

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 26-NOV-13		F.R. # 10011029646		SERV. SUPV. BARLEN M JOYNER	
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 Surface			

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Cement Plug, Rubber, Top 9-5/8 in		Float Collar, AI Flap, 9-5/8 - 8rd	NONE	0	0	NONE	0	0
		Float Shoe 9-5/8 - 8rd						
		Cement Basket, Slip On, 9-5/8 in						
		Centralizer, with Pins, 9-5/8 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
Fresh Water	0	0	8.34	0	0	00:00	20		
Type III Cmt + adds	0	145	14.5	1.42	6.69	02:00	36.62	23.10	
Premium Lite Cmt + adds	0	396	13	1.83	9.36	03:00	128.94	88.24	
Fresh Water	0	0	8.34	0	0	00:00	108.5		
Type III Neat	0	40	14.8	1.33	6.33	00:00	8	5.10	
Fresh Water + Dye	0	0	8.34	0	0	00:00	10		
Available Mix Water 500 Bbl.		Available Displ. Fluid 350 Bbl.		TOTAL		312.06		116.44	

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25	0	1465	8.921	9.625	36	CSG	1449	1449	J-55	1449	1403	0

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	WGT.
15.	16	65	CSG	70	70	NO LINER	0	0	0	9.625	8RD	8.4

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	
108.5	BBLS	Fresh Water	8.34	404	0	0	0	0	6780	1000	RIG TANK

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE

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	3424 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
09:00	0	0	0	0	N/A	YARD CALL	
12:34	0	0	0	0	N/A	ARRIVE ON LOCATION (89 MILES) CIRCULATING WELL	
12:35	0	0	0	0	N/A	SPOT TRUCKS	
12:40	0	0	0	0	N/A	PRE-RIG UP SAFETY MEETING	
13:15	0	0	0	0	N/A	SAFETY MEETING	
13:44	3424	0	0	0	WATER	PRESSURE TEST	
13:46	183	0	6.4	20	WATER	FRESH WATER SPACER	
13:51	141	0	6.4	10	WATER	FRESH WATER + DYE	
13:53	188	0	5.6	122	CMT	BATCH UP, WEIGH AND PUMP 396 SX OF PLC + 0.08% STATIC FREE + 3% CACL2 + 3% NACL + 0.5 LBS/SACK CELLO FLAKE + 2 LBS/SACK KOL-SEAL + 6% BENTONITE @ 13 PPG	
14:23	270	0	5.2	36	CMT	BATCH UP, WEIGH AND PUMP 145 SX OF TYPE III + 0.08 LBS/SACK STATIC FREE + 1.5% CACL2 + 0.5 LBS/SACK CELLO FLAKE + 2 LBS/SACK KOL-SEAL @ 14.5 PPG	
14:32	0	0	0	0	N/A	RELEASE PLUG	
14:35	127	0	6.4	89	WATER	START DISPLACEMENT	

CEMENT JOB REPORT



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 3424 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
14:54	353	0	2	15	WATER	DROP RATE	
15:08	218	0	0	0	N/A	SHUT DOWN AND WAIT 5 MINUTES	
15:13	487	0	2	5	WATER	RESUME PUMPING	
15:19	491	0	2	109	WATER	BUMP PLUG	
15:19	935	0	0	0	N/A	PLUG DOWN @ 109 BBLS	
15:19	935	0	0	0	WATER	START CASING TEST	
15:34	897	0	0	0	N/A	END CASING TEST	
16:05	16	0	.8	8	CMT	TOP-OUT WELL @ 14.8 PPG	
15:35	0	0	0	0	N/A	JOB DONE	
15:40	0	0	0	0	N/A	PRE-RIG DOWN SAFETY MEETING	
16:20	0	0	0	0	N/A	TIME OFF LOCATION	

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	491	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	48	269	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



CEMENTING LABORATORY REPORT

Lab Report #C11-082-13

COMPANY :	Carrizo Oil & Gas Inc	DATE:	November 26, 2013
WELL NAME:	State 3-16-9-60	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Surface
API #	05-123-38452-0000	TOC(md):	
DEPTH MD(ft):	1,440 ft	BHST(°F):	109 °F
CASING SIZE("):	9 5/8 in	BHCT(°F):	85 °F
TUBING SIZE("):		BHSqT(°F):	94 °F
HOLE SIZE("):	12 1/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite + 3% Calcium Chloride + 3% Sodium Chloride + 2 pps Kol-Seal + 0.5 pps Cello Flake + 0.08% Static Free
#2	Tail Slurry: Type III Cement + 2 pps Kol-Seal + 1.5% Calcium Chloride + 0.5 pps Cello Flake + 0.08 pps Static Free
#3	(Previous Pilot Data) Top-Out Slurry: Type III Cement

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			13.00	14.50	14.80
Yield :cu.ft./sk.			1.83	1.42	1.33
Mixing Water: gal/sk.			9.36	6.69	6.33
Water Type:			Fresh	Fresh	Fresh
Testing Temperature :			85 °F	85 °F	84 °F
Thickening Time: hrs:mins.			5:00	1:50	2:45
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.

State 3-16-9-60 (C085) Surface

