



**Pumping  
Service Report**

**9199267**

Client Name Anadarko Petroleum Corporation	Well Name MUHME 6-30S <del>HSR-Hume 6-30</del>	Rig	Job Date October 28, 2014	Call Sheet 1049570
Client Representative Mr. Ronald Smith	Surface Well Location SE NW Sec 30:T3N:R66W	Down Hole Well Location	Job Type Abandonment Plugs	

**Well Profile**

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

**Casing**

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
3.500	7.700	---	--	--	--	--	--	0.0	--

**Tubing**

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.063	0.000	J-55	--	--	--	--	0.000	4,209.000

**Products**

**Plug 1**

From Depth (ft):

To Depth (ft):

Plug Type : N/A

Acids/Blends/Fluids :

Tail: 20 Sacks of 50/50 Poz G, Density = 13.5 lb/gal, Volume Pumped = 5.9 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60  
+ 20 % of Silica Flour (Preblend),  
+ 3 % of Gel (Preblend),  
+ 0.1 % of SMS (Preblend),  
+ 0.4 % of CFR-2 (Preblend),  
+ 0.4 % of CFL-3 (Preblend)

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Oct 28, 2014 09:16



**Pumping  
Service Report**

**9199267**

**Units & Personnel**

**Units**

<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
449087	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	10/28/2014 16:00	10/28/2014 19:00
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	10/28/2014 16:00	10/28/2014 19:00
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	10/28/2014 16:00	10/28/2014 19:00

**Crew and Bonuses**

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Maguire, Matthew	10/28/2014 16:00	10/28/2014 19:00		
Young, Craig	10/28/2014 16:00	10/28/2014 19:00		
Hansen, Ted	10/28/2014 16:00	10/28/2014 19:00		
Faircloth, Branden	10/28/2014 16:00	10/28/2014 19:00		

**Treatment Reports & Remarks**

**Treatment Report**

<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Oct 28, 2014 16:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 28, 2014 16:10	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 28, 2014 16:30	Rig In	---	--	--	--	--	0.00
4	Oct 28, 2014 17:05	STEACS Briefing	---	--	--	--	--	0.00
5	Oct 28, 2014 17:30	Sign-off on Safety	---	--	--	--	--	0.00
6	Oct 28, 2014 17:34	Start - Fluid	Water	2.00	800.0	--	1.00	1.00
		Remarks: Filled lines.						
7	Oct 28, 2014 17:35	Pressure Test Lines	---	--	1,500.0	--	--	1.00
		Remarks: All lines held pressure.						
8	Oct 28, 2014 17:36	Establish Circulation	Water	2.00	800.0	--	3.00	4.00
		Remarks: We had circulation.						
9	Oct 28, 2014 17:45	Mix Cement	50/50 Poz G	2.00	700.0	--	5.90	9.90
		Remarks: WR=7.92, Y=1.66, D=13.5, Sk Wt=103.75						
10	Oct 28, 2014 17:50	Displace Fluid	Water	2.00	600.0	--	10.30	20.20
		Remarks: Went to boost only @ 9.0 bbls away to a balanced plug.						
11	Oct 28, 2014 17:58	Stop	---	--	--	--	--	20.20
12	Oct 28, 2014 18:10	Wash	Water	1.50	100.0	--	20.00	20.20
13	Oct 28, 2014 18:45	Rig Out	---	--	--	--	--	20.20
14	Oct 28, 2014 19:00	Pre-Departure Meeting	---	--	--	--	--	20.20
15	Oct 28, 2014 19:15	Job Complete	---	--	--	--	--	20.20
16	Oct 28, 2014 19:25	Leave Location	---	--	--	--	--	20.20





**Pumping  
Service Report**

**9200678**

Client Name Anadarko Petroleum Corporation	Well Name HSR-Muhme 6-30A	Rig Basic 1534	Job Date November 06, 2014	Call Sheet 0
Client Representative Mr. Fausto Rivera	Surface Well Location SE NW Sec 30:T3N:R67W	Down Hole Well Location	Job Type Cement Misc.	

**Well Profile**

Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

**Tubing**

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
3.500	7.700	J-55	5,970.000	38.790	3.068	4.250	0.000	4,242.000
2.063	3.250	J-55	7,690.000	12.630	1.751	2.325	0.000	4,242.000

**Products**

**Plug 1**

From Depth (ft):	3805
To Depth (ft):	4242
Plug Type :	Well Stability
Acids/Blends/Fluids :	
Plug: 20 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 4 (bbl)	
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65	

**Fluid & Cement Data**

Expected Cement Top: Depth (ft): 3805

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Nov 06, 2014 16:05

**Units & Personnel**

**Units**

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201114	PICKUP	3/4 Ton				11/06/2014 14:45	11/06/2014 16:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	11/06/2014 14:45	11/06/2014 16:30
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	11/06/2014 14:45	11/06/2014 16:30

**Crew and Bonuses**

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Schneider, Patrick	11/06/2014 14:45	11/06/2014 16:30		
Svoboda, Miloslav	11/06/2014 14:45	11/06/2014 16:30		
Teegerstrom, Ty	11/06/2014 14:45	11/06/2014 16:30		
Heye, Joshua	11/06/2014 14:45	11/06/2014 16:30		

#### Treatment Reports & Remarks

##### Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Nov 06, 2014 14:30	Arrive On Location	---	--	--	--	--	0.00
2	Nov 06, 2014 14:35	STEACS Briefing	---	--	--	--	--	0.00
		Remarks: discussed leasr hazards & rig in procedures						
3	Nov 06, 2014 15:05	Rig In	---	--	--	--	--	0.00
4	Nov 06, 2014 15:15	Safety Meeting	---	--	--	--	--	0.00
5	Nov 06, 2014 15:25	Sign-off on Safety	---	--	--	--	--	0.00
6	Nov 06, 2014 15:27	Start - Fluid	Water	1.00	0.0	--	1.00	1.00
		Remarks: filled lines						
7	Nov 06, 2014 15:27	Pressure Test Lines	Water	--	2,000.0	--	--	1.00
		Remarks: good pressure test						
8	Nov 06, 2014 15:29	Establish Circulation	Water	2.00	500.0	--	4.00	5.00
		Remarks: good circulation						
9	Nov 06, 2014 15:31	Batch Mix	0-1-0 G	--	0.0	--	--	5.00
		Remarks: batched up 20 sks @ 15.8 ppg						
10	Nov 06, 2014 15:35	Pump	0-1-0 G	2.00	500.0	--	4.00	9.00
		Remarks: plug cement @ 15.8 ppg yield = 1.15 h2o req = 4.98						
11	Nov 06, 2014 15:37	Displace Fluid	Water	2.00	400.0	--	11.00	20.00
		Remarks: displaced to balance						
12	Nov 06, 2014 15:42	Balance Plug	---	--	0.0	--	--	20.00
13	Nov 06, 2014 15:45	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: revisited JSA						
14	Nov 06, 2014 15:50	Rig Out	---	--	--	--	--	0.00
15	Nov 06, 2014 16:00	Wash	Water	--	--	--	--	0.00
		Remarks: washed pumps & lines						
16	Nov 06, 2014 16:15	Job Complete	---	--	--	--	--	0.00
17	Nov 06, 2014 16:20	Pre-Departure Meeting	---	--	--	--	--	0.00
18	Nov 06, 2014 16:30	Leave Location	---	--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

##### Material Transfer Sheet Number

Material Transfer Sheet Number

54893

# CEMENT JOB REPORT



<b>CUSTOMER</b> ANADARKO PETROLEUM COR			<b>DATE</b> 31-OCT-14		<b>F.R. #</b> 10011114200		<b>SERV. SUPV.</b> STEPHEN J CARDOS							
<b>LEASE &amp; WELL NAME</b> HSR-MUHME #6-30A - API 05123188510000			<b>LOCATION</b> 30-3N-67W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado								
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> WO			<b>TYPE OF JOB</b> Squeeze-Hole								
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>			
N/A		N/A		N/A		0	0	N/A		0	0			
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>		<b>PHYSICAL SLURRY PROPERTIES</b>								
						<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>		
Squeeze Slurry				N/A		30	15.8	1.15	5.00		6.13	3.57		
Fresh Water				N/A		0	8.34	0	0	00:00	15			
Fresh Water				N/A		0	8.34	0	0	00:00	10			
<b>Available Mix Water</b> 80 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 80 <b>Bbl.</b>				<b>TOTAL</b>		31.13		3.57		
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>		
0	0	0	3.068	3.5	7.7	CSG	4444	4444	J-55					
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>			<b>TOP CONN</b>		<b>WELL FLUID</b>			
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
						NO PACKER		0			2.063	8RND	WATER BASED	8.4
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>			
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>				
9	BBLS	Fresh Water	8.34	0	0	0	4776	1000	0	0	TANKER TRUCK			
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 2			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 checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>								
<b>Displacement And Mud Removal</b>														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: .25 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 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														
<b>Plugs</b>														
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					
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>														
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				
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>														
Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud						Time Held: 00 Hours 00 Minutes								
<b>Shoe Test (Update Original Treatment Report for Primary Job)</b>														
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								
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING</b> NONE														



# CEMENT JOB REPORT



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	3054 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
16:45	0	0	0	0	N/A	LEAVE YARD	
17:30	0	0	0	0	N/A	ARRIVE ON LOCATION	
17:40	0	0	0	0	N/A	SPOT TRUCKS	
17:45	0	0	0	0	N/A	PRE RIG UP SAFETY MEETING	
18:00	0	0	0	0	N/A	SAFETY MEETING	
18:14	3054	0	0	0	H2O	PRESSURE TEST	
18:22	220	0	1	2	H2O	ESTABLISH RATE	
18:24	112	0	1	5.1	CMT	BATCHWEIGH/PUMP 15.8 LB CEMENT	
18:33	0	0	0	0	H2O	DOWN	
18:34	34	0	1.6	9.1	H2O	DISPLACEMENT	
18:39	0	0	0	0	H2O	DOWN/BALANCE	
18:45	0	0	0	0	H2O	DONE /BLEED OFF	

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 checked="" type="checkbox"/> N	0	Y <input checked="" type="checkbox"/> N	0	17	0	Y <input checked="" type="checkbox"/> N	