

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML		DATE 21-SEP-14		F.R. # 10011100989		SERV. SUPV. ERIC S DEWIT	
LEASE & WELL NAME O'HARE #1-29-11-57 - API 05123400810000		LOCATION 29-11N-57W		COUNTY-PARISH-BLOCK Weld Colorado			
DISTRICT Brighton		DRILLING CONTRACTOR RIG # Xtreme Coil 19		TYPE OF JOB Intermediate			
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD
Cement Plug, Rubber, Bottom 7 in		Centralizer, with Pins, 7 in					
Cement Plug, Rubber, Top 7 in		Float Collar, Auto Fill, 7 - 8rd					
		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
SealBond + SB Plus				0	8.4	0	00:00
Premium Lite Cmt + adds				341	12.5	1.94	03:30
50:50 (Poz:Class G) + adds				194	13.5	1.45	02:45
Drilling Mud				0	9.7	0	00:00
Available Mix Water 400 Bbl.		Available Displ. Fluid 400 Bbl.		TOTAL		439.05	118.94
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS	
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD
8.75	35	5998	6.366	7	23	CSG	5979
						GRADE	SHOE
						N-80	5979
						FLOAT	STAGE
						5904	0
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH
8.9	9.63	36	CSG	1475	1475	No Packer	0
						TOP	BTM
						0	0
						SIZE	THREAD
						7	8RND
						TYPE	WGT.
						WATER BASED	9.7
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
232.4	BBLs	Drilling Mud	9.7	944	0	0	0
						Operator	MAX CSG PSI
							RATED
							Operator
							5047
							3000
							Rig Tank
Circulation Prior to Job							
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1			
Mud Density In: 9.7 LBS/GAL				Mud Density Out: 9.7 LBS/GAL			
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				Units: 5 BPM			
PV & YP Mud In: 19				PV & YP Mud Out: 19			
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: 1.5 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: 50			
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD				Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID			
Plugs							
Number of Attempts by BJ: 0				Competition: 0			
Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Quantity: 0			
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: 1554 PSI				With 9.7 LBS/GAL Mud			
Time Held: 00 Hours 15 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

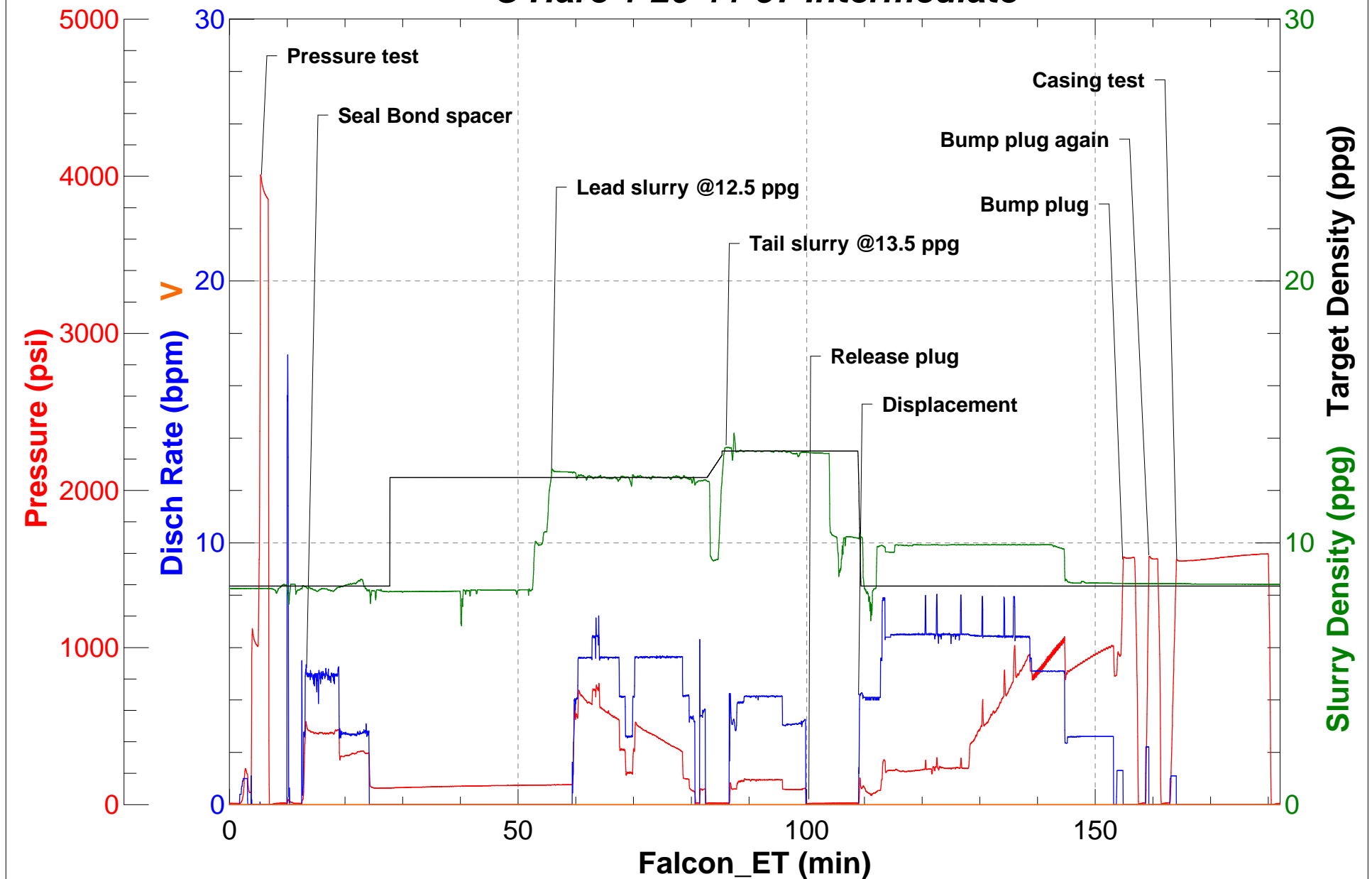
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
 None

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 4009 PSI		
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		
20:13	0	0	0	0	N/A	Leave yard		
23:40	0	0	0	0	N/A	Arrive on location 9-20-14 (123 Miles) Rig running casing		
04:53	0	0	0	0	N/A	Spot trucks on location		
05:13	0	0	0	0	N/A	Pre rig up safety meeting		
06:23	0	0	0	0	N/A	Pre job safety meeting		
06:51	0	0	0	0	N/A	Stab cement head		
07:04	202	0	1	1	H2O	Load pumps and lines		
07:06	4009	0	0	0	H2O	Pressure test pumps and lines		
07:16	341	0	5	40	H2O	Pump seal bond plus spacer		
07:30	0	0	0	0	N/A	While attempting to batch up we realized the versa valves for the product line were not working, so we had to hook product line directly up to the goose neck causing a short del		
07:54	101	0	5.6	112	CMT	Batch, weigh, and pump lead slurry @12.5 ppg		
08:27	97	0	3.9	49	CMT	Batch, weigh, and pump tail slurry @13.5 ppg		
08:44	0	0	0	0	N/A	Release cement wiper plug		
08:51	903	0	6.5	180	MUD	Displacement		
09:20	1060	0	5.1	30	MUD	Drop rate		
09:27	1022	0	2.6	13.5	MUD	Drop rate		
09:36	1574	0	0	0	MUD	Bump plug (Approx. 17 BBLS of cement to surface)		
09:38	0	0	0	0	MUD	Check floats		
09:40	1574	0	2.2	1.5	MUD	Company man wanted to bump the plug again to make sure floats were holding		
09:42	0	0	0	0	MUD	Check floats again (floats held)		
09:46	1554	0	0	0	MUD	Start casing test		
10:01	0	0	0	0	N/A	End casing test (Ending Pressure 1597 Psi)		
10:03	0	0	0	0	N/A	Pre rig down safety meeting		
10:50	0	0	0	0	N/A	Leave location		
	0	0	0	0	N/A	Arrive back at the yard		
BUMPED PLUG <div><input checked="" type="checkbox"/> Y <input type="checkbox"/> N</div>		PSI TO BUMP PLUG 1574	TEST FLOAT EQUIP. <div><input checked="" type="checkbox"/> Y <input type="checkbox"/> N</div>	BBL.CMT RETURNS/ REVERSED 17	TOTAL BBL. PUMPED 437	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <div><input checked="" type="checkbox"/> N</div>	Service Supervisor Signature:

O'Hare 1-29-11-57 Intermediate





CEMENTING LABORATORY REPORT

Lab Report #C09-079-14

COMPANY :	Carrizo Oil & Gas	DATE:	September 19, 2014
WELL NAME:	O'Hare #1-29-11-57	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-40081-0000	TOC(md):	
DEPTH MD(ft):	5,950 ft	BHST(°F):	182 °F
CASING SIZE("):	7 in	BHCT(°F):	141 °F
TUBING SIZE("):		BHSqT(°F):	153 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite II, 0.4% FL-52, 0.25% pps Cello Flake, 0.04% Static Free, 0.5 gal/100sack FP-6L	
#2	Tail Slurry: 50:50:3 (FA:G:Bentonite II) + 0.5% SMS, 0.4% FL-52, 0.04% Static Free, gal/100sack FP-6L	0.5
#3		

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			12.50	13.50	
Yield :cu.ft./sk.			1.94	1.45	
Mixing Water: gal/sk.			10.64	7.06	
Water Type:			Fresh	Fresh	
Testing Temperature :			138 °F	139 °F	
Thickening Time: hrs:mins.			4:54	4:45	
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.



FIELD RECEIPT NO. 10011100989

CUSTOMER CARRIZO OIL & GAS INC XML					CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040003338 - 0040139823-1		INVOICE NUMBER	
MAIL INVOICE TO : 500 DALLAS STREET, SUITE 2499					CITY Houston		STATE Texas		ZIP CODE 77063			
DATE WORK COMPLETED 09 21 2014					BHI REPRESENTATIVE ERIC S DEWIT		WELL API NO: 05123400810000		WELL TYPE : New Well			
DISTRICT PP, BRIGHTON					JOB DEPTH(ft) 5,979		WELL CLASS : Oil					
WELL NAME AND NUMBER O'HARE #1-29-11-57					TD WELL DEPTH(ft) 5,998		GAS USED ON JOB : No Gas					
WELL LOCATION : 29-11N-57W					COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Intermediate			
PRODUCT CODE		DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
A152		Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00	
M100		Bulk Materials Blending Charge				cu ft	638	5.450	3,477.10	70%	1,043.13	
R798		Automatic Density System				job	1	1,990.000	1,990.00	70%	597.00	
		SUB-TOTAL FOR Service Charges							5,677.10	67.41%	1,850.13	
F063A		Cement Pumping, 5001 - 6000 ft				6hrs	1	7,325.000	7,325.00	70%	2,197.50	
F088		Cement Pumping, Additional hrs				hrs	2	900.000	1,800.00		1,800.00	
F090		Fuel per pump charge - cement				pump/hr	6	70.250	421.50	0%	421.50	
J050		Cement Head				job	1	830.000	830.00	70%	249.00	
J225		Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	70%	639.00	
J390		Mileage, Heavy Vehicle				miles	246	11.850	2,915.10	70%	874.53	
J391		Mileage, Auto, Pick-Up or Treating Van				miles	246	6.700	1,648.20	70%	494.46	
		SUB-TOTAL FOR Equipment							17,069.80	60.89%	6,675.99	
J401		Bulk Delivery, Dry Products				ton-mi	3069	3.940	12,091.86	70%	3,627.56	
		SUB-TOTAL FOR Freight/Delivery Charges							12,091.86	70.00%	3,627.56	
ARRIVE LOCATION :		MO. 09	DAY 20	YEAR 2014	TIME 23:43	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE 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. Bob McNeese										CUSTOMER AUTHORIZED AGENT X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS										BHI APPROVED X		
						CUSTOMER AUTHORIZED AGENT						



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WELL LOCATION :		LEGAL DESCRIPTION 29-11N-57W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Intermediate			
PRODUCT CODE		DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
		FIELD ESTIMATE							71,150.72	62.70%	26,536.78	
ARRIVE LOCATION :		MO. 09	DAY 20	YEAR 2014	TIME 23:43	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE 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. Bob McNeese					CUSTOMER AUTHORIZED AGENT _____ CUSTOMER AUTHORIZED AGENT				CUSTOMER AUTHORIZED AGENT X			
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS									BHI APPROVED X			