

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 20-FEB-13		F.R. # 1001966725		SERV. SUPV. JOHN R WUDARCZYK	
LEASE & WELL NAME PERGAMOS 4-3-7-60 - API 05123363370000		LOCATION 3-7N-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
Cement Plug, Rubber, Top 9-5/8 in		Float Shoe 9-5/8 - 8rd					
		Centralizer, with Pins, 9-5/8 in					
		Float Collar, Pop Valve, 9-5/8 - 8rd					
MATERIALS FURNISHED BY BJ		LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES			
				SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS
Fresh Water + 2 lbs Red Dye				0	8.34	0	00:00
Type III Cement + adds				147	14.5	1.40	02:30
Premium Lite Cement + adds				410	13	1.77	03:00
Fresh Water				0	8.34	0	00:00
Available Mix Water 300 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL		286.06	113.63
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS	
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD
12.25	100	1440	8.921	9.625	36	CSG	1406
						GRADE	SHOE
						J-55	1406
						STAGE	0
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH
15.	16	65	CSG	70	70	NO PACKER	0
						TOP	BTM
						0	0
						SIZE	THREAD
						9.625	8RND
						TYPE	WGT.
						WATER BASED	9.5
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED
105.3	BBLS	Fresh Water	8.34	361	0	0	0
						Operator	MAX CSG PSI
							RATED
							Operator
							MIX WATER
							RIG
Circulation Prior to Job							
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1			
Mud Density In: 8.5 LBS/GAL				Mud Density Out: 8.5 LBS/GAL			
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: 1 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: 12		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			
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <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							

CEMENT JOB REPORT



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

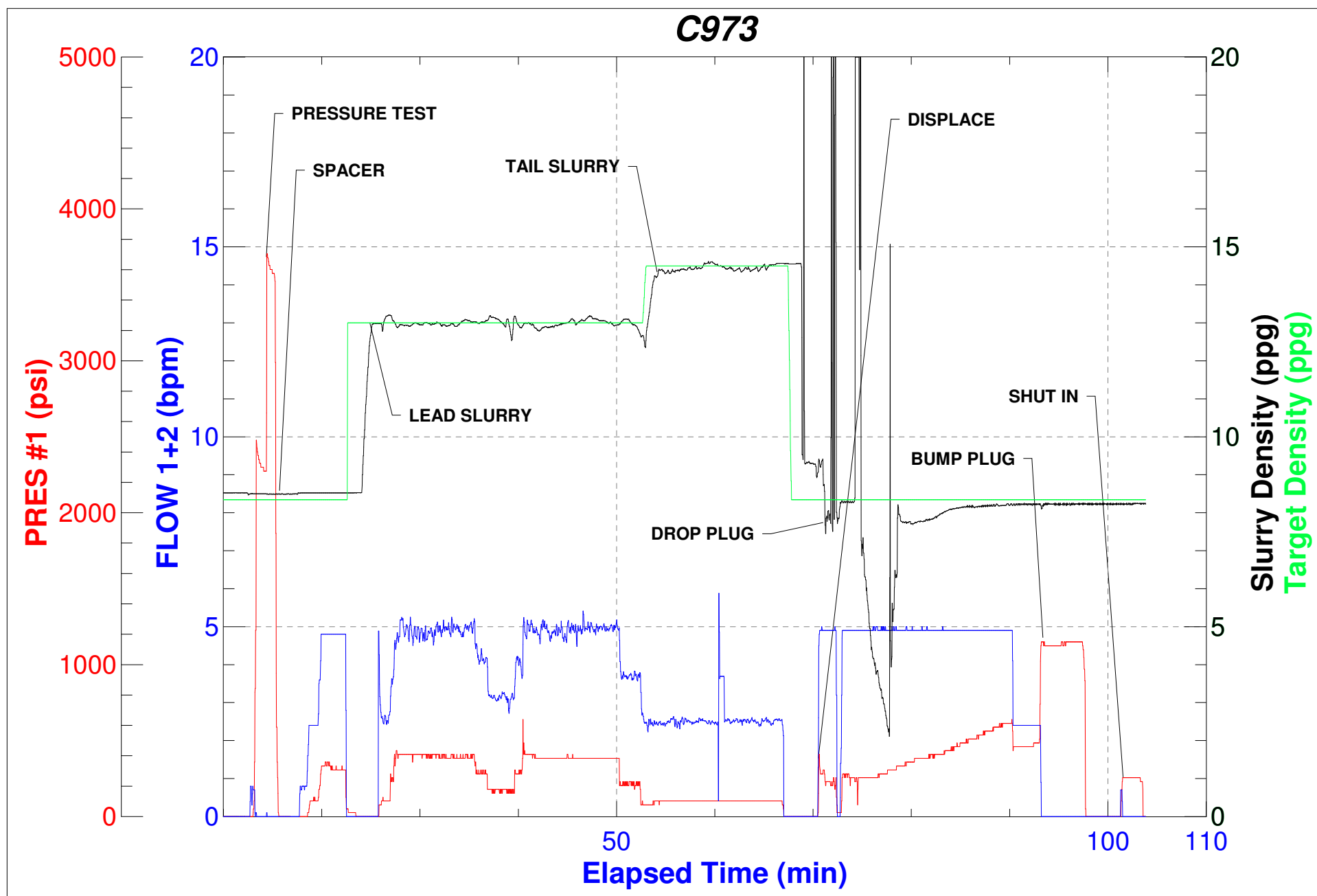
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
 NONE

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 3653 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
14:15	0	0	0	0	0	ARRIVE ON LOCATION (79 MILES) RIG PULLING DRILL PIPE	
16:30	0	0	0	0	0	RIG START RUNNING CASING	
23:45	0	0	0	0	0	PRE RIG UP SAFETY MEETING	
00:20	0	0	0	0	0	PRE JOB MEETING	
01:02	3653	0	0	0	H2O	PRESSURE TEST PUMPS AND LINES	
01:08	332	0	4.8	15	H2O	DYE WATER	
01:17	409	0	5	125	LEAD	BATCH UP AND PUMP 410 SKS PLC+.08%STATIC FREE+3%CACL+.25#/SACK CELLO FLAKE+6%BENTONITE @ 13#	
01:43	102	0	2.5	36	TAIL	MIX AND PUMP 147 SKS TYPE III+.08#/SACK STATIC FREE+1%CACL+.25#/SACK CELLO FLAKE @ 14.5#	
02:01	0	0	0	0	H2O	DROP PLUG	
02:02	639	0	4.8	90	H2O	START DISPLACEMENT	
02:20	664	0	2.5	11	H2O	SLOW RATE	
02:24	1124	0	0	0	H2O	BUMP PLUG @ 101 BBLS	
02:28	0	0	0	0	H2O	CHECK FLOATS	
02:31	256	0	.4	.5	H2O	PRESSURE UP / SHUT IN HEAD	
02:33	0	0	0	0	H2O	BLEED OFF TO PUMP	
02:35	0	0	0	0	H2O	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	1124	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	56	277	256	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	





CEMENTING LABORATORY REPORT

Lab Report #C02-106-13

COMPANY :	Carrizo Oil & Gas	DATE:	February 19, 2013
WELL NAME:	Pergamos 4-3-7-60	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Surface
API #	05-123-36337-0000	TOC(md):	
DEPTH MD(ft):	1,440 ft	BHST(°F):	108 °F
CASING SIZE("):	9 5/8 in	BHCT(°F):	85 °F
TUBING SIZE("):		BHSqT(°F):	93 °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 + 0.08% Static Free + 0.25 pps Cello Flake
#2	Tail Slurry: Type III Cement + 1% Calcium Chloride + 0.08 pps Static Free + 0.25 pps Cello Flake
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			13.00	14.50	
Yield :cu.ft./sk.			1.77	1.40	
Mixing Water: gal/sk.			9.20	6.81	
Water Type:			Fresh	Fresh	
Testing Temperature :			85 °F	85 °F	
Thickening Time: hrs:mins.			6:10	2:04	
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.



CUSTOMER (COMPANY NAME) CARRIZO OIL & GAS INC XML					CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040003338 - 0040139		INVOICE NUMBER 1857284	
MAIL INVOICE TO		STREET OR BOX NUMBER 500 DALLAS STREET, SUITE 2499				CITY Houston		STATE Texas		ZIP CODE 77063		
DATE WORK COMPLETED	MO. 02	DAY 20	YEAR 2013	BHI REPRESENTATIVE JOHN R WUDARCZYK		WELL API NO 05123363370000		WELL TYPE : New Well				
DISTRICT BJS, BRIGHTON				JOB DEPTH (ft) 1,406		WELL CLASS : Oil						
WELL NAME AND NUMBER PERGAMOS 4-3-7-60				TD WELL DEPTH (ft) 1,440		GAS USED ON JOB : No Gas						
WELL		LEGAL DESCRIPTION 3-7N-60W		COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Surface				
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100112	Calcium Chloride				lbs	1209	1.290	1,559.61	65%	545.86		
100112	Calcium Chloride				lbs	300	1.290	387.00	100%	0.00		
100120	Bentonite				lbs	2140	0.530	1,134.20	65%	396.97		
100295	Cello Flake				lbs	140	5.100	714.00	65%	249.90		
100404	Sodium Chloride				lbs	100	0.520	52.00	100%	0.00		
121116	Cement Plug, Rubber, Top 9-5/8 in				ea	1	403.200	403.20	65%	141.12		
398224	Premium Lite Cement				sacks	410	27.650	11,336.50	65%	3,967.78		
488019	FP-6L				gals	5	104.250	521.25	65%	182.44		
499632	Granulated Sugar				lbs	100	3.840	384.00	65%	134.40		
499680	Static Free				lbs	41	40.700	1,668.70	65%	584.05		
499703	Type III Cement				sacks	147	31.700	4,659.90	65%	1,630.97		
				SUB-TOTAL FOR Product Material				22,820.36	65.67%	7,833.49		
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00		
M100	Bulk Materials Blending Charge				cu ft	635	5.450	3,460.75	65%	1,211.26		
R798	Automatic Density System				job	1	1,990.000	1,990.00	65%	696.50		
				SUB-TOTAL FOR Service Charges				5,660.75	62.59%	2,117.76		
F055A	Cement Pumping, 1001 - 2000 ft				4hrs	1	4,875.000	4,875.00	65%	1,706.25		
F088	Cement Pumping, Additional hrs				hrs	6	900.000	5,400.00	65%	1,890.00		
ARRIVE LOCATION :	MO. 02	DAY 19	YEAR 2013	TIME 14:15	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE FOLLOWING PAGES OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.			
CUSTOMER REP. ROB THOMAS					CUSTOMER AUTHORIZED AGENT				CUSTOMER AUTHORIZED AGENT			
SEE NEXT PAGES FOR GENERAL TERMS AND CONDITIONS									X			
					BHI APPROVED				X			
					CUSTOMER AUTHORIZED AGENT				X			



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PRODUCT CODE	DESCRIPTION					UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
F090	Fuel per pump charge - cement					pump/hr	3	70.250	210.75	0%	210.75	
J050	Cement Head					job	1	830.000	830.00	65%	290.50	
J225	Data Acquisition, Cement, Standard					job	1	2,130.000	2,130.00	65%	745.50	
J390	Mileage, Heavy Vehicle					miles	158	11.850	1,872.30	65%	655.31	
J391	Mileage, Auto, Pick-Up or Treating Van					miles	158	6.700	1,058.60	65%	370.51	
	SUB-TOTAL FOR Equipment								16,376.65	64.16%	5,868.82	
J401	Bulk Delivery, Dry Products					ton-mi	2114	3.940	8,329.16	65%	2,915.21	
	SUB-TOTAL FOR Freight/Delivery Charges								8,329.16	65.00%	2,915.21	
	FIELD ESTIMATE								53,186.92	64.77%	18,735.28	
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