

HALLIBURTON

iCem[®] Service

K P KAUFFMAN CO INC-EBUS

Ft. Lupton District, COLORADO

For: RICK

Date: Tuesday, August 13, 2019

CHAMPLIN 86 AMOCO F

WELD

KPK CHAMPLIN 86 AMOCO F 5 2.375 SQUEEZE

Job Date: Tuesday, August 13, 2019

Sincerely,

CAMPER/CARPENTER

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 303209	Ship To #: 3989988	Quote #:	Sales Order #: 0905893243
Customer: K P KAUFFMAN CO INC-EBUS		Customer Rep: RICK RAMOS	
Well Name: CHAMPLIN 86 AMOCO F	Well #: 5	API/UWI #:	
Field:	City (SAP): DACONO	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\HX37727		Srcv Supervisor: Nikolaus Kornafel	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	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
Tubing		2.375	1.995	4.7		J-55	0	2500		0
Casing		4.5	4.052	10.5		N-80	0	6980		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5				Top Plug	4.5		
Float Shoe	4.5				Bottom Plug	4.5		
Float Collar	4.5				SSR plug set	4.5		
Insert Float	4.5				Plug Container	4.5		
Stage Tool	4.5				Centralizers	4.5		

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	PLUG 1	HALCEM (TM) SYSTEM	70	sack	15.8	1.15	5.15	4	361

Cement Left in Pipe	Amount	ft	Reason	Shoe Joint
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HALLIBURTON

Cementing Job Summary

Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	69 °F
Cement Temperature:	N/A	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:	N/A	Returns Density:	N/A	Returns Temperature:	N/A
Comment ESTABLISHED CIRCULATION AND THEN THE RIG STUNG IN TO THE RETAINER SET AT 3,264' AND WE ESTABLISHED AN INJECTION RATE INTO THE PERFS AT 3,315' @ 2BBL/MIN 900 PSI. INJECTED 10 BBLs OF WATER AND THEN MIXED UP CEMENT AND PUMPED 70SKS OF CEMENT AT 2 BBLs/MIN @ 650PSI AND THEN DISPLACED WITH 11.88 BBLs OF FRESH WATER AT 2.5 BBLs/MIN AT 503 PSI. SHUT DOWN AFTER FINISHED PUMPING DISPLACEMENT AND THE RIG STUNG OUT OF THE RETAINER AND PULLED TUBING.					

HALLIBURTON

Customer: K P KAUFFMAN CO INC-EBUS
 Job: KPK CHAMPUN 86 AMOCO F 5
 Case: KPK CHAMPUN 86 AMOCO F 5 | SO#: 905893243

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbt/min)	DS Pump Press (psi)	Pump Stg Tot (bbt)	Comments
Event	1	Call Out	Call Out	8/12/2019	06:00:00	USER					CREW CALLED OUT AT 04:00, REQUESTED ON LOCATION 11:00. CREW PICKED UP CEMENT, CHEMICALS, BULK 660 10866497 AND PUMP 11826999.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/12/2019	09:00:00	USER					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	8/12/2019	09:15:00	USER					STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	8/12/2019	10:00:00	USER					END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB. 4.5" 10.5 LB/FT CASING PERFORATED AT 3,315'. RETAINER SET 3,264'. CUSTOMER REQUESTED WE PUMPED 70 SKS OF CEMENT INTO THE PERFS AND LEAVE A SOFT CEMENT CAP ON TOP OF THE RETAINER.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	8/12/2019	10:15:00	USER					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.

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(v. 5.0.161.0)
 Created: Monday, August 12, 2019

Event	6	Rig-Up Equipment	Rig-Up Equipment	8/12/2019	10:30:00	USER					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/12/2019	11:45:00	USER	8.57	0.00	0.00	5.40	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
Event	8	Start Job	Start Job	8/12/2019	11:56:08	COM5	8.65	0.00	-2.00	0.00	BEGIN RECORDING JOB DATA
Event	9	Test Lines	Test Lines	8/12/2019	11:59:56	COM5	8.47	0.00	-1.00	1.00	PRESSURE TESTED IRON TO 4,000 PSI, PRESSURE HELD WITH NO LEAKS.
Event	10	Circulate Well	Circulate Well	8/12/2019	12:10:15	COM5	8.28	0.30	16.00	0.00	ESTABLISHED CIRCULATION AND INJECTION RATE AFTER THE RIG STUNG INTO THE RETAINER 2BBLS/MIN AT 800 PSI
Event	11	Pump Tail Cement	Pump Tail Cement	8/12/2019	12:25:42	COM5	8.35	0.00	381.00	0.00	PUMPED 70 SKS OF HALCEM AT 13.2 LB/GAL ,1.15 FT3/SK , 5.15 GAL/SK AT 2 BBLS/MIN 500 PSI
Event	12	Pump Displacement	Pump Displacement	8/12/2019	12:41:36	COM5	16.43	2.70	33.00	17.50	PUMPED 11.88 BBLS OF FRESH WATER DISPLACEMENT AT 2.5 BBLS PER MINUTE 600 PSI.
Event	13	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/12/2019	12:45:00	USER	7.76	2.50	584.00	9.20	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 303209	Ship To #: 3989988	Quote #:	Sales Order #: 0905893243
Customer: K P KAUFFMAN CO INC-EBUS		Customer Rep: RICK	
Well Name: CHAMPLIN 86 AMOCO F	Well #: 5	API/UWI #:	
Field:	City (SAP): DACONO	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\HX37727		Srvc Supervisor: Lance Carpenter	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	2500ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 4
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
Tubing		2.375	1.995	4.7		J-55	0	2500		0
Casing		4.5	4.052	10.5		N-80	0	6980		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5				Top Plug	4.5		HES
Float Shoe	4.5				Bottom Plug	4.5		HES
Float Collar	4.5				SSR plug set	4.5		HES
Insert Float	4.5				Plug Container	4.5		HES
Stage Tool	4.5				Centralizers	4.5		HES

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	PLUG 1	HALCEM (TM) SYSTEM	210	sack	15.8	1.15		4	5.15	
		5.15 Gal FRESH WATER								
Cement Left in Pipe		Amount	ft	Reason				Shoe Joint		

Cementing Job Summary

Mix Water: pH ##	Mix Water Chloride: ## ppm	Mix Water Temperature: ## °F °C
Cement Temperature: ## °F °C	Plug Displaced by: ## lb/gal kg/m3 XXXX	Disp. Temperature: ## °F °C
Plug Bumped? Yes/No	Bump Pressure: ##### psi MPa	Floats Held? Yes/No
Cement Returns: ## bbl m3	Returns Density: ## lb/gal kg/m3	Returns Temperature: ## °F °C

Comment
 JOB WENT WELL, PLUG 1: RIG SET PERFS AT 2500' RIGGED UP TO 2.375 TUBING. ESTABLISHED CIRCULATION, MIXED UP 40 SKS OF 15.8 G CEMENT, PUMPED 7.3BBL DISPLACEMENT TOC 2355' RIG PULLED TUBING. PLUG 2: RIG SET PERFS AT 700' AND THEN RAN A RETAINER AT 650' WE TIED INTO TUBING AND ESTABLISHED CIRCULATION, RIG STAB INTO RETAINER WE THEN MIXED UP 70 SKS OF G CEMENT AND PUMPED 2.5BBL DISPLACEMENT RIG THEN PULLED OUT OF RETAINER AND TOOK OFF THEIR STINGER, WENT BACK INTO THE HOLE WE THEN PUMPED 4.5 BBLs OF CEMENT ON TOP OF THE RETAINER THE PUMPED 1.4BBL DISPLACEMENT TO BALANCE PLUG. RIG PULLED OUT TUBING. PLUG 3: RIG SET PERFS AT 250' AND RAN A RETAINER AT 200' WE TIED INTO TUBING AND COULD NOT PUMP INTO RETAINER. SHUT DOWN AND THEN WE ENDED UP PUMPED 2 BBLs (10 SACKS) DOWN THE ANNULUS AND 4.2 BBLs (20 SACKS) IN THE CASING. RIG THEN PULLED OUT TUBING AND WE TOPPED OFF CEMENT TO SURFACE.

Summary Report

Sales Order #: 0905893243
WO #: 0905893243
PO #: NA
AFE # :

Crew: _____

Job Start Date: 08/13/2019 08:30 AM

Customer: K P KAUFFMAN CO INC-EBUS
UWI / API Number:
Well Name: CHAMPLIN 86 AMOCO F
Well No: 5

Field:
County/Parish: WELD
State: COLORADO
Latitude:
Longitude:
Sect / Twn / Rng: //

Job Type: CMT SQUEEZE PERFORATIONS BOM
Service Supervisor: Lance Carpenter
Cust Rep Name: RICK
Cust Rep Phone #:

Remarks:

<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pmp Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	8/13/2019	03:00:00	USER					CREW CALLED FOR ON LOCATION TIME AT 0700
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	8/13/2019	06:30:00	USER					HAD PRE CONVOY SAFETY MEETING WITH CREW AND DISCUSSED ROUTE TO LOCATION AND SAFE FOLLOWING DISTANCE.
Event	3	Arrive At Loc	Arrive At Loc	8/13/2019	07:00:00	USER					ARRIVED AT LOCATION RIG WAS READY. GOT NUMBERS FROM COMPANY MAN AND SPOTTED IN CREW.
Event	4	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	8/13/2019	07:15:00	USER					HAD PRE RIG UP SAFETY MEETING WITH CREW AND DISCUSSED USING A SPOTTER WHILE BACKING UP, SLIP TRIPS AND FALLS AND PINCH POINTS.
Event	5	Break Circulation	Break Circulation	8/13/2019	08:00:00	USER	19.00	8.59	4.60	1.50	BROKE CIRCULATION
Event	6	Safety Meeting	Safety Meeting	8/13/2019	08:10:00	USER	31.00	8.56	0.00	7.10	HAD SAFETY MEETING WITH HES AND RIG CREW AND DISCUSSED 3 POINTS OF CONTACT, MUSTER AREA, NEAREST HOSPITAL, FOOTING PLACEMENT, PRESSURE TESTING AND GOOD COMMUNICATION.
Event	7	Test Lines	Test Lines	8/13/2019	08:21:25	COM6	2759.00	8.61	0.00	7.10	PRESSURE TESTED LINES TO 2500PSI

Event	8	Pump Cement	Pump Cement	8/13/2019	08:45:09	COM6	393.00	8.42	0.60	0.00	PLUG 1: RIG SET PERFS AT 2500' PUMPED 40SKS HALCEM CEMENT 15.8PPG 1.15 YIELD 5.15 GAL
Event	9	Pump Displacement	Pump Displacement	8/13/2019	08:50:15	COM6	363.00	8.19	2.00	0.00	PUMPED 7.3 BBLs OF FRESH WATER TO BALANCE
Event	10	Pump Cement	Pump Cement	8/13/2019	11:08:40	USER					PLUG 2: RIG SET PERFS AT 700' AND SET A RETAINER AT 650' MIXED UP AND PUMPED 70SKS OF 15.8PPG HALCEM 1.15 YIELD 5.15 GAL
Event	11	Pump Displacement - Start	Pump Displacement - Start	8/13/2019	11:14:52	USER					PUMPED 2.5 BBL DISPLACEMENT RIG THEN PULLED OUT STINGER WENT BACK INTO THE HOLE WE PUMPED 4.5BBL OF CEMENT ON TOP OF THE RETAINER AND THEN PUMPED 1.4BBL DISPLACEMENT TO BALANCE PLUG.
Event	12	Pump Cement	Pump Cement	8/13/2019	16:03:30	COM6	33.00	8.25	0.90	13.80	PLUG 3: RIG SET PERFS AT 250' AND SET A RETAINER AT 200' PUMPED 30SKS OF HALCEM CEMENT 15.8PPG 1.15 YIELD 5.15 GAL PUMPED 2BBLs DOWN THE ANNULUS AND 4.1 BBLs IN THE 4.5' CASING TOPPED OFF CEMENT TO SURFACE.
Event	13	End Job	End Job	8/13/2019	16:34:24	USER	29.00	16.93	0.40	0.00	END JOB
Event	14	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	8/13/2019	16:45:00	USER	25.00	9.00	7.50	6.00	HAD PRE RIG DOWN SAFETY MEETING WITH CREW AND DISCUSSED TEAM CARRY WITH IRON, SLIP TRIPS AND FALLS, FOOTING

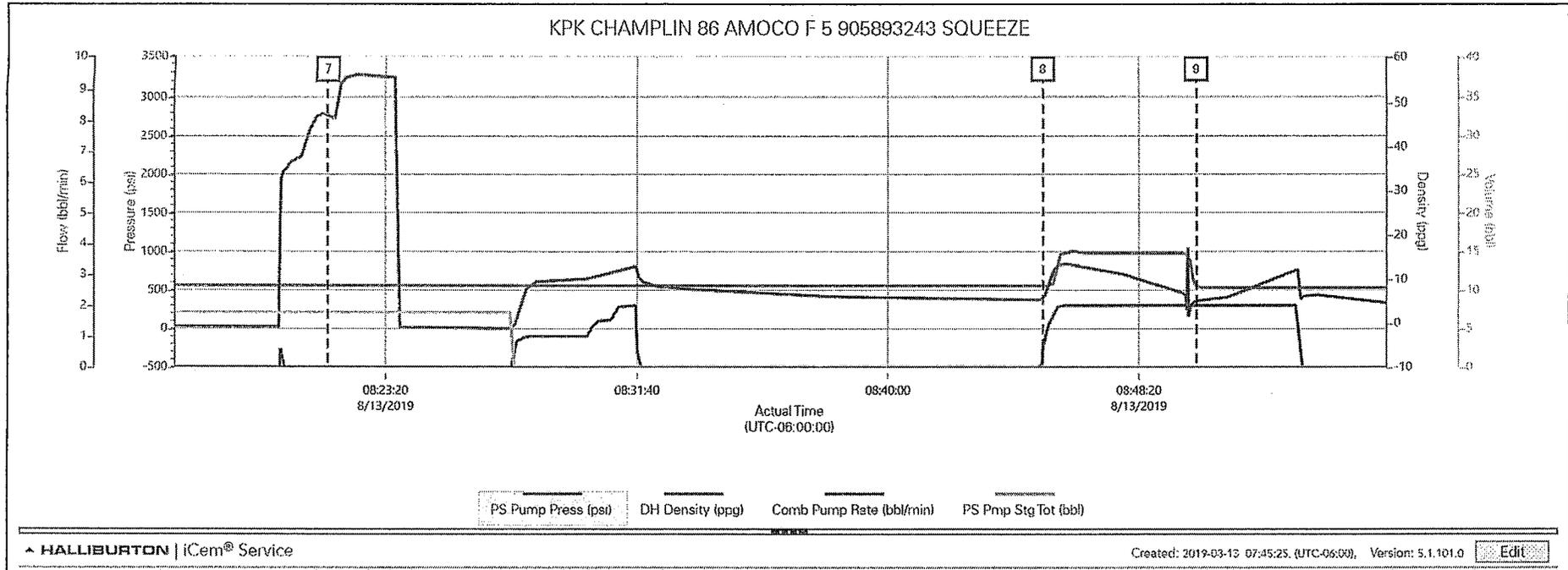
PLACEMENT AND GOOD
COMMUNICATION.

Event	15	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/13/2019	17:30:00	USER
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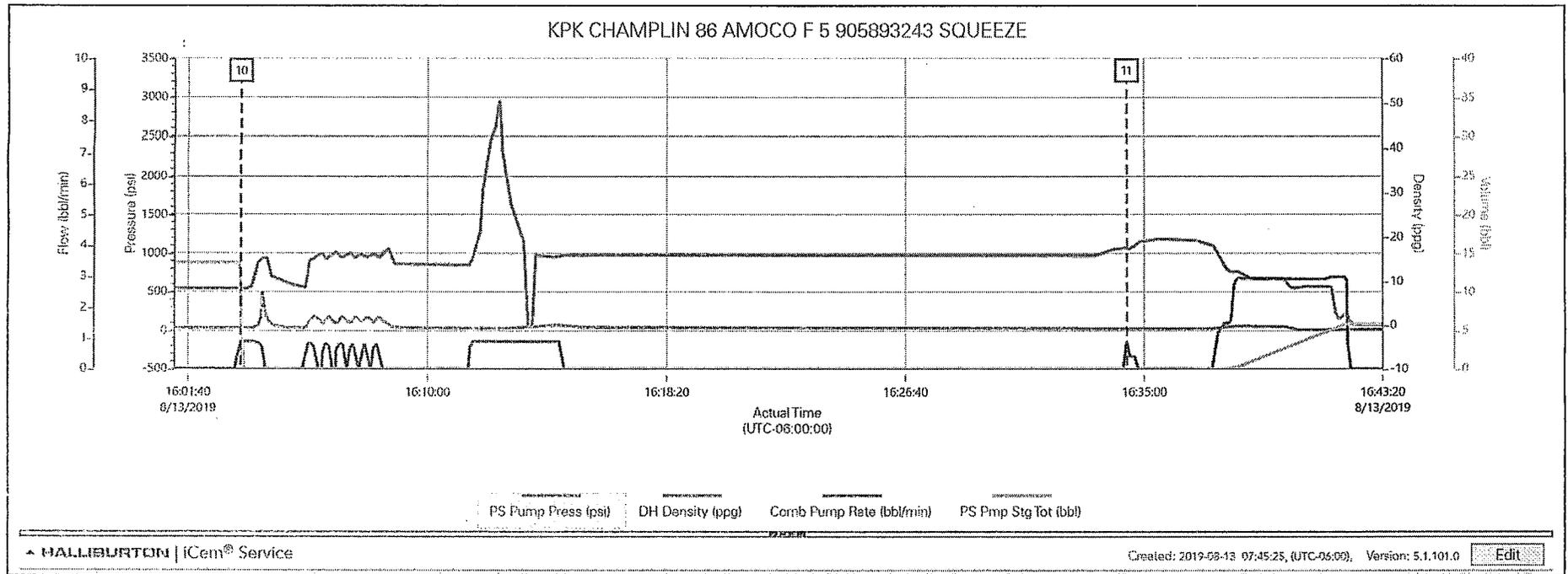
HAD PRE CONVOY SAFETY MEETING WITH CREW AND DISCUSSED SAFE FOLLOWING DISTANCES, TRAFFIC AND ROUTE BACK TO YARD.

2.0 Attachments

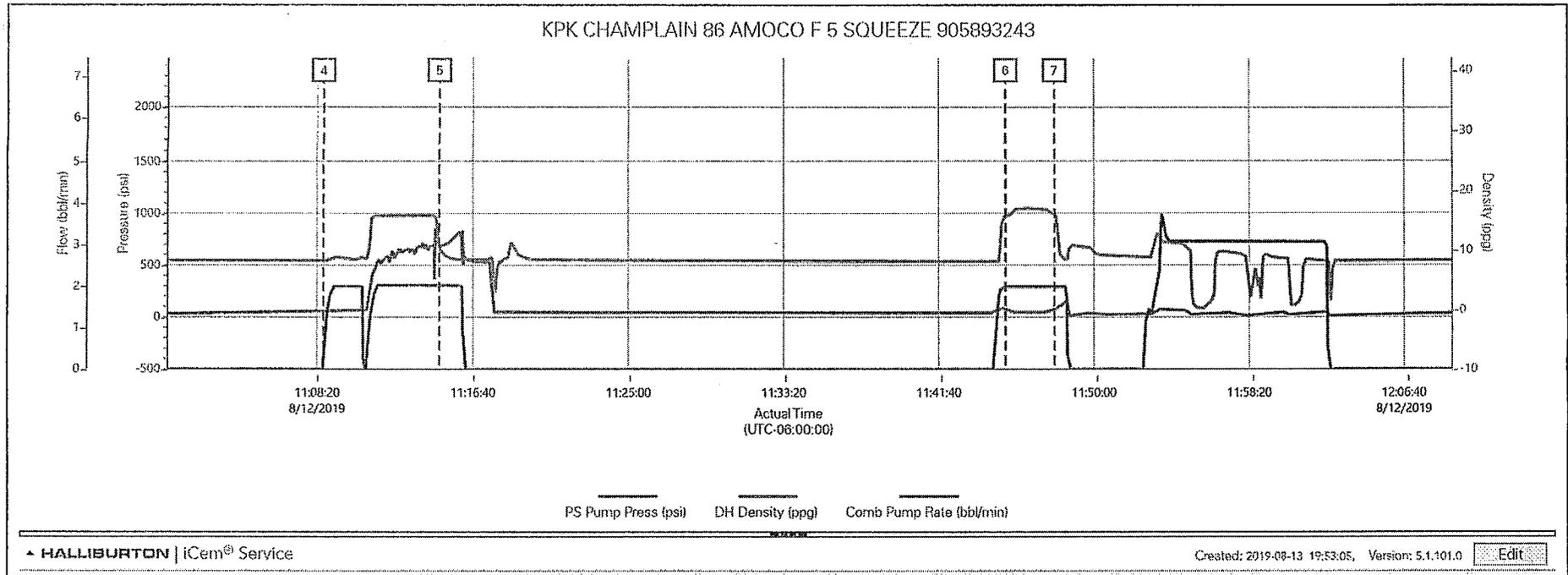
2.1 PLUG 1 2500'.png



2.2 PLUG 3 250'.png



2.3 PLUG 2.png



3.0 Custom Graphs

3.1 Custom Graph

