

HALLIBURTON**Cementing Job Summary***The Road to Excellence Starts with Safety*

Sold To #: 345242	Ship To #: 2773036	Quote #:	Sales Order #: 0902964289
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Tyson	
Well Name: CPC BOHLENDER		Well #: 29-02	API/UWI #: 05-123-13035-00
Field:	City (SAP): GILCREST	County/Parish: WELD	State: COLORADO
Legal Description:			
Contractor: UNKNOWN		Rig/Platform Name/Num: WORKOVER RIG	
Job BOM:			
Well Type: GAS			
Sales Person: HALAMERICA\HB60191		Srvc Supervisor: Joseph Scileppi	
Job			

Formation Name			
Formation Depth (MD)	Top	0	Bottom
Form Type	BHST		
Job depth MD	1650ft	Job Depth TVD	1650
Water Depth			
Perforation Depth (MD)	From	1650	To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		4.5	4	11.6			0			0
Casing		8.625		24			0	1650		0
							0	298	0	298

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	1.66				Top Plug	1.66			
Float Shoe	1.66				Bottom Plug	1.66			
Float Collar	1.66				SSR plug set	1.66			
Insert Float	1.66				Plug Container	1.66			
Stage Tool	1.66				Centralizers	1.66			

Fluid Data			
Stage/Plug #: 1			
Cement Left In Pipe	Amount	ft	Reason
			Shoe Joint

Fluid Data									
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	PLUG #1	HALCEM (TM) SYSTEM	600	sack	15.8	1.15			5
5 Gal		FRESH WATER							
Cement Left In Pipe	Amount	ft unknown	Reason no returns	Shoe Joint					

HALLIBURTON***Cementing Job Summary***

Mix Water:pH ## 7	Mix Water Chloride:## 0	Mix Water Temperature:## °F 62
Cement Temperature:## °F °C	Plug Displaced by:## lb/gal kg/m3 XXXX	Disp. Temperature:## °F °C
Plug Bumped?Yes/No	Bump Pressure:#### psi MPa	Floats Held?Yes/No
Cement Returns:## bbl m3	Returns Density:## lb/gal kg/m3	Returns Temperature:## °F °C
Comment		

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psf)	Comments
Event	1	Call Out	Call Out	12/3/2015	03:00:00	USER				CALOUT CREW FOR ON LOCATION AT 0700
Event	2	Crew Leave Yard	Crew Leave Yard	12/3/2015	06:00:00	USER				PRE JOURNEY JSA W/ CREW
Event	3	Arrive At Loc	Arrive At Loc	12/3/2015	07:00:00	USER				UPON ARRIVAL RIG HANDS WERE GETTING LINES THAWED OUT, HAZARD HUNT W/ CREW, AND MET W/ COMPANY REP TO DISCUSS JOB PROCEDURES
Event	4	Rig-up Lines	Rig-up Lines	12/3/2015	07:15:00	USER				PRE RIG UP JSA W/ CREW
Event	5	Safety Meeting - Pre Job	Safety Meeting - Pre Job	12/3/2015	08:50:00	USER	0.00	8.49	-69.00	JSA W/ ALL INVOLVED PERSONNEL
Event	6	Other	Other	12/3/2015	08:51:00	USER	0.00	8.49	-71.00	FIELD MIX WATER ANALYSIS: TEMP- 62, PH-7, CHLORIDES-0
Event	7	Other	OTHER	12/3/2015	08:52:00	USER	0.00	8.49	-70.00	RIG CIRCULATED AT 1.5 BPM AND 950 PSI YESTERDAY AND THEY HAD RETURNS THE WHOLE TIME, DEPTHS: PERFORATIONS AT 1650', 8 5/8 CASING AT 298', OH 13" AT 50", AND 1302' OF 10" OH, PUMPED THROUGH 4 1/2 IN CASING
Event	8	Start Job	Start Job	12/3/2015	09:02:48	COM5	0.00	8.64	-66.00	
Event	9	Test Lines	Test Lines	12/3/2015	09:04:41	COM5	0.00	8.71	188.00	TESTED LINES TO 4000 PSI FOR 3 MIN, NO VISIBLE LEAKS

Event	10	Pump Spacer 1	Pump Spacer 1	12/3/2015	09:08:24	COM5	0.00	8.86	-61.00	PUMPED FRESH WATER TO ESTABLISH CIRCULATION AFTER PUMPING 7 BBLs WE SHUTDOWN PER COMPANY REP W/ NO CIRCULATION AND WERE INSTRUCTED TO START PUMPING CMT
Event	11	Pump Cement	Pump Cement	12/3/2015	09:14:29	COM5	0.00	8.69	911.00	PUMPED 600 SACKS OF 15.8 CMT AT 4 BPM AND 967 PSI, WE SHUTDOWN AT 14 BBLs AWAY PER COMPANY REP SO RIG COULD PUMP THROUGH WASHUP LINES TO MAKE SURE THE LINE WAS CLEAR BECAUSE WE STILL DIDNT HAVE CIRCULATION, LINES WE CLEAR, STARTED PUMPING CMT AGAIN AND WERE INSTRUCTED TO SHUTDOWN AT 34 BBLs WAWAY BECAUSE WE STILL DIDNT HAVE CIRCULATION. AT THIS POINT THE RIG PUMPED WATER THROUGH SURFACE CASING W/ OUR LINE OPEN TO SEE IF THEY COULD FILL WELL AND TO SEE IF WE CAUGHT PRESSURE ON TRUCK, WE DIDNT.
Event	12	Other	Other	12/3/2015	09:15:00	USER	0.00	8.68	903.00	CONT... THEY STOPPED PUMPING AFTER 35 BBLs AND WE WERE INSTRUCTED PER COMPANY REP TO CONTINUE PUMPING CMT BUT TO ONLY PUMP 600 SKS AND DISPLACE. WE GOT RETURNS AT 80 BBLs AWAY AT 1/4 BPM ALL FRESH WATER.

Customer: NOBLE ENERGY INC E-BUSINESS
 Job: 902964289
 Case: Case 1

Event	13	Pump Displacement	Pump Displacement	12/3/2015	10:12:07	COM5	0.00	15.55	338.00	
PUMPED 25 BBLS OF FRESH WATER AT 3 BPM AND 443 PSI, GOT FRESHWATER RETURNS AT 1/4 BPM THROUGHOUT, NO CMT BACK TO SURFACE										
Event	14	End Job	End Job	12/3/2015	10:25:46	COM5	0.00	8.11	928.00	