

**CONOCO/PHILLIPS COMPANY EBUSINESS
DO NOT MAIL- 600 N DAIRY ASHFORD
HOUSTON, Texas**

COTTON WOOD CREEK 4-65-27-1H

H&P 276

Post Job Summary

Plug Service - Whipstock

Date Prepared: 4/5/2014
Version: 1

Service Supervisor: NIELSON, BRANDON

Submitted by: PRUDHOMME, JOSHUA

HALLIBURTON

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Wellbore Geometry

Job Tubulars					MD		TVD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	
Drill Pipe	OH Whipstock Assembly	6.63	2.000		7,136.00	7,149.00			15.00
Tubing	4" Tubing	4.00	2.668		0.00	8,248.00		8,240.00	1,075.00
Casing	9-5/8" Casing	9.63	8.921	36.00	0.00	2,163.00			40.00
Open Hole Section	8-3/4" Pilot Hole		8.750		2,163.00	8,248.00			
Drill Pipe	4" Drill Pipe	4.00	3.340	14.00	0.00	6,263.00			
Drill Pipe	4" HWDP	4.00	2.000	29.00	6,263.00	7,163.00			200.00

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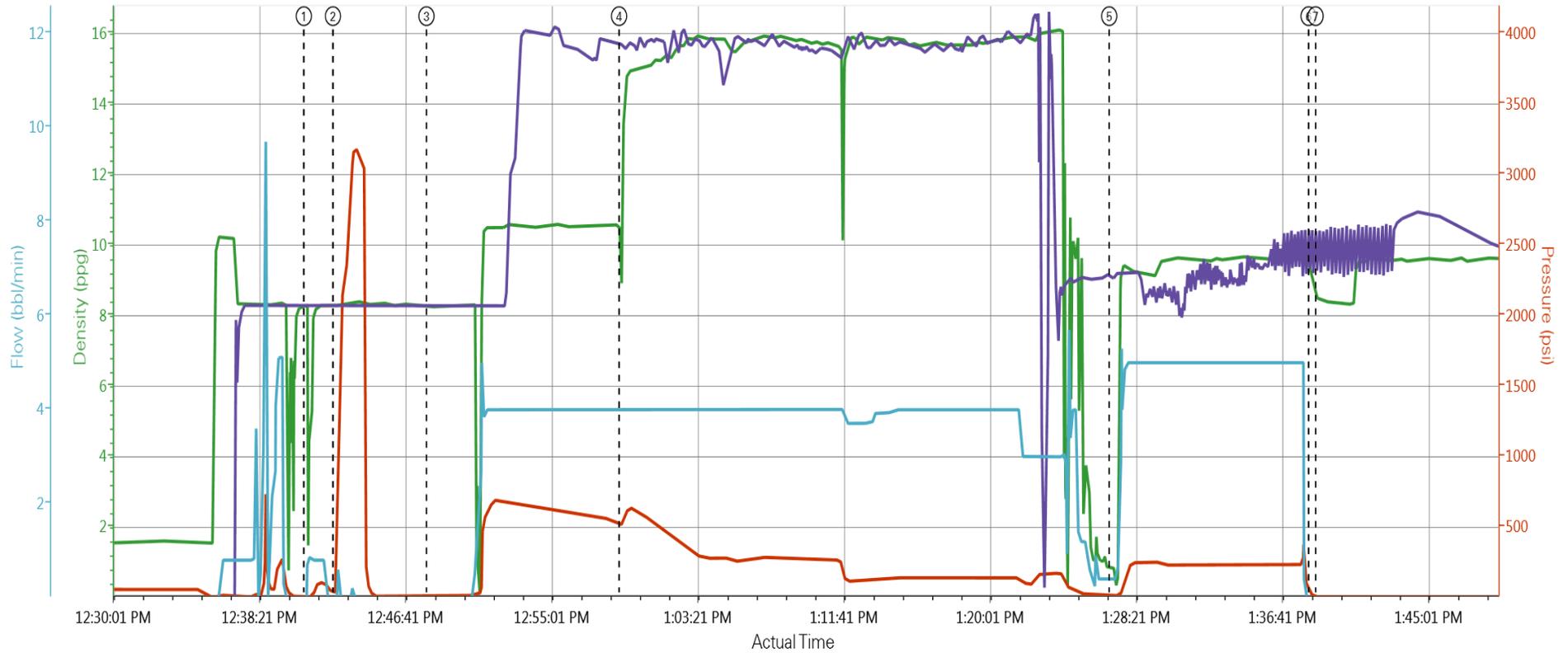
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Clean Spacer III	10.5	4.0	40.0 bbl	40.0 bbl
1	2	Cement Slurry	SwiftCem B2	15.8	4.0	325.0 sacks	325.0 sacks

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Data Acquisition

CONOCO COTTON WOOD CREEK 4-65-27-1H



DH Density (ppg) PS Pump Press (psi) Recirc Density (ppg) DS Pump Rate (bbl/min)

- ① Start Job 8.29;1;8.3;0 ④ Pump Cement 8.88;520;15.77;4 ⑦ Shut Down 8.48;7;10.16;0
- ② Test Lines 8.31;40;8.29;0 ⑤ Pump Displacement 0.93;15;9.09;0.4 ⑧ End Job 9.54;3;6.82;0
- ③ Pump Spacer 18.32;17;8.3;0 ⑥ Other 9.38;26;9.97;0

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/05/2014 00:30		Call Out					
03/05/2014 04:15		Crew Leave Yard					ROADS WERE SLICK AND VERY FOGGY CONDITIONS
03/05/2014 06:15		Arrive At Loc					Upon arrival all hands singed in and those that needed 2014 orientation did so. Rig was at depth but not waiting for Halliburton.
03/05/2014 07:00		Assessment Of Location Safety Meeting					Spoke with the company rep, had a jsa with Halliburton hands and started spotting trucks in
03/05/2014 07:15		Rig-Up Equipment					Started laying iron out so the Conoco safety man could inspect it before fully rigging up.
03/05/2014 07:54		Rig-Up Completed					
03/05/2014 11:45		Safety Meeting					JSA WITH ALL INVOLVED PERSONS
03/05/2014 12:44		Start Job					
03/05/2014 12:46		Test Lines					TESTED LINES TO 3500 PSI NO VISIBLE LEAKS
03/05/2014 12:51		Pump Spacer 1	4	35		609.0	CLEAN SPACER MIXED @ 10.5 PPG WITH FRESH WATER ON A BATCH MIXER
03/05/2014 13:02		Pump Cement	4	88		132.0	325 SKS PLUGCEM MIXED @ 15.8 PPG WITH FRESH WATER
03/05/2014 13:28		Pump Spacer 2	4	5		135.0	CLEAN SPACER MIXED @ 10.5 PPG WITH FRESH WATER ON A BATCH MIXER
03/05/2014 13:30		Pump Displacement	5	60		235.0	OBM SUPPLIED FROM A VAC TRUCK.
03/05/2014 13:38		Shutdown					
03/05/2014 13:38		Other				247.0	PLUG STARTED TO BALANCE AT 60 AWAY.
03/05/2014 14:30		End Job					

The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3284356	Quote #:	Sales Order #: 901167847
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Goins, Clint	
Well Name: COTTON WOOD CREEK		Well #: 4-65-27-1H	API/UWI #: 05-005-07216
Field: WILD CAT	City (SAP): WATKINS	County/Parish: Arapahoe	State: Colorado
Lat: N 39.677 deg. OR N 39 deg. 40 min. 37.78 secs.		Long: W 104.658 deg. OR W -105 deg. 20 min. 29.71 secs.	
Contractor: H&P		Rig/Platform Name/Num: H&P 276	
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well		Job Type: Plug Service - Whipstock	
Sales Person: GROFF, THEODORE		Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L	9.8	485204	HARRAH, THADDEUS Gregory	9.8	552592	LEONE, BRIAN C	9.8	561735
NIELSON, BRANDON K	9.8	479703	ROMERO, JOSEPH M	9.8	512137			

Equipment

HES Unit #	Distance-1 way						
11036301	48 mile	11812069C	48 mile	12010172	48 mile	53301	48 mile

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					05 - Mar - 2014	00:30	MST
Form Type			BHST	On Location	05 - Mar - 2014	06:15	MST
Job depth MD	8248. ft		Job Depth TVD	8240. ft	Job Started	05 - Mar - 2014	12:44
Water Depth			Wk Ht Above Floor	3. ft	Job Completed	05 - Mar - 2014	14:30
Perforation Depth (MD)	From		To		Departed Loc	05 - Mar - 2014	16:00

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8-3/4" Pilot Hole				8.75				2163.	8248.		
9-5/8" Casing	Mixed		9.625	8.921	36.	STC	J-55	.	2163.		
4" Drill Pipe	Unknown		4.	3.34	14.			.	6263.		
4" HWDP	Unknown		4.	2.	29.			6263.	7163.		
OH Whipstock Assembly	Unknown		6.625	2.				7136.	7149.		
4" Tubing	Unknown		4.	2.668				.	8248.		8240.

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Clean Spacer III		40.00	bbl	10.5	3.86	24.21	4.0	
2	SwiftCem B2	PLUGCEM (TM) SYSTEM (452969)	325.0	sacks	15.8	1.52	6.19	4.0	6.19
6.19 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
<i>Displacement</i>		Shut In: Instant		Lost Returns		<i>Cement Slurry</i>		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		60.0 Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
<i>Circulating</i>		<i>Mixing</i>		<i>Displacement</i>		Avg. Job			
Cement Left In Pipe		Amount	40 ft	Reason	Shoe Joint				
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

