

HALLIBURTON

iCem[®] Service

CONOCO/PHILLIPS COMPANY EBUSINESS

For: Richerd

Date: Sunday, October 12, 2014

1H

PROSPER FARMS

Conoco Prosper Farms Production

Sincerely,

Edur Duran

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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			
On Location			
Job Started			
Job Completed			
Departed Location			

1.2 Cementing Job Summary

Insert Planned Pump Schedule from Proposal or actual Job Procedure built for job

Conoco Phillips Prosper Farms 4-65 11-12 Well# 1H

5 ½ Production

1. Load Lines/ Test Lines @ 5000 PSI
 2. Pump 85 bbls of Clean Spacer @ 10.5 ppg 8bpm
 3. Drop Bottom Plug
 4. Pump 230 bbls of Lead CMT @ 12.0 ppg 8bpm
 5. Pump 416 bbls of Tail CMT @ 13.8 ppg 8bpm
 6. Shutdown
 7. Wash Pumps and Lines into Pit till Clean
 8. Drop Top Plug
 9. Pump 308 bbls of Total Fresh Water Displacement
 - 2.0 90 bbls MMCR Water 8 bpm
 - 3.0 30 bbls Fresh Water 8 bpm
 - 4.0 140 bbls Fresh Water 6-8 bpm
 - 40 bbls Fresh Water 4 bpm
 - 5.0 7 bbls Fresh Water 2 bpm
- Bump Plug 1000PSI over PLP Hold Pressure for 5 Min

5.1 Planned Pumping Schedule

1. **Fill Lines with Water**
 - a. Density = X
 - b. Volume = X
2. **Pressure Test Lines to Xpsi**
3. **Pump X Spacer**
 - a. Density = X lb/gal
 - b. Volume = X bbl
 - c. Rate = X bpm
4. **Pump X Spacer**
 - a. Density = X lb/gal
 - b. Volume = X bbl
 - c. Rate = X bpm
5. **Pump X Spacer**
 - a. Density = X lb/gal
 - b. Volume = X bbl
 - c. Rate = X bpm
6. **Drop Bottom Plug**
7. **Pump X (Lead)**
 - a. Density = X
 - b. Yield = X
 - c. Water Requirement = X
 - d. Volume = X sks (X bbls)
 - e. Rate = X bpm
8. **Pump X (Tail)**
 - a. Density = X
 - b. Yield = X
 - c. Water Requirement = X
 - d. Volume = X sks (X bbls)
 - e. Rate = X bpm
9. **Drop Top Plug**
10. **Start Displacement**
11. **Pump Displacement Water**
 - a. Density = X lb/gal
 - b. Volume = X bbls
 - c. Rate = X bpm
12. **Land Plug – Anticipated Final Circulation Pressure X psi**

Calculated Total Displacement = X bbls

5.2 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	9.8
4	Time circulated before job	HH:MM	3
5	Mud volume circulated	Bbls	
6	Rate at which well was circulated	Bpm	
7	Pipe movement during hole circulation	Y/N	N
8	Rig pressure while circulating	Psi	
9	Time from end mud circulation to start of job	HH:MM	45
10	Pipe movement during cementing	Y/N	0
11	Calculated displacement	Bbls	308
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	
14	Annular flow after job	Y/N	
15	Length of rat hole	Ft	10
16	Units of gas detected while circulating	Units	0
17	Was lost circulation experienced at any time ?	Y/N	0

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

5.3 Water Field Test

Item	Recorded Test Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit
pH		----	6.0 - 8.0	Chemicals in the water can cause severe retardation
Chlorides		ppm	3000 ppm	Can shorten thickening time of cement
Sulfates		ppm	1500 ppm	Will greatly decrease the strength of cement
Total Hardness		ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium		ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity		ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH \geq 8.3)
Bicarbonates		ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all
Potassium		ppm	5000 ppm	High concentrations will shorten the pump time of cement (indicates the presence of chlorides, therefore if Potassium levels are measured as high, so should the chlorides)
Iron		ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature		°F	50-80 °F	High temps will accelerate; Low temps may risk freezing in cold weather

Submitted Respectfully by: _____

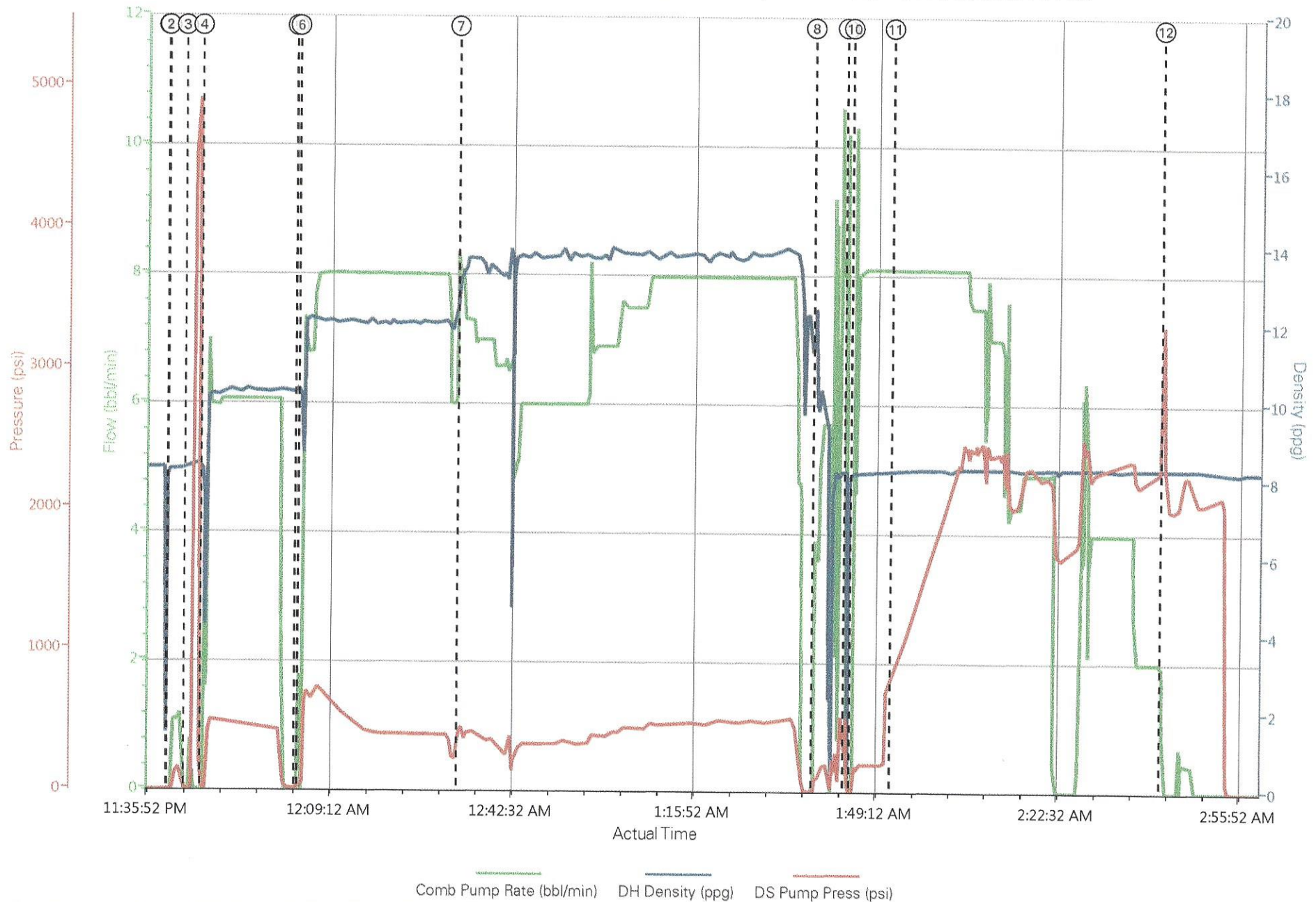
5.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comment
Event	1	Call Out	Call Out	10/11/2014	11:30:00	USER				Called out @ 1130 to be on Location @ 1500
Event	2	Other	Load all Equipment	10/11/2014	12:15:00	USER				Loaded all Equipment
Event	3	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/11/2014	13:45:00	USER				Discussed Route of Travel, Wildlife, Traffic, Weather
Event	4	Depart from Service Center or Other Site	Depart from Service Center or Other Site	10/11/2014	14:00:00	USER				Departed Service Center for Location, Notified Journey Management
Event	5	Arrive at Location from Service Center	Arrive at Location from Service Center	10/11/2014	15:00:00	USER				Arrive on Location From Service Center, Rig has 2 rack of Casing left, Notifeid Journey Management
Event	6	Other	Other	10/11/2014	15:15:00	USER				Discussed Job Procedure with Customer, Tested Water, Water Tested Good, Informed Customer of Results
Event	7	Other	Other	10/11/2014	15:30:00	USER				Went over Bulk Cement Sequence with Bulk Operators
Event	8	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/11/2014	16:00:00	USER				Discussed Soptting of all Equipment, Using 2 Spotters, Hammer Swings, Pinch Points, Line of Fire, Eyes on Path, SWA, Tag Line Upon Loading or Unloading Equipment off using a Forklift
Event	9	Rig-Up Equipment	Rig-Up Equipment	10/11/2014	16:30:00	USER				Rigged up all Equipment
Event	10	Rig-Up Completed	Rig-Up Completed	10/11/2014	19:30:00	USER				Rig up complete
Event	11	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/11/2014	23:00:00	USER	0.00	8.30	-1.00	Discussed Job Procedure all Crew involved, Red Zone, Communication Thru Out Job,, Muster

										Area,,
Event	12	Start Job	Start Job	10/11/2014	23:39:55	COM6	0.00	8.33	0.00	
Event	13	Other	Other	10/11/2014	23:40:01	COM6	0.00	8.32	0.00	Load Lines
Event	14	Test Lines	Test Lines	10/11/2014	23:43:05	COM6	0.00	8.30	1.00	Test Lines @ 5000 psi
Event	15	Pump Spacer 1	Pump Spacer 1	10/11/2014	23:46:05	COM6	1.60	8.35	4.00	Pump 85 bbls of Clean Spacer @ 10.5 ppg
Event	16	Shutdown	Shutdown	10/12/2014	00:00:00	USER	6.10	10.36	433.00	Shutdown To Drop Bottom Plug
Event	17	Drop Bottom Plug	Drop Bottom Plug	10/12/2014	00:03:14	COM6	0.00	10.41	12.00	Dropped Bottom Plug
Event	18	Pump Lead Cement	Pump Lead Cement	10/12/2014	00:03:49	COM6	0.00	10.28	53.00	Pump 230 bbls of Lead Cement @ 12.0 ppg
Event	19	Pump Tail Cement	Pump Tail Cement	10/12/2014	00:32:59	COM6	8.10	13.38	470.00	Pump 415 bbls of Tail Cement @ 13.8 ppg
Event	20	Shutdown	Shutdown	10/12/2014	01:34:26	USER	6.90	13.91	450.00	Shutdown Wash Pumps and Lines
Event	21	Drop Top Plug	Drop Top Plug	10/12/2014	01:43:54	COM6	0.00	1.99	78.00	Drop Top Plug
Event	22	Pump Displacement	Pump Displacement	10/12/2014	01:45:02	COM6	1.70	8.21	-4.00	Pump 308 bbls of Fresh Water Displacement 1st 90 bbls MMCR Treated
Event	23	Displ Reached Cmnt	Displ Reached Cmnt	10/12/2014	01:52:25	COM6	8.00	8.31	859.00	Displacement Reached Cement 55 bbls out on Displacement, Continued @ 8bpm, Custmer Procedure
Event	24	Slow Rate	Slow Rate	10/12/2014	02:06:28	USER	7.50	8.34	2436.00	Slow Rate
Event	25	Slow Rate	Slow Rate	10/12/2014	02:13:48	USER	4.40	8.30	2001.00	Slow Rate
Event	26	Shutdown	Shutdown	10/12/2014	02:21:52	USER	0.00	8.32	1873.00	Shutdown, When rig crew went to Divert Spacer, Leaked in Rig lines, Fixed Leak
Event	27	Other	Other	10/12/2014	02:26:27	USER	2.00	8.31	1997.00	Continue Displacement
Event	28	Bump Plug	Bump Plug	10/12/2014	02:41:53	COM6	0.00	8.34	2614.00	Bump Plug 2400 psi took to 3500 psi
Event	29	Other	Other	10/12/2014	02:42:33	USER	0.00	8.31	2037.00	Bumped Plug Took to 3500 psi, Bled off instantly,

										down to 2200 psi
Event	30	Other	Other	10/12/2014	02:44:43	USER	0.50	8.32	2026.00	Pumped a 1/4 bpm for 1/4 bbl to see fi Pressure up, Dis not Pressure up 1/4 bbl into it, Customer Called Upper Management, They okayed as long as the Floats Held
Event	31	Check Floats	Check Floats	10/12/2014	02:53:49	USER	0.00	8.26	2.00	Checked Floats, Floats Held, 2 bbls bac
Event	32	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	10/12/2014	03:00:00	USER	0.00	8.30	-5.00	Discussed Job outcome with Crew, Discussed Hammer Swings, Pinch Points, Eyes on Path, Line of Fire, Using Tag Lines, Water Breaks when Needed
Event	33	Rig-Down Equipment	Rig-Down Equipment	10/12/2014	03:15:00	USER	4.90	8.73	128.00	Rig Down all Equipment
Event	34	Rig-Down Completed	Rig-Down Completed	10/12/2014	05:30:00	USER				Rig down Completed
Event	35	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/12/2014	05:31:00	USER				Discussed Route of Travel, Traffic, Wildlife, Weather
Event	36	Depart Location for Service Center or Other Site	Depart from Location for Service Center	10/12/2014	05:45:00	USER				Departed Location For Service Center, Notified Journey Management
Event	37	Other	Other	10/12/2014	05:46:00	USER				Thank Your For Using Halliburton Energy Services, Edur Duran and Crew

CONOCO PROSPER FARMS 4-65 11-12 WELL#1H 5 1/2 PRODUCTION SO#0901714187



- | | | | |
|----------------------|-------------------------------|--------------------------------|----------------------------------|
| ① Start Job 0;8.33;0 | ④ Pump Spacer 1 1.6;8.35;4 | ⑦ Pump Tail Cement 8;13.37;471 | ⑩ Pump Displacement 1.7;8.21;-4 |
| ② Other 0;8.32;0 | ⑤ Drop Bottom Plug 0;10.41;12 | ⑧ Clean Lines 3.6;10.76;126 | ⑪ Displ Reached Cmmt 8.1;8.3;864 |
| ③ Test Lines 0;8.3;1 | ⑥ Pump Lead Cement 0;10.26;53 | ⑨ Drop Top Plug 0;1.63;70 | ⑫ Bump Plug 0;8.34;2566 |

The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3471380	Quote #: 0021935408	Sales Order #: 0901714187
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep:	
Well Name: PROSPER FARMS 4-65 11-12	Well #: 1 H	API/UWI #: 05-005-07223-00	
Field: WILDCAT	City (SAP): WATKINS	County/Parish: ARAPAHOE	State: COLORADO
Legal Description: NW NW-11-4S-65W-660FNL-350FWL			
Contractor:		Rig/Platform Name/Num: H&P 280	
Job BOM: 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srv Supervisor: Edur Duran	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	14635ft	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		J-55	0	2200		2200
Casing		5.5	4.67	23	BTC	P-110	0	14636		7695
Open Hole Section			8.75				2178	14635	2200	7695

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	5.5	1		14635		Top Plug	5.5	HES	
Float Shoe	5.5	1				Bottom Plug	5.5	HES	
Float Collar	5.5	1				SSR plug set	5.5	HES	
Insert Float	5.5	1				Plug Container	5.5	HES	
Stage Tool	5.5	1				Centralizers	5.5	HES	

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

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	85	bbl	10.5	3.86	24.2	5		
	30.80 gal/bbl	FRESH WATER								
	0.50 gal/bbl	SEM-7, 55 GAL DRUM (100001626)								
	0.50 gal/bbl	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	ExtendaCem	EXTENDACEM (TM) SYSTEM	665	sack	12	1.94		5	10.29
0.20 %		SUPER CBL, 50 LB PAIL (100003668)							
10.29 Gal		FRESH WATER							
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
3	ExpandaCem B2	EXPANDACEM (TM) SYSTEM	1365	sack	13.8	1.67		5	7.7
7.70 Gal		FRESH WATER							
0.2750 %		SCR-742, 50 LB BAG (102027729)							
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
4	MMCR Displacement	MMCR Displacement	90	bbl	8.34				
0.10 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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
5	Displacement	Displacement	218	bbl	8.34				
Cement Left In Pipe Amount 92 ft Reason Shoe Joint									
Comment									

Summary Report



Crew: _____

Sales Order #: 0901714187

WO #: 0901714187

PO/AFE #: NA

Job Start Date: 10/11/2014

Customer: CONOCO/PHILLIPS COMPANY
EBUSINESS

UWI / API Number: 05-005-07223-00

Well Name: PROSPER FARMS 4-65 11-12

Well No: 1 H

Field: WILDCAT

County/Parish: ARAPAHOE

State: COLORADO

Latitude: 39.723806

Longitude: -104.639511

Sect / Twn / Rng: 11/4/65

Job Type: CMT PRODUCTION

Service Supervisor: CASING BOM

Edur Duran

Cust Rep Name:

Cust Rep Phone #:

Remarks:

The Information Stated Herein Is Correct

Customer Representative Signature

Date

Customer Representative Printed Name