

**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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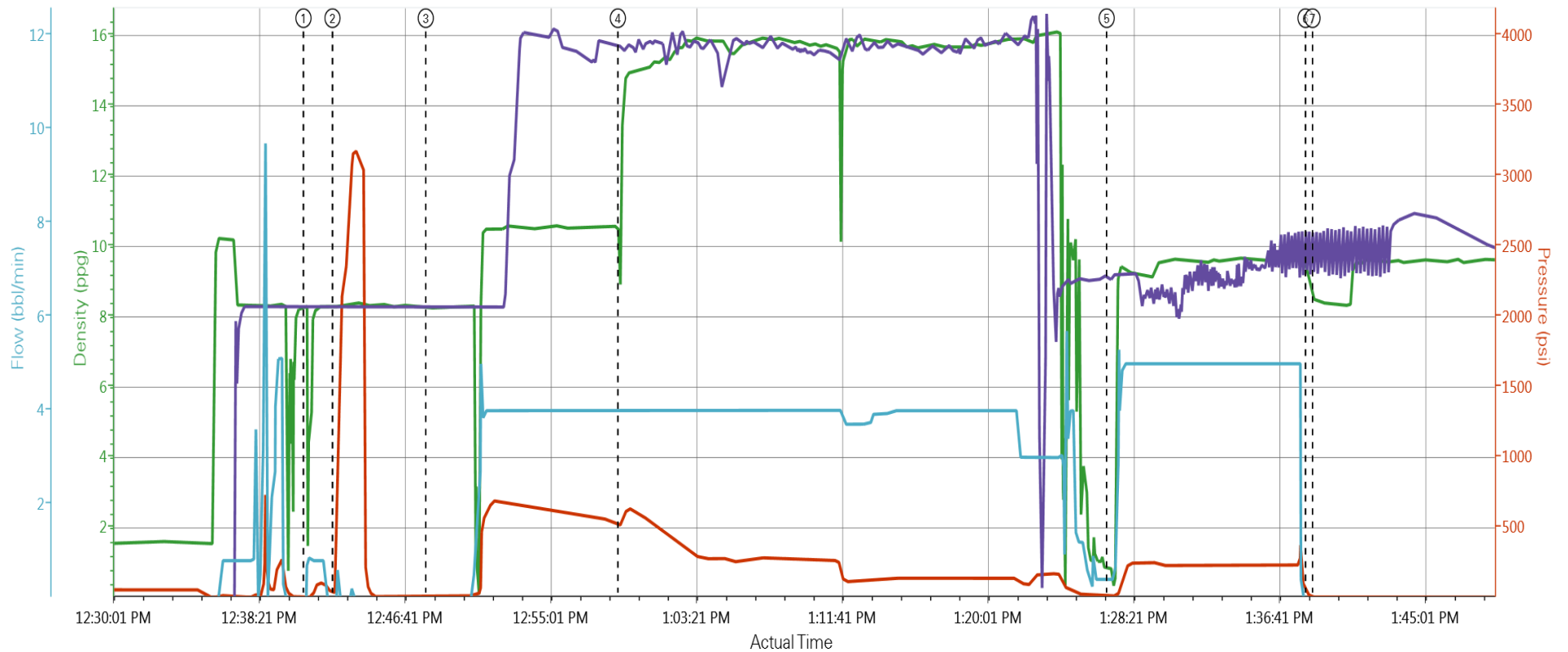
Pumping Schedule

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

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom	Called Out	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 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	05 - Mar - 2014	14:30 MST
Perforation Depth (MD)	From		To	Departed Loc	05 - Mar - 2014	16:00 MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/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					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		60.0 Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		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					

