

**CONTINENTAL RESOURCES INC  
P O BOX 268836  
OKLAHOMA CITY, Oklahoma**

Buchner 2-2H

Cyclone 27

## **Post Job Summary** **Cement Intermediate Casing**

Prepared for:  
Date Prepared: 4/15/2013  
Version: 1

Service Supervisor: SIMS, DENNIS

Submitted by: FINNEY, SEAN

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

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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	
Casing	9-5/8" Casing	9.63	8.921	36.00	0.00	675.00			0.00
Casing	7" Casing	7.00	6.276	26.00	0.00	6,658.00	0.00	0.00	82.00
Open Hole Section	8-3/4" Open Hole		8.750		675.00	6,665.00	675.00	5,740.00	

# HALLIBURTON

## 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	11.50	5.00	20.0 bbl	20.0 bbl
1	2	Cement Slurry	EXTENDACEM B1	12.00	6.00	485.0 sacks	485.0 sacks
1	3	Cement Slurry	ExpandaCem B3	14.60	6.00	235.0 sacks	235.0 sacks
1	4	Spacer	Displacement Fluid	8.33	6.00	251.0 bbl	251.0 bbl

## Fluids Pumped

**Stage/Plug # 1      Fluid 1:**      Clean Spacer III  
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 11.50 lbm/gal  
Fluid Volume: 20.00 bbl  
Pump Rate: 5.00 bbl/min

**Stage/Plug # 1      Fluid 2:**      EXTENDACEM B1  
EXTENDACEM (TM) SYSTEM

Fluid Weight: 12.00 lbm/gal  
Slurry Yield: 1.92 ft<sup>3</sup>/sack  
Total Mixing Fluid: 10.30 Gal  
Surface Volume: 485.0 sacks  
Sacks: 485.0 sacks  
Calculated Fill: 5,768.00 ft  
Calculated Top of Fluid: 0.00 ft  
Pump Rate: 6.00 bbl/min

**Stage/Plug # 1      Fluid 3:**      ExpandaCem B3  
EXPANDACEM (TM) SYSTEM

Fluid Weight: 14.60 lbm/gal  
Slurry Yield: 1.46 ft<sup>3</sup>/sack  
Total Mixing Fluid: 6.12 Gal  
Surface Volume: 235.0 sacks  
Sacks: 235.0 sacks  
Calculated Fill: 914.00 ft  
Calculated Top of Fluid: 5,768.00 ft  
Pump Rate: 6.00 bbl/min

**Stage/Plug # 1      Fluid 4:**      Displacement Fluid  
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal  
Fluid Volume: 251.00 bbl  
Pump Rate: 6.00 bbl/min

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
04/06/2013 00:05		Depart Location for Service Center or Other Site						HELD SAFETY MEETING PRIOR TO LEAVING LOCATION AND DISCUSSED ALL POTENTIAL HAZARDS WHILE DRIVING BACK TO THE SERVICE CENTER.
04/06/2013 15:00		Arrive at Location from Service Center						ARRIVED AND CONDUCTED A HAZARD HUNT AND FOUND NO HAZARDS THAT CONFLICT WITH US RIGGING UP EQUIPMENT.
04/06/2013 20:30		Pre-Job Safety Meeting						HELD A SAFETY MEETING WITH ALL EMPLOYEES AND ALL THIRD PARTY PERSONEL PRIOR TO PUMPING THE CEMENT JOB.
04/06/2013 20:53		Start Job						
04/06/2013 20:55		Test Lines						PRESSURE TEST LINES TO 3500 PSI
04/06/2013 20:57		Pump Spacer 1	5	20			470.3	CLEAN SPACER MIXED @ 11.5 PPG W/ FRESH WATER
04/06/2013 21:01		Drop Bottom Plug						PLUG PRELOADED, DROPPED PLUG IN THE LAST 2 BBLs OF THE CLEAN SPACER
04/06/2013 21:05		Pump Lead Cement	6	165			635.3	270 SKS VARICEM MIXED @ 12 PPG W/ FRESH WATER
04/06/2013 21:14		Pump Tail Cement	6	61			383.3	255 SKS EXPANDACEM B1 MIXED @ 13.8 PPG W/ FRESH WATER
04/06/2013 21:51		Shutdown						
04/06/2013 21:52		Drop Top Plug						PLUG PRELOADED AFTER WE DROPPED THE BOTTOM PLUG, DROPPED PLUG PRIOR TO PUMPING DISPLACEMENT.
04/06/2013 21:53		Pump Displacement	6	251			1970.3	W/ FRESH WATER, WE GOT SPACER BACK TO SURFACE WITH 201 BBLs OF DISPLACEMENT AWAY SO WE GOT 20 BBLs OF SPACER BACK TO THE PITS AND 30 BBLs OF CEMENT BACK TO THE PITS.
04/06/2013 22:46		Bump Plug	3				2515.3	
04/06/2013 22:49		Check Floats					3225.3	FLOATS HELD, GOOD RETURNS THROUGHOUT THE JOB, WE GOT 2 BBLs OF WATER BACK IN THE DISPLACEMENT TANKS WHEN WE CHECKED FLOATS.
04/06/2013 22:50		End Job						
04/06/2013 22:55		Pre-Rig Down Safety Meeting						HELD SAFETY MEETING WITH ALL EMPLOYEES PRIOR TO RIGGING DOWN AND DISCUSSED ALL HAZARDS WHILE RIGGING DOWN EQUIPMENT.

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 301520	<b>Ship To #:</b> 2989139	<b>Quote #:</b>	<b>Sales Order #:</b> 900343389
<b>Customer:</b> CONTINENTAL RESOURCES INC		<b>Customer Rep:</b> Fontenot, Steve	
<b>Well Name:</b> Buchner		<b>Well #:</b> 2-2H	<b>API/UWI #:</b> 05-123-36703
<b>Field:</b> WILDCAT	<b>City (SAP):</b> HUDSON	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Lat:</b> N 40.604 deg. OR N 40 deg. 36 min. 13.302 secs.		<b>Long:</b> W 104.067 deg. OR W -105 deg. 56 min. 0.042 secs.	
<b>Job Purpose:</b> Cement Intermediate Casing			
<b>Well Type:</b> Producing Well		<b>Job Type:</b> Cement Intermediate Casing	
<b>Sales Person:</b> FLING, MATTHEW		<b>Srvc Supervisor:</b> SIMS, DENNIS	<b>MBU ID Emp #:</b> 158880

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JEWELL, WILLIAM Uris	9.1	503358	MILLER, GEOFFREY Alan	9.1	460232	REED, FRED Marlon	9.1	504496
ROMERO, JOSEPH M	9.1	512137	SIMS, DENNIS A	9.1	158880			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10679720C	80 mile	10982754	80 mile	11362287C	80 mile	11562570C	80 mile
11748359	80 mile	12010167	80 mile	5707C	80 mile	NA	80 mile

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

## Job

## Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	05 - Apr - 2013	09:00 MST
Form Type	BHST				On Location	05 - Apr - 2013	15:00 MST
Job depth MD	6700. ft		Job Depth TVD	6700. ft	Job Started	05 - Apr - 2013	21:53 MST
Water Depth			Wk Ht Above Floor	4. ft	Job Completed	05 - Apr - 2013	22:50 MST
Perforation Depth (MD)	From		To		Departed Loc	06 - Apr - 2013	00:05 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" Open Hole				8.75				675.	6665.	675.	5740.
7" Casing	Unknown		7.	6.276	26.	LTC	P110-IC	.	6658.	.	.
9-5/8" Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	675.		

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

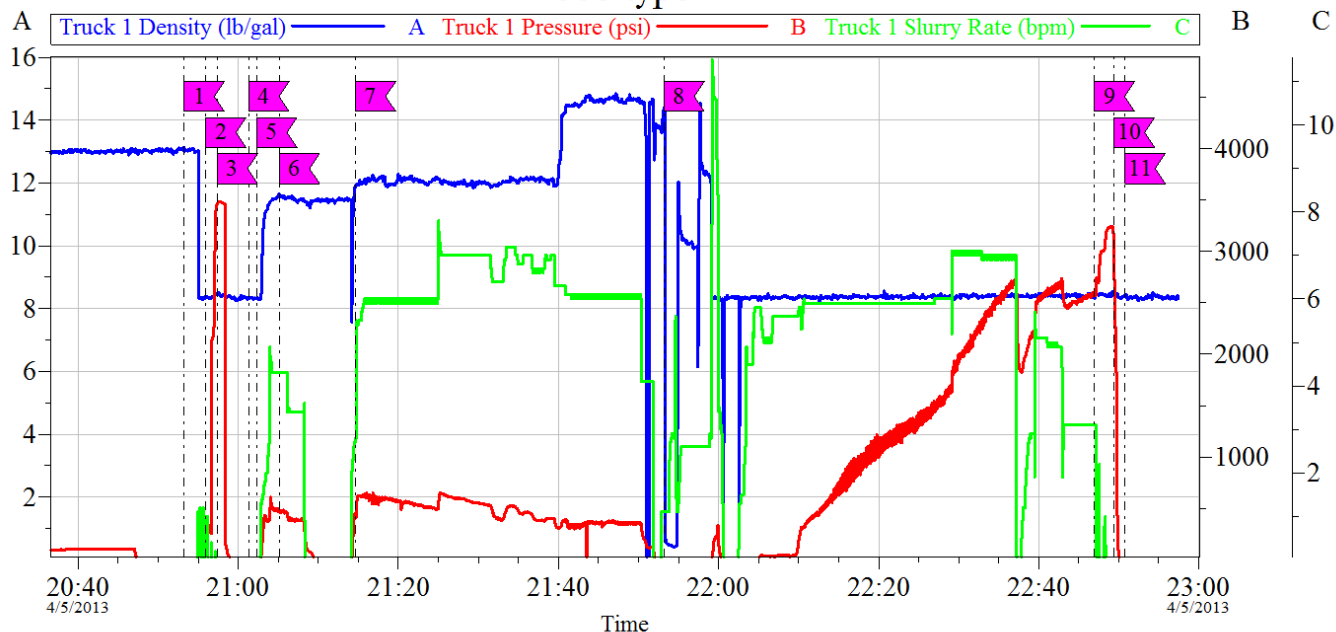
Description	Qty	Qty uom	Depth	Supplier
CTRZR ASSY,API,7 CSG X 8 3/4HOLE,HNGD	30	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
KIT,HALL WELD-A	1	EA		
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
Description	Qty	Qty uom	Depth	Supplier

CLR,FLT,7 8RD 17-26PPF,2-3/4SSII						1	EA		
CENTRALISER SLIDER II,#0700-0834S						30	EA		
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Clean Spacer III		20.00	bbl	11.5	2.63	15.07	.0	
2	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)	485.0	sacks	12.	1.92	10.3	5.0	10.3
10.299 Gal		FRESH WATER							
3	ExpandaCem B3	EXPANDACEM (TM) SYSTEM (452979)	235.0	sacks	14.6	1.46	6.12	5.0	6.12
6.121 Gal		FRESH WATER							
4	Displacement Fluid		251.00	bbl	8.33	.0	.0	5.0	
The Information Stated Herein Is Correct			Customer Representative Signature						

## Data Acquisition

Customer - Well Name

Job type



### Local Event Log

1	START JOB	20:53:13	2	MIX SPACER	20:55:55	3	TEST LINES	20:57:22
4	DROP BOTTOM PLUG	21:01:19	5	LOAD TOP PLUG	21:02:18	6	PUMP LEAD CEMENT	21:05:07
7	PUMP TAIL CEMENT	21:14:37	8	DISPLACE	21:53:11	9	LAND TOP PLUG	22:46:58
10	RELEASE PRESSURE	22:49:26	11	END JOB	22:50:45			

Customer:  
Well Description:

Job Date: 05-Apr-2013  
UWI:

Sales Order #: 900343389.1

OptiCem v6.4.10  
05-Apr-13 23:44

