

CEMENT JOB REPORT



CUSTOMER ANADARKO PETROLEUM COI			DATE 19-MAR-14		F.R. # 10011053320		SERV. SUPV. STEVEN S ISCHE							
LEASE & WELL NAME EDWARD RADEMACHER UNIT #1 - API 051230785			LOCATION 25-3N-68W			COUNTY-PARISH-BLOCK Weld Colorado								
DISTRICT Brighton			DRILLING CONTRACTOR RIG # W/O			TYPE OF JOB Squeeze-Perforation								
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES	MD	TVD				
				Retainers		3940	3940	NONE	0	0				
				Retainers		650	650							
MATERIALS FURNISHED BY BJ			LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES									
					SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER			
Squeeze Slurry			N/A		0	0	0	0	00:00	0				
SMS Spacer			N/A		0	8.34	0	0	00:00	20				
Plug #1			N/A		280	15.8	1.15	4.97	02:33	57.57	33.12			
Fresh Water			N/A		0	8.34	0	0	00:00	12				
Fresh Water			N/A		0	8.34	0	0	00:00	10				
Plug #2			N/A		240	14	1.53	7.78	02:50	61	41.32			
Fresh Water			N/A		0	8.34	0	0	00:00	0.5				
Available Mix Water 200 Bbl.			Available Displ. Fluid 138 Bbl.			TOTAL			161.07	74.44				
HOLE			TBG-CSG-D.P.					COLLAR DEPTHS						
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
12	20	6000	1.995	2.375	4.7	TBG	3940	6940	N-80			1030		
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.	
4	4.5	11.6	CSG	6940	6940	CEMENT RETAINER	3940	3910	4290	2.375	8 RD	FRESH WATER	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		
12	BBLS	Fresh Water		8.34	0	0		0	7700	6160	5250	3000	Transport	
		Fresh Water		8.34										
Circulation Prior to Job														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 2 BPM					
Mud Density In: 8.4 LBS/GAL Mud Density Out: 8.4 LBS/GAL						PV & YP Mud In: 0			PV & YP Mud Out: 0					
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: 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 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 type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 0			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD														
Plugs														
Number of Attempts by BJ: 2 Competition: 0						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: 0 PSI With 0 LBS/GAL Mud						Time Held: 00 Hours 00 Minutes								

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									
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      4400 PSI			
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>			
08:20	0	0	0	0	N/A	Leave Yard			
09:25	0	0	0	0	N/A	Arrive Location			
09:30	0	0	0	0	N/A	Spot Trucks			
09:30	0	0		0	N/A	Pre Rig Up Safety Meeting			
10:20	0	0		0	N/A	Job JSA			
10:26	4400	0	0	0	H2O	High Pressure Test			
11:35	1176	0	3.1	10	H2O	Spacer			
11:39	1226	0	3.1	20	SMS	SPACER			
11:11	1238	0	3.1	5	H2O	SPACER			
12:12	1530	0	2	12	H2O	Displ.			
11:50	1454	0	3.1	59	CMT	Pump 280 sks cmt (TOP OF CEMENT 2550)			
12:17	0	0	0	0	H2O	Shut Down			
12:17	0	0	0	0	H2O	Pull Tubing			
16:22	4200	0	0	0	H2O	PRESSURE TEST			
16:23	105	0	2.1	10	H2O	Spacer			
16:30	0	0	0	0	CMT	Batch Up CMT			
16:41	65	0	2	61	CMT	Pump 240 sks cmt (6 BBLS CEMENT TO SURFACE)			
17:22	111	0	1.3	.5	H2O	Displ.			
17:23	0	0	0	0	H2O	Shut Down AND WASH UP			
17:45	0	0	0	0	N/A	Rig Down Safety Meeting			
18:30	0	0	0	0	N/A	Convey Safety Meeting			
18:45	0	0	0	0	N/A	Leave Loc			
BUMPED PLUG Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 0	TEST FLOAT EQUIP. Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 6	TOTAL BBL. PUMPED 178	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature: 		





FIELD RECEIPT NO. 10011053320

CUSTOMER ANADARKO PETROLEUM CORP - XML					CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20047992 - 00208786		INVOICE NUMBER			
MAIL STREET OR BOX NUMBER INVOICE TO PO BOX 1330					CITY Houston		STATE Texas		ZIP CODE 77251-1330					
DATE WORK COMPLETED					MO. 03	DAY 19	YEAR 2014	BHI REPRESENTATIVE STEVEN S ISCHE		WELL API NO: 05123078520000			WELL TYPE : Old Well	
DISTRICT BJS, BRIGHTON					JOB DEPTH(ft) 4,290		WELL CLASS : Gas							
WELL NAME AND NUMBER EDWARD RADEMACHER UNIT #1					TD WELL DEPTH(ft) 6,940		GAS USED ON JOB : No Gas							
WELL LOCATION :					LEGAL DESCRIPTION 25-3N-68W		COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Squeeze-Perforation			
PRODUCT CODE		DESCRIPTION						UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
100021		Class G Cement						sacks	280					
100112		Calcium Chloride						lbs	452					
100112		Calcium Chloride						lbs	300					
100275		Sodium Metasilicate						lbs	800					
100295		Cello Flake						lbs	70					
100404		Sodium Chloride						lbs	100					
488013		CD-32						lbs	106					
488019		FP-6L						gals	4					
499632		Granulated Sugar						lbs	100					
499703		Type III Cement						sacks	240					
499705		ASA-301						lbs	106					
		SUB-TOTAL FOR Product Material												
A152		Personnel Per Diem Chrg - Cement Svc						ea	1					
		SUB-TOTAL FOR Service Charges												
ARRIVE LOCATION :		MO. 03	DAY 19	YEAR 2014	TIME 09:25	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. Luis Morales					SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS					CUSTOMER AUTHORIZED AGENT X				
										BHI APPROVED X				
					CUSTOMER AUTHORIZED AGENT									

## Load Sheet



**WELL NAME** EDWARD RADEMACHER UNIT #1

**CUSTOMER ANADARKO PETROLEUM CORP - XML**

**JOB DATE** MAR-19-2014

**FIELD RECEIPT NO** 10011053320

FIELD RECEIPT DATE MAR-19-2014[illegible]

  
SERVICE SUPERVISOR

DATE MAR-19-2014

DATE \_\_\_\_\_

## OPERATIONS SUPERVISOR



CEMENT JOB REPORT



CUSTOMER ANADARKO PETROLEUM COI			DATE 17-MAR-14		F.R. # 10011052969		SERV. SUPV. STEPHEN J CARDOS												
LEASE & WELL NAME EDWARD RADEMACHER UNIT #1 - API 051230785			LOCATION 25-3N-68W			COUNTY-PARISH-BLOCK Weld Colorado													
DISTRICT Brighton			DRILLING CONTRACTOR RIG # W/O			TYPE OF JOB Squeeze-Perforation													
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD								
N/A		N/A		RETAINER		6570	6570	NO HANGER		0	0								
				PHYSICAL SLURRY PROPERTIES															
MATERIALS FURNISHED BY BJ		LAB REPORT NO.		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sub>3</sub>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER									
Fresh Water		N/A		0	8.34	0	0	00:00	10										
Squeeze Slurry		N/A		140	13.5	1.71	8.30	00:00	42.74	27.65									
Fresh Water		N/A		0	8.34	0	0	00:00	25										
SMS Spacer		N/A		0	8.34	0	0	00:00	20										
Plug #1		N/A		280	15.8	1.15	4.97		57.57	33.12									
Fresh Water		N/A		0	8.34	0	0	00:00	18										
Fresh Water		N/A		0	8.34	0	0	00:00	10										
Plug #2		N/A		240	14	1.53	7.78	00:00	65.60	44.44									
Fresh Water		N/A		0	8.34	0	0	00:00	5										
Available Mix Water		140 Bbl.		Available Displ. Fluid		140 Bbl.		TOTAL		253.91	105.22								
HOLE			TBG-CSG-D.P.					COLLAR DEPTHS											
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE							
			4	4.5	11.6	CSG	6940	6940	N-80			1030							
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.					
						CEMENT RETAINER		6570			2.375	8RND	FRESH WATER	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							
4224	BBLS	Fresh Water		8.34	0	0		0	0	0	6224	3000	TANKER TRUCK						
		Fresh Water		8.34															
Circulation Prior to Job																			
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					Circulation Time: .5					Circulation Rate: 2 BPM									
Mud Density In: 8.34 LBS/G					Mud Density Out: 8.34 LBS/GAL					PV & YP Mud In: 0					PV & YP Mud Out: 0				
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 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: 0					Type: <input checked="" type="checkbox"/> BOW <input type="checkbox"/> RIGID									
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD																			
Plugs																			
Number of Attempts by BJ: 0					Competition: 0					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 checked="" 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				
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE																			

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									
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 4224 PSI			
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>			
07:10	0	0	0	0	N/A	LEAVE YARD			
11:30	0	0	0	0	N/A	ARRIVE ON LOCATION			
11:40	0	0	0	0	N/A	SPOT TRUCKS			
12:00	0	0	0	0	N/A	PRE RIG UP SAFETY MEETING			
12:20	0	0	0	0	N/A	SAFETY MEETING			
12:29	4224	0	0	0	H2O	PRESSURE TEST			
12:34	285	0	.4	1	H2O	ESTABLISH CIRCULATION			
12:38	1173	0	2.4	40	CMT	BATCH/WEIGH/PUMP 13.5 LB CEMENT			
13:03	824	0	2.1	22.4	H2O	DISPLACEMENT			
13:15	0	0	0	0	N/A	STING OUT			
13:19	0	0	0	0	N/A	JOB DONE / WASH UP / RIG DOWN			
BUMPED PLUG Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 0	TEST FLOAT EQUIP. Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 63	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature: 		





ORDER 0208786	INVOICE NUMBER	
ZIP CODE 7251-1330		
Corporation		
GROSS AMOUNT	% DISC.	NET AMOUNT
CERTIFY THAT THE MATERIALS AND WERE RECEIVED AND ALL SERVICES WORKMANLIKE MANNER.		
AUTHORIZED AGENT		
DATED		

## Load Sheet



WELL NAME EDWARD RADEMACHER UNIT #1

**DISTRICT Brighton**