

# HALLIBURTON

iCem® Service

## KP KAUFFMAN COMPANY INC

United States of America, COLORADO

**For: Rick Ramos**

Date: Thursday, May 21, 2020

WELD

KPK Champlin 86 Amoco B 3

Job Date: Thursday, May 21, 2020

Sincerely,

**Nick Peterson**

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	DS Pump Rate (bbl/min)	PS Pump Press (psi)	DS Pmp Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	5/21/2020	04:00:00	USER					CREW CALLED OUT AT 04:00 05/21/2020, REQUESTED ON LOCATION 08:00 05/21/2020. CREW PICKED UP CHEMICALS FROM FT. LUPTON, CO. PUMP 12645765, 660 11566182 AND ONE LD.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	5/21/2020	06:45:00	USER					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	5/21/2020	07:00:00	USER					STARTED JOURNEY MANAGEMENT.

END JOURNEY  
 MANAGEMENT. MEET  
 WITH CO. MAN TO DISCUSS  
 JOB; PLUG 1 TUBING SET @  
 2,450', 2.375" 4.7 LB/FT,  
 CASING 4.5" 11.6 LB/FT,  
 RETAINER SET @ 2,500'.  
 SURFACE CASING 8.625" 24  
 LB/FT CASING SET @ 457'.  
 DISPLACE WITH WATER  
 LEAVING 50' CEMENT ON  
 TOP OF RETAINER. RIG TO  
 PULL TUBING OUT RUN IN  
 WIRELINE TO SHOOT PERFS.  
 PLUG 2 PERFS SHOT @ 610',  
 6 SHOTS 3/8", RETAINER  
 SET @ 410' DISPLACE WITH  
 FRESH WATER LEAVING 50'  
 ON TOP OF RETAINER. RIG  
 TO PULL TUBING TO RUN IN  
 WIRELINE TO SHOOT PERFS.  
 PLUG 3 SHOT PERFS @ 100'.

Event 4 Arrive at Location from Service Center Arrive at Location from Service Center 5/21/2020 07:45:00 USER

Event 5 Pre-Rig Up Safety Meeting Pre-Rig Up Safety Meeting 5/21/2020 08:00:00 USER

Event 6 Rig-Up Equipment Rig-Up Equipment 5/21/2020 08:15:00 USER

Event 7 Rig-Up Completed Rig-Up Completed 5/21/2020 09:00:00 USER

Event 8 Pre-Job Safety Meeting Pre-Job Safety Meeting 5/21/2020 09:15:00 USER

HAZARD HUNT. DISCUSSED  
 POSSIBLE HAZARDS  
 ASSOCIATED WITH  
 LOCATION, RIG UP, AND  
 WEATHER.

RIG UP BULK AND MIXING  
 EQUIPMENT.

MEETING WITH  
 HALLIBURTON AND RIG  
 PERSONNEL.  
 COMMUNICATED  
 POTENTIAL SAFETY  
 HAZARDS AND JOB DETAILS.

Event	11	Start Job	Start Job	5/21/2020	09:40:00	RTD Import	8.27	0.00	847.28	0.00	BEGIN RECORDING JOB DATA.
Event	15	Test Lines	Test Lines	5/21/2020	09:42:27	RTD Import	8.38	0.00	-2.79	1.06	PRESSURE TESTED IRON TO 3500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 1,240 PSI, 5TH GEAR STALL OUT @ 1,860 PSI.
Event	24	Circulate Well	Circulate Well*	5/21/2020	09:46:20	RTD Import	8.37	0.00	1.97	1.06	PUMP 10 BBLS OF FRESH WATER. PUMP RATE 2 BBLS/MIN @ 580 PSI.
Event	27	Pump Cement	Pump Cement*	5/21/2020	10:03:40	RTD Import	8.39	0.00	338.38	9.08	PUMP 40 SKS OF PREMIUM CEMENT/ NO CALCIUM CHLORIDE @ 15.8 LB/GAL, 1.15 FT3/SK, 5.0 GAL/SK. 8.19 BBLS, DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 2 BBLS/MIN @ 440 PSI.
Event	28	Pump Displacement	Pump Displacement*	5/21/2020	10:09:27	RTD Import	16.84	0.00	-2.79	7.50	PUMP 8.75 BBLS OF FRESH WATER LEAVING 50' CEMENT ON TOP OF RETAINER. PUMP RATE 2.5 BBLS/MIN @ 583 PSI. TOTAL 6.63 BBLS CEMENT PUMPED INTO PERFS AND UP THE ANNULUS.
Event	31	Shutdown	Shutdown	5/21/2020	10:13:16	RTD Import	8.39	0.00	425.11	8.88	SHUTDOWN FOR RIG TO TOO. WIRELINE RAN IN TO SHOOT PERFS @ 610' WITH A TOTAL OF 6 SHOTS 3/8". RETAINER SET @ 410'. * 460' RR

Event	38	Circulate Well	Circulate Well*	5/21/2020	12:16:42	RTD Import	8.39	0.00	-0.89	23.84	PUMP 15 BBLS OF FRESH WATER. PUMP RATE 2 BBLS/MIN @ 180 PSI. PUMPED FRESH WATER UNTIL WE HAD CIRCULATION AT PITS PRIOR TO MIXING CEMENT.
Event	50	Pump Cement	Pump Cement*	5/21/2020	12:36:37	RTD Import	8.40	0.00	20.08	0.00	PUMP 65 SKS OF PREMIUM CEMENT/ NO CALCIUM CHLORIDE @ 15.8 LB/GAL, 1.15 FT3/SK, 5.0 GAL/SK. 13.31 BBLS, DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 2 BBLS/MIN @ 40 PSI.
Event	55	Pump Displacement	Pump Displacement*	5/21/2020	12:47:08	RTD Import	15.86	2.08	46.76	13.72	PUMP 1.25 BBLS OF FRESH WATER LEAVING 50' CEMENT ON TOP OF RETAINER. PUMP RATE 2 BBLS/MIN @ 23 PSI. PUMPED A TOTAL OF 10.22 BBLS OF CEMENT PUMPED BELOW RETAINER AND INTO PERFS UP ANNULUS.
Event	60	Shutdown	Shutdown	5/21/2020	12:47:57	RTD Import	3.55	0.00	-9.46	0.00	SHUTDOWN FOR RIG TO TOOH AND WIRELINE TO RUN IN AND SHOOT PERFS @ 100'.
Event	83	Circulate Well	Circulate Well*	5/21/2020	13:54:03	RTD Import	8.39	0.00	-1.84	0.00	PUMP 4 BBLS OF FRESH WATER. PUMP RATE 2 BBLS/MIN @ 32 PSI. 4 BBLS INTO CIRCULATING WE SAW FLOW AT PITS.

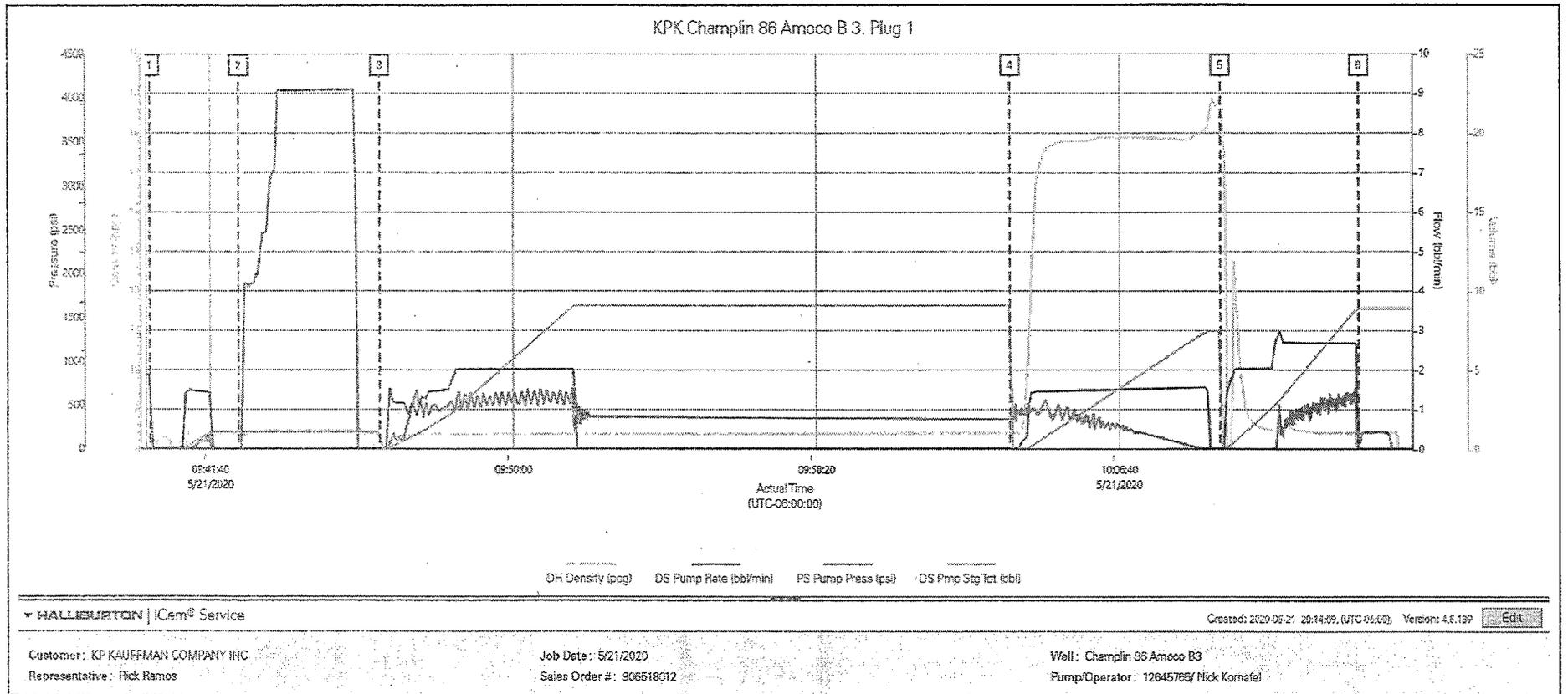
PUMP 65 SKS OF PREMIUM CEMENT/ NO CALCIUM CHLORIDE @ 15.8 LB/GAL, 1.15 FT3/SK, 5.0 GAL/SK. 13.31 BBLS, DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 2 BBLS/MIN @ 20 PSI. STARTED OFF MIXING AND PUMPING 40 SKS. AFTER PUMPING 8.19 BBLS WE WERE ONLY GETTING WATER AT THE PITS. SHUTDOWN TO BATCH UP ANOTHER 25 SKS OF CEMENT. PUMPED 3 BBLS OF 5.12 BEFORE WE STARTED SEEING GOOD CEMENT. PUMPED .5 MORE BBLS, SHUTDOWN PULLED FLANGE OFF WELL HEAD AND PUMPED .5 BBLS INTO 4.5" TUBING.

Event	84	Pump Cement	Pump Cement*	5/21/2020	13:58:18	RTD Import	8.42	0.00	-0.89	0.00	
Event	85	Other	Other	5/21/2020	14:01:09	USER	15.60	2.64	76.31	6.54	SHUTDOWN TO BATCH UP 25 SK OF CEMENT TO PUMP UNTIL WE SAW AT SURFACE.
Event	91	Pump Cement Away	Pump Cement Away	5/21/2020	14:12:15	USER	16.98	0.03	18.17	0.00	PUMPED THE 25 SKS UNTIL CEMENT TO SURFACE.
Event	92	Cement Returns to Surface	Cement Returns to Surface	5/21/2020	14:13:24	USER	15.59	1.97	56.29	2.15	CEMENT TO SURFACE 3 BBLS IN, PUMPED .5 BBLS, AND THEN TOPPED OFF CASING WITH .5 BBLS.
Event	93	End Job	End Job	5/21/2020	14:13:51	USER	16.76	0.00	-2.79	2.24	STOP RECORDING JOB DATA.

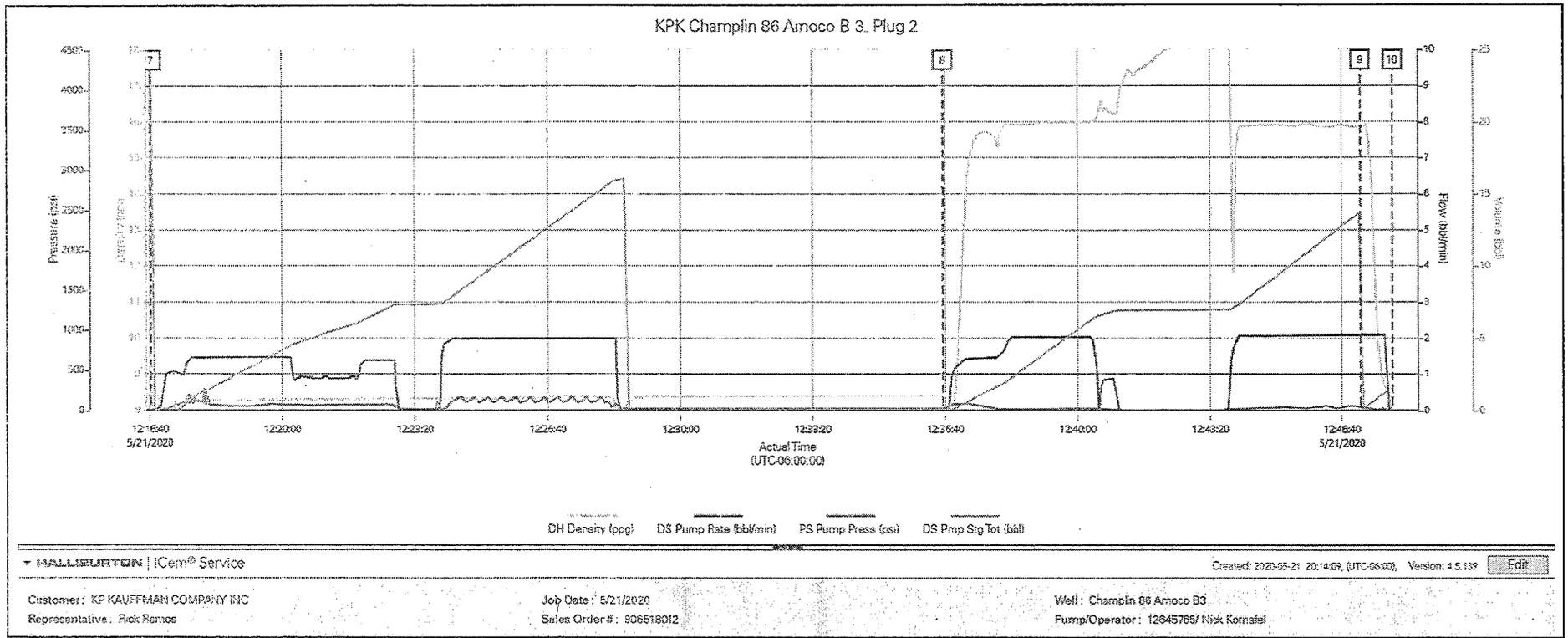
Event	94	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	5/21/2020	14:20:00	USER	16.23	0.00	5.78	2.24	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	97	Rig-Down Equipment	Rig-Down Equipment	5/21/2020	14:30:00	USER	0.36	0.00	-1.84	11.93	RIG DOWN BULK AND MIXING EQUIPMENT.
Event	110	Depart Location Safety Meeting	Depart Location Safety Meeting	5/21/2020	15:15:00	USER					CREW DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	111	Crew Leave Location	Crew Leave Location	5/21/2020	15:30:00	USER					THANK YOU FOR USING HALLIBURTON – NICK PETERSON AND CREW.

2.0 Attachments

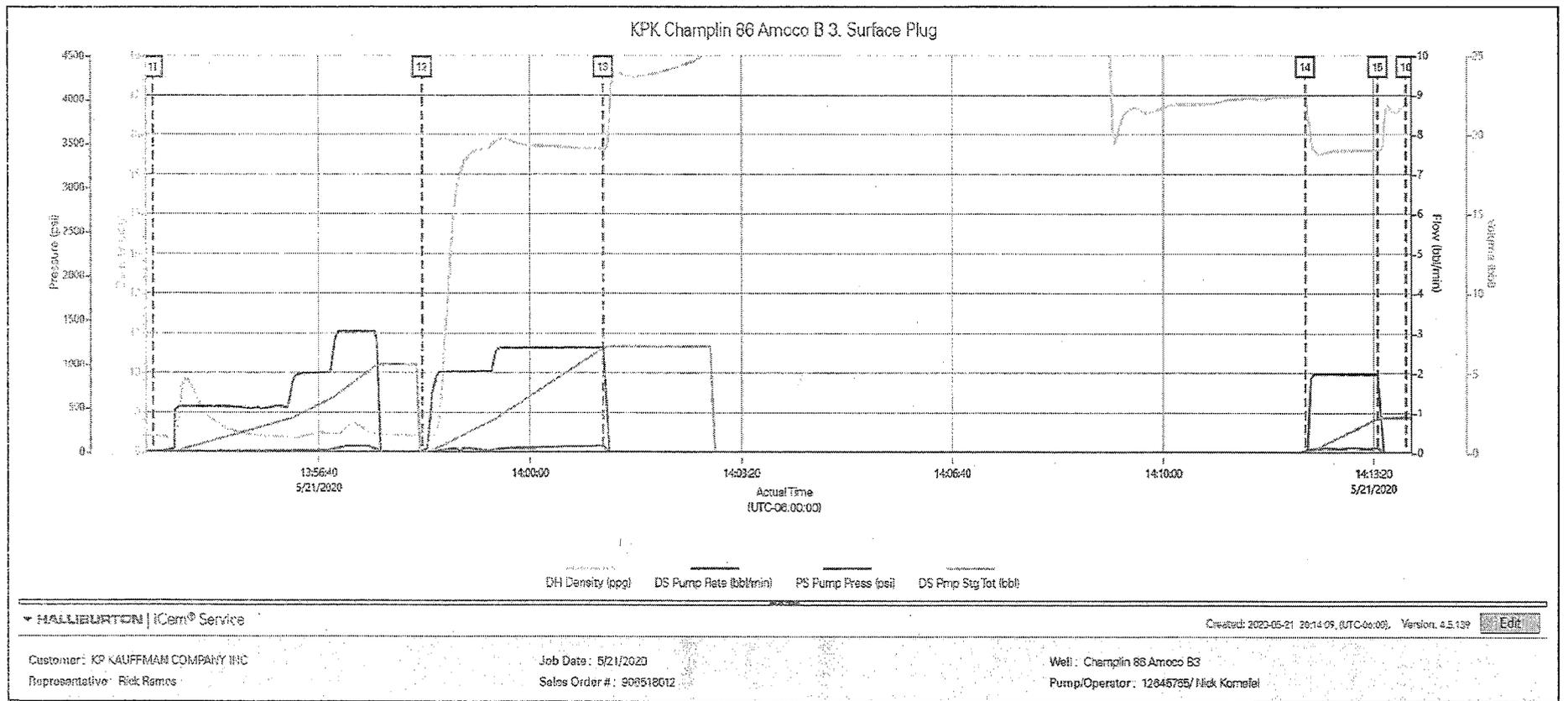
2.1 KPK Champlin 86 Amoco B 3. Plug 1.png



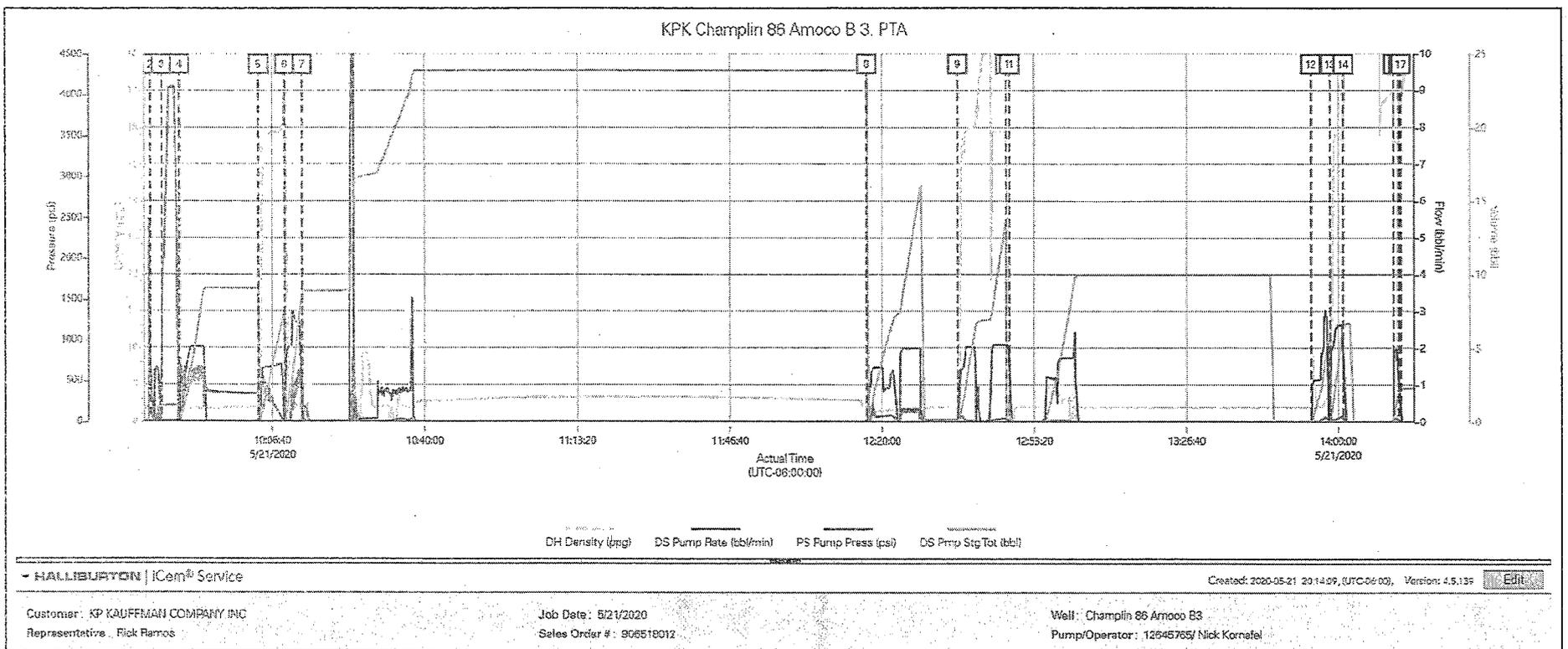
2.2 KPK Champlin 86 Amoco B 3. Plug 2.png



2.3 KPK Champlin 86 Amoco B 3. Surface Plug.png



2.4 KPK Champlin 86 Amoco B 3. PTA.png



## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 303209	Ship To #: 9040628	Quote #:	Sales Order #: 0906518012
Customer: K P KAUFFMAN CO INC-EBUS		Customer Rep: Rick Ramos	
Well Name: CHAMPLIN 86 AMOCO B#3,WELD		Well #: 9040628	API/UWI #: 05-123-08888
Field:	City (SAP): ERIE	County/Parish: WELD	State: COLORADO
Legal Description:			
Contractor: UNKNOWN		Rig/Platform Name/Num: WORKOVER RIG	
Job BOM: 7526 7526			
Well Type: OIL			
Sales Person: HALAMERICA\HB41307		Srcv Supervisor: Nicholas Peterson	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	2,450'	Job Depth TVD	2,500'
Water Depth		Wk Ht Above Floor	5'
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		8.625	8.097	24			0	457		
Casing		4.5	4.052	10.5			0	2450		
Tubing		2.375	1.995	4.7			0	2450		

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Retainer Plug 1	4.5	1		2,450				
Retainer Plug 2	4.5	1		610'				

### Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Squeeze	Premium Cement	40	sack	15.8	1.15	5.0	2	200

Cement In 4.5"	Amount	50'	Reason: Customer request 50' on top of retainer
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## Cementing Job Summary

### Fluid Data

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Squeeze	Premium Cement	65	sack	15.8	1.15	5.0	2	325

Cement in 4.5"	Amount	50'	Reason: Customer request 50' on top of retainer
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### Fluid Data

Stage/Plug #: 3

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Squeeze	Premium Cement	65	sack	15.8	1.15	5.0	2	325

Mix Water:pH 6.9	Mix Water Chloride:200 ppm	Mix Water Temperature:69°F
Cement Temperature:## °F	Plug Displaced by:8.33 lb/gal	Disp. Temperature:69 °F
Plug Bumped?:N/A	Bump Pressure:N/A	Floats Held?:N/A
Cement Returns:2 bbls	Returns Density:15.8 lb/gal	Returns Temperature:##

Comment: Pumped 8.19 bbls Cement for Plug 1 displaced 8.7 bbls leaving 50' of cement on top of retainer in 4.5" casing. Plug 2 pumped 13.31 bbls displaced 1.1 bbls leaving 50' of cement on top of retainer in 4.5" casing. Plug 3 pumped 40 sks 8.19 bbls of cement, never saw any cement to surface. Rick had us shutdown and batch up another 25 sks 5.12 bbls. Pumped 3 bbls until we saw good cement through the casing valve. Shutdown for rig crew to remove flange on well head and pumped .5 bbls into 5.5" casing then shutdown and pumped off remainder into wash up tank.

# Summary Report

Crew: \_\_\_\_\_  
Job Start Date: 05/21/2020 09:00 AM

Sales Order #: 0906518012  
WO #: 0906518012  
PO #: NA  
AFE #:

<b>Customer:</b>	K P KAUFFMAN CO INC-EBUS	<b>Field:</b>		<b>Job Type:</b>	CMT SQUEEZE PERFORATIONS BOM
<b>UWI / API Number:</b>	05-123-08888	<b>County/Parish:</b>	WELD	<b>Service Supervisor:</b>	Nicholas Peterson
<b>Well Name:</b>	CHAMPLIN 86 AMOCO B#3,WELD	<b>State:</b>	COLORADO	<b>Cust Rep Name:</b>	Rick Ramos
<b>Well No:</b>	9040628	<b>Latitude:</b>		<b>Cust Rep Phone #:</b>	
		<b>Longitude:</b>			
		<b>Sect / Twn / Rng:</b>	//		

<b>Remarks:</b>		
<i>The Information Stated Herein is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

Field Ticket Number: 906518012 Field Ticket Date: 05/22/20 Planning Order #: NA

**Bill To:**  
 K P KAUFFMAN CO INC-EBUS  
 DONOTMAIL-1675 BRDWAY STE 2800  
 DENVER  
 80202

**Job Name:** KPK Champlin 86 Amoco B 3 PTA  
**Order Type:** ZOH  
**Well Name:** CHAMPLIN 86 AMOCO B#3  
**Company Code:** 1100  
**Customer PO No.:** NA  
**AFE:**  
**Shipping Point:** Fort Lupton, CO  
**Sales Office:** Rocky Mountains BD  
**Well Type:** OIL  
**Well Category:** Development  
**Rig Name/#:** WORKOVER RIG

**Ship To:**  
 CHAMPLIN 86 AMOCO B3,WELD  
 CHAMPLIN 86 AMOCO B3  
 ERIE CO 80516  
 USA

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
7526	CMT SQUEEZE PERFORATIONS BOM 7526	1.00	JOB	0.00	0.00		0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	30.00 1	MI	9.79 USD/1 MI	293.70	190.91	102.79
16097	SQUEEZE PUMPING CHARGE,ZI FEET/METERS (FT/M) DEPTH	1.00 2450	EA	7,909.00 USD/1 EA	7,909.00	5,140.85	2,768.15
3965	HANDLE&DUMP SVC CHRGE, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	140.00 EA 1	CF	5.49 USD/1 CF	768.60	499.59	269.01
76400	MILEAGE,CMT MTLs DEL/RET MIN NUMBER OF TONS	15.00 6.58	MI	3.35 USD/1 MI	330.65	214.92	115.73
	<b>SubTotal</b>				<b>9,301.95</b>	<b>6,046.27</b>	<b>3,255.68</b>
100003685	CEM,CLASS G / PREMIUM, BULK Premium Cement	40.00	SK	44.26 USD/1 SK	1,770.40	1,150.76	619.64
100003685	CEM,CLASS G / PREMIUM, BULK Premium Cement	65.00	SK	44.26 USD/1 SK	2,876.90	1,869.99	1,006.91
100003685	CEM,CLASS G / PREMIUM, BULK Premium Cement	65.00	SK	44.26 USD/1 SK	2,876.90	1,869.99	1,006.91
100008028	CHEM, SUGAR,GRANULATED, 50LB BAG	50.00	LB	6.96 USD/1 LB	348.00	226.20	121.80
2	MILEAGE FOR CEMENTING CREW Number of Units	30.00 1	MI	5.76 USD/1 MI	172.80	112.32	60.48
<b>Totals</b>				<b>USD</b>	<b>17,346.95</b>	<b>11,275.53</b>	<b>6,071.42</b>