

HALLIBURTON

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CONOCO/PHILLIPS COMPANY EBUSINESS

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Tebo 4-1H  
WILD CAT  
Arapahoe County , Colorado

Plug Service - Whipstock  
13-Jan-2014

Job Site Documents

# HALLIBURTON

## Work Order Contract

Order Number

901033937

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No. 4-1H	Farm or Lease Tebo	County Arapahoe	State Colorado	Well Permit Number 400395693
Customer CONOCO/PHILLIPS COMPANY EBUSINESS		Well Owner Plug Service - Whipstock		

**THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED**

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices of Halliburton are exclusive of any federal, state or municipal taxes which may be imposed on the sale or use of any materials, products or supplies furnished or services performed. Customer agrees to pay such taxes in addition to the prices in Halliburton's price list. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorney fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

C. **RELEASE AND INDEMNITY** - Customer agrees to **RELEASE** Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to **DEFEND, INDEMNIFY, AND HOLD** Halliburton Group **HARMLESS** from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

**CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. **Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insured on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the current published replacement rate, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group.** Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **DISPUTE RESOLUTION** Except for Halliburton's statutory rights with regard to collection of past due invoices for services or materials, including the Contractor's statutory rights for perfection and enforcement of mechanics' and materialmen's liens, Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. **SEVERABILITY** - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 10200 Bellaire Blvd, Houston, TX 77072-5299.

**I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE CONTRACT BETWEEN THE PARTIES.**

**Customer Acceptance of Terms and Conditions, Materials and Services**

CUSTOMER Authorized Signatory

Date

## Field Ticket

<b>Field Ticket Number:</b> 901033937	<b>Field Ticket Date:</b> Tuesday, January 14, 2014
<b>Bill To:</b> CONOCO/PHILLIPS COMPANY EBUSINESS DO NOT MAIL- 600 N DAIRY ASHFORD HOUSTON, TX 77079	<b>Job Name:</b> Whipstock <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Tebo 4-1H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> Fort Lupton, CO, USA <b>Sales Office:</b> Rocky Mountains BD <b>Well Type:</b> Vertical Oil <b>Well Category:</b> Development
<b>Ship To:</b> TEBO 4 1H,ARAPAHOE TEBO 4 1H 3140960 SEC. 4-T5S-R64W CENTENNIAL, CO 80015	

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7529	CMT WHIPSTOCK PLUG BOM	1	JOB	0.00	0.00	0.00	67%	0.00
2	MILEAGE FOR CEMENTING CREW,ZI	100	MI	0.00	5.76	576.00	67%	190.08
	<i>Number of Units</i>	1						
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	100	MI	0.00	9.79	1,958.00	67%	646.14
	<i>Number of Units</i>	2						
16094	PLUG BACK/SPOT CEMENT OR MUD,ZI	1	EA	0.00	15,120.00	15,120.00	67%	4,989.60
	<i>DEPTH</i>	9806						
	<i>FEET/METERS (FT/M)</i>		FT					
114	R/A DENSOMETER W/CHART RECORDER,/JOB,Z	1	JOB	0.00	1,285.00	1,285.00	67%	424.05
	<i>NUMBER OF UNITS</i>	1						
139	ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB	0.00	2,275.00	2,275.00	67%	750.75
	<i>NUMBER OF UNITS</i>	1						
130104	PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA	0.00	2,549.00	2,549.00	67%	841.17
	<i>DAYS OR PARTIAL DAY(WHOLE NO.)</i>	1						
719269	SBM, CMT CleanSpacer III	120	BBL	0.00	250.00	30,000.00	67%	9,900.00
102077046	CHEM, SA-1015, 50 LB SACK	184	LB	0.00	84.60	15,566.40	67%	5,136.91
100003691	SAND-200 MESH SILICA FLOUR SSA-1	17454	LB	0.00	1.50	26,181.00	67%	8,639.73
100001626	SEM-7	60	GAL	0.00	143.08	8,584.80	67%	2,832.98
100003696	MUSOL(R) A	60	GAL	0.00	155.97	9,358.20	67%	3,088.21
452969	PLUGCEM (TM) SYSTEM	235	SK			16,648.22	67%	5,493.91
100003691	SAND-200 MESH SILICA FLOUR SSA-1	7734	LB	0.00	1.50	11,601.00	67%	3,828.33

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<b>Ship To:</b> TEBO 4 1H,ARAPAHOE TEBO 4 1H 3140960 SEC. 4-T5S-R64W CENTENNIAL, CO 80015	

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
100005050	HR-5	112	LB	0.00	11.07	1,239.84	67%	409.15
452969	PLUGCEM (TM) SYSTEM	235	SK			29,489.06	67%	9,731.39
452969	PLUGCEM (TM) SYSTEM	145	SK			17,843.23	67%	5,888.27
76400	ZI MILEAGE,CMT MTLs DEL/RET MIN NUMBER OF TONS	50 48.52	MI	0.00	3.35	8,127.10	67%	2,681.94
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI NUMBER OF EACH Unit of Measurement	1193 1	CF EA	0.00	5.49	6,549.57	67%	2,161.36
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON Number of Units	100 1	MI	0.00	0.24	24.00		24.00
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON Number of Units	100 2	MI	0.00	0.72	144.00		144.00
87605	ZI FUEL SURCHG-CMT & CMT ADDITIVES NUMBER OF TONS	50 48.52	MI	0.00	0.24	582.24		582.24
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1	JOB	0.00	134.00	134.00		134.00
8	IRON SAFETY INSPECTION SURCHARGE /JOB ZI	1	JOB	0.00	83.00	83.00		83.00
372867	Cmt PSL - DOT Vehicle Charge, CMT	6	EA	0.00	241.00	1,446.00		1,446.00
144	ZI-100 BBL BLENDER STANBY TIME NUMBER OF UNITS	16 1	H	0.00	216.00	3,456.00	67%	1,140.48
143	ZI-100 BBL BLENDER (4 HR) HOURS OR FRACTION (MIN4)	1 4	EA	0.00	3,898.00	3,898.00	67%	1,286.34

*Field Ticket*

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<b>Ship To:</b> TEBO 4 1H,ARAPAHOE TEBO 4 1H 3140960 SEC. 4-T5S-R64W CENTENNIAL, CO 80015	

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
101216940	POLY-E-FLAKE	80	LB	0.00	7.84	627.20	67%	206.98
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HOURS UNIT OF MEASURE - HRS	1 12	EA H	0.00	1,139.00	13,668.00	67%	4,510.44
<b>Totals</b>						<b>USD</b>		
						<b>229,013.86</b>	<b>151,822.41</b>	<b>77,191.45</b>

Halliburton Rep: AARON SMITH  
 Customer Agent: Wes Evans  
 Halliburton Approval

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE.  
 CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS.

X \_\_\_\_\_ FIELD TICKET TOTAL: USD 77,191.45  
 Customer Signature

Was our HSE performance satisfactory? **Y or N**      Were you satisfied with our Equipment? **Y or N**      Were you satisfied with our people? **Y or N**  
 (Health, Safety, Environment)

Comments

Customer Information Only
COP plant code
COP approver/user ID
Network#
Activity code
OLA Number

The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3140960	Quote #:	Sales Order #: 901033937
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Evans, Wes	
Well Name: Tebo		Well #: 4-1H	API/UWI #: 05-005-07210
Field: WILD CAT	City (SAP): CENTENNIAL	County/Parish: Arapahoe	State: Colorado
Legal Description: Section 4 Township 5S Range 64W			
Lat: N 39.64 deg. OR N 39 deg. 38 min. 24.902 secs.		Long: W 104.565 deg. OR W -105 deg. 26 min. 4.38 secs.	
Contractor: H&P		Rig/Platform Name/Num: H&P 280	
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well		Job Type: Plug Service - Whipstock	
Sales Person: GROFF, THEODORE		Srvc Supervisor: SMITH, AARON	MBU ID Emp #: 518187

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DODSON, RICHARD Bryan	29.5	518192	MARKOVICH, STEVEN Michael	29.5	502964	SMITH, AARON David	29.5	518187
TAUILILI, SAIAIGA	29.5	545471						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	50 mile	11542577	50 mile	11562544C	50 mile	11812069C	50 mile
12010173	50 mile	6444C	50 mile				

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1-12-14	1	0	1-13-14	24	9	1-14-14	4.5	1.5
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

### Job

### Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	12 - Jan - 2014	18:30	MST
Form Type			BHST	Job Started	12 - Jan - 2014	23:00	MST
Job depth MD	9806. ft		Job Depth TVD	Job Started	13 - Jan - 2014	10:57	MST
Water Depth			Wk Ht Above Floor	Job Completed	14 - Jan - 2014	02:59	MST
Perforation Depth (MD)	From		To	Departed Loc	14 - Jan - 2014	04:30	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.	9806.		
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				8896.	9806.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%

Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty
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Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /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	.0	
	0.5 gal/bbl	SEM-7, 5 GAL PAIL (100003860)							
	0.5 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)							
2	PLUG #1	PLUGCEM (TM) SYSTEM (452969)	235.0	sacks	15.8	1.52	6.17		6.17
	35 %	SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)							
	0.5 %	HR-5, 50 LB SK (100005050)							
	6.17 Gal	FRESH WATER							
3	CLEAN SPACER III		40.00	bbl	10.5	3.86	24.21	.0	
	1.526 lbm/bbl	SA-1015, 50 LB SACK (102077046)							
	145.45 lbm/bbl	SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)							
	0.5 gal/bbl	SEM-7, 5 GAL PAIL (100003860)							
	0.5 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)							
4	PLUG #2	PLUGCEM (TM) SYSTEM (452969)	235.0	sacks	15.8	1.52	6.17		6.17
	6.17 Gal	FRESH WATER							
5	CLEAN SPACER III		40.00	bbl	10.5	3.86	24.21	.0	
	1.526 lbm/bbl	SA-1015, 50 LB SACK (102077046)							
	145.45 lbm/bbl	SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)							
	0.5 gal/bbl	SEM-7, 5 GAL PAIL (100003860)							
	0.5 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)							
6	PLUG #3	PLUGCEM (TM) SYSTEM (452969)	145.0	sacks	15.8	1.52	6.19		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	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

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 352431	<b>Ship To #:</b> 3140960	<b>Quote #:</b>	<b>Sales Order #:</b> 901033937
<b>Customer:</b> CONOCO/PHILLIPS COMPANY EBUSINESS		<b>Customer Rep:</b> Evans, Wes	
<b>Well Name:</b> Tebo	<b>Well #:</b> 4-1H	<b>API/UWI #:</b> 05-005-07210	
<b>Field:</b> WILD CAT	<b>City (SAP):</b> CENTENNIAL	<b>County/Parish:</b> Arapahoe	<b>State:</b> Colorado
<b>Legal Description:</b> Section 4 Township 5S Range 64W			
<b>Lat:</b> N 39.64 deg. OR N 39 deg. 38 min. 24.902 secs.		<b>Long:</b> W 104.565 deg. OR W -105 deg. 26 min. 4.38 secs.	
<b>Contractor:</b> H&P	<b>Rig/Platform Name/Num:</b> H&P 280		
<b>Job Purpose:</b> Plug Service - Whipstock			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Plug Service - Whipstock	
<b>Sales Person:</b> GROFF, THEODORE	<b>Srvc Supervisor:</b> SMITH, AARON	<b>MBU ID Emp #:</b> 518187	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	01/12/2014 11:00							WITH ALL EQUIPMENT AND MATERIALS, RIG STILL RUNNING DRILL PIPE.
Assessment Of Location Safety Meeting	01/12/2014 11:45							HAZARD HUNT, COMPANY SAFETY REP CHECKED ALL IRON PRIOR TO RIG UP
Pre-Rig Up Safety Meeting	01/12/2014 23:00							GO/NO GO ALL IRON
Rig-Up Equipment	01/13/2014 00:15							
Rig-Up Completed	01/13/2014 01:00							
Casing on Bottom	01/13/2014 03:00							DRILL PIPE
Circulate Well	01/13/2014 03:00							
Pre-Job Safety Meeting	01/13/2014 10:00							WITH CUSTOMER REPS AND RIG CREW
Start Job	01/13/2014 10:57							
Test Lines	01/13/2014 10:57						2000.0	
Pump Spacer 1	01/13/2014 11:05		5	34	34		100.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK
Pump Cement	01/13/2014 11:18		5	63	97		95.0	235 SKS PLUGCEM B1 @ 15.8 PPG, 1.52 YIELD, 6.17 GAL/SK
Pump Spacer 1	01/13/2014 11:35		5	6	103		65.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK

Sold To # : 352431

Ship To # : 3140960

Quote # :

Sales Order # : 901033937

SUMMIT Version: 7.3.0109

Tuesday, January 14, 2014 04:33:00

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	01/13/2014 11:50		5	75	178		210.0	OBM
Shutdown	01/13/2014 12:08							PLUG BALLANCED
Other	01/13/2014 12:15							PULL OUT 8 STANDS
Circulate Well	01/13/2014 12:35							
Test Lines	01/13/2014 19:05						2000.0	
Pump Spacer 1	01/13/2014 19:18		5	34	212		75.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK
Pump Cement	01/13/2014 19:32		5	63	275		65.0	235 SKS PLUGCEM B1 @ 15.8 PPG, 1.52 YIELD, 6.17 GAL/SK
Pump Spacer 1	01/13/2014 19:47		5	6	281		70.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK
Pump Displacement	01/13/2014 19:52		5	67	348		55.0	OBM
Shutdown	01/13/2014 20:06							PLUG BALANCED
Other	01/13/2014 20:20							PULL 8 STANDS, PIPE PULLED DRY
Circulate Well	01/13/2014 21:00							
Test Lines	01/14/2014 01:54						2000.0	
Pump Spacer 1	01/14/2014 02:07		5	34	382		45.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK
Pump Cement	01/14/2014 02:22		5	40	422		45.0	145 SKS PLUGCEM B1 @ 15.8 PPG, 1.52 YIELD, 6.17 GAL/SK
Pump Spacer 1	01/14/2014 02:31		5	6	428		45.0	CLEAN SPACER WITH MUSOL-A AND SEM-7 @ 10.5 PPG, 3.86 YIELD, 24.21 GAL/SK
Pump Displacement	01/14/2014 02:37		5	63	491		45.0	
Shutdown	01/14/2014 02:51							
End Job	01/14/2014 02:59							

Sold To # : 352431

Ship To # : 3140960

Quote # :

Sales Order # : 901033937

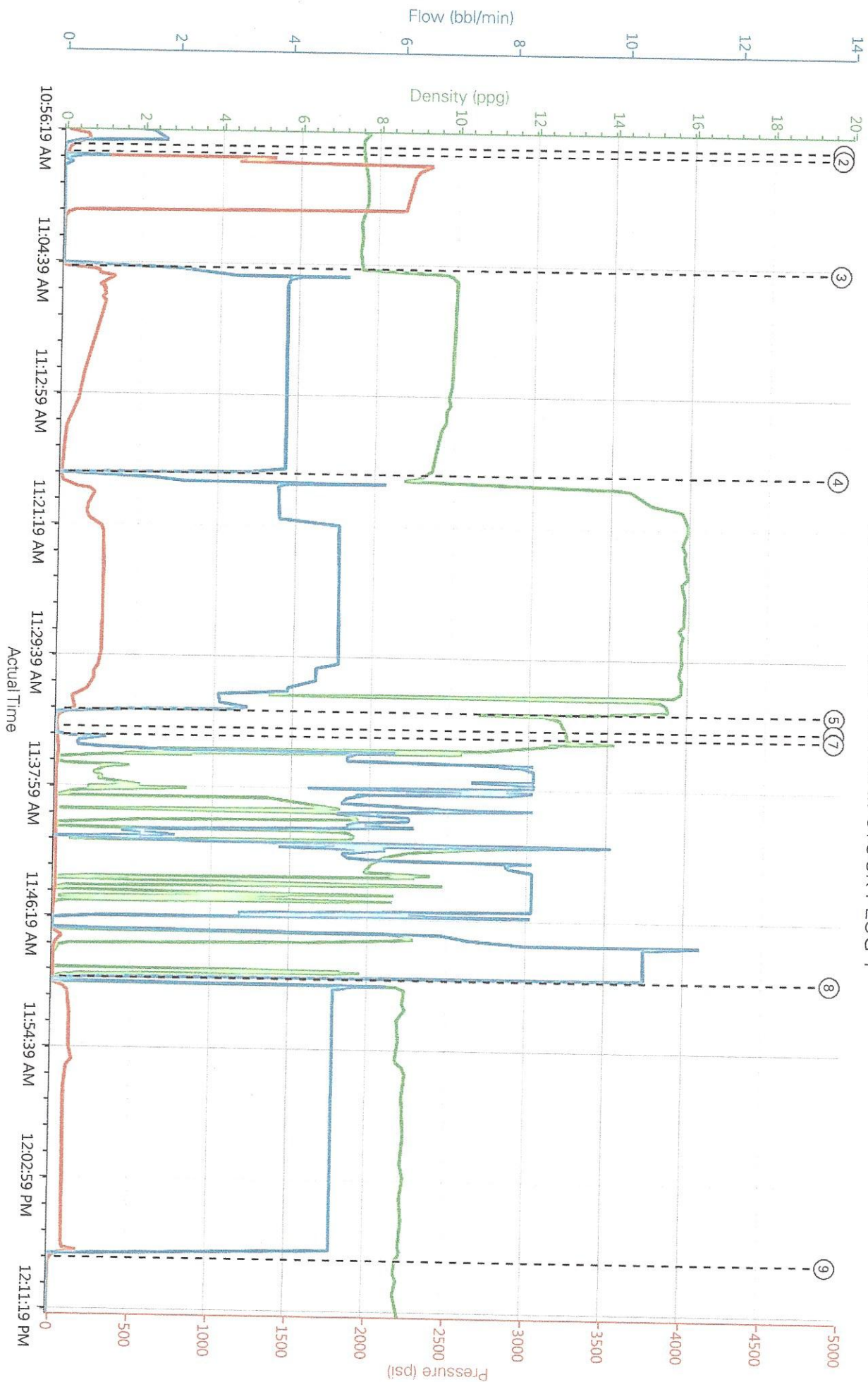
SUMMIT Version: 7.3.0109

Tuesday, January 14, 2014 04:33:00

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	01/14/2014 03:00							PULLED 5 STANDS, PIPE PULLED DRY

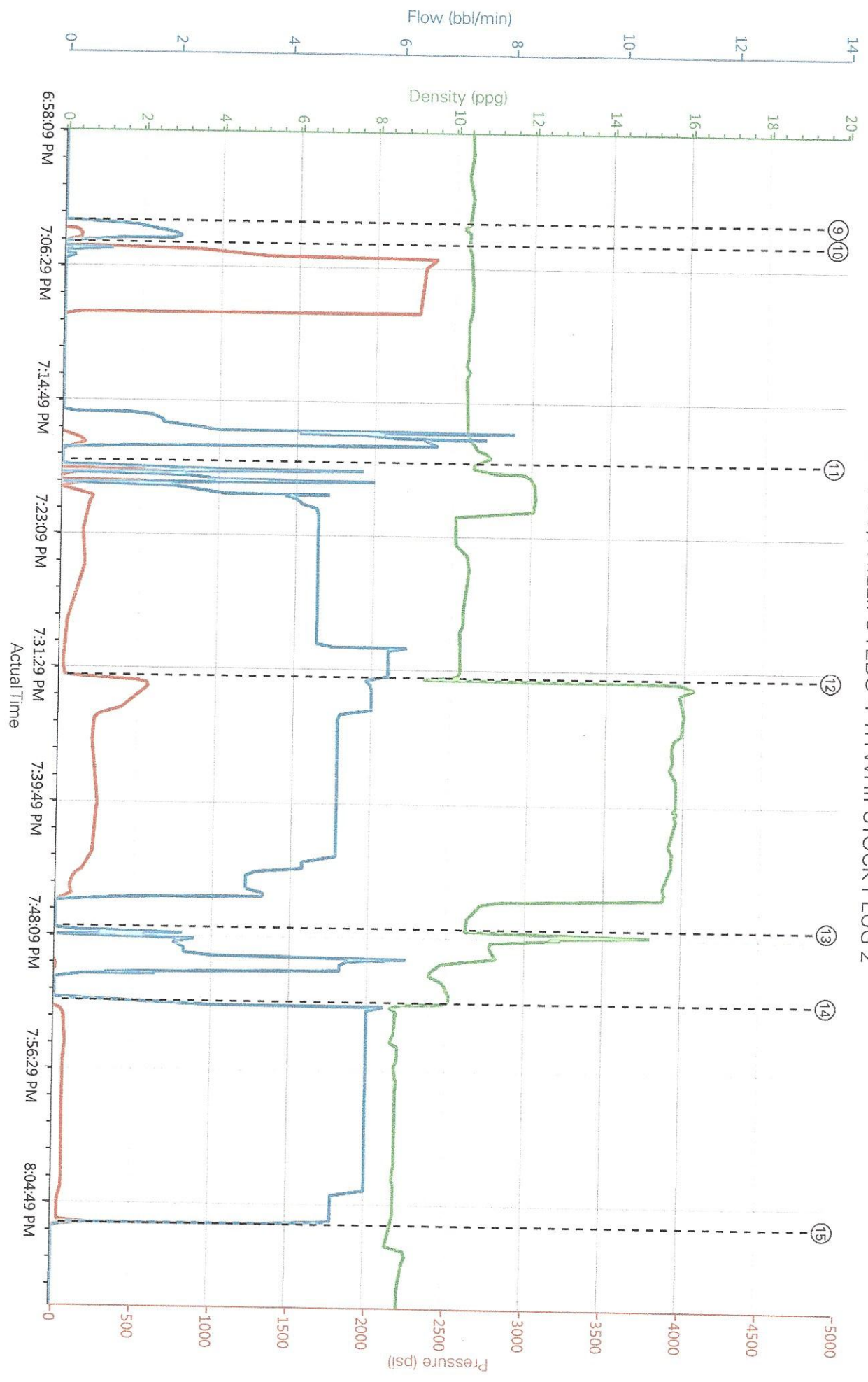
# CONOCO/PHILLIPSTERO 4-1H WHIPSTOCK PLUG 1



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

- ① Start Job 7.6:28:0
- ② Test Lines 7.6:21:0
- ③ Pump Spacer 1 9.48:236:2.5
- ④ Pump Cement 9.15:9:1
- ⑤ Shutdown 12.78:29:0
- ⑥ Pump Displacement 12.98:9:0
- ⑦ Pump Spacer 1 14.19:13:0.4
- ⑧ Pump Displacement -0.11:3:0
- ⑨ Shutdown 8.83:5:0
- ⑩ Circulate Well -0.31:2:0

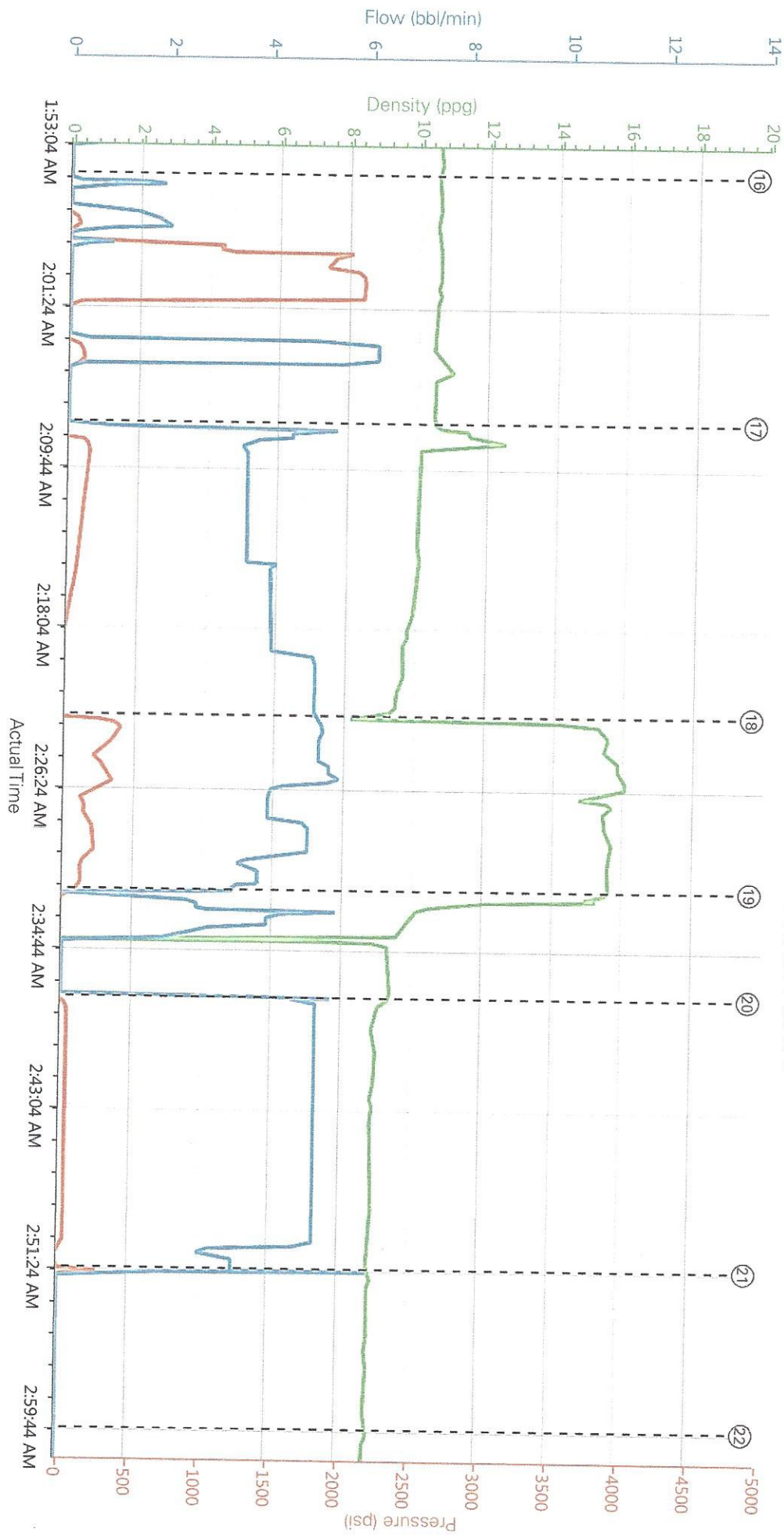
# CONOCO/PHILLIPSTEBO 4-1H WHIPSTOCK PLUG 2



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

- ① Start Job 7:6:28:0
- ② Test Lines 7:6:21:0
- ③ Pump Spacer 1 9:48:236:2:5
- ④ Pump Cement 9:15:9:1
- ⑤ Pump Spacer 1 12:25:16:0:4
- ⑥ Pump Displacement 0:11:3:0
- ⑦ Shutdown 8:83:5:0
- ⑧ Circulate Well 0:31:2:0
- ⑨ Start Job 10:18:56:52:1:2
- ⑩ Test Lines 10:31:41:84:0
- ⑪ Pump Spacer 1 10:52:57:0
- ⑫ Pump Cement 15:49:430:5:5
- ⑬ Pump Spacer 1 11:04:43:0
- ⑭ Pump Displacement 0:11:3:0

# CONOCO/PHILLIPS TEBO 4-1H WHIPSTOCK PLUG 3



- ① Start Job 7:6:28:0
- ② Test Lines 7:6:21:0
- ③ Pump Spacer 1 9:48:236:2.5
- ④ Pump Cement 9:15:9:1
- ⑤ Pump Spacer 1 12:25:16:0.4
- ⑥ Pump Displacement 0:11:3:0
- ⑦ Shutdown 8:83:5:0
- ⑧ Circulate Well 0:31:2:0
- ⑨ Start Job 10:18:56:52:1.2
- ⑩ Test Lines 10:31:41:84:0
- ⑪ Pump Spacer 1 10:52:57:0
- ⑫ Pump Cement 15:49:430:5.5
- ⑬ Pump Spacer 1 10:48:48:0
- ⑭ Pump Displacement 8:63:49:2.5
- ⑮ Shutdown 8:66:13:0
- ⑯ Start Job 10:54:61:0
- ⑰ Pump Spacer 1 10:51:60:0.3
- ⑱ Pump Cement 8:18:12:5.1
- ⑲ Pump Spacer 1 15:36:25:67:0
- ⑳ Pump Displacement 9:37:7:15.1
- ㉑ Shutdown 8:87:277:2.1
- ㉒ End Job 8:99:58:0

**HALLIBURTON** | iCem® Service

Created: 2014-01-13 02:38:17, Version: 3.01121

Customer: CONOCO/PHILLIPS COMPANY  
 EBUSINESS  
 Representative: AARON SMITH

Job Date: 1/13/2014 2:49:21 AM  
 Sales Order #: 901033937

Well: TEBO 4-1H