

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 13-AUG-13	F.R. # 10011007318		SERV. SUPV. BARLEN M JOYNER	
LEASE & WELL NAME BOB WHITE 4-36-8-62 - API 05123377450000		LOCATION 36-8N-62W		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 Collar, AI Flap, 9-5/8 - 8rd	NONE	0	0	NONE	0	0
	Centralizer, with Pins, 9-5/8 in						
	Cement Basket, Slip On, 9-5/8 in						
	Float Shoe 9-5/8 - 8rd						

PHYSICAL SLURRY PROPERTIES								
MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh Water + 2 lbs Red Dye	0	0	8.34	0	0	00:00	10	
Type III Cmt + adds	0	146	14.5	1.41	6.82	02:30	36.58	23.69
Premium Lite Cmt + adds	0	400	13	1.81	9.46	03:00	129.24	90.10
Fresh Water	0	0	8.34	0	0	00:00	105.7	
Type III Neat	0	40	14.8	1.33	6.33	02:30	9	5.74
Fresh Water	0	0	8.34	0	0	00:00	20	
Available Mix Water 500 Bbl.		Available Displ. Fluid 250 Bbl.		TOTAL		310.51		119.53

HOLE				TBG-CSG-D.P.						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25	0	1434	8.921	9.625	36	CSG	1413	1413	J-55	1413	1367	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 LINER	0	0	0	9.625	8RD	WATER BASED ML	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	
105.7	BBLS	Fresh Water	8.34	391	0	0	0	0	3450	2000	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	2914 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
05:30	0	0	0	0	N/A	YARD CALL	
08:45	0	0	0	0	N/A	ARRIVE ON LOCATION (73 MILES) RIGGING UP CASERS	
10:45	0	0	0	0	N/A	SPOT TRUCKS	
10:55	0	0	0	0	N/A	PRE-RIG UP SAFETY MEETING	
11:30	0	0	0	0	N/A	RIGGING DOWN CASERS	
12:50	0	0	0	0	N/A	SAFETY MEETING	
13:23	2914	0	0	0	WATER	PRESSURE TEST	
13:26	163	0	6	20	WATER	FRESH WATER SPACER	
13:34	157	0	6	10	WATER	FRESH WATER + DYE	
13:36	261	0	4.9	126	CMT	BATCH UP, WEIGH AND PUMP 400 SX OF PLC + 0.08% STATIC FREE + 3% CACL2 + 3% NACL + 0.25 LBS/SACK CELLO FLAKE @ 13 PPG	
14:10	147	0	3.7	36	CMT	BATCH UP, WEIGH AND PUMP 146 SX OF TYPE III + 0.08 LBS/SACK STATIC FREE + 1.5% CACL2 + 0.25 LBS/SACK CELLO FLAKE @ 14.5 PPG	
14:21	0	0	0	0	N/A	RELEASE PLUG	

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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 2914 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
14:24	164	0	6	70	WATER	START DISPLACEMENT	
14:36	225	0	2.4	20	WATER	DROP RATE	
14:47	206	0	0	0	N/A	SHUT DOWN AND WAIT FOR CEMENT TO SET UP A LITTLE, PER CUSTOMER REQUEST	
14:47	0	0	0	0	N/A	WAIT FOR CEMENT TO SET TO TOP-OUT	
15:02	1987	0	1	1	WATER	PRESSURED UP / HOLE IS LOCKED UP / 15 BBLS SHORT OF TOTAL DISPLACEMENT	
15:07	1518	0	0	0	WATER	START CASING TEST	
15:23	1491	0	0	0	N/A	END CASING TEST	
16:47	74	0	2.4	9	CMT	BATCH UP, WEIGH AND PUMP 40 SX OF C @ 14.8 PPG	
17:00	0	0	0	0	N/A	JOB DONE	
17:10	0	0	0	0	N/A	PRE-RIG DOWN SAFETY MEETING	
17:50	0	0	0	0	N/A	TIME OFF LOCATION	

BUMPED PLUG Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 0	TEST FLOAT EQUIP. <input checked="" type="checkbox"/> Y N	BBL.CMT RETURNS/ REVERSED 50	TOTAL BBL. PUMPED 291	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT <input checked="" type="checkbox"/> Y N	SERVICE SUPERVISOR SIGNATURE:
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CEMENTING LABORATORY REPORT

Lab Report #C08-044-13

COMPANY :	Carrizo Oil & Gas Inc	DATE:	August 12, 2013
WELL NAME:	Bob White 4-36-8-62	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Surface
API #	05-123-37745-0000	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):	95 °F
HOLE SIZE("):	12 1/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentontite + 3% Calcium Chloride + 3% Sodium Chloride + 2.0 pps Kol-Seal + 0.08% Static Free + 0.25 pps Cello Flake
#2	Tail Slurry: Type III Cement + 2.0 pps Kol-Seal + 1.5% Calcium Chloride + 0.08 pps Static Free + 0.5 pps Cello Flake
#3	Type III Cement

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			13.00	14.50	14.80
Yield :cu.ft./sk.			1.81	1.41	1.33
Mixing Water: gal/sk.			9.46	6.82	6.33
Water Type:			Fresh	Fresh	Fresh
Testing Temperature :			85 °F	85 °F	85 °F
Thickening Time: hrs:mins.			5:42	2:49	3:02
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.

Bob White 4-36-8-62 (C938) Surface

