

HALLIBURTON

iCem® Service

KP KAUFFMAN COMPANY INC

Ft. Lupton District, Colorado

For: Rick Ramos

Date: Friday, November 15, 2019

UPRR 43 PAN AM I #9

weld, Wattenberg

Case 1

Job Date: Friday, November 15, 2019

Sincerely,

Jamar Horton

2.0 Real-Time Job Summary

2.1 Job Event Log

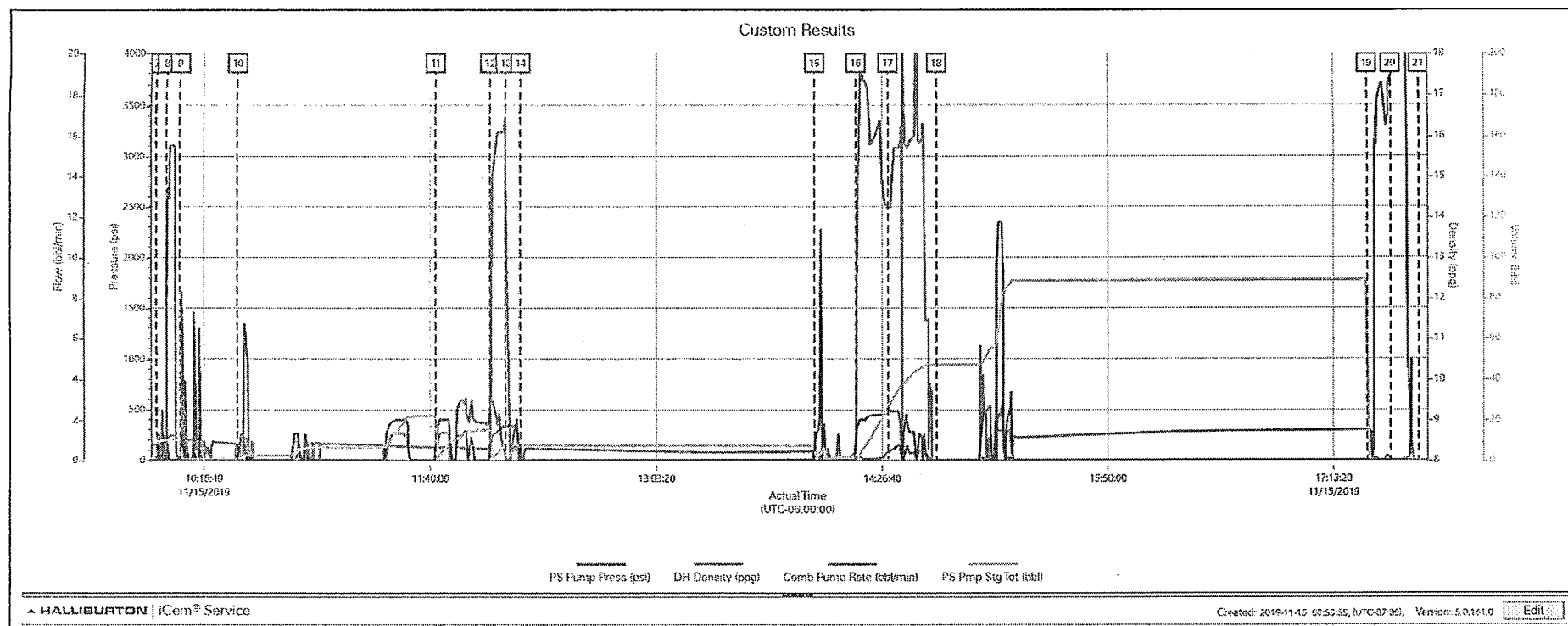
| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | PS Pump Press (psi) | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pmp Stg Tot (bbl) | Comments |
|-------|----------|--|--|------------|----------|--------|------------------------|---------------------|-----------------------------|-------------------------|---|
| Event | 1 | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 11/15/2019 | 07:30:00 | USER | | | | | Journey Management meeting held prior to departure. journey called into dispatch and approved. |
| Event | 2 | Arrive at Location from Service Center | Arrive at Location from Service Center | 11/15/2019 | 08:30:00 | USER | | | | | With all Equipment and materials. Hazard hunt performed before spotting in equipment. discussed numbers and job procedures with customer. |
| Event | 3 | Comment | Comment | 11/15/2019 | 08:35:00 | USER | | | | | <p>Tubing: 2 3/8" 4.7# @2500', Csg 4 1/2" 10.5# perfs @ 2500', 7/78" OH, CICR @ 2450' Estimated TOC 2250'</p> <p>Plug #2 Tubing: 2 3/8" 4.7# @800', Csg 4 1/2" 10.5# perfs @ 800', 7/78" OH, CICR @ 750', Surf Csg 8 5/8", 24# @ 750' TOC seen to surface.</p> <p>Plug #3 Top Out 4 1/2 10.5# @ 100'. Seen cement to surface.</p> |
| Event | 4 | Pre-Rig Up Safety Meeting | Pre-Rig Up Safety Meeting | 11/15/2019 | 08:40:00 | USER | | | | | JSA with all essential personnel to discuss the hazards of rigging up . |
| Event | 5 | Rig-Up Completed | Rig-Up Completed | 11/15/2019 | 09:40:00 | USER | -9.00 | 8.46 | 0.00 | 8.70 | Safely with no injuries. |

| | | | | | | | | | | | |
|-------|----|------------------------|------------------------|------------|----------|------|--------|-------|------|-------|--|
| Event | 6 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 11/15/2019 | 09:45:00 | USER | -10.00 | 8.45 | 0.00 | 8.70 | JSA with all essential personnel to discuss the job procedures and the hazards of the job. |
| Event | 7 | Start Job | Start Job | 11/15/2019 | 09:59:07 | COM4 | -11.00 | 8.42 | 0.00 | 8.70 | Start recording data. |
| Event | 8 | Test Lines | Test Lines | 11/15/2019 | 10:02:58 | COM4 | -3.00 | 8.54 | 0.00 | 10.00 | To 3000psi. |
| Event | 9 | Circulate Well | Circulate Well | 11/15/2019 | 10:07:50 | COM4 | 15.00 | 8.48 | 0.00 | 10.10 | Tried to circulate and kept pressuring up. |
| Event | 10 | Reverse Circ Well | Reverse Circ Well | 11/15/2019 | 10:28:58 | COM4 | -8.00 | 0.12 | 0.00 | 0.00 | Kept pressuring up. |
| Event | 11 | Circulate Well | Circulate Well | 11/15/2019 | 11:41:56 | COM4 | 2.00 | 8.13 | 1.30 | 0.00 | With 9bbls of fresh water. |
| Event | 12 | Pump Cement | Pump Cement | 11/15/2019 | 12:01:58 | COM4 | 358.00 | 8.28 | 0.00 | 14.80 | 40sk 8bbls 15.8ppg 1.15yd 5.00gal/sk verified with pressurized scales. |
| Event | 13 | Pump Displacement | Pump Displacement | 11/15/2019 | 12:07:42 | COM4 | 19.00 | 16.44 | 1.70 | 0.00 | 8.5bbls of fresh water. |
| Event | 14 | Shutdown | Shutdown | 11/15/2019 | 12:13:10 | COM4 | -1.00 | 7.75 | 0.00 | 7.30 | Waiting on wireline to shoot perfs. |
| Event | 15 | Pump Spacer 1 | Pump Spacer 1 | 11/15/2019 | 14:01:44 | COM4 | 7.00 | 8.22 | 0.00 | 7.30 | 5bbls of fresh water. |
| Event | 16 | Pump Cement | Pump Cement | 11/15/2019 | 14:17:02 | COM4 | 31.00 | 8.21 | 1.30 | 1.60 | 210sk 43bbl 15.8ppg 1.15yd 5.00gal/sk verified with pressurized scales. |
| Event | 17 | Check Weight | Check Weight | 11/15/2019 | 14:28:54 | COM4 | 85.00 | 14.22 | 2.40 | 25.50 | |
| Event | 18 | Shutdown | Shut down | 11/15/2019 | 14:46:48 | COM4 | 4.00 | 0.32 | 0.00 | 47.20 | Waiting for rig to nipple down. |
| Event | 19 | Pump Cement | Pump Cement | 11/15/2019 | 17:25:49 | COM4 | 3.00 | 8.75 | 0.00 | 88.90 | 15sk 3bbls 15.8ppg 1.15yd 5.00gal/sk verified with pressurized scales. |

| | | | | | | | |
|-------|----|--|--|------------|----------|------|--|
| Event | 20 | End Job | End Job | 11/15/2019 | 17:34:35 | COM4 | Stop recording data. |
| Event | 21 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 11/15/2019 | 17:45:00 | USER | JSA with all essential personnel to discuss the hazards of rigging down. |
| Event | 22 | Rig-Down Completed | Rig-Down Completed | 11/15/2019 | 18:15:00 | USER | Safely with no injuries. |
| Event | 23 | Depart Location for Service Center or Other Site | Depart Location for Service Center or Other Site | 11/15/2019 | 18:30:00 | USER | Journey Management meeting held prior to departure. journey called into dispatch and approved. |
| Event | 24 | Comment | Comment | 11/15/2019 | 18:35:00 | USER | ""Thank You for choosing Halliburton....."" |

3.0 Attachments

3.1 Case 1-Custom Results.png



Summary Report

Crew: _____
Job Start Date: 11/15/2019 08:00 AM

Sales Order #: 0906112514
WO #: 0906112514
PO #: NA
AFE #:

Customer: K P KAUFFMAN CO INC-EBUS Field: Job Type: CMT VIA ANNULUS
UWI / API Number: County/Parish: WELD BOM
Well Name: KPK UPRR 43 PAN AM I#9,WELD State: COLORADO Service Supervisor: Jamar Horton
Well No: 2330552 Latitude: Cust Rep Name: Rick Ramos
Longitude: Cust Rep Phone #:
Sect / Twn / Rng: //

Remarks:

| | | |
|--|--|------------------|
| The Information Stated Herein Is Correct | Customer Representative Signature  | Date 11/15/19 |
| | Customer Representative Printed Name | |

Cementing Job Summary

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------|-------------------------------------|---------------------------|
| Sold To #: 303209 | Ship To #: 2330552 | Quote #: | Sales Order #: 0906112514 |
| Customer: K P KAUFFMAN CO INC-EBUS | | Customer Rep: Rick Ramos | |
| Well Name: KPK UPRR 43 PAN AM I#9,WELD | | Well #: 2330552 | API/UWI #: |
| Field: | City (SAP): DACONO | County/Parish: WELD | State: COLORADO |
| Legal Description: | | | |
| Contractor: UNKNOWN | | Rig/Platform Name/Num: WORKOVER RIG | |
| Job BOM: | | | |
| Well Type: GAS | | | |
| Sales Person: HALAMERICA\HX38199 | | Srvc Supervisor: Jamar Horton | |
| Job | | | |

| | | | |
|------------------------|--------|--|-------------------|
| Formation Name | | | |
| Formation Depth (MD) | Top | | Bottom |
| Form Type | | | BHST |
| Job depth MD | 2500ft | | Job Depth TVD |
| Water Depth | | | Wk Ht Above Floor |
| Perforation Depth (MD) | From | | To |

Well Data

| Description | New / Used | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------|------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Casing | | 4.5 | 4.052 | 10.5 | | N-80 | 0 | 2500 | | 0 |
| Tubing | | 2.375 | 1.995 | 4.7 | | J-55 | 0 | 2500 | | 0 |

Fluid Data

Stage/Plug #: 1

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---------|------------|--------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 1 | PLUG 1 | HALCEM (TM) SYSTEM | 40 | sack | 15.8 | 1.15 | | 4 | 5 |

5 Gal

FRESH WATER

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---------|------------|--------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 2 | PLUG 1 | HALCEM (TM) SYSTEM | 210 | sack | 15.8 | 1.15 | | 4 | 5 |

5 Gal

FRESH WATER

Seen cement to surface.

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---------|------------|--------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 3 | PLUG 1 | HALCEM (TM) SYSTEM | 15 | sack | 15.8 | 1.15 | | 4 | 5 |

5 Gal

FRESH WATER

Seen cement to surface