

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML	DATE 28-NOV-13	F.R. # 10011030151	SERV. SUPV. REESE A ANDERSON
LEASE & WELL NAME STATE 3-16-9-60 - API 05123384520000	LOCATION 16-9N-60W		COUNTY-PARISH-BLOCK Weld Colorado
DISTRICT Brighton	DRILLING CONTRACTOR RIG # Xtreme Coil #17	TYPE OF JOB Intermediate	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Cement Plug, Rubber, Bottom 7 in							
Cement Plug, Rubber, Top 7 in							

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Drilling Mud + Biocide			9.5				68	
Fresh Water			8.33				10	
SealBond + SB Plus			8.4				40	
Premium Lite Cmt + adds		406	12.5	1.94	10.65	03:30	140.32	102.93
50:50 (Poz:Class G) + adds		190	13.5	1.45	7.07	9900	48.99	31.97
Drilling Mud			9.5				256.01	

Available Mix Water _____ Bbl.	Available Displ. Fluid _____ Bbl.	TOTAL	563.32	134.90
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HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		6583	6.366	7	23	CSG	6583	6383				

LAST CASING					PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.625	36		1440	1440									

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
256.0	BBLS	Drilling Mud	9.5	2500	0	0	0	0	0	3000	rig tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: N/A

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4021 PSI	
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>	
20:00	0	0	0	0	N/A	Yard Call	
05:28	0	0	0	0	N/A	Leave Yard	
07:40	0	0	0	0	N/A	Arrive on location	
08:55	0	0	0	0	N/A	spot trucks/ pre rig up safety meeting	
12:09	0	0	0	0	N/A	Safety Meeting	
12:33	4021	0	0	0	H2O	Pressure test	
12:39	682	0	3.6	10	H2O	Fresh water spacer	
12:43	418	0	3.6	40	H2O	Seal bond spacer	
13:05	91	0	3.6	140	CMT	406 sacks 12.5 ppg cement	
13:31	91	0	3.6	51	CMT	190 sacks 13.5 ppg cement	
13:43	0	0	0	0	N/A	Drop plug	
13:50	1375	0	6	220	MUD	Displacement	
14:29	1391	0	4.8	10	MUD	Rate Change	
14:33	1416	0	3.6	25	MUD	Rate Change	
14:42	2506	0	3.6	255	MUD	Bump plug 50 bbls cement returned/ casing test	
15:00	0	0	0	0	N/A	Bleed off psi / test floats	
15:05	0	0	0	0	N/A	Post job safety meeting	

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TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4021 PSI	
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2506	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	50	563	0	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	



CEMENTING LABORATORY REPORT
Lab Report #C11-090-13

COMPANY :	Carrizo Oil & Gas Inc.	DATE:	November 28, 2013
WELL NAME:	State 3-16-9-60	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-38452-0000	TOC(md):	
DEPTH MD(ft):	6,583 ft	BHST(°F):	184 °F
CASING SIZE("):	7 in	BHCT(°F):	124 °F
TUBING SIZE("):		BHSqT(°F):	155 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry : Premium Lite Cement + 6% Bentonite II + 0.2% FL-52 + 0.25 pps Cello Flake
#2	Tail Slurry : (50:50) Poz:Class G Cement + 3% Bentonite II + 0.5% Sodium Metasilicate + 0.4% FL-52
#3	

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		12.50	13.50	
Yield :cu.ft./sk.		1.94	1.45	
Mixing Water: gal/sk.		10.65	7.07	
Water Type:		Fresh	Fresh	
Testing Temperature :		123 °F	123 °F	
Thickening Time: hrs:mins.		4:29	4:43	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:				
	hrs.			
	hrs.			
Rheologies	RPM			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
Gel Strength : #/100sq.ft.	10 sec.			
	10 min.			

REMARKS :

COMMENTS : The above data is supplied solely for informational purposes and BHI makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.