

**HALLIBURTON**

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# **CONOCO/PHILLIPS COMPANY EBUSINESS**

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**Youngberg 10-11-1H  
WILDCAT  
Arapahoe County , Colorado**

**Cement Intermediate Casing**  
**19-Sep-2013**

**Job Site Documents**

# HALLIBURTON

## Work Order Contract

Order Number

900749335

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. 10-11-1H	Farm or Lease Youngberg	County Arapahoe	State Colorado	Well Permit Number TEMP801711023
Customer CONOCO/PHILLIPS COMPANY EBUSINESS		Well Owner	Job Purpose Cement Intermediate Casing	

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 HARMLESS** 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, and insured and subcontractors and all its 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(ies). 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

*The Road to Excellence Starts with Safety*

Sold To #: 352431	Ship To #: 3096269	Quote #:	Sales Order #: 900749335
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Evans, Wes	
Well Name: Youngberg	Well #: 10-11-1H	API/UWI #: 05-005-07211	
Field: WILDCAT	City (SAP): BENNETT	County/Parish: Arapahoe	State: Colorado
Legal Description: Section 11 Township 4S Range 64W			
Lat: N 39.713 deg. OR N 39 deg. 42 min. 46.98 secs.		Long: W 104.509 deg. OR W -105 deg. 29 min. 27.6 secs.	
Contractor: H&P		Rig/Platform Name/Num: H&P 280	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: GROFF, THEODORE		Srvc Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
Barrera, Jorge	10.5	1234567	BULINSKI, MATTHEW J	10.5	483865	CARPENTER, JACOB P	10.5	499500
Kadir, Zam	10.5	1234568	NESBITT, ROY Iverson	10.5	537416	TRANCOSO, JEFFREY Donald	10.5	550472
VIATOR, JASON R.	10.5	550394						

**Equipment**

HES Unit #	Distance-1 way						
10248062 C	40 mile	10982754 C	40 mile	11398319	40 mile	11527037	40 mile
11542577	40 mile	11562546 C	40 mile	11562570C	40 mile	11605598	40 mile
11812069 C	40 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-18-13	10.5	2.5						

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Called Out	18 - Sep - 2013	04:00 MST
Bottom	On Location	18 - Sep - 2013	09:00 MST
Form Type	Job Started	18 - Sep - 2013	15:42 MST
BHST	Job Completed	19 - Sep - 2013	18:15 MST
Job depth MD	7806. ft	Job Depth TVD	
Water Depth	Wk Ht Above Floor	Departed Loc	18 - Sep - 2013 19:30 MST
Perforation Depth (MD) From	To		

**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" Open Hole				8.75				1945.	7816.		
7" Casing	Unknown		7.	6.094	32.	BTC	P-110	.	7806.		
9-5/8" Casing	Unknown		9.625	8.921	36.	STC	J-55	.	1958.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	0	JOB		
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
CLR,FLT,7 LG 8RD 23-26PPF,2-3/4	1	EA		
CENTRALISER SLIDER II,#0700-0834S	80	EA		
Description	Qty	Qty uom	Depth	Supplier

CLAMP - LIMIT - 7 - HINGED -	1	EA		
KIT,HALL WELD-A	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	100	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	100	MI		

### 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				7724	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	

### 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	ExtendaCem B1	EXTENDACEM (TM) SYSTEM (452981)	450.0	sacks	12.	1.99	10.64		10.64
	0.2 %	SUPER CBL, 50 LB PAIL (100003668)							
	3 %	SALT, BULK (100003695)							
	10.64 Gal	FRESH WATER							
3	HalCem	HALCEM (TM) SYSTEM (452986)	135.0	sacks	15.8	1.52	6.19		6.19
	0.25 %	HR-5, 50 LB SK (100005050)							
	6.19 Gal	FRESH WATER							

#### Calculated Values

#### Pressures

#### Volumes

Displacement	278	Shut In: Instant		Lost Returns	0	Cement Slurry	196	Pad	
Top Of Cement	729.045	5 Min		Cement Returns	0	Actual Displacement	278	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	524

### Rates

Circulating	6	Mixing	6	Displacement	8	Avg. Job	7
Cement Left In Pipe	Amount	80 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*

Sold To #: 352431	Ship To #: 3096269	Quote #:	Sales Order #: 900749335
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Evans, Wes	
Well Name: Youngberg	Well #: 10-11-1H	API/UWI #: 05-005-07211	
Field: WILDCAT	City (SAP): BENNETT	County/Parish: Arapahoe	State: Colorado
Legal Description: Section 11 Township 4S Range 64W			
Lat: N 39.713 deg. OR N 39 deg. 42 min. 46.98 secs.		Long: W 104.509 deg. OR W -105 deg. 29 min. 27.6 secs.	
Contractor: H&P	Rig/Platform Name/Num: H&P 280		
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well	Job Type: Cement Intermediate Casing		
Sales Person: GROFF, THEODORE	Srvc Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	09/18/2013 09:00							Arrived 30mins Early and Rig Still has Alot of csg to run
Assessment Of Location Safety Meeting	09/18/2013 12:00							Hazard hunt on Location before spotting in trucks
Safety Meeting - Pre Rig-Up	09/18/2013 12:15							JSA on Rigging up Bulk trucks and Iron to Rig
Rig-Up Equipment	09/18/2013 12:25							
Rig-Up Completed	09/18/2013 13:15							
Safety Meeting - Pre Job	09/18/2013 15:00							JSA with Company Man, Rig Hands, and HES hands on Pump schedule
Start Job	09/18/2013 15:42							
Test Lines	09/18/2013 15:45							4000psi Pressure Test Lines To Rig Floor
Pump Spacer 1	09/18/2013 15:49		5	40			320.0	40bbls Clean Spacer III, 10.5ppg, 3.86yield, 24.21gal/sk, Mixed with rig water, Musol, Sem 7, and D-air on Batch Mixer and # verify by pressurized mud scales.... Good returns throughout..
Drop Bottom Plug	09/18/2013 16:01							Pre-Loaded
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	09/18/2013 16:01		6.5	159.5	199.5		180.0	450sks ExtendaCem B2, 12ppg, 1.99yield, 10.64gal/sk, Mixed with rig water on Pump Truck and # verify by pressurized mud scales... Good returns throughout...
Pump Tail Cement	09/18/2013 16:34		6.5	36.5	236		120.0	135sks Halcem B1, 15.8ppg, 1.52yield, 6.19gal/sk, Mixed with rig water on Pump Truck and # verify by pressurized mud scales... Good returns throughout....
Shutdown	09/18/2013 16:44							
Clean Lines	09/18/2013 16:44		3	10	246			Wash Lines
Drop Top Plug	09/18/2013 16:52							Pre-Loaded
Pump Displacement	09/18/2013 16:53		8	278	524		1950.0	H2O Displacment... Good Returns Throughout.... Spacer to Surface at 260bbbls Away giving 18bbbls back to surface
Bump Plug	09/18/2013 17:31		3				2350.0	Slowed down last 20bbbls to 3bbl/min to Bump.. Plug Landed at 2350psi and brought to 2896psi for 3mins
Check Floats	09/18/2013 17:34							
Other	09/18/2013 17:36							1500psi for 30mins Csg Test...
Safety Meeting - Pre Rig-Down	09/18/2013 18:06							JSA with Rig hands, and HES hands on rigging down Bulk trucks and Iron from rig...
Rig-Down Equipment	09/18/2013 18:15							
End Job	09/18/2013 18:15							
Rig-Down Completed	09/18/2013 19:00							
Safety Meeting - Departing Location	09/18/2013 19:30							JSA with HES hands on Pre-tripping trucks and Driving back to Brighton Yard..

# Material Roll Up

Sales Order #: 900749335

AFE #:

WO #:

PO #:

Crew: RED CREW

Requested Job Start Date: 9-18-13

## Colorado Oil and Gas Commission Wellsite Form

Customer: *Coroco/Phillips*  
 UWI / API Number: *05-005-07211*  
 Well Name: *Youngberg*  
 Well No: *10-11-1H*  
 Stage / Zone:  
 Formation:

Field: *Wildcat*  
 County/Parish:  
 State: Colorado  
 Latitude:  
 Longitude:  
 Sect / Twn / Rng: / /

Job Type: *Intermediate*  
 Service Supervisor:  
*M. Bolinski*  
 Cust Rep Name: *Evans, Wes*  
 Cust Rep Phone #:

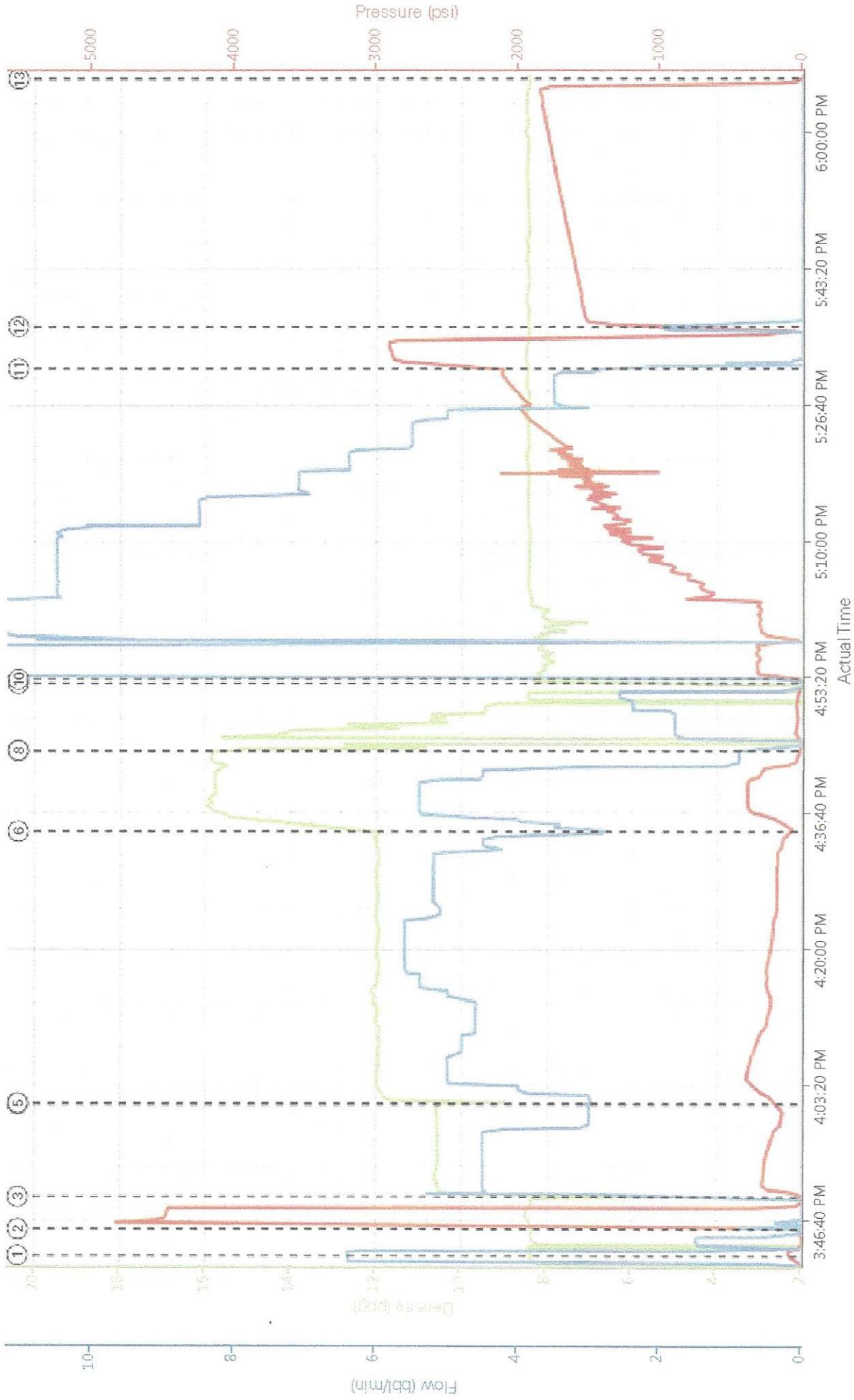
Do Not leave the yard without the proper MSDS documentation for All chemicals.

Colorado Oil and Gas Commission					
Material	Delivered to Location	UOM	Specific Gravity	Weight (lbs)	Comment
<i>Model Clean Space III</i>	<i>9-18-13</i>	<i>LB</i>		<i>5879.3</i>	<i>Dry Bulk cont</i>
<i>45sks Extenda Cem B2</i>	<i>9-18-13</i>	<i>LB</i>		<i>40581</i>	<i>Dry Bulk cont</i>
<i>13sks Halcon B1</i>	<i>9-18-13</i>	<i>LB</i>		<i>17237</i>	<i>Dry Bulk cont</i>
		<i>LB</i>			
		<i>LB</i>			
		<i>Gal</i>			
		<i>Gal</i>			

Operator provided all Material Safety Data Sheets (MSDS) related to material listed above.  
 Operator representative will check box to designate he/she has received all MSDS documentation.

\_\_\_\_\_  
 Operator Representative Signature

# Conoco 9-18-13 Intermediate Youngberg 10-11-1H



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

- ① Start Job
- ② Test Lines
- ③ Pump Spacer 1
- ④ Drop Bottom Plug
- ⑤ Pump Lead Cement
- ⑥ Pump Tail Cement
- ⑦ Shutdown
- ⑧ Clean Lines
- ⑨ Drop Top Plug
- ⑩ Pump Displacement
- ⑪ Bump Plug
- ⑫ Other
- ⑬ End Job

3.5 Job Event Log

Time	Description	Graph Label	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Combined Pump Rate (bbbl/min)	Comment
03:42:35	Start Job	Start Job	8.39	100.00	6.40	
03:45:52	Test Lines	Test Lines	8.36	1194.00	0.00	4000psi Pressure Test Lines
03:49:48	Pump Spacer 1	Pump Spacer 1	8.58	15.00	2.20	40bbl Clean Spacer III
04:01:13	Drop Bottom Plug	Drop Bottom Plug	9.00	195.00	3.00	Pre-Loaded
04:01:21	Pump Lead Cement	Pump Lead Cement	9.96	205.00	3.00	450skts Extendacem, 12ppg
04:34:37	Pump Tail Cement	Pump Tail Cement	12.26	64.00	2.80	135skts Halocem, 15.8
04:44:35	Shutdown	Shutdown	15.17	29.00	0.00	
04:44:36	Clean Lines	Clean Lines	12.81	27.00	0.00	Clean Lines
04:52:49	Drop Top Plug	Drop Top Plug	8.43	-2.00	0.00	Pre-Loaded
04:53:20	Pump Displacement	Pump Displacement	8.39	129.00	8.40	278bbbls H2O Displacement
05:31:22	Bump Plug	Bump Plug	8.48	2286.00	2.80	2350psi Brought to 2896psi 3mins
05:36:30	Other	Other	8.42	1349.00	2.00	1500psi 30min Csg Test
06:06:35	End Job	End Job	8.47	-3.00	0.00	