

**HALLIBURTON**

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**ANADARKO PETROLEUM CORP - EBUS**

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**1415 Corporation GU D #2  
WATTENBERG  
Weld County , Colorado**

**Squeeze Hole in Casing**

**21-Jul-2010**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

Sold To #: 300466		Ship To #: 2794634		Quote #:		Sales Order #: 7514798	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: NAILL, KENNY			
Well Name: 1415 Corporation GU			Well #: D #2			API/UWI #: 05-123-09971-00	
Field: WATTENBERG		City (SAP): FORT LUPTON		County/Parish: Weld		State: Colorado	
Contractor: Ensign			Rig/Platform Name/Num: 322				
Job Purpose: Squeeze Hole in Casing							
Well Type: Producing Well			Job Type: Squeeze Hole in Casing				
Sales Person: FLING, MATTHEW			Srv Supervisor: COLLINS, IRVIN			MBU ID Emp #: 401749	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COLLINS, IRVIN Douglas	2.0	401749	AL VASQUEZ	2.0	401745	LUPE BANUELOS	2.0	372277

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11064046C	25 mile	11142998	25 mile	11341988C	25 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

### Job

Formation Name				Job Times			
Formation Depth (MD)	Top	Bottom		Called Out	Date	Time	Time Zone
Form Type		BHST		On Location	0	11:00	MST
Job depth MD	4460. ft	Job Depth TVD	4460. ft	Job Started	21 - Jul - 2010	11:12	MST
Water Depth		Wk Ht Above Floor		Job Completed	21 - Jul - 2010	12:17	MST
Perforation Depth (MD)	From	4,460.00 ft	To	4,461.00 ft	Departed Loc	21 - Jul - 2010	13:00

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	Used		4.5	4.	10.5			.	8115.	.	8115.
Tubing	Used		2.375	1.995	4.6			.	4490.	.	.
Perforation Interval								4460.	4461.	.	.

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

### Fluid Data

Stage/Plug #: 1													
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		



Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	PRE-FLUSH		5	bbl	.	.0	.0	.0	
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	25	sacks	15.8	1.15	5.0	2.0	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	0.4 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	0.3 %	HALAD(R)-344, 50 LB (100003670)							
	5 Gal	FRESH WATER							
3	DISPLACEMENT		15.5	bbl	.	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	66 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					



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Well Name: 1415 Corporation GU	Well #: D #2	API/UWI #: 05-123-09971-00	
Field: WATTENBERG	City (SAP): FORT LUPTON	County/Parish: Weld	State: Colorado

**Legal Description:**

Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.

Contractor: Ensign Rig/Platform Name/Num: 322

Job Purpose: Squeeze Hole in Casing Ticket Amount:

Well Type: Producing Well Job Type: Squeeze Hole in Casing

Sales Person: FLING, MATTHEW Srv Supervisor: COLLINS, IRVIN MBU ID Emp #: 401749

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	07/21/2010 10:00							
Safety Meeting	07/21/2010 10:45							
Test Lines	07/21/2010 11:12							2900PSI
Pump Spacer 1	07/21/2010 11:15		2	5			180.0	TANK WATER
Pump Cement	07/21/2010 11:19		2	5			169.0	25SK'S OF CMT AT 15.8# MIXED WITH TANK WATER
Pump Displacement	07/21/2010 11:22		2	15.5			100.0	TANK WATER
Other	07/21/2010 11:29							REMOVE 12 STANDS...EACH STAND WAS 63' LONG TOTAL 756'
Pressure Up Well	07/21/2010 12:04		2					PRESSURED UP BACKSIDE AT 1594PSI, WAITED 10MIN PRESSURED FALL TO 1180PSI WITH 1.25BBL'S
Pressure Up Well	07/21/2010 12:14		2					PRESSURED UP BACKSIDE A SECOND TIME AT 1600PSI...WAITED 4MIN PRESSURE FALL TO 1400PSI WITH .2BBL'S
Shut In Well	07/21/2010 12:18							
End Job	07/21/2010 12:20							



**Material Roll Up**

Sales Order #: 7462680

Crew: RED CREW

AFE #:

WO #:

PO #:

Requested Job Start Date: \_\_\_\_\_

**Colorado Oil and Gas Commission Wellsite Form**

Customer: ANADARKO

Field: WATTENBERG

Job Type: BALANCED PLUG

UWI / API Number: #05-123—09971-00

County/Parish: WELD

Service Supervisor: IRV COLLINS

Well Name: 1415 CORPORATION GU

State: COLORADO

Well No: D #2

Latitude:

Stage / Zone:

Longitude:

Cust Rep Name:

Formation:

Sect / Twn / Rng: / /

Cust Rep Phone #:

**Do Not leave the yard without the proper MSDS documentation for All chemicals.**

Colorado Oil and Gas Commission					
Material	Delivered to Location	UOM	Specific Gravity	Weight (lbs)	Comment
PREMIUM-MTN.G		LB		2370	
		LB			
		LB			
		LB			
		LB			
		LB			
		LB			
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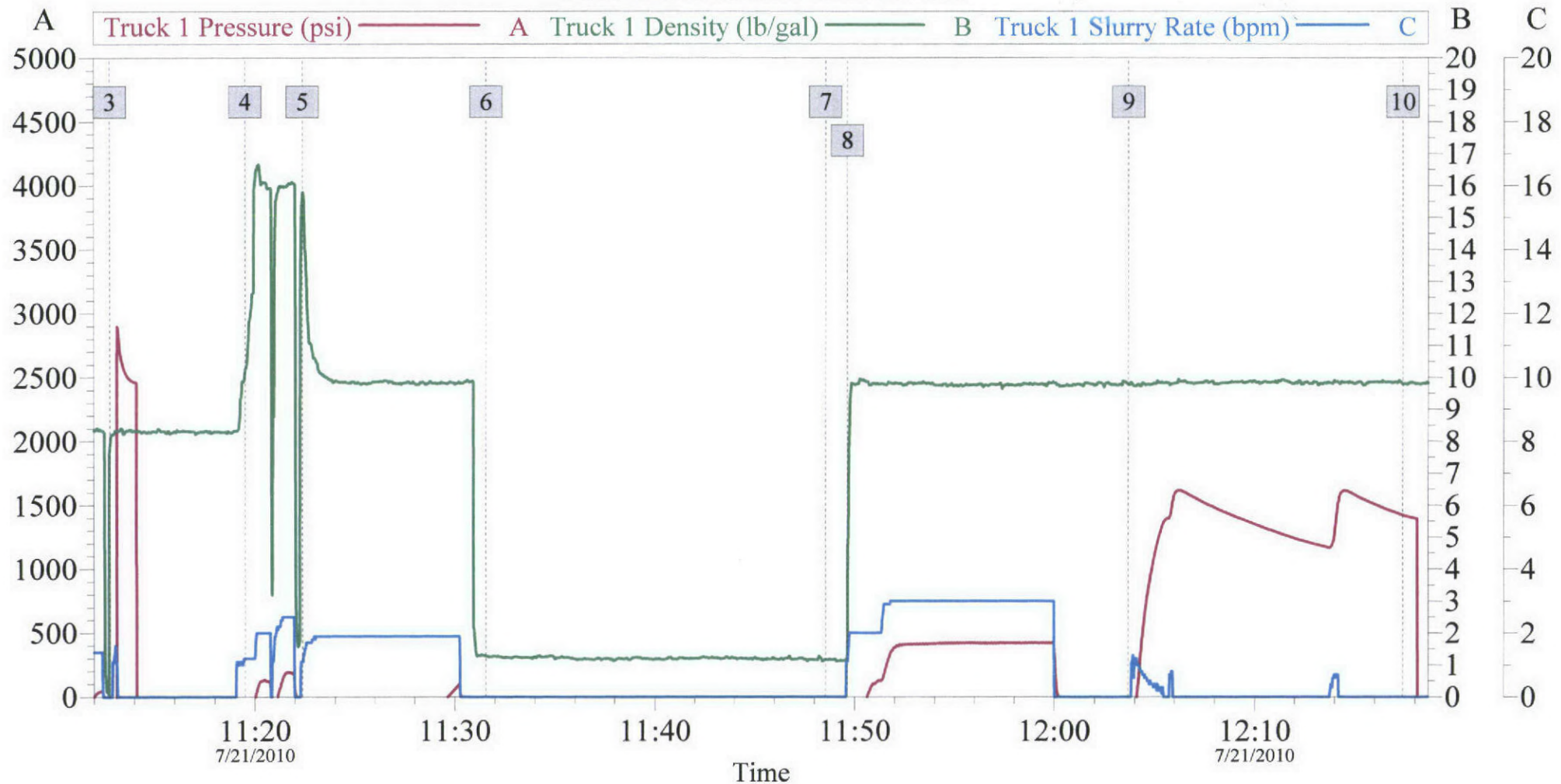
☒

Operator provided all Material Safety Data Sheets (MSDS) related to material listed above.  
Operator representative will check box to designate he/she has received all MSDS documentation.

\_\_\_\_\_  
Operator Representative Signature

# ANADARKO BALANCED PLUG

1415 CORPORATION GUD#2



## Global Event Log

<b>3</b> Test Lines	11:12:47	<b>4</b> Pump Cement	11:19:32	<b>5</b> Pump Displacement	11:22:23
<b>6</b> Shutdown	11:31:33	<b>7</b> Pump Displacement	11:48:33	<b>8</b> Pump Displacement	11:49:38
<b>9</b> Pressure Up Well	12:03:41	<b>10</b> End Job	12:17:23		

Customer: ANADARKO  
Well Description: BALANCED PLUG

Job Date: 21-Jul-2010  
UWI: #05-123-09971-00

Sales Order #: 7514798

OptiCem v6.4.2  
21-Jul-10 12:28