

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 17-SEP-13	F.R. # 10011013939		SERV. SUPV. ERIC S DEWIT									
LEASE & WELL NAME O'HARE 1-5-10-57 - API 05123365780000		LOCATION 5-10N-57W		COUNTY-PARISH-BLOCK Weld Colorado										
DISTRICT Brighton		DRILLING CONTRACTOR RIG # Xtreme Coil #19		TYPE OF JOB Plug Back										
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD TVD HANGER TYPES MD TVD								
None		No Shoe		None		0 0 None 0 0								
None				None		0 0 None 0 0								
None				None		0 0 None 0 0								
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				
Mud Clean I				0	8.4	0	0	00:00	21					
(50:50) Poz:Class G + Addis				348	14.4	1.21	5.40	03:30	75.2	44.73				
Mud Clean I				0	8.4	0	0	00:00	3					
Drilling Mud				0	9.5	0	0	00:00	55					
Mud Clean I				0	8.4	0	0	00:00	27					
Class G + Additives				256	17	0.99	3.77	02:30	44.9	22.86				
Mud Clean I				0	8.4	0	0	00:00	4					
Drilling Mud				0	9.5	0	0	00:00	47					
Available Mix Water <u>400</u> Bbl.		Available Displ. Fluid <u>400</u> Bbl.		TOTAL			<u>277.1</u>	<u>67.59</u>						
HOLE			TBG-CSG-D.P.							COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.75	0	6231	8.921	9.625	36	CSG	1404	1404	J-55	0	0	0		
			3.34	4	14	DP	6231	6231	X-95					
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	1404	1404	No packer		0	0	0	4	XH	WATER BASED	9.7
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			
95	BBLS	Drilling Mud		9.5	0	0	0	0	0	0	0	Rig		
		Drilling Mud		9.5										
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: 9.7 LBS/GAL				Mud Density Out: 9.7 LBS/GAL				PV & YP Mud In: 10			PV & YP Mud Out: 10			
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: 0 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"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Quantity:				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: 2				Competition: 2				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: 4518 FT				Bottom of Plug: 6231 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				

CEMENT JOB REPORT



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

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

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	3075 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
19:30	0	0	0	0	N/A	Leave yard	
21:33	0	0	0	0	N/A	Arrive on locatin	
21:45	0	0	0	0	N/A	Spot trucks, Pre rig up safety meeting	
23:00	0	0	0	0	N/A	Pre job safety meeting	
23:28	0	0	1	1.5	H2O	Load lines	
23:30	3075	0	0	0	H2O	Pressure test pumps and lines	
23:43	326	0	4.8	21	H2O	Mud clean I spacer	
23:51	395	0	4.8	70	CMT	Batch, weigh, and pump first plug @14.4#	
00:17	71	0	4.8	4	H2O	Displace with mud clean I	
00:18	112	0	6	40	MUD	Displace with mud	
00:25	92	0	3.6	4	MUD	Drop rate	
00:27	0	0	0	0	MUD	Balance plug	
00:29	0	0	0	0	N/A	Rig pull pipe/ roll hole	
01:56	285	0	4.8	27	MUDCLEA	Spacer	
02:05	212	0	3.6	38	CMT	Batch, weigh, and pump second plug @17#	
02:22	68	0	4.8	5	H2O	Fresh water displacement	
02:23	91	0	4.8	30	MUD	Displacement	
02:30	59	0	2.4	12	MUD	Drop rate	
02:36	0	0	0	0	N/A	Balance plug	
02:40	0	0	0	0	N/A	Pre 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:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	255	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



CEMENTING LABORATORY REPORT
Lab Report #C0905013

COMPANY :	Carrizo Oil & Gas Inc	DATE:	September 16, 2013
WELL NAME:	O'Hare #1-5-10-57	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Filler Plug and Kick Off Plug
API #	05-123-37372-0000	TOC(md):	
DEPTH MD(ft):	6,550 ft	BHST(°F):	203 °F
CASING SIZE("):	9 5/8 in	BHCT(°F):	134 °F
TUBING SIZE("):		BHSqT(°F):	171 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Filler Plug : 50:50:2 (FA:G:Bentonite) + 0.1% R-3.
#2	Kick Off Plug: Class G + 0.05% R-3, 0.4% CD-32.
#3	

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		14.40	17.00	
Yield :cu.ft./sk.		1.21	0.99	
Mixing Water: gal/sk.		5.40	3.77	
Water Type:		Fresh	Fresh	
Testing Temperature :		135 °F	116 °F	
Thickening Time: hrs:mins.		3:18	2:18	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:	UCA	179 °F	168 °F	
	24 hrs.	1674 psi	3843 psi	
	72 hrs.	1688 psi	3878 psi	
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.



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SLURRY PROPERTIES		#1	#2	#3
Density : ppg		14.40	17.00	
Yield :cu.ft./sk.		1.21	0.99	
Mixing Water: gal/sk.		5.40	3.77	
Water Type:		Fresh	Fresh	
Testing Temperature :		160 °F	136 °F	
Thickening Time: hrs:mins.		3:35	3:37	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:	UCA	110 °F	160 °F	
	24 hrs.	1674 psi	3843 psi	
	72 hrs.	2100 psi	5078 psi	
Rheologies	RPM			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
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