

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 09-DEC-13		F.R. # 10011031749		SERV. SUPV. JOHN R WUDARCZYK	
LEASE & WELL NAME CASTOR 7-36-9-59		LOCATION 36-9N-59W		COUNTY-PARISH-BLOCK Weld Colorado			
DISTRICT Brighton		DRILLING CONTRACTOR RIG # Xtreme Coil #19		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 Shoe 9-5/8 - 8rd						
	Float Collar, Pop Valve, 9-5/8 - 8rd						
	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 FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY Bbl MIX WATER
Fresh Water + 2 lbs Red Dye		0	8.34	0	0	00:00	15
Type III Cmt + adds		146	14.5	1.41	6.82	02:30	36.58 23.69
Premium Lite Cmt + adds		400	13	1.81	9.46	03:00	129.24 90.10
Fresh Water		0	8.34	0	0	00:00	104.7
Available Mix Water 300 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL		285.51 113.79	
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS	
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD TVD GRADE SHOE FLOAT STAGE
12.25	100	1421	8.921	9.625	36	CSG	1400 1400 J-55 1400 1355 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 TYPE WGT.
15.	16	65	CSG	70	70	NO PACKER	0 0 0 9.625 8RND WATER BASED 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
104.7	BBLS	Fresh Water	8.34	398	0	0	0 0 2816 2000 RIG
Circulation Prior to Job							
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1 Circulation Rate: 5 BPM			
Mud Density In: 8.4 LBS/GAL Mud Density Out: 8.4 LBS/GAL				PV & YP Mud In: 0 PV & YP Mud Out: 0			
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:				Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			
Displacement And Mud Removal							
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>				Amount Bled Back After Job: .5 BBLS			
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL				Method Used to Verify Returns: VISUAL			
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES			
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE							
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 14		Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID	
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD							
Plugs							
Number of Attempts by BJ: 0 Competition: 0				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity:			
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Top of Plug: 0 FT Bottom of Plug: 0 FT			
Squeezes (Update Original Treatment Report for Primary Job)							
BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>							
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES PSI Applied: 0 Fluid Weight: 0 LBS/GAL							
Casing Test (Update Original Treatment Report for Primary Job)							
Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes							
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE							

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Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW:0 LBS/GAL
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
 NONE

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
 NONE

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
 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	3256 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
00:07	0	0	0	0	0	ARRIVE ON LOCATION (91 MILES) RIGGING UP CASING CREW / RUNNING CASING	
00:15	0	0	0	0	0	PRE RIG UP SAFETY MEETING	
06:45	0	0	0	0	0	PRE JOB MEETING	
08:00	3256	0	0	0	H2O	PRESSURE TEST PUMPS AND LINES	
08:07	160	0	4.1	10	H2O	FRESH WATER	
08:11	111	0	4.1	15	H2O	DYE WATER	
08:20	179	0	4	128	LEAD	BATCH UP AND PUMP 400 SKS PLC+.08%STATIC FREE+3%CACL+3%NACL+.25#/SACK CELLO FLAKE+6%BENTONITE @ 13#	
08:52	74	0	2.2	35	TAIL	MIX AND PUMP 146 SKS TYPE III+.08%STATIC FREE+1.5%CACL+.25#/SACK CELLO FLAKE @ 14.5#	
09:13	0	0	0	0	H2O	DROP PLUG	
09:14	300	0	5.6	50	H2O	START DISPLACEMENT	
09:26	401	0	4.1	40	H2O	SLOW RATE	
09:36	422	0	2	15.5	H2O	SLOW RATE	
09:43	937	0	0	0	H2O	BUMP PLUG @ 125.5 BBLS	
09:50	0	0	0	0	H2O	CHECK FLOATS, 1/2 BBL BACK NOT HOLDING	
09:52	187	0	.8	.5	H2O	PRESSURE UP/SHUT IN HEAD	
09:53	0	0	0	0	0	WAITING TO SEE IF TOP OUT NEEDED	
12:00	0	0	0	0	0	RIG UP TO TOP OUT	
12:34	15	0	1	6	CMT	BATCH UP AND PUMP 20 SKS TYPE III @ 13#	
12:45	0	0	0	0	0	SHUT DOWN / WASH UP	
13:00	0	0	0	0	0	POST JOB RIG DOWN SAFETY MEETING	

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	937	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	65	293.5	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



CEMENTING LABORATORY REPORT

Lab Report #C12-020-13

COMPANY :	Carrizo Oil & Gas	DATE:	December 7, 2013
WELL NAME:	Castor 7-36-9-59	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Surface
API #	NA	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% Sodium Chloride + 3% Calcium Chloride + 0.25 pps Cello Flake
#2	Tail Slurry : Type III Cement + 1.5% Calcium Chloride + 0.25 pps Cello Flake
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			13.00	14.50	
Yield :cu.ft./sk.			1.81	1.41	
Mixing Water: gal/sk.			9.46	6.82	
Water Type:			Fresh	Fresh	
Testing Temperature :			85 °F	85 °F	
Thickening Time: hrs:mins.			4:08	1:43	
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 :	
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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.



FLOW 1+2 (bpm)

0.0

Target Density (ppg)

8.34

C156

