

HALLIBURTON

iCem® Service

CONOCO/PHILLIPS COMPANY EBUSINESS

For: Richard Perez

Date: Sunday, July 23, 2017

904171137 Conoco Rush 4-65 29-30 3AH Production

904171137 Conoco Rush 4-65 29-30 3AH Pro

Case 1

Job Date: Sunday, July 23, 2017

Sincerely,

Nathaniel Moore

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Drive-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	Call Out	7/23/2017	07:30:00	USER					OL time 1330. Verify equipment and materials
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/23/2017	12:00:00	USER					Sign in with customer. Spot in and rig up equipment
Event	3	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/23/2017	18:10:00	USER	56.00	8.48	0.00	0.0	Discuss job procedure with HES and rig crew
Event	4	Start Job	Start Job	7/23/2017	18:48:04	COM1	57.00	8.43	0.00	27.7	Fill lines 3 bbl fresh water
Event	5	Test Lines	Test Lines	7/23/2017	18:56:30	COM1	769.00	8.36	0.00	3.1	500 psi kickout test, bled off pressure to fix leak in line
Event	6	Test Lines	Test Lines	7/23/2017	19:11:55	COM1	4986.00	8.49	0.00	6.1	5000 psi pressure test
Event	7	Pump Spacer 1	Pump Spacer 1	7/23/2017	19:15:48	COM1	60.00	8.39	0.00	0.0	Pump 20 bbls 10.5ppg tuned spacer, shutdown to drop bottom plug, pump remaining 40 bbls of spacer for a total of 60 bbls
Event	8	Drop Bottom Plug	Drop Bottom Plug	7/23/2017	19:29:57	COM1	69.00	10.77	0.00	20.1	Witnessed by company rep
Event	9	Pump Lead Cement	Pump Lead Cement	7/23/2017	19:37:09	COM1	523.00	11.86	7.20	48.5	Pump 240 bbls of 13.2ppg lead cement (860 sacks, 1.57 ft3/sk, 7.54 gal/sk)
Event	10	Check Weight	Check weight	7/23/2017	19:39:10	COM1	656.00	13.50	7.10	14.4	13.2 ppg
Event	11	Pump Tail Cement	Pump Tail Cement	7/23/2017	20:13:51	COM1	441.00	13.33	7.00	0.1	Pump 378 bbls of 13.5ppg tail cement (1185 sacks, 1.79 ft3/sk, 8.74 gal/sk)
Event	12	Check Weight	Check weight	7/23/2017	20:14:45	COM1	487.00	13.55	7.00	6.4	13.5 ppg
Event	13	Check Weight	Check weight	7/23/2017	20:31:10	COM1	483.00	13.56	7.00	121.8	13.5 ppg

HALLIBURTON

Customer: CONOCO/PHILLIPS COMPANY EBUSINESS
 Job: 904171137 Conoco Rush 4-65 29-30 3AH Production
 Case: Case 1 | SO#: 904171137

Event 14	Shutdown	Shutdown	7/23/2017	21:16:17	COM1	123.00	14.11	0.00	414.4	Wash pumps and lines
Event 15	Drop Top Plug	Drop Top Plug	7/23/2017	21:24:38	COM1	66.00	7.31	0.00	430.0	Witnessed by company rep
Event 16	Pump Displacement	Pump Displacement	7/23/2017	21:24:42	COM1	65.00	7.96	0.00	0.0	Pump 328 bbls fresh water displacement (first 40 bbls with MMCR, remainder with biocide and corrosion inhibitor)
Event 17	Other	Spacer Returns to Surface	7/23/2017	22:19:15	COM1	2391.00	8.25	3.10	317.7	Spacer returns seen 314 bbls into displacement. 14 bbls to surface. Approx top of tail cement: 6440'. Approx top of lead cement 810'.
Event 18	Bump Plug	Bump Plug	7/23/2017	22:24:01	COM1					Bump plug at 2490 psi, brought up to 3300 psi and held for 5 minutes
Event 19	Other	Check Floats	7/23/2017	22:28:50	COM1					Floats held, 3.5 bbls back to the truck
Event 20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/23/2017	22:35:00	USER	57.00	1.52	0.00	331.3	Discuss rig down with HES and rig crew
Event 21	Depart Location Safety Meeting	Depart Location Safety Meeting	7/24/2017	00:00:00	USER					
Event 22	Other	Meet with company rep	7/24/2017	13:00:00	USER					TD 15645' 8.5" hole. TP 15631' 5.5" 23# P-110. Float collar 15535'. Surface 2292' 9.625" 36#. MW 9.4 ppG.
Event 23	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/24/2017	19:30:00	USER					Discuss lifting operation for rigging up floor.

ICem Service

2.1 Case 1-Custom Results.png



2.2 Case 1-Custom Results (1).png



The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3790059	Quote #: 0022325236	Sales Order #: 0904171137
Customer: CONOCO/PHILLIPS COMPANY-EBUS		Customer Rep: Jason Beech	
Well Name: RUSH 4-65 29-30		Well #: 3AH	API/UWI #: 05-005-07265-00
Field: WILDCAT	City (SAP): AURORA	County/Parish: ARAPAHOE	State: COLORADO
Legal Description: NW SW-28-4S-65W-1571FSL-422FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 448	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srv Supervisor: Nathaniel Moore	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	15645ft		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		9.625	8.921	36	LTC	J-55	0	2292		
Casing		5.5	4.67	23	TXP-BTC	P-110	0	15631	0	
Open Hole Section			8.5				2220	7326		
Open Hole Section			8.5				7326	15645		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5		HES
Float Shoe	5.5			15645	Bottom Plug	5.5		HES
Float Collar	5.5				SSR plug set	5.5		HES
Insert Float	5.5				Plug Container	5.5		HES
Stage Tool	5.5				Centralizers	5.5		HES

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	10.5 lb/gal Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.4		6	
0.10 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)							
0.20 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							
37.58 gal/bbl		FRESH WATER							
87.48 lbm/bbl		BARITE, BULK (100003681)							
0.20 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							

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	ElastiCem	ELASTICEM (TM) SYSTEM	860	sack	13.2	1.57		6	7.54
	24.50 lbm	POZMIX A FLYASH (100003690)							
	0.20 %	HALAD(R)-344, 50 LB (100003670)							
	61.10 lbm	TYPE I / II CEMENT, BULK (101439798)							
	0.10 %	SA-1015, 50 LB SACK (102077046)							
	7.55 Gal	FRESH WATER							
	0.30 %	SCR-100 (100003749)							
	5 lbm	WELLIFE 708 - 2000 LB BAG (807637)							
	1 lbm	SILICALITE, COMPACTED - 2200 LB (870283)							
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	EconoCem	ECONOCEM (TM) SYSTEM	1185	sack	13.5	1.79		6	8.74
	0.25 %	HR-5, 50 LB SK (100005050)							
	8.72 Gal	FRESH WATER							
	0.80 %	HALAD(R)-344, 50 LB (100003670)							
	25 %	SS-200 - BULK (102240841)							
	24.50 lbm	POZMIX A FLYASH (100003690)							
	0.10 %	SA-1015, 50 LB SACK (102077046)							
	61.10 lbm	TYPE I / II CEMENT, BULK (101439798)							
	0.20 %	HALAD(R)-413, 50 LB (100003738)							
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
4	MMCR Displacement	MMCR Displacement	40	bbl	8.34				
	0.50 gal/bbl	MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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
5	Water	Water	329	bbl	8.33				
Cement Left In Pipe		Amount	85 ft	Reason				Shoe Joint	

14 bbl spacer to surface. Approx totc: 6440'. Approx tolc: 810'.

Field Ticket Signature

Field Ticket Number: 0904171137

Field Ticket Date: Monday, July 24, 2017

Planning Order #: NA

Bill To:

CONOCO/PHILLIPS COMPANY-EBUS
DONOTMAIL-600 N DAIRY ASHFORD
HOUSTON TX 77079

Job Name:

Production (Alternate Design)

Order Type:

ZOH

Well Name:

RUSH 4-65 29-30 3AH

Company Code:

1100

Customer PO No.:

NA

AFE :**Shipping Point:**

Fort Lupton, CO Shipping Point

Sales Office:

ROCKY MOUNTAINS BD

Well Type:

HORIZONTAL OIL

Well Category:

Development

Rig Name/#:

H & P 448

Ship To:

RUSH 4-65 29-30 3AH,ARAPAHOE
RUSH 4-65 29-30 3AH
AURORA CO 80015
USA

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total: \$ 97,180.84
Item Discount Total: \$ 37,800.36
Net Amount Total: \$ 59,380.48 USD

Customer Representative Signature: _____

Date: _____

Jason Beech

Nathaniel Moore

Customer Representative

Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)

☐ Yes ☐ No

Were you satisfied with our equipment?

☐ Yes ☐ No

Were you satisfied with our people?

☐ Yes ☐ No

Comments:

