

# HALLIBURTON

iCem<sup>®</sup> Service

## **CONOCO/PHILLIPS COMPANY-EBUS**

Date: Monday, June 12, 2017

**Prosper Farms 4-65 2-1 4AH Surface**

Job Date: Wednesday, May 31, 2017

Sincerely,

**Justin Lansdale**

## Legal Notice

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 2-1 4AH** cement **Surface** 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.

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 [Fort Lupton]**

*The Road to Excellence Starts with Safety*

Sold To #: 352431	Ship To #: 3700473	Quote #: 0022307295	Sales Order #: 0904060491
Customer: CONOCO/PHILLIPS COMPANY-EBUS		Customer Rep: GEOFF CONNOA	
Well Name: PROSPER FARMS 4-65 2-1		Well #: 4AH	API/UWI #: 05-005-07249-00
Field: WILDCAT	City (SAP): WATKINS	County/Parish: ARAPAHOE	State: COLORADO
Legal Description: SW SW-2-4S-65W-1180FSL-550FWL			
Contractor: H&P		Rig/Platform Name/Num: H&P 448	
Job BOM: 7521 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Vitalijs Neverdasovs	

**Job**

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	2209ft	Job Depth TVD	2209
Water Depth		Wk Ht Above Floor	6 FT
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
Open Hole Section			12.25				0	1642		
Casing	0	9.625	8.921	36	LTC	J-55	0	2198		2198
Open Hole Section			12.25				1642	2209	0	0

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625				Top Plug	9.625	1	WFM
Float Shoe	9.625	1	WCS	2198	Bottom Plug	9.625	1	WFM
Float Collar	9.625	1	WCS	2153	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

**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 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	10	8.82				

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	
2	SwiftCem	SWIFTCEM (TM) SYSTEM	355	sack	12	2.56		5	15.11	
3	SwiftCem	SWIFTCEM (TM) SYSTEM	165	sack	14.2	1.59		5	7.89	
4	Displacement	Displacement	166.3	bbl	8.33			6		
Cement Left In Pipe		<b>Amount</b>	45 ft		<b>Reason</b>			<b>Shoe Joint</b>		
<b>Comment</b> : 72 BBLS OF CEMENT TO SURFACE. TOTC 1360.										

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	5/30/2017	11:30:00	USER	For Location @ 16:30
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	5/30/2017	14:00:00	USER	Journey management meeting held prior to departure
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	5/30/2017	14:30:00	USER	Called Journey
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	5/30/2017	16:15:00	USER	Discussed numbers and job procedures with Customer
Event	5	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	5/30/2017	16:38:00	USER	JSA to discuss the hazards of rig-up
Event	6	Casing on Bottom	Casing on Bottom	5/30/2017	16:47:00	USER	Landing joint brought to floor and landed
Event	7	Circulate Well	Circulate Well	5/30/2017	16:49:00	USER	CIRCULATING FOR 2 HOURS 8 BPM @ 201 PSI
Event	8	Rig-Up Equipment	Rig-Up Equipment	5/30/2017	16:51:00	USER	Rig-up all surface lines and equipment
Event	9	Rig-Up Completed	Rig-Up Completed	5/30/2017	17:55:00	USER	WITH NO INCIDENTS, OR INJURIES.
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/30/2017	18:37:00	USER	With all essential personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	11	Start Job	Start Job	5/30/2017	19:32:00	USER	With water supplied from upright, water tested good to mix cement, PH 7, Cl 0, Temp 68
Event	12	Test Lines	Test Lines	5/30/2017	19:37:00	USER	Load line with 2 bbls of water. Test lines @ 3315 PSI
Event	13	Pump Spacer	Pump Spacer	5/30/2017	19:40:00	USER	Pump 50 bbls TUNED SPACER @ 10PPG/ 5.5 BPM/ 141 PSI
Event	14	Drop Bottom Plug	Drop Bottom Plug	5/30/2017	19:50:00	USER	PRE-LOADED BOTTOM PLUG IN PLUG CONTAINER, VERIFIED BY CUSTOMER REP.
Event	15	Pump Lead Cement	Pump Lead Cement	5/30/2017	19:53:00	USER	355 sks(162 bbls) OF SWIFTCEM @ 12 ppg,

							verified with pressurized scales/ 6 BPM/ 140 PSI
Event	16	Pump Tail Cement	Pump Tail Cement	5/30/2017	20:23:00	USER	165sks(162 bbls) OF SWIFT @ 14.2 ppg, verified with pressurized scales. 6 BPM/ 182 PSI
Event	17	Shutdown	Shutdown	5/30/2017	20:32:00	USER	Finished pumping cement
Event	18	Drop Top Plug	Drop Top Plug	5/30/2017	20:34:00	USER	Pre-loaded top plug in plug container verified by customer rep.
Event	19	Pump Displacement - Start	Pump Displacement - Start	5/30/2017	20:36:00	USER	167 bbls fresh water
Event	20	Cement Returns to Surface	Cement Returns to Surface	5/30/2017	21:01:00	USER	@95 bbls Displacement. 72 bbls cement to surface, TOTC @ 1360' TOLC 0'
Event	21	Other	SHUTDOWN	5/30/2017	21:04:07	USER	DAY TANK RAN OUT OF WATER, CONTINGENCY WAS TALKED ABOUT BEFORE THE JOB, TO SWITCH TO THE DAY TANK, AND WAS PUT IN PLACE.
Event	22	Other	Other	5/30/2017	21:09:53	USER	WHILE SWITCHING WATER, 2" HOT HOSE CAUGHT FIRE, AND WAS IMMEDIATELY PUT OUT, CAUSING NO EQUIPMENT DAMAGE.
Event	23	Bump Plug	Bump Plug	5/30/2017	21:16:00	USER	BUMP PLUG @1076 PSI.
Event	24	Check Floats	Check Floats	5/30/2017	21:20:00	USER	Floats held. 1 bbls back
Event	25	Other	CASING TEST	5/30/2017	21:24:00	USER	TESTED @ 1847 PSI FOR 30 MIN.
Event	26	End Job	End Job	5/30/2017	22:00:00	COM4	BLEED OFF PRESSURE
Event	27	Safety Meeting	Safety Meeting	5/30/2017	22:08:18	COM4	RIG DOWN SAFETY MEETING WITH ALL ESSENTIAL PERSONNEL.
Event	28	Depart Location Safety Meeting	Depart Location Safety Meeting	5/31/2017	00:15:00	USER	Journey management meeting held prior to departure
Event	29	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	5/31/2017	00:30:00	USER	Called Journey

3.0 Attachments

3.1 Job Chart



