|---|-----------------------------------|--|--------------------------|
| Sold To #: 304535 | Ship To #: 2978112 | Quote #: | Sales Order #: 900181467 |
| Customer: PDC ENERGY EBUS | | Customer Rep: Sailors, Chad | |
| Well Name: Bauer | Well #: 1 | API/UWI #: 05-123-12663 | |
| Field: Wattenberg | City (SAP): GREELEY | County/Parish: Weld | State: Colorado |
| Lat: N 40.434 deg. OR N 40 deg. 26 min. 0.726 secs. | | Long: W 104.562 deg. OR W -105 deg. 26 min. 15.342 secs. | |
| Job Purpose: Recement Service | | | |
| Well Type: Development Well | | Job Type: Recement Service | |
| Sales Person: AARON, WESLEY | Srvc Supervisor: NIELSON, BRANDON | | MBU ID Emp #: 479703 |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---------------------|---------|--------|---------------------------|---------|--------|--------------------|---------|--------|
| BANUELOS, GUADALUPE | 6.0 | 372277 | CHAVEZ, JEROME Christophe | 6.0 | 458298 | NIELSON, BRANDON K | 6.0 | 479703 |
| ROMERO, JOSEPH M | 6.0 | 512137 | SIMS, DENNIS A | 4.5 | 158880 | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10025030 | 37 mile | 11106651 | 37 mile | 11542778 | 37 mile | 11645063 | 37 mile |
| 12010172 | 37 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| | | | | | | | | |

TOTAL Total is the sum of each column separately

Job

| Formation Name | Job | | | Job Times | | | |
|------------------------|----------|-------------------|----------|---------------|-----------------|-------|-----------|
| Formation Depth (MD) | Top | Bottom | | Called Out | Date | Time | Time Zone |
| Form Type | | BHST | | On Location | 30 - Jan - 2013 | 06:00 | MST |
| Job depth MD | 4200. ft | Job Depth TVD | 4200. ft | Job Started | 30 - Jan - 2013 | 10:30 | MST |
| Water Depth | | Wk Ht Above Floor | 4. ft | Job Completed | 30 - Jan - 2013 | 11:49 | MST |
| Perforation Depth (MD) | From | To | | Departed Loc | 30 - Jan - 2013 | 15:36 | MST |
| | | | | | | 16:30 | MST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-----------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 10" Open Hole | | | | 10. | | | | 720. | 4200. | | |
| 12" Open Hole | | | | 12. | | | | 309. | 670 | | |
| 4 1/2" Casing | Unknown | | 4.5 | 4. | 11.6 | | | . | 6000. | | |
| 8 5/8" Surface Casing | Unknown | | 8.625 | . | 24. | | | . | 306. | | |
| Tubing | Unknown | | 2.375 | | 4.7 | | | . | 3520 | . | 3244. |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

Fluid Data

Stage/Plug #: 1

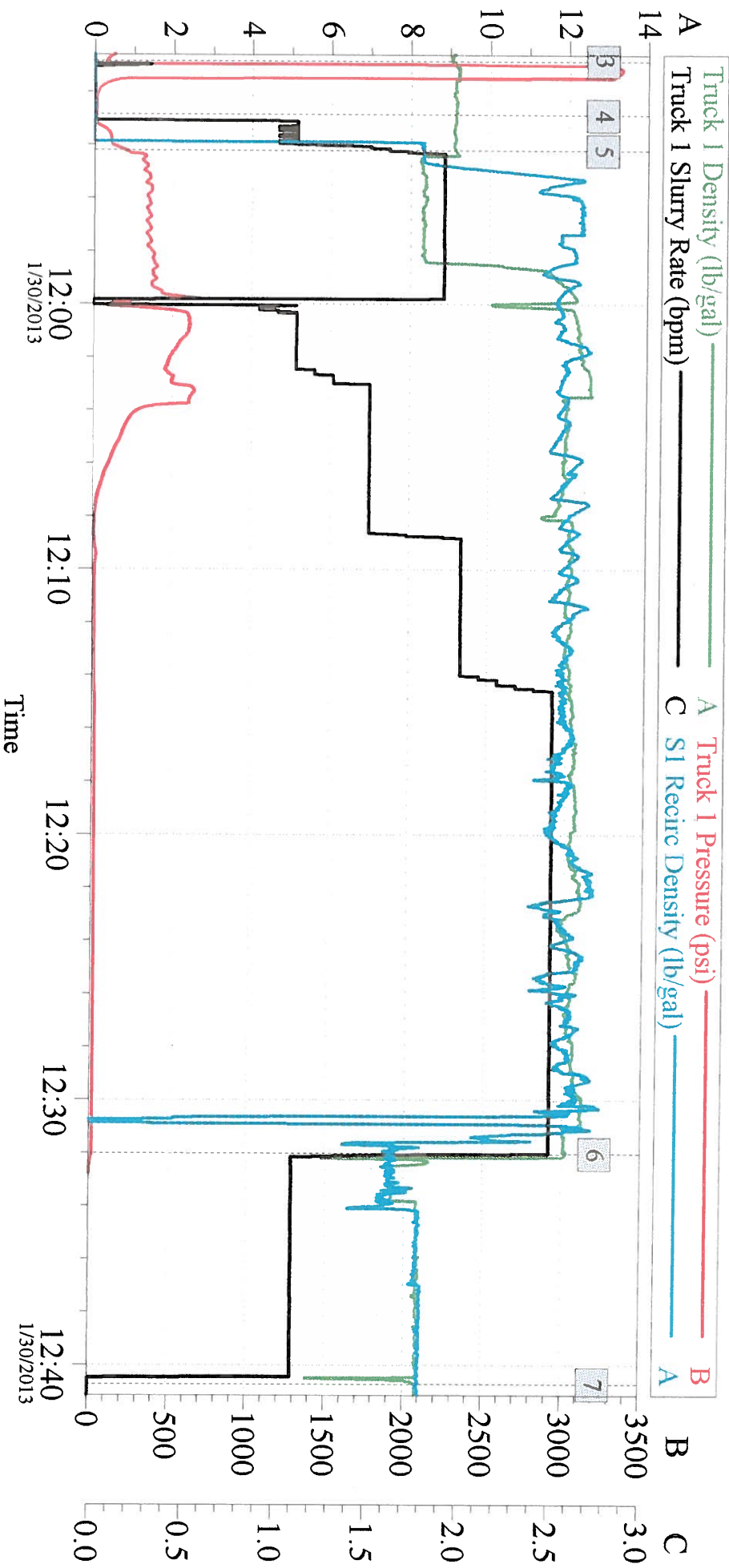
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|--|--------------|------------------------------|-------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 1 | VariCem 12.# | VARICEM (TM) CEMENT (452009) | 250.0 | sacks | 12. | 2.18 | 12.33 | | 12.3 |
| 2 | VariCem 12.# | VARICEM (TM) CEMENT (452009) | 200.0 | sacks | 12. | 2.18 | 12.33 | | 12.3 |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | 17 | Actual Displacement | | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | |
| Cement Left In Pipe | | Amount | 0 ft | Reason | Shoe Joint | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

The Road to Excellence Starts with Safety

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| Field: Wattenberg | City (SAP): GREELEY | County/Parish: Weld | State: Colorado |
| Legal Description: | | | |
| Lat: N 40.434 deg. OR N 40 deg. 26 min. 0.726 secs. | | Long: W 104.562 deg. OR W -105 deg. 26 min. 15.342 secs. | |
| Contractor: | Rig/Platform Name/Num: | | |
| Job Purpose: Recement Service | Ticket Amount: | | |
| Well Type: Development Well | Job Type: Recement Service | | |
| Sales Person: AARON, WESLEY | Srvc Supervisor: NIELSON, BRANDON | MBU ID Emp #: | 479703 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|----------------------|---------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Test Lines | 01/30/2013 11:48 | | | | | | | TESTED LINES TO 3500 PSI NO VISIBLE LEAKS |
| Pump Spacer 1 | 01/30/2013 11:52 | | 1.9 | 10 | | 390.0 | | FRESH WATER TO ESTABLISH CIRCULATION AND AN INJECTION RATE. |
| Pump Cement | 01/30/2013 11:57 | | 2.5 | 77.6 | | 16.0 | | 200 SKS SURFACE VARICEM MIXED @ 12 # WITH FRESH WATER |
| Pump Displacement | 01/30/2013 12:32 | | 1 | 12 | | -2.0 | | FRESH WATER. Cut displacement at 12 bbl leaving 1.6 bbl cmt in the tubing. Stung out of retainer and placed that cmt on top. |
| Shutdown | 01/30/2013 12:44 | | | | | | | Pull tubing set cast iron plug and shut perms. |
| Pump Spacer 1 | 01/30/2013 14:45 | | 2 | 10 | | | 16.0 | FRESH WATER MIXED WITH MUD FLUSH |
| Pump Cement | 01/30/2013 14:54 | | 2.5 | 97 | | | 178.0 | 250 SKS SURFACE VARICEM MIXED @ 12 # WITH FRESH WATER. CMT returned to surcae 81 bbl into cmnt leaving us with 17 bbl back after displacement. |
| Pump Displacement | 01/30/2013 15:30 | | 2.5 | 1 | | | 191.0 | FRESH WATER TO CLEAR PUMPS AND LINES |
| Shutdown | 01/30/2013 15:32 | | | | | | | |
| End Job | 01/30/2013 15:36 | | | | | | | |

PDC BAUER 1 SQUEEZE- PTA



Global Event Log

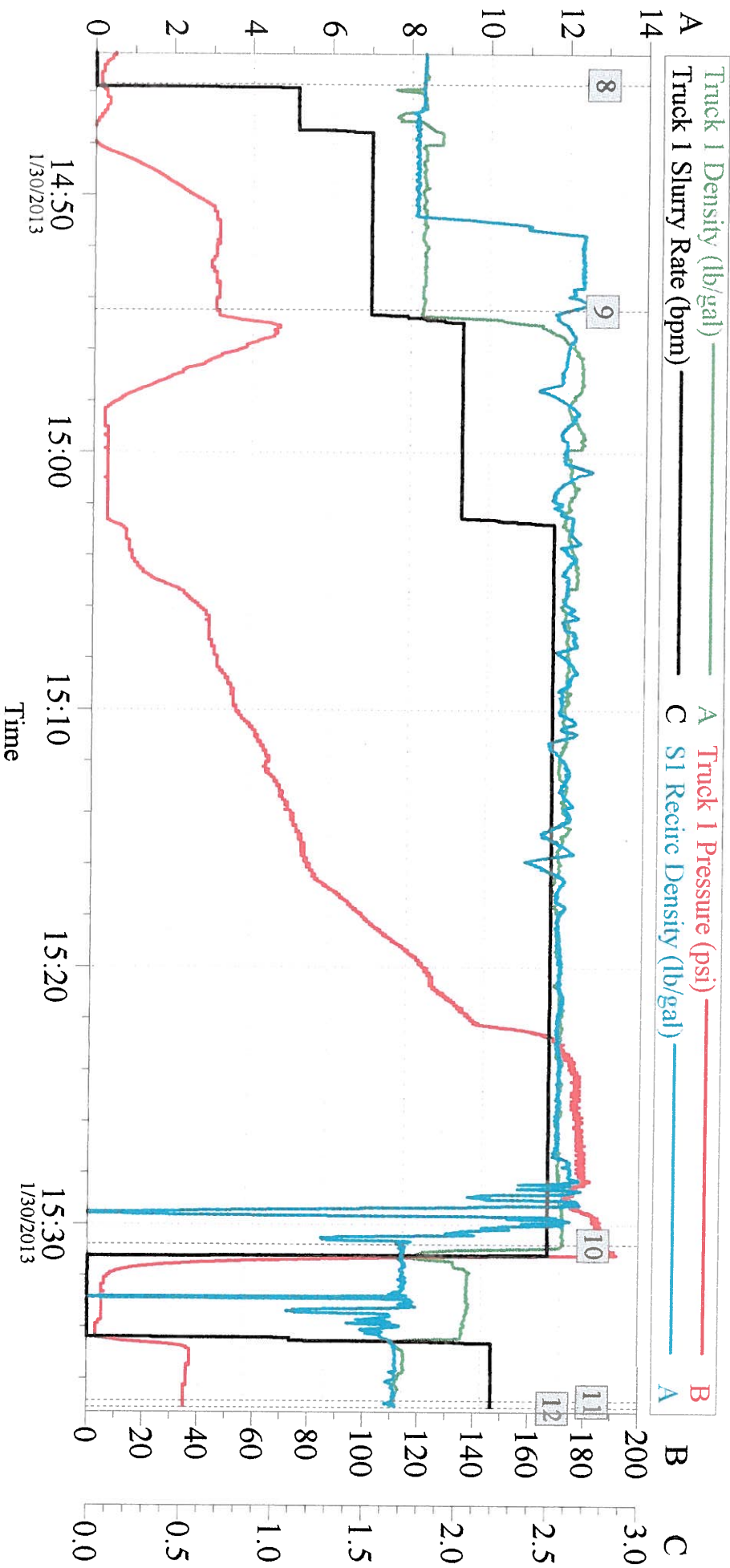
| Intersection | | T1P | Intersection | | T1P | Intersection | | T1P |
|--------------|-------------------|-----------------|--------------|---------------|----------------|--------------|-------------------|----------------|
| 1 | Starting Job | 11:15:44 1.000 | 2 | Start Job | 11:49:35 2.000 | 3 | Test Lines | 11:50:49 78.00 |
| 4 | Pump Spacer 1 | 11:52:52 9.918 | 5 | Pump Cement | 11:54:13 195.0 | 6 | Pump Displacement | 12:32:01 16.00 |
| 7 | Shutdown | 12:40:43 -3.000 | 8 | Pump Spacer 1 | 14:45:40 2.000 | 9 | Pump Cement | 14:54:28 44.00 |
| 10 | Pump Displacement | 15:30:47 186.3 | 11 | End Job | 15:36:52 35.00 | 12 | Ending Job | 15:37:07 35.00 |

Customer:
Well Description:

Job Date: 30-Jan-2013
UWI:

Sales Order #: 900181467

PDC BAUER 1 SQUEEZE- PTA



Global Event Log

| Intersection | | T1P | Intersection | | T1P | Intersection | | T1P |
|--------------|-------------------|-----------------|--------------|---------------|----------------|--------------|-------------------|----------------|
| 1 | Starting Job | 11:15:44 1.000 | 2 | Start Job | 11:49:35 2.000 | 3 | Test Lines | 11:50:49 78.00 |
| 4 | Pump Spacer 1 | 11:52:52 9.918 | 5 | Pump Cement | 11:54:13 195.0 | 6 | Pump Displacement | 12:32:01 16.00 |
| 7 | Shutdown | 12:40:43 -3.000 | 8 | Pump Spacer 1 | 14:45:40 2.000 | 9 | Pump Cement | 14:54:28 44.00 |
| 10 | Pump Displacement | 15:30:47 186.3 | 11 | End Job | 15:36:52 35.00 | 12 | Ending Job | 15:37:07 35.00 |

Customer:
Well Description:

Job Date: 30-Jan-2013
UWI:

Sales Order #: 900181467

SUPERIOR WELL SERVICES

SALES AND SERVICE FIELD TICKET

TICKET NO. 45- 008512

SERVICE DATE 1-29-13

TICKET PAGE of

0903 Master Field Ticket

| | | | |
|---|---------------------------------|--|--|
| CHARGE TO <i>P.D.C.</i> | | LEASE NAME OR PROJECT <i>Bauer #1</i> | |
| ADDRESS | | COUNTY <i>Weld</i> | STATE <i>CO</i> |
| | | FIELD <i>Wattenburg</i> | WELL PERMIT NUMBER |
| OWNER | | SERVICE ENGINEER <i>Mishner</i> | |
| PURCHASE ORDER / REFERENCE <i>ZCAS-3</i> | JOB TYPE <i>Log / holest</i> | CALLED OUT TIME DATE | ON LOCATION TIME <i>10:00</i> DATE <i>1-29</i> |
| | | COMPLETED TIME DATE | |

SIGNATURE of CUSTOMER OR CUSTOMER'S AGENT

(PLEASE PRINT NAME HERE)

I have read, understood and agreed to the terms and conditions printed on the reverse side hereof which include, but are not limited to, LIMITED WARRANTY, INDEMNITY, RELEASE and PAYMENT and represent that I have full power and authority to execute this agreement.

X

Chad Sailors
ZCAS 3

| LOC | PRICE REFERENCE | AMOUNT | DESCRIPTION | UNIT COST | TOTAL COST |
|-------------------------|--------------------|--------|-------------------------------|-----------|---------------------------------------|
| 45 | 70 212 0200 | 5000' | CBL Depth Charge | \$1.30/Kt | \$1500 ⁰⁰ |
| 45 | 70 211 0200 | 5000' | CBL OPS Charge | \$1.30/Kt | \$1500 ⁰⁰ |
| 45 | 70 200 9998 | | Fuel Charge | | \$300 ⁰⁰ |
| 45 | 70 299 0050 | 4200' | Squeeze Gun 4 holes | | \$800 ⁰⁰ |
| 45 | 70 299 0050 | 3500' | Squeeze Gun 4 holes | | \$800 ⁰⁰ |
| 45 | 75 830 0045 | 3520' | Set 4 1/2 Retainers (RMCR) | | \$3200 ⁰⁰ |
| 45 | 75 820 0045 | 670' | Set 4 1/2 CIBP (Owen) | | \$2100 ⁰⁰ |
| 45 | 70 299 0050 | 660' | Squeeze Gun 4 holes | | \$800 ⁰⁰ |
| Thru 1/2 Chd | | | Perf. holes = .36" Entry hole | | \$11,000 ⁰⁰ |
| | | | | | Less 19.55% - (\$2150 ⁰⁰) |
| | | | Jake M. Adam F. | | |
| | | | Shane K. Greg. N. | | |

CUSTOMER OR AGENT SIGNATURE

X

ZC45-3

I acknowledge that the equipment, materials and services as listed on this filed ticket were received.

Unless satisfactory credit terms have been established prior to services payment in advance may be required. All invoices rendered for services performed by Superior Well Services shall be paid as indicated on the invoice within thirty days (30) from date of receipt. If not paid within thirty (30) days the unpaid amount is subject to interest at one and one half percent (1 1/2 %) per month (eighteen percent per annum). All discounts indicated on the invoice are based upon payment within the invoice payment term and are subject to being cancelled by Superior Well Services if not paid within terms. If it should be necessary to employ an attorney to collect the amount due, you will be held liable for attorneys' fees and collection costs. Superior Well Services, print book is incorporated herein by reference, which also contains all invoice payment terms.

Subtotal

Bal Due

→ ~~8850~~ ⁹⁰

Main—White

Customer-Canary

Field—Pink

SUPERIOR WELL SERVICES

SALES AND SERVICE FIELD TICKET

TICKET NO. 45- 008404

SERVICE DATE Nov 30TH 12

TICKET PAGE of

0903 Master Field Ticket

| | | | |
|----------------------------|---------------------------|--------------------------------------|--|
| CHARGE TO P.D.C. | | LEASE NAME OR PROJECT BAUER #1 | |
| ADDRESS | | COUNTY WELD | STATE COLORADO |
| | | FIELD WATTENBERG | WELL PERMIT NUMBER |
| OWNER | | SERVICE ENGINEER K. MONAGHAN | |
| PURCHASE ORDER / REFERENCE | JOB TYPE PLUG / CEMENT | CALLED OUT TIME 9:45 A DATE 11-30 | ON LOCATION TIME 10:15 A DATE 11-30 |
| | | | COMPLETED TIME 2:00 P DATE 11-30 |

SIGNATURE of CUSTOMER OR CUSTOMER'S AGENT

(PLEASE PRINT NAME HERE)

I have read, understood and agreed to the terms and conditions printed on the reverse side hereof which include, but are not limited to, LIMITED WARRANTY, INDEMNITY, RELEASE and PAYMENT and represent that I have full power and authority to execute this agreement.

X *RC* 25541

[illegible]

CUSTOMER OR AGENT SIGNATURE

X *PR* ZPSA

I acknowledge that the equipment, materials and services as listed on this filed ticket were received.

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| | |
|-----------------|-----------|
| Subtotal | 1 3880,50 |
|-----------------|-----------|

DISCOUNT - 1500.00

Bal Due ➡ \$ 2380.50

Main—White

Customer-Canary

Field—Pink