

HALLIBURTON

iCem[®] Service

CONOCO/PHILLIPS COMPANY EBUSINESS

For:

Date: Saturday, October 25, 2014

4-65 13-14

Case 1

Sincerely,
Chris Turner and Crew

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Well Name and Number** cement **Job Type** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

This space is provided to enter in a brief summary of the job. Below are some important items to discuss"

1. Quality of circulation before and during the job
2. The final circulating pressure
3. Whether or not any of the fluids that Halliburton pumped were returned to surface during the job
4. Whether or not a flare was present at any point during the job
5. A brief explanation any abnormalities on the job chart
6. If we deviated from the original job plan, a brief explanation why we did so

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton]

Job Times

	Date	Time	Time Zone
Called Out	10/24/14	1830	Mt
On Location	10/25/14	0130	Mt
Job Started	10/25/14	0801	Mt
Job Completed	10/25/14	0920	Mt
Departed Location	10/25/14	1145	Mt

1.2 Cementing Job Summary

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Conoco Phillips

Prosper Farms 4-65 13-14

WHIPSTOCK PLUG SO # 901772477

- 1) Pump 2 BBL FRESH WATER TO FILL LINES
- 2) TEST LINES 3,000 PSI
- 3) PUMP 34 BBL CLEAN SPACER @ 10.5 PPG
- 4) PUMP CMT 85 BBL @ 15.8 PPG
- 5) PUMP SPACER 6 BBL CLEAN SPACER @ 10.5 PPG
- 6) PUMP DISP. 100 BBL MUD @ 9.15 PPG
- 7) SHUT DOWN / BLEED OF PSI
- 8) RIG DOWN VALVE on DRILL PIPE

Job Overview

		Units	Description
1	Surface temperature at time of job	°F	65
2	Mud type (OBM, WBM, SBM, Water, Brine)	-	OBM
3	Actual mud density	lb/gal	9.1
4	Time circulated before job	HH:MM	
5	Mud volume circulated	Bbls	
6	Rate at which well was circulated	Bpm	4
7	Pipe movement during hole circulation	Y/N	N
8	Rig pressure while circulating	Psi	650
9	Time from end mud circulation to start of job	HH:MM	00:45
10	Pipe movement during cementing	Y/N	N
11	Calculated displacement	Bbls	100
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	Y
14	Annular flow after job	Y/N	Y
15	Length of rat hole	Ft	
16	Units of gas detected while circulating	Units	
17	Was lost circulation experienced at any time ?	Y/N	N

Lost Circulation Details

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Squeeze Job Information

		Units	Description
1	Was the well full prior to cementing?	Y/N	
2	Injection Rate #1 & Pressure	psi/bpm	
3	Injection Rate #2 & Pressure	psi/bpm	
4	Injection Rate #2 & Pressure	psi/bpm	
5	Initial ISIP	psi	
6	Final ISIP	psi	

Plug Job Information

		Units	Description
1	Density of well fluid exiting well prior to job	lb/gal	9.1
2	Density of well fluid entering well prior to job	lb/gal	9.1
3	Was the well full prior to cementing?	Y/N	Y
4	How many joints of workstring pulled wet?	# Joints	0
5	Depth of workstring for circulation after the plug?	ft	6254
6	Calculated Plug Height	ft	1250

1.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Comment
Event	1	Call Out	Call Out	10/24/2014	18:30:00	USER				Call Out for job
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/24/2014	23:30:00	USER				Pre Convoy Safety Meeting with crew to discuss route and driving safety
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	10/24/2014	23:40:00	USER				Depart from yard for location
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/25/2014	01:00:00	USER				Arrive safely at location
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/25/2014	01:15:00	USER				Pre rig up safety meeting with crew to discuss rig up procedure and and safety
Event	6	Rig-Up Equipment	Rig-Up Equipment	10/25/2014	01:30:00	USER				Rig up all equipment on ground
Event	7	Rig-Up Completed	Rig-Up Completed	10/25/2014	03:30:00	USER				Rig up on ground completed
Event	8	Standby Rig	Standby Rig	10/25/2014	03:30:01	USER				Standby on rig to circulate before rigging up floor
Event	9	Rig-up Lines	Rig-up Lines	10/25/2014	05:30:00	USER				Rig up lines on floor
Event	10	Rig-up Lines	Rig-up Lines	10/25/2014	06:30:00	USER	1.00	8.33	0.00	Finish rigging up to Drill Pipe.
Event	11	Safety Meeting - Pre Job	Safety Meeting - Pre Job	10/25/2014	06:50:00	USER	2.00	8.27	0.00	Pre Job safety meeting with crew, rig crew, and customer to discuss job procedures and safety throughout the job.
Event	12	Other	Mix Spacer	10/25/2014	07:00:00	USER	4.00	8.31	0.00	Start mixing spacer.
Event	13	Start Job	Start Job	10/25/2014	07:50:39	COM4	-1.00	8.22	0.00	
Event	14	Test Lines	Test Lines	10/25/2014	07:54:58	COM4	89.00	8.23	0.00	Test Lines to 3000 Psi, good test no leaks
Event	15	Pump Spacer 1	Pump Spacer 1	10/25/2014	07:59:14	COM4	-3.00	8.10	0.00	Pump 34 BBL clean spacer @ 10.5 ppg 4 bpm 620 psi

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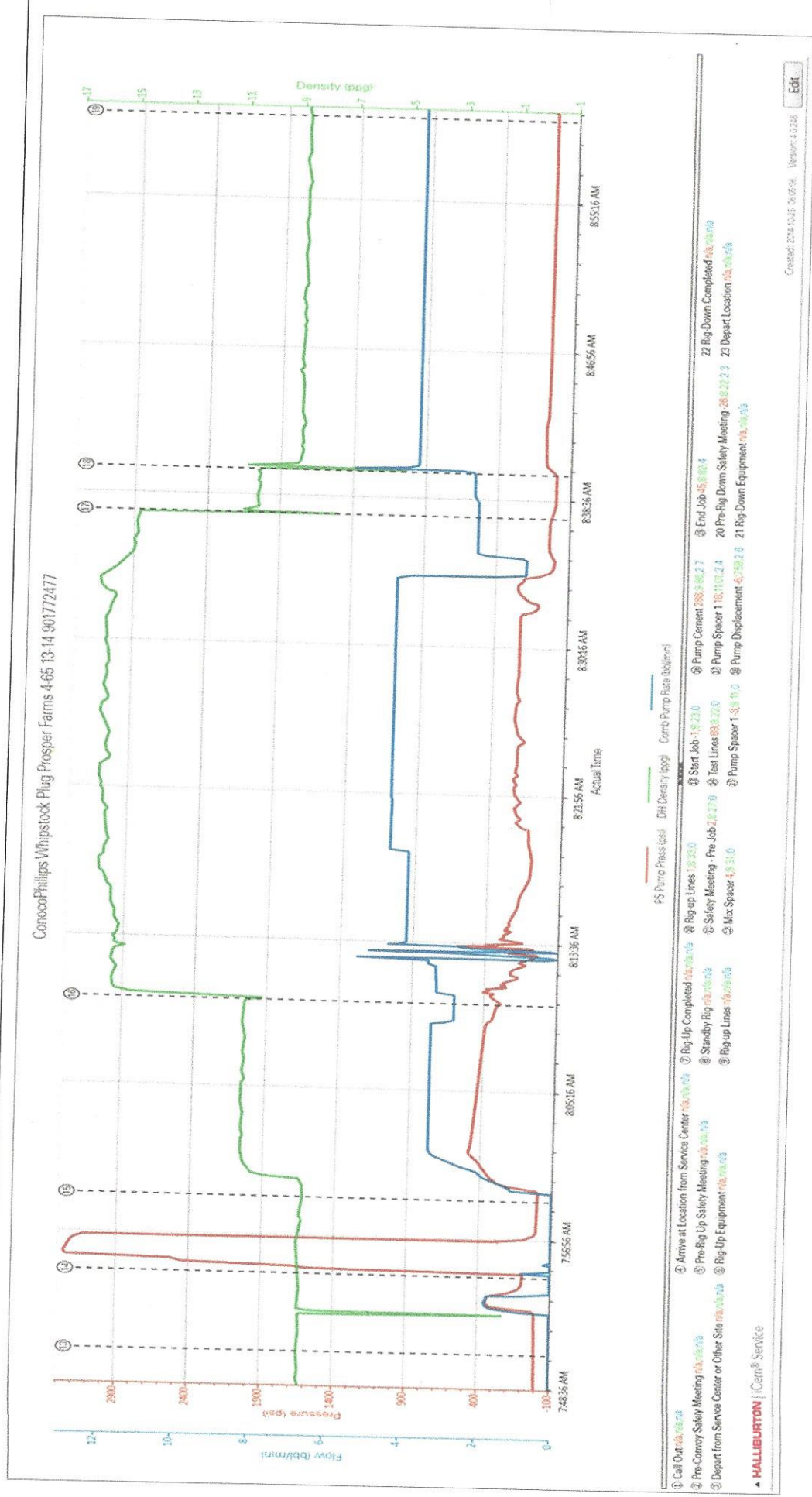
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Event	16	Pump Cement	Pump Cement	10/25/2014	08:10:17	COM4	286.00	9.66	2.70	Pump 85 BBL of Cement @ 15.8 ppg 4 bpm 200 psi
Event	17	Pump Spacer 1	Pump Spacer 1	10/25/2014	08:37:42	COM4	18.00	11.03	2.40	Pump 6 BBL clean spacer @ 10.5 ppg 2.5 bpm 2 psi
Event	18	Pump Displacement	Pump Displacement	10/25/2014	08:40:10	COM4	-7.00	4.98	2.50	Pump 83 BBL of OBM @ 9.1 ppg. Pumped until pressure went over final circulating pressure to balance plug.
Event	19	End Job	End Job	10/25/2014	09:00:00	COM4	45.00	8.83	4.00	Swap over to rig to pull stands. All 10 pulled dry. Rig circulated well and got 40 BBL spacer back and 1 BBL of cement.
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/25/2014	10:25:36	USER	-26.00	8.20	2.30	Pre Rig Down safety meeting with crew
Event	21	Rig-Down Equipment	Rig-Down Equipment	10/25/2014	10:30:00	USER	-75.00	0.02	0.00	Rig down all equipment
Event	22	Rig-Down Completed	Rig-Down Completed	10/25/2014	11:35:00	USER				Rig Down safely completed
Event	23	Depart Location	Depart Location	10/25/2014	11:45:00	USER				Depart location for yard

2.0 Attachments

2.1 Whipstock Conoco.png



The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3533934	Quote #: 0021934718	Sales Order #: 0901772477
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep:	
Well Name: PROSPER FARMS 4-65 13-14	Well #: 1H	API/UWI #: 05-005-07225-00	
Field: WILDCAT	City (SAP): WATKINS	County/Parish: ARAPAHOE	State: COLORADO
Legal Description: SW NW-14-4S-65W-2165FNL-350FWL			
Contractor:		Rig/Platform Name/Num: H&P 280	
Job BOM: 7529			
Well Type: VERTICAL OIL			
Sales Person: HALAMERICA\HX38199		Srv Supervisor: Mark Turner	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	8151ft		231 degF
Water Depth			
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			0	2215		
Drill Pipe		4	3.34	14			0	6010		
Open Hole Section			8.75				2215	8366		
Drill Pipe		4	2	29			6010	7210		
Drill Pipe		6.625	2				7210	7240		
Tubing		2.875	2.441	6.4			7240	8340		

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	2.875				Top Plug	2.875		HES	
Float Shoe	2.875				Bottom Plug	2.875		HES	
Float Collar	2.875				SSR plug set	2.875		HES	
Insert Float	2.875				Plug Container	2.875		HES	
Stage Tool	2.875				Centralizers	2.875		HES	

Miscellaneous Materials									
Gelling Agt		Conc		Surfactant		Conc		Acid Type	
Treatment Fld		Conc		Inhibitor		Conc		Sand Type	
								Qty	Conc
								Size	Qty

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	Clean Spacer III	CLEANSPECER III	40	bbl	10.5	3.86				
	0 gal/bbl									
	0.50 gal/bbl									
	0.50 gal/bbl									
FRESH WATER										
SEM-7, 55 GAL DRUM (100001626)										
MUSOL(R) A, BULK (100003696)										

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
2	HalCem	HALCEM (TM) SYSTEM	315	sack	15.8	1.52		5	6.16
6.16 Gal		FRESH WATER							
0.25 %		HR-5, 50 LB SK (100005050)							
0.1250 lbm		POLY-E-FLAKE (101216940)							
Cement Left In Pipe	Amount	ft	Reason				Shoe Joint		
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									

Summary Report



Crew: _____

Job Start Date: 10/25/2014

Sales Order #: 0901772477

WO #: 0901772477

PO/AFE #: NA

Customer: CONOCO/PHILLIPS COMPANY
EBUSINESS
UWI / API Number: 05-005-07225-00
Well Name: PROSPER FARMS 4-65 13-14
Well No: 1H

Field: WILDCAT
County/Parish: ARAPAHOE
State: COLORADO
Latitude: 39.705203
Longitude: -104.639656
Sect / Twn / Rng: 14/4/65

Job Type: CMT WHIPSTOCK
PLUG BOM
Service Supervisor: Mark Turner

Cust Rep Name:
Cust Rep Phone #:

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	