

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML			DATE 24-FEB-13		F.R. # 1001967989			SERV. SUPV. STEVEN S ISCHE						
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 Intermediate								
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD			
Cement Plug, Rubber, Bottom 7 in		Float Collar, Al Flap, 7 - 8rd												
Cement Plug, Rubber, Top 7 in		Float Shoe 7 - 8rd												
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
Drilling Mud + Biocide								8.9			68			
Fresh Water								8.33			10			
SealBond Spacer								8.4			40			
Premium Lite Cement + adds				411				12.5	1.94	10.65	03:30	142.14	104.18	
50/50 (Poz/Class G) + adds				141				13.5	1.71	8.30	03:00	43.01	27.87	
Drilling Mud								8.9			251.33			
Available Mix Water 400 Bbl.				Available Displ. Fluid 500 Bbl.				TOTAL		554.48		132.04		
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.75	0	6464	6.366	7	26	CSG	6374	6374	P-110	6281	6193	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.
8.9	9.63	36	CSG	1396	1396				0	0	7	8RD	WATER BASED	9.6
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				
240.3	BBLS	Drilling Mud	8.9	1007	0	0	0	0	9960	7968	rig			
Circulation Prior to Job														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 7 BPM					
Mud Density In: 9.6 LBS/GAL Mud Density Out: 9.6 LBS/GAL						PV & YP Mud In: 13			PV & YP Mud Out: 13					
Gas Present: NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> Units: 0						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: 2 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO						Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input 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: 50			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: 1						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: 1538 PSI With 9.6 LBS/GAL Mud						Time Held: 00 Hours 30 Minutes								
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:														

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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

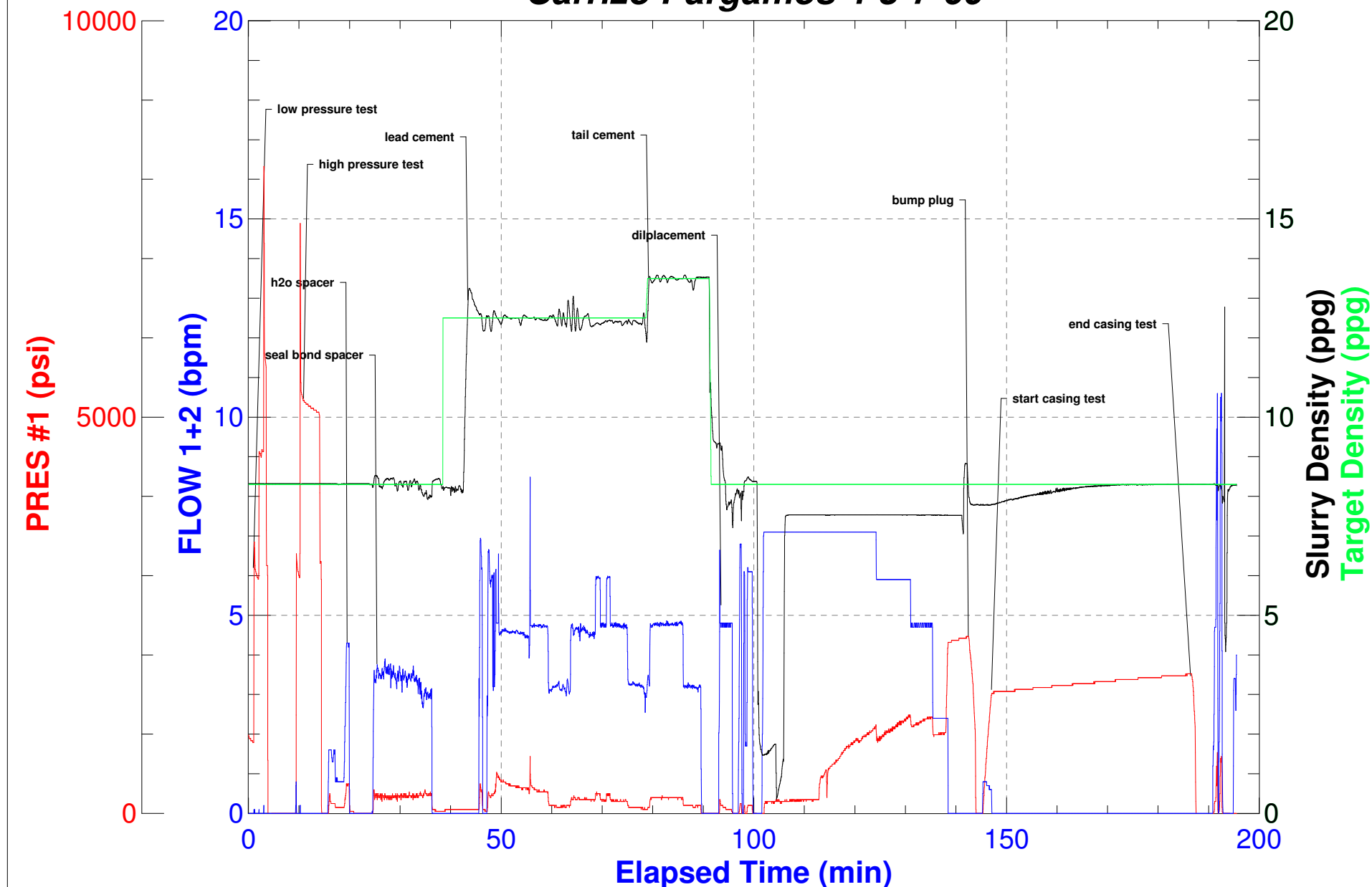
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
 none

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 5000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
16:45						arrive at location	
18:00						spot trucks	
18:08						pre rig up safty meating	
22:05						safty meating with crew	
22:54	5100					pressure test had to replace 0 ring	
23:02	376		4.8	10	WATER	water spacer	
23:15	385		4.8	40	SEAL BON	seal bond spacer	
23:40	145		4.6	145	12.5 CEME	batch up and send lead slurry	
00:12	199		4.8	42	13.5 CEME	tail slurry	
00:23						drop plug	
00:27	171		7	170	MUD	displacement	
00:57	968		6	40	MUD	rate change	
01:05	1092		4.8	25	MUD	rate change	
01:10	1182		2.4	7	MUD	rate change	
01:13	2159					bump plug	
01:16						bleed off 1 bbl back	
01:22	1538					start casing test	
01:56	1737					end casing test	
03:00						leave 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	2159	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	20	477	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Carrizo Pergamos 4-3-7-60





CEMENTING LABORATORY REPORT

Lab Report #C02-141-13

COMPANY :	Carrizo Oil & Gas Inc	DATE:	February 24, 2013
WELL NAME:	Pergamos 4-3-7-60	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-36337-0000	TOC(md):	
DEPTH MD(ft):	7 ft	BHST(°F):	205 °F
CASING SIZE("):		BHCT(°F):	134 °F
TUBING SIZE("):	8 3/4 in	BHSqT(°F):	167 °F
HOLE SIZE("):		TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry : Premium Lite Cement + 6% Bentonite + 0.4% FL-52 + 0.25% Cello Flake
#2	Tail Slurry : (50:50) Poz:Class G Cement + 20% Silica Flour + 3% Bentonite + 0.4% FL-52 + 0.1% Sodium Metasilicate
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			12.50	13.50	
Yield :cu.ft./sk.			1.94	1.71	
Mixing Water: gal/sk.			10.65	8.30	
Water Type:			Fresh	Fresh	
Testing Temperature :			133 °F	133 °F	
Thickening Time: hrs:mins.			7:21	7:23	
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. C212N6160-110		CUSTOMER NUMBER 0040003338 - 0040139		INVOICE NUMBER 1857984	
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 24	YEAR 2013	BHI REPRESENTATIVE STEVEN S ISCHE		WELL API NO 05123363370000		WELL TYPE : New Well				
DISTRICT BJS, BRIGHTON				JOB DEPTH (ft) 6,369		WELL CLASS : Oil						
WELL NAME AND NUMBER PERGAMOS 4-3-7-60				TD WELL DEPTH (ft) 6,374		GAS USED ON JOB : No Gas						
WELL		LEGAL DESCRIPTION 3-7N-60W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Intermediate			
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100021	Class G Cement				sacks	71	31.800	2,257.80	65%	790.23		
100112	Calcium Chloride				lbs	300	1.290	387.00	100%	0.00		
100120	Bentonite				lbs	2502	0.530	1,326.06	65%	464.12		
100121	Silica Flour				lbs	2369	0.590	1,397.71	65%	489.20		
100275	Sodium Metasilicate				lbs	12	4.100	49.20	65%	17.22		
100295	Cello Flake				lbs	90	5.100	459.00	65%	160.65		
100317	Poz (Fly Ash)				sacks	71	14.200	1,008.20	65%	352.87		
100404	Sodium Chloride				lbs	100	0.520	52.00	100%	0.00		
398224	Premium Lite Cement				sacks	411	27.650	11,364.15	65%	3,977.45		
398416	SealBond Spacer (w/ 30lb pail)				bbls	40	277.200	11,088.00	65%	3,880.80		
488015	FL-52				lbs	192	26.900	5,164.80	65%	1,807.68		
488252	Magnacide 575				gals	1	307.000	307.00	65%	107.45		
488521	SealBond Plus				lbs	600	4.730	2,838.00	65%	993.30		
499632	Granulated Sugar				lbs	50	3.840	192.00	65%	67.20		
				SUB-TOTAL FOR Product Material				37,890.92	65.41%	13,108.17		
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00		
M100	Bulk Materials Blending Charge				cu ft	689	5.450	3,755.05	65%	1,314.27		
R798	Automatic Density System				job	1	1,990.000	1,990.00	65%	696.50		
ARRIVE LOCATION :	MO. 02	DAY 24	YEAR 2013	TIME 16:43	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			
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PRODUCT CODE	DESCRIPTION					UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
	SUB-TOTAL FOR Service Charges								5,955.05	62.71%	2,220.77	
F065A	Cement Pumping, 6001 - 7000 ft					6hrs	1	8,300.000	8,300.00	65%	2,905.00	
F090	Fuel per pump charge - cement					pump/hr	12	70.250	843.00	0%	843.00	
J050	Cement Head					job	1	830.000	830.00	65%	290.50	
J390	Mileage, Heavy Vehicle					miles	160	11.850	1,896.00	65%	663.60	
J391	Mileage, Auto, Pick-Up or Treating Van					miles	160	6.700	1,072.00	65%	375.20	
	SUB-TOTAL FOR Equipment								12,941.00	60.77%	5,077.30	
J401	Bulk Delivery, Dry Products					ton-mi	2181	3.940	8,593.14	65%	3,007.60	
	SUB-TOTAL FOR Freight/Delivery Charges								8,593.14	65.00%	3,007.60	
	FIELD ESTIMATE								65,380.11	64.19%	23,413.84	
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