

# HALLIBURTON

*KINDER MORGAN  
MCELMO DOME SC # 11*

MONTEZUMA, COUNTY, CO.  
0

WHIPSTOCK PLUG

**HALLIBURTON**

JIM ASIRE

<b>HALLIBURTON</b>		<b>JOB SUMMARY</b>		SAP #/TICKET # <b>4994747</b>	TICKET DATE <b>03/23/07</b>
REGION <b>NORTH AMERICA LAND</b>	NWA / COUNTRY <b>WESTERN</b>	BDA / STATE <b>DENVER, CO</b>	COUNTY <b>CARBON</b>		
Service Leader	H.E.S. EMPLOYEE NAME <b>JIM ASIRE</b>		PSL DEPARTMENT <b>ZONAL ISOLATION</b>		
LOCATION <b>CASPER, WY</b>	COMPANY <b>KINDER MORGAN</b>		CUSTOMER REP / PHONE <b>KENNY</b>		
WEATHER	WELL TYPE <b>CO2</b>		API/UMI #		
FIELD / WELL LOCATION	DEPARTMENT <b>CEMENTING SERVICES 10003</b>		SAP BOMB NUMBER	Description	
LEASE NAME <b>MCELMO DOME</b>	Well No. <b>SC#11</b>	SEC / TWP / RNG			

H.E.S. EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Asire-338832	11.0	11.0	11.0	EAVES-232192
Wall-340587	11.0	11.0	11.0	BRUEGGEMAN-393018
	0.0	11.0	11.0	
	11.0	11.0	11.0	

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10286183-PU	220			10822521
10025185-75TC4	220			10793626

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form. Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 0

Date	Called Out	On Location	Job Started	Job Completed
	3-23-07	3-23-07	3/23/2007	3/23/2007
Time	0200	0600	1426	1515

Tools and Accessories

Type and Size	Qty	Make
Float Shoe	0	0
Float Collar	0	0
Centralizers	0	0
Limit Clamp	0	0
Top Plug	0	0
Bottom Plug	0	0
Weld - A	0	0
DV Tool		
Other		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing				0	0	0	0
Casing							
Liner		0.0					
Tubing			##		0	3,653	
Drill Pipe	Used						
Drill Pipe	Used						
Open Hole							Shots/Ft.
Perforations							
Bit Size							Excess

Materials

Mud: Type LSND Density 8.4 lb/gal

Spacers / Flushes Ahead:

<input type="checkbox"/> 10	bbl	Fresh Water
<input type="checkbox"/>	bbl	Mud Flush
<input type="checkbox"/>	bbl	Super Flush
<input type="checkbox"/>	bbl	Mod Dual Spacer
<input type="checkbox"/>	bbl	Other

Density: 8.4 lb/gal Water Req: 42 gal/bbl

Displacement:

Type FRESH WATER Density 8.33 lb/gal

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3-23-07	11.0	3/23	1.0	See Job Log
Total	11.0	Total	1.0	

Ordered	PT	Equipment Ordered Avail.	PT	Used	PT
Lead Slurry	3	Average Rates in BPM		Tail Slurry	4
Feet	NONE	Cement Left in Pipe		Reason	

Cement Data

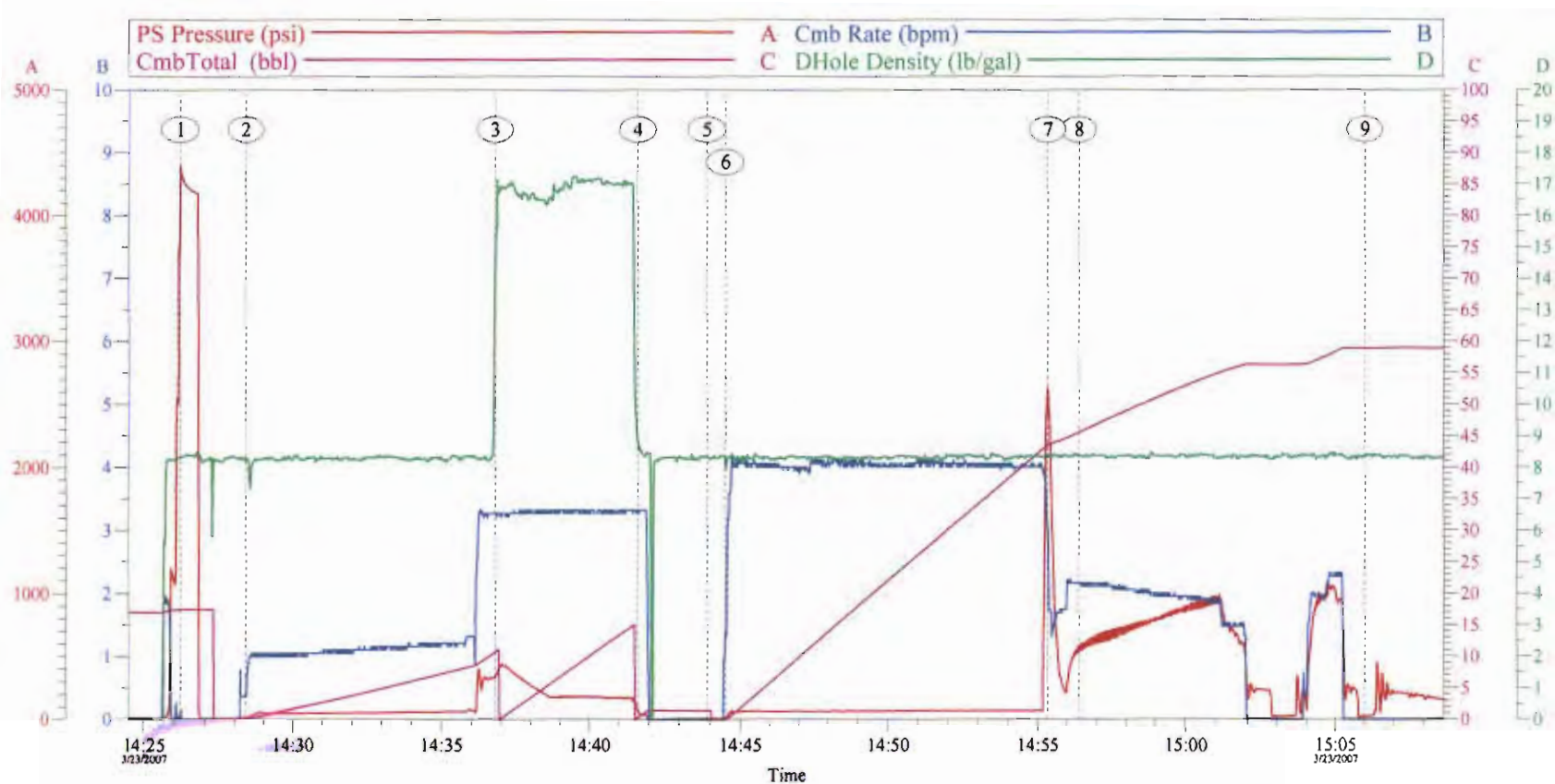
Stage	Sacks	Cement	Bulk/Sks	Additives	Water/Rq.	Yield	Lbs/Gal
			BULK				
			BULK				
			BULK				
			BULK				

Summary

Calculated Pressure to land Plug	208	psi	Spacer / Flush (bbl)	10
Actual Pressure to Land Plug		psi	Calculated Displacement (bbl)	57.5
Cement Returned	0	bbl	Actual Displacement (bbl)	57.5
Yes <input type="checkbox"/> Lost Returns <input checked="" type="checkbox"/> No		bbl Away	Cement Slurry:	16
Calculated Top of Cement	7409	ft	Total Volume:	36
Actual Top of Cement	7409	ft		

Thank You, **JIM ASIRE** Halliburton Energy Services - **Casper Zi**

**THE INFORMATION STATED HEREIN IS CORRECT**  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



Intersection	Event Log		Intersection	PP	CR
	PP	CR			
① START JOB AND TEST LINES	14:26:12	4014 0.000	② 10 BBLs WATER SPACER	14:28:24	9.933 0.421
③ 16 BBLs CEMENT @ 16.5 #	14:36:48	336.7 3.273	④ 1.5 BBLs WATER	14:41:39	73.61 3.308
⑤ DROP BALL SET	14:43:55	5.971 0.000	⑥ 57.5 BBLs WATER DISPLACEMENT	14:44:31	14.30 1.372
⑦ 45 BBL AWAY PRESS SPIKE TO 2600	14:55:21	2585 3.058	⑧ PUMPED REST OF DISPLACEMENT	14:56:24	539.3 2.164
⑨ PULLED PIPE AND END JOB	15:06:01	26.77 0.000			

Customer: KINDER MORGAN  
Well Description: MCELMO DOME SC-11

Job Date: 3-23-07  
JOB TYPE PLUG BACK

Ticket #: 4994747  
JIM ASIRE



## Field Ticket

<b>Sales Order Number:</b> 0004994747		<b>Sales Order Date:</b> Tuesday, March 20, 2007	
<b>Sold To</b> KINDER MORGAN INC ATTN: ACCOUNTS PAYABLE  500 DALLAS SUITE 1000 HOUSTON TX 77002		<b>Order Type:</b> ZOH <b>Well Name:</b> MC ELMO DOME SC#11 <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> Farmington, NM, USA <b>Sales Office:</b> Rocky Mountains BD <b>Well Type:</b> Gas <b>Well Category:</b> Development	
<b>Ship To</b> KINDER MOR MC ELMO DOME SC#11,MON MC ELMO DOME SC#11 MONTEZUMA KINDER MOR  CORTEZ CO 81321		<b>Payment Terms:</b> Net 30 days from Invoice date	

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7530	CMT PLUG BACK BOM	1	JOB					
1	ZI-MILEAGE FROM NEAREST HES BASE,UNIT Number of Units	220 1	MI unit		9.79	2,153.80	-1,183.05	990.75
2	MILEAGE FOR CEMENTING CREW,ZI Number of Units	220 1	MI unit		5.76	1,267.20	-684.29	582.91
16094	PLUG BACK/SPOT CEMENT OR MUD,ZI DEPTH FEET/METERS (FT/M)	1 9300	EA FT		15,120.00	15,120.00	-8,164.80	6,955.20
16096	PlugBack/Spot Cmt or Mud, Addl Hrs, ZI HOURS	1 1	EA hr		1,071.00	1,071.00	-578.34	492.66
132	PORT. DAS W/CEMWIN;ACQUIRE WHES, ZI NUMBER OF DAYS	1 1	JOB Days		1,649.00	1,649.00	-890.46	758.54
7	ENVIRONMENTAL SURCHARGE,/JOB,ZI	1	JOB		134.00	134.00		134.00
6	IRON SAFETY INSPECTION SURCHARGE /JOB ZI	1	JOB		83.00	83.00		83.00
3965	HANDLE&DUMP SVC CHRГ, CMT&ADDITIVES,ZI NUMBER OF EACH	102 1	CF each		5.49	559.98	-302.39	257.59
76400	ZI MILEAGE,CMT MTL5 DEL/RET MIN NUMBER OF TONS	110 4.76	MI ton		3.35	1,761.43	-951.17	810.26
100003685	CEM,CLASS G / PREMIUM, BULK	85	SK		40.42	3,435.70	-1,855.28	1,580.42
100001585	CHEM-KCL POTASSIUM CHLORIDE - 50#	109	LB		1.43	155.87	-84.17	71.70
100005050	Chemical - HR-5 (50 lb)	28	LB		11.07	309.96	-167.38	142.58

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
100003758	CHEMICAL - HR-25 - 50 LB BAGS	14	LB		46.14	645.96	-348.82	297.14
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON Number of Units	220 2	MI unit		0.45	198.00		198.00
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON Number of Units	220 1	MI unit		0.15	33.00		33.00
87605	ZI FUEL SURCHG-CMT & CMT ADDITIVES NUMBER OF TONS	110 4.78	MI ton		0.15	78.87		121.46
372867	Cmt PSL - DOT Vehicle Charge, CMT	2	EA		241.00	482.00	-260.26	221.72
<b>Totals</b>						<b>29,138.77</b>	<b>-15,407.84</b>	<b>13,730.93</b>

OperatorName: JIM ASIRE

CustomerAgent: \_\_\_\_\_

Halliburton Approval: \_\_\_\_\_

X

Customer Signature

**FIELD TICKET TOTAL \$13,730.93**



# ***KinderMorgan***

**McElmo Dome  
SC#11**

BLM

**API Well No.:**

S:8 T36N R18W

**3/16/2007  
Montezuma  
County**

## **7 Intermediate**

**Customer Representative:**  
Kenny Komegay(970)799-1931

**Halliburton Operator:**  
Brian Lockett 361233

**Ticket No.:**  
**4978688**

# **Halliburton**

## Cement & Equipment Summary

**Job Type**

**7 Intermediate**

				<i>Measured</i>	
<b>Casing</b>	<b>Size</b>	<b>Weight</b>	<b>Grade</b>	<b>Depth</b>	<b>Total Casing</b>
Surface	9 5/8	36		3,253	
Intermediate	7	29\32		7,715	
Production					
Tubing					
Drill Pipe					
Open Hole	8 3/4			4,462	

## Cement Data

**Spacer**      10\30\10 Bbls H2O\Chemwash\H2O

**Cement 1 Additives**      50/50"V"Poz      1,600 Sacks  
 2%Gel-1/10%FDPC-766-05-2/10%Versaset

Weight (lb/gal) **13.00**      Yield (cuft/sk) **1.45**      Water (gal/sk) **6.80**

**Cement 3 Additives**      50/50"V"Poz      305 Sacks  
 2%Gel-1/10%FDPC-766-05-2/10%Versaset

Weight (lb/gal) **13.50**      Yield (cuft/sk) **1.45**      Water (gal/sk) **6.80**

**Cement 4 Additives**      Type"G"      100 Sacks  
 2%C.C

Weight (lb/gal) **15.60**      Yield (cuft/sk) **1.18**      Water (gal/sk) **5.20**

**Displacement**      H2O 8.33 lb/gal      279      Bbls

## Cement Equipment

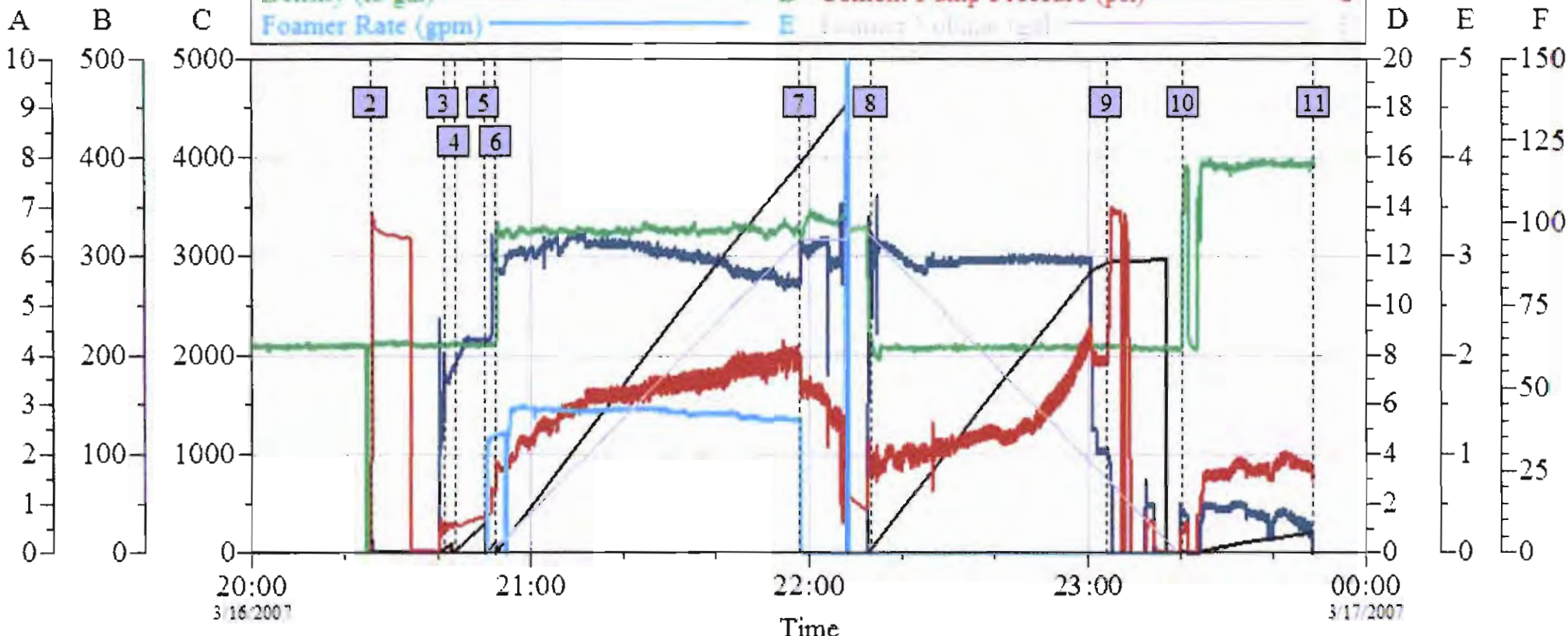
<b>Provider</b>	<b>HES</b>			
<b>Guide Shoe</b>	<b>1</b>	ea.	<b>Centralizers</b>	<b>3</b> ea.
<b>Float Shoe</b>		ea.	<b>Plug Type</b>	ea.
<b>Float Collar</b>		ea.	<b>Packer</b>	fl.
<b>DV Tool</b>		fl.	<b>Retainer</b>	fl.





# SC-11 Fluids Plot

Cement Pump Rate (bpm) — A    Cement Volume (bbl) — B  
 Density (lb gal) — D    Cement Pump Pressure (psi) — C  
 Foamer Rate (gpm) — E



Global Event Log							
Intersection		UPPP	Intersection		UPPP		
2	Pressure Test	3/16/2007 20:25:52	1330	3	Fresh Water	3/16/2007 20:41:12	267.0
4	Chem Wash	3/16/2007 20:43:36	322.6	5	Fresh Water	3/16/2007 20:49:56	365.8
6	Lead Cement	3/16/2007 20:52:34	884.2	7	Tail Cement	3/16/2007 21:58:06	1964
8	Displacement	3/16/2007 22:13:10	769.6	9	Bump Plug	3/16/2007 23:03:53	1967
10	Cap	3/16/2007 23:20:32	229.9	11	Ending Job	3/16/2007 23:48:30	781.5

Customer: Kinder Morgan  
 Well Description: McElmo Dome SC-11

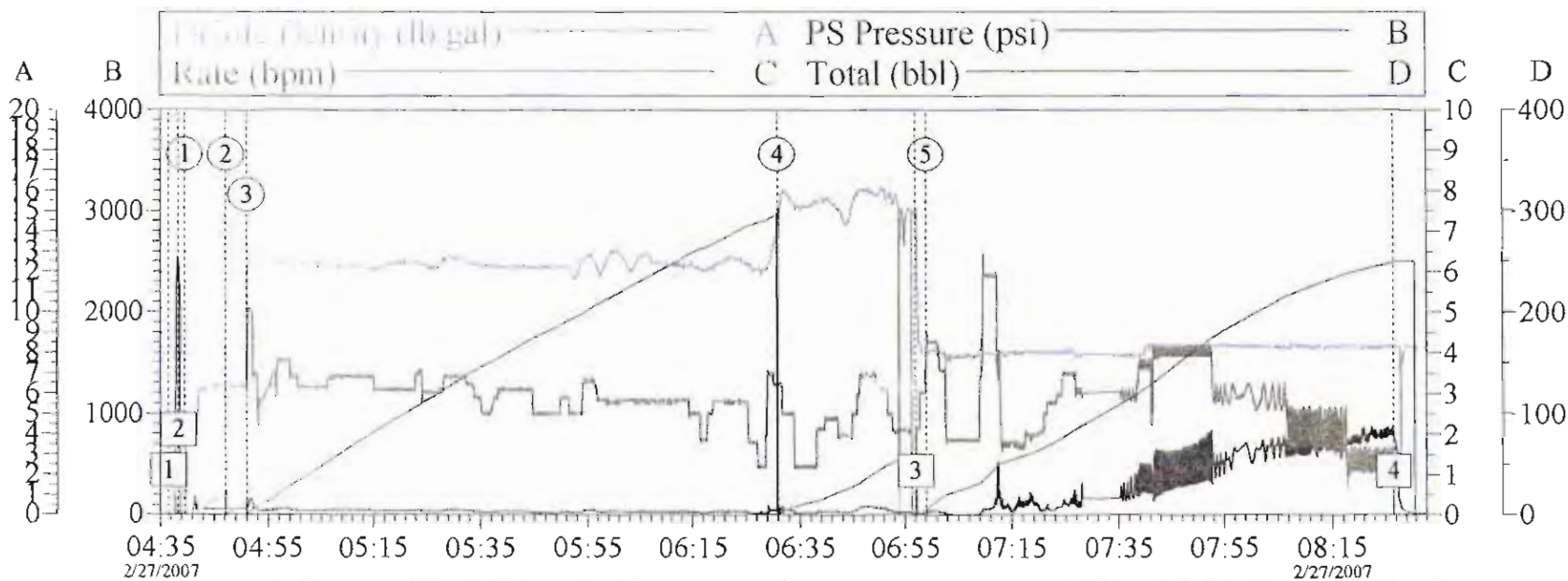
Job Date: 16-Mar-2007  
 UWI:

Sales Order #: 4978688

# KINDER MORGAN

## 9 5/8" SURFACE

4923798



Stages		
	Intersection	PP
①	Pump Spacer 1	04:39:37 -4.892
②	Pump Spacer 2	04:47:14 51.85
③	Pump Lead Cement	04:50:59 52.83
④	Pump Tail Cement	06:30:55 59.68
⑤	Pump Displacement	06:59:08 27.94

Event Log		
	Intersection	PP
①	Start Job	04:36:36 -4.892
②	Test Lines	04:38:27 2500
③	drop top plug	06:57:05 12.72
④	End Job	08:26:37 822.1

Customer: Well Desc:	Job Date: Job Type:	Ticket #:
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# Cementing Calculations for Surface Pipe and Production Strings

## Well Information

Hole Size	12 1/4
TD	3263
Casing Size	9 5/8
Casing Depth	3255
Casing Weight	36
Shoe Joint Length	43
Float Collar @	3212
Wellbore Fluid	9
Spacer/Flush	8.4
Displacement Fluid	8.4
Desired TOC	0

— SURFACE

## Redbook Information

	lin. ft./bbl	bbls/lin. ft	lin. ft./cuft	cuft/lin. ft
V&H; Casing&Hole	17.9272	0.0558	3.193	0.3132
Casing Capacity	12.93	0.0773	2.304	0.434
Buoyancy Factor	0.8727			
<b>Cement Fill Volumes</b>				
Tail Cement	bbls			
Shoe Joint	3.32		32.3#	
Annulus Cement	57.62		12.71	0.0787
			36#	
			12.93	0.0773

## Cement/Slurry Information

	Tail Cement	Lead Cement 1	Lead Cement 2
Density (lb/gal)	15.60	12.40	0.00
Yield (cuft/sk)	1.18	1.96	0.00
Water Req. (gal/sk)	5.20	10.33	0.00
Spacer/Flush (bbls)		30.00	0.00
Initial Sacks	290.00	880.00	0.00
Calculated cu.ft.	342.20	1724.80	0.00
% Excess	0.00	0.00	0.00
Total cu.ft.	342.20	1724.80	0.00
Water Req. (bbls)	35.90	216.44	0.00
Sacks Required	290.00	880.00	0.00
Barrels of Slurry	60.95	307.19	0.00
Lineal Feet	1033.00	5507.00	0.00
Excess BBLs		182.86	0.00
Top of Cement	2230.00	0.00	0.00
Spacer/Flush (ft)		0.00	0.00

### Calculated Values

Displacement	248.29	bbls
PSI to Land Plug	407.09	psi
Top of Cement		
Tail	2230.00	ft
Lead 1	0	ft
Lead 2	0	ft
Cement Excess	182.86	bbls
PSI to Lift Pipe	1405.485	psi

NOTE! The lineal feet of Spacer/Flush is on TOC & not pumped out of the annulus

## Differential Pressure

	Depth	Hydrostatic	Feet	Hydrostatic PSI	Differential PSI
Well Fluid	9	0.4678			
Disp. Fluid	8.4	0.4366	3212.00	1402.49	
Tail Cement	15.6	0.8109	459.00	372.20	
Lead Cement 1	12.4	0.6446	2230.00	1437.38	
Lead Cement 2	0	0.0000	0.00	0.00	
Spacer/Flush	8.4	0.4366	0.00	0.00	
Total				1809.58	407.09

## Displacement in bbls

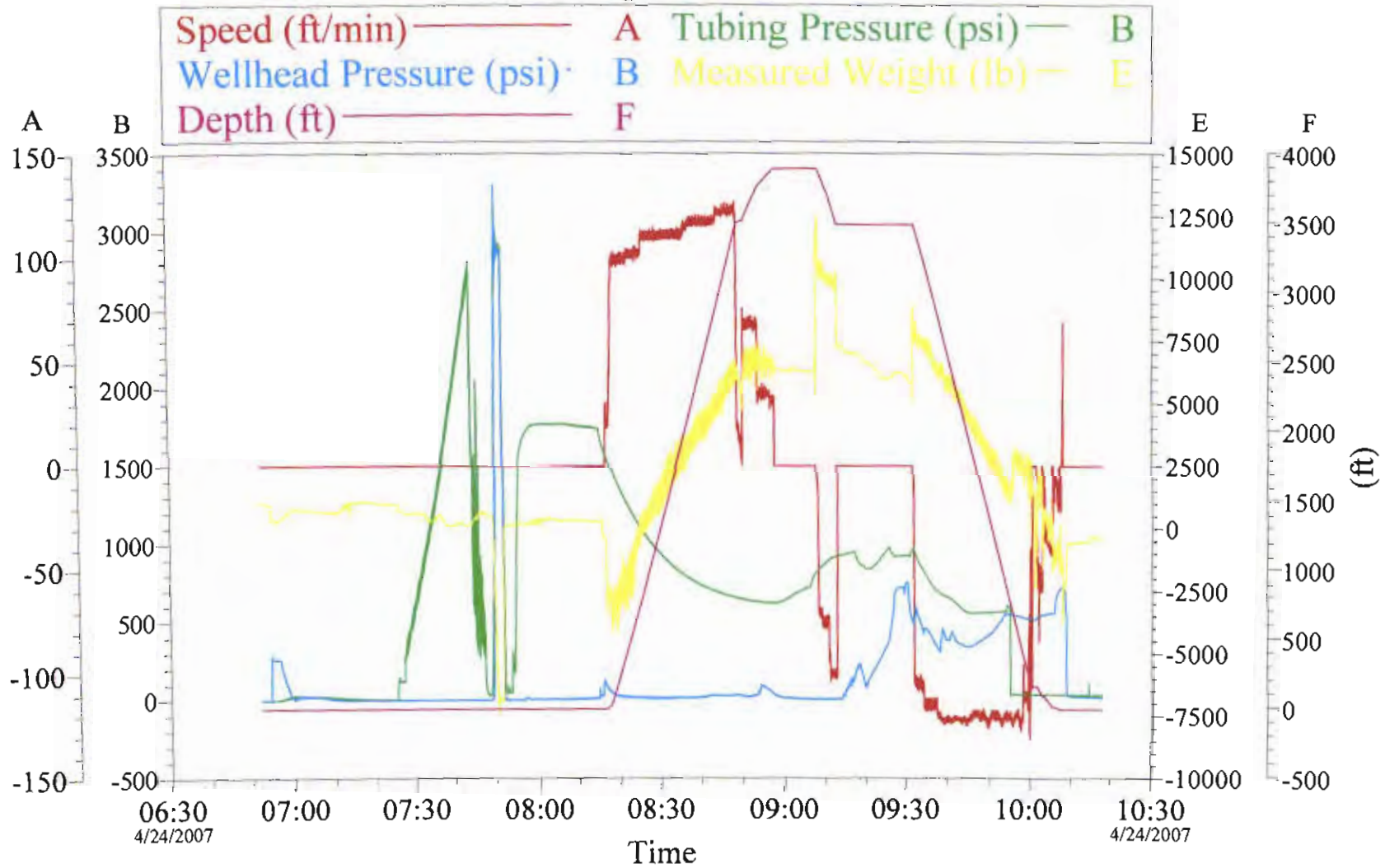
248.29

## Absolute Volume

Tail	2519.43	gals
Lead 1	12902.37	gals
Lead 2	0.00	gals

Customer **KINDER MORGAN**  
 Well Name **McELMO DOME**  
 Lease **SC #11**  
 County **MONTEZUMA**  
 Ticket # **4923798**  
 Date **February 27, 2007**  
 Cementer **Donny Dobbs**

# Strip Chart



Customer: Kinder Morgan  
Well Desc: Well #SC #11

Job Date: 4-24-07  
Job Type:

Ticket #: 5058071

CTWin v1.6.2  
24-Apr-07 10:29

# Halliburton

## Water Analysis Report

Company: KinderMorgan

Date: 3/16/2007

Submitted by: Brian Lockett 361233

Date Rec.: 3/16/2007

Attention: \_\_\_\_\_

S.O.# 4978688

Lease McElmo Dome

Job Type: 7 Intermediate

Well # SC#11

Specific Gravity	<i>MAX</i>	1
pH	<i>6-8</i>	7
Potassium (K)	<i>5000</i>	Mg / L
Calcium (Ca)	<i>500</i>	Mg / L
Iron (FE2)	<i>300</i>	Mg / L
Chlorides (Cl)	<i>6000</i>	Mg / L
Sulfates (SO <sub>4</sub> )		Mg / L
H2O TEMP		DEGREES F
Total Dissolved Solids		Mg / L

Respectfully: Brian Lockett 361233

Title: CEMENTING SUPERVISOR

Location: FARMINGTON, NM

**NOTICE:**

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use