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# **ANADARKO PETROLEUM CORP - EBUS**

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**HSR Tim Gittlien 6-9  
WATTENBERG  
Weld County , Colorado**

**Squeeze Perfs**

**Job Site Documents**

# Cementing Job Summary

## The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2753890	Quote #:	Sales Order #: 7754296
Customer: ANADARKO PETROLEUM CORP - EBUS	Customer Rep: SABO, KYLE		
Well Name: HSR Tim Gittlien	Well #: 6-9	API/UWI #:	
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Contractor: KERR McGEE	Rig/Platform Name/Num: #4		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: FLING, MATTHEW	Srvs Supervisor: KELEHER, JASON	MBU ID Emp #:	437348

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COPELAND, GEORGE Willard	4.5	429242	HALE, ROBERT E	4.5	470588	KELEHER, JASON E	4.5	437348

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10829456	28 mile	10982754C	28 mile	11410470C	28 mile	11566182	28 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-5-10	4.5	3						

TOTAL	Total is the sum of each column separately							
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### Job

Formation Name	Job	Job Times	Date	Time	Time Zone
Formation Depth (MD) Top	Bottom	Called Out	05 - Nov - 2010	05:00	MST
Form Type	BHST	On Location	05 - Nov - 2010	08:00	MST
Job depth MD	4339. ft	Job Started	05 - Nov - 2010	08:54	MST
Water Depth	Wk Ht Above Floor	Job Completed	05 - Nov - 2010	11:50	MST
Perforation Depth (MD) From	To	Departed Loc	05 - Nov - 2010	12:30	MST

### 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
Production Casing	Unknown		4.5	4.052	10.5			4600.	4600.		

### 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
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Stage/Plug #: 1	Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
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## Cementing Job Summary

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	Squeeze cmt 15.8#	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	50.0	sacks	15.8	1.15	5.0	3.0	5.0	
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)								
	5 Gal	FRESH WATER								
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	0 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						

# Cementing Job Log

## The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 2753890		Quote #:		Sales Order #: 7754296	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: SABO, KYLE			
Well Name: HSR Tim Gittlien			Well #: 6-9		API/UWI #:		
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Legal Description:							
Lat:				Long:			
Contractor: KERR McGEE			Rig/Platform Name/Num: #4				
Job Purpose: Squeeze Perfs					Ticket Amount:		
Well Type: Development Well			Job Type: Squeeze Perfs				
Sales Person: FLING, MATTHEW			Srvc Supervisor: KELEHER, JASON			MBU ID Emp #: 437348	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/05/2010 08:00							
Assessment Of Location Safety Meeting	11/05/2010 08:10							
Test Lines	11/05/2010 08:54							PRESSURE TEST 3000 PSI
Pump Spacer 1	11/05/2010 09:10		2	19			254.0	LOAD CASING AND TUBING
Pump Cement	11/05/2010 09:48		1	10			24.0	50 SKS NEAT G MIXED AT 15.8 PPG WITH SUPPLIED WATER WITH 2 % CC
Pump Displacement	11/05/2010 09:56		1.5	14			19.0	SUPPLIED WATER
Shutdown	11/05/2010 10:04							RIG CREW TO PULL 1300' OF TUBING
Reverse Circ Well	11/05/2010 10:39		2	19			235.0	SUPPLIED WATER
Pressure Up Well	11/05/2010 10:58		0.5	0.5			2000.0	PRESSURE UP WELL TO SQUEEZE PERFS
Shut In Well	11/05/2010 11:50						2000.0	SHUT IN WELL WITH RIGS VALVE
End Job	11/05/2010 11:50							

Sold To #: 300466

Ship To #: 2753890

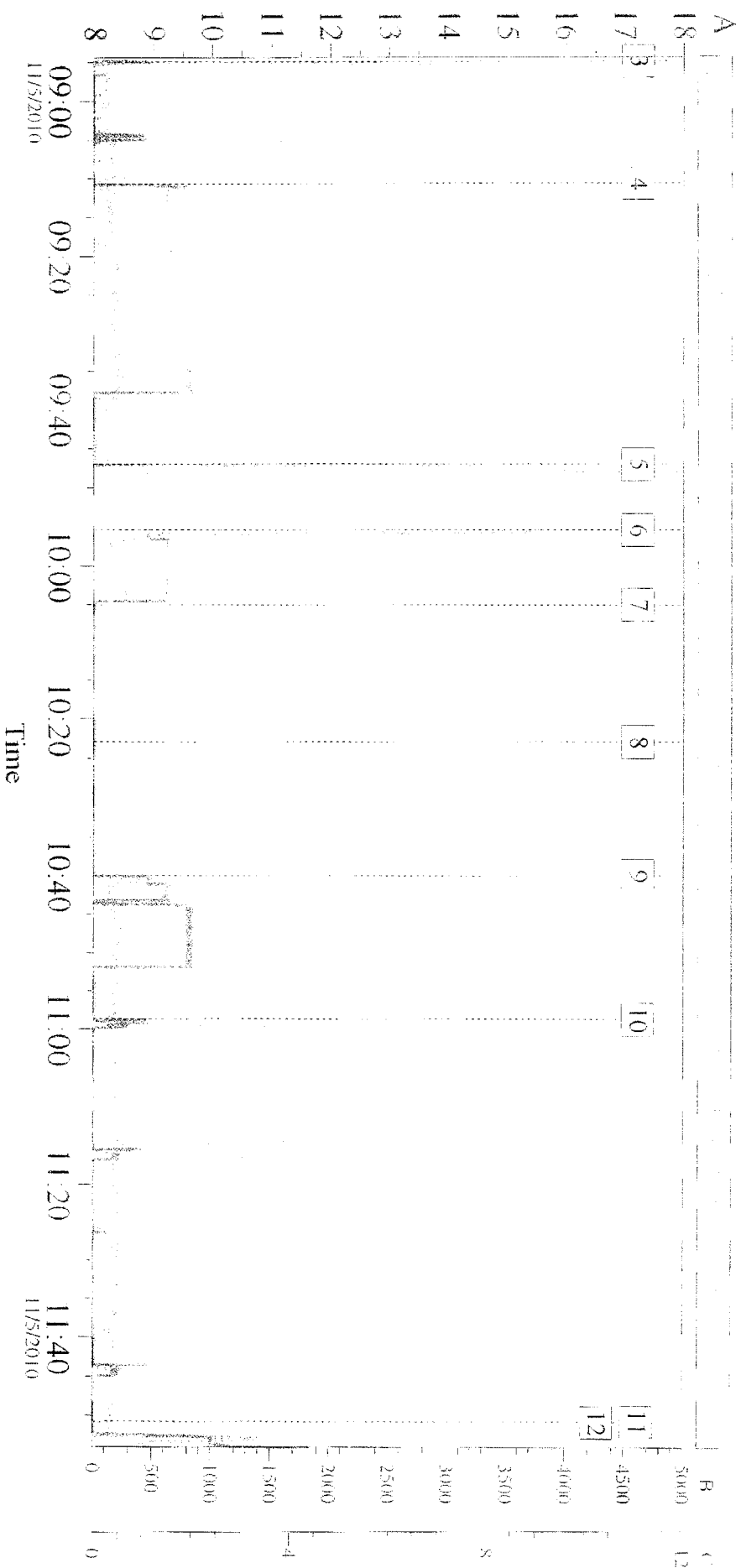
Quote # :

Sales Order #: 7754296

SUMMIT Version: 7.20.130

Friday, November 05, 2010 12:13:00

# ANADARKO - ISSR TIM CITLEEN 6-9 SQUEEZE



## Global Event Log

1	Starting Job	08:43:29	2	Start Job	08:54:15	3	Test Lines	08:54:56
4	Pump Spacer 1	09:10:46	5	Pump Cement	09:47:01	6	Pump Displacement	09:55:24
7	Shutdown	10:05:03	8	Start Job	10:22:53	9	Reverse Circ Well	10:39:57
10	Pressure Up Well	10:58:43	11	Shut In Well	11:50:44	12	End Job	11:50:50
13	Ending Job	11:56:36						

Customer: ANADARKO  
Well Description: SQUEEZE

Job Date: 05-Nov-2010  
UWI: 05-123-18003-00

Sales Order #: 7754296