
ANTERO RESOURCES

**VALLEY FARMS I12
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing **30-Sep-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 337854	Ship To #: 2880641	Quote #:	Sales Order #: 8496724
Customer: ANTERO RESOURCES		Customer Rep: OAKS, BEAUDE	
Well Name: VALLEY FARMS	Well #: 112	API/UWI #: 05-045-19493	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.527 deg. OR N 39 deg. 31 min. 35.962 secs.	Long: W 107.618 deg. OR W -108 deg. 22 min. 53.476 secs.		
Contractor: Craigs Roustabout Service, Inc.	Rig/Platform Name/Num: Craigs #2		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: METLI, MARSHALL	Srv Supervisor: MUHLESTEIN, RYAN	MBU ID Emp #: 453609	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	3	396848	DEUSSEN, EDWARD Eric	3	485182	HAYES, JESSE Doug	3	403601
MUHLESTEIN, RYAN Herrick	3	453609	PETERSON, JEFFERY B	3	498022			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10205677	60 mile	10784053	60 mile	10867094	60 mile	10897925	60 mile
10951245	60 mile	11360871	60 mile	11542767	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/29/11	2	2	9/30/11	1	1			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	29 - Sep - 2011	17:00	MST
Form Type	BHST		Job Started	29 - Sep - 2011	22:00	MST
Job depth MD	1055. ft	Job Depth TVD	Job Started	30 - Sep - 2011	23:08	MST
Water Depth		Wk Ht Above Floor	Job Completed	30 - Sep - 2011	00:33	MST
Perforation Depth (MD)	From	To	Departed Loc	30 - Sep - 2011	01:00	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
12 1/4" Open Hole				12.25				.	1055.		
8 5/8" Surface Casing	New		8.625	7.825	36.		J-55	.	1005.5		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	8.625	1	HES
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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer		20.00	bbl	8.34	.0	.0	3.0		
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	180.0	sacks	12.3	2.38	13.77	5.0	13.77	
	13.77 Gal	FRESH WATER								
3	SwiftCem Tail Cement	SWIFTCES (TM) SYSTEM (452990)	205.0	sacks	14.2	1.43	6.85	5.0	6.85	
	6.85 Gal	FRESH WATER								
4	Displacement		59.00	bbl	8.34	.0	.0	30		
Calculated Values		Pressures		Volumes						
Displacement	58.8	Shut In: Instant		Lost Returns	0	Cement Slurry		Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	23.8	Actual Displacement	58.8	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	207	
Rates										
Circulating		Mixing	5	Displacement	3	Avg. Job	4			
Cement Left In Pipe	Amount	40.5 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						

The Road to Excellence Starts with Safety

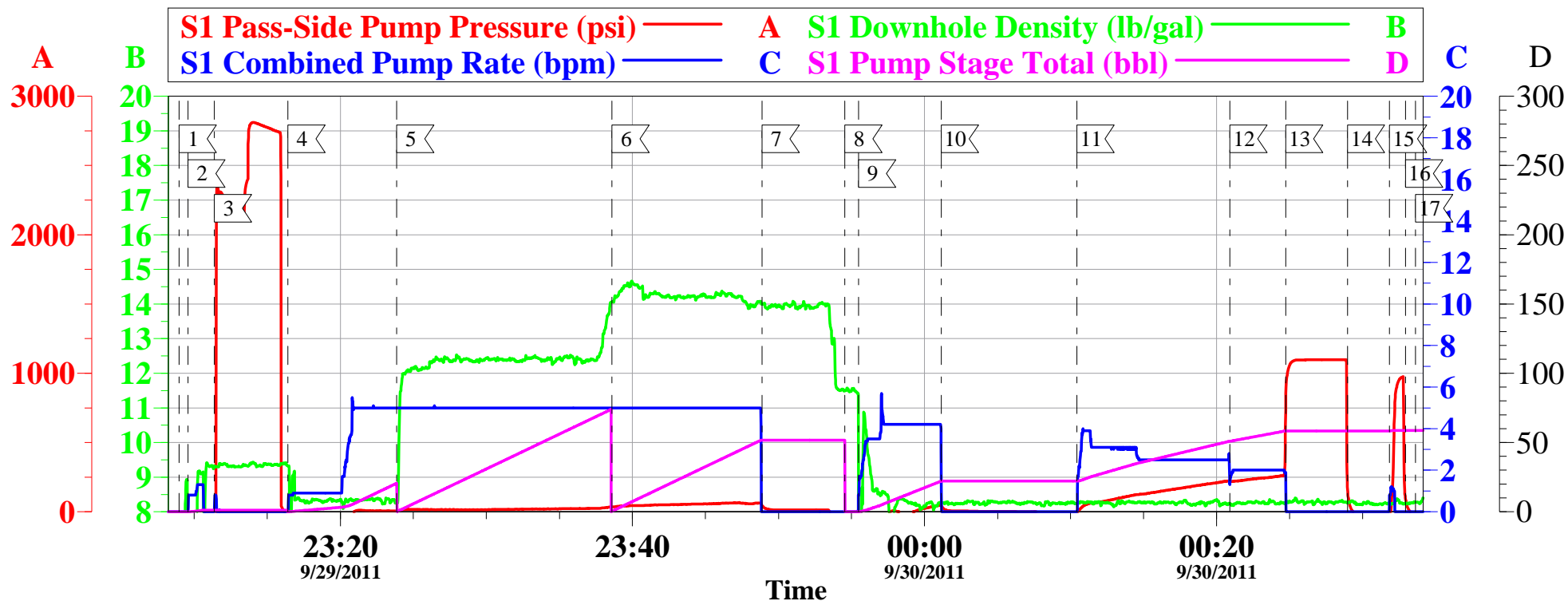
Sold To #: 337854	Ship To #: 2880641	Quote #:	Sales Order #: 8496724
Customer: ANTERO RESOURCES		Customer Rep: OAKS, BEAUDE	
Well Name: VALLEY FARMS		Well #: I12	API/UWI #: 05-045-19493
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.527 deg. OR N 39 deg. 31 min. 35.962 secs.		Long: W 107.618 deg. OR W -108 deg. 22 min. 53.476 secs.	
Contractor: Craigs Roustabout Service, Inc.		Rig/Platform Name/Num: Craigs #2	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srv Supervisor: MUHLESTEIN, RYAN	MBU ID Emp #: 453609

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/29/2011 17:00							
Pre-Convoy Safety Meeting	09/29/2011 19:00							WITH ALL HES PERSONNEL
Arrive at Location from Service Center	09/29/2011 22:00							
Assessment Of Location Safety Meeting	09/29/2011 22:10							WITH ALL HES PERSONNEL
Pre-Rig Up Safety Meeting	09/29/2011 22:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	09/29/2011 22:30							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	09/29/2011 22:55							WITH ALL PERSONNEL ON LOCATION
Start Job	09/29/2011 23:08							TD 1055', TP 1005.5', SJ 40.5', FC 965, 8 5/8" 32# CASING, 12 1/4" AIR DRILLED HOLE
Pump Water	09/29/2011 23:09		1	1			.0	FILL LINES
Test Lines	09/29/2011 23:11							HELD PRESSURE FOR 2 MIN, NO LEAKS
Pump Spacer 1	09/29/2011 23:16		3	20			15.0	PUMP FRESH WATER AT 2 BPM UNTIL TUB WEIGHED UP, THEN INCREASED RATE TO 5 BPM, AT 5 BBLS AWAY
Pump Lead Cement	09/29/2011 23:23		5	76.3			20.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	09/29/2011 23:38		5	52.2			50.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK, RETURNS AT 41 BBLS AWAY
Shutdown	09/29/2011 23:48							WASH UP ON TOP OF PLUG
Drop Top Plug	09/29/2011 23:54							REMOVE SWAGE TO LAUNCH PLUG
Pump Displacement	09/29/2011 23:55		5	58.8			221.0	FRESH WATER, CEMENT RETURNS TO SURFACE AT 35 BBLS AWAY ON DISPLACEMENT, 23.8 BBLS CEMENT TO SURFACE
Shutdown	09/30/2011 00:01							SHUT DOWN FOR VAC TRUCK
Resume	09/30/2011 00:10							RESUME DISPLACEMENT
Slow Rate	09/30/2011 00:21		2	49			235.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/30/2011 00:24		2	58.8			1098.0	PLUG BUMPED PLUG AT 270 PSI
Check Floats	09/30/2011 00:28							FLOATS DID NOT HOLD FULLY, THERE WAS A STEADY TRICKLE COMING BACK.
Bump Plug	09/30/2011 00:31						985.0	RE BUMP PLUG TO 985 PSI
Check Floats	09/30/2011 00:32							FLOAT HELD 1 BBL BACK TO TRUCK
End Job	09/30/2011 00:33							GOOD RETURNS THROUGHOUT DISPALCEMENT, 40 LBS SUGAR USED.
Pre-Rig Down Safety Meeting	09/30/2011 00:35							WITH ALL HES PERSONNEL
Rig-Down Equipment	09/30/2011 00:45							
Comment	09/30/2011 01:00							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. RYAN MUHLESTEIN AND CREW

ANTERO RESOURCES

VALLEY FARMS I-12 8 5/8" SURFACE CASING



Local Event Log

1	START JOB	9/29/2011 23:08:58	2	PRIME LINES	9/29/2011 23:09:34
3	PRESSURE TEST	9/29/2011 23:11:23	4	PUMP H2O SPACER	9/29/2011 23:16:25
5	LEAD CMT	9/29/2011 23:23:52	6	TAIL CMT	9/29/2011 23:38:36
7	SHUT DOWN	9/29/2011 23:48:53	8	DROP PLUG	9/29/2011 23:54:33
9	PUMP DISPLACEMENT	9/29/2011 23:55:29	10	SHUT DOWN	9/30/2011 00:01:09
11	RESUME DISPLACEMENT	9/30/2011 00:10:26	12	SLOW RATE	9/30/2011 00:20:55
13	BUMP PLUG	9/30/2011 00:24:43	14	CHECK FLOATS	9/30/2011 00:28:58
15	BUMP PLUG	9/30/2011 00:31:50	16	CHECK FLOATS	9/30/2011 00:32:56
17	END JOB	9/30/2011 00:33:37			

Customer: ANTERO RESOURCES
Well Description: VALLEY FARMS I-12
Customer Rep: BEAUDE OAKS

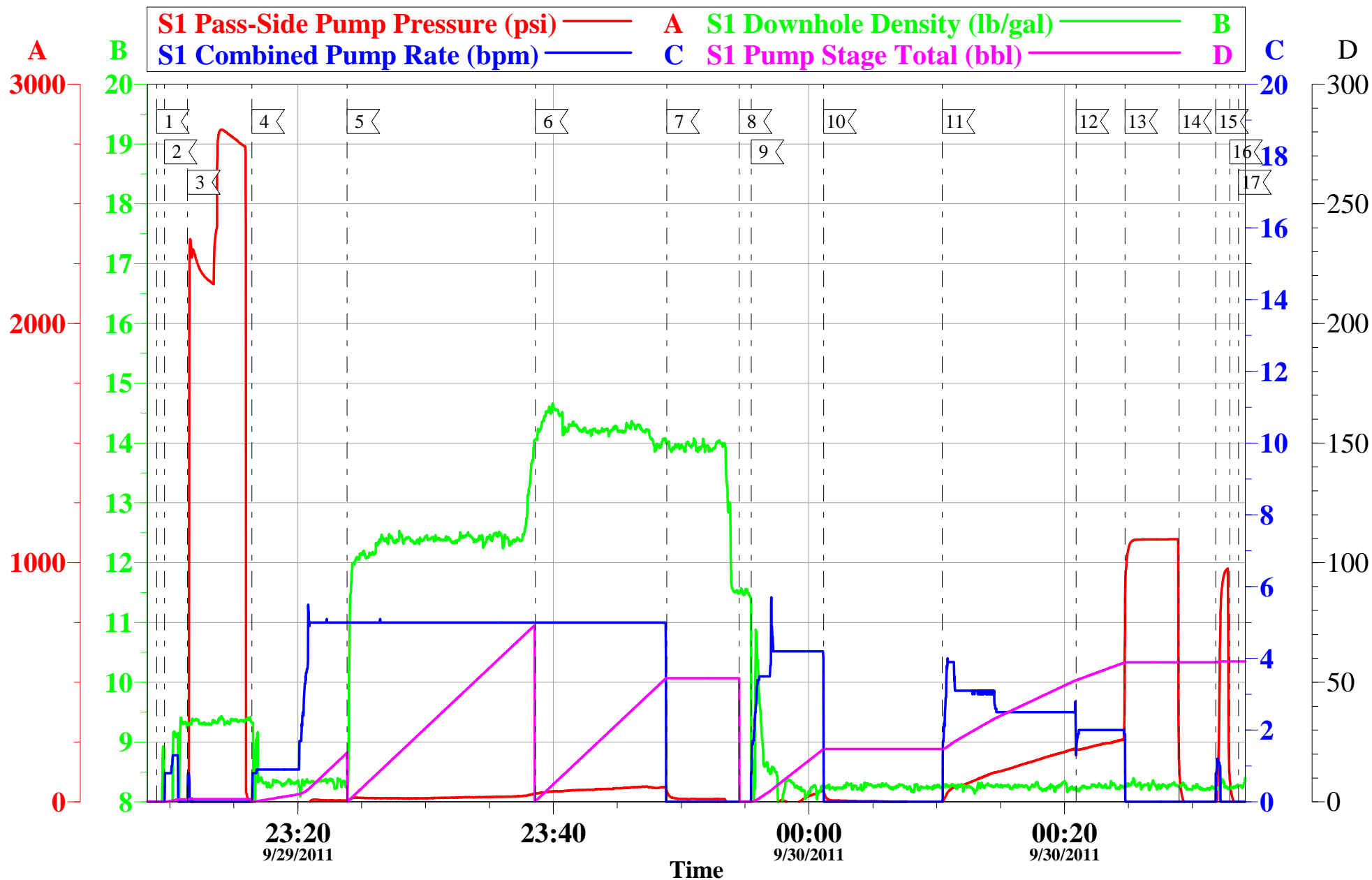
Job Date: 29-Sep-2011
Job type: SURFACE
Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8496724
ADC Used: YES
Operator/ Pump: ED DEUSSEN/ ELITE 1

OptiCem v6.4.10
30-Sep-11 00:52

ANTERO RESOURCES

VALLEY FARMS I-12 8 5/8" SURFACE CASING



Customer: ANTERO RESOURCES
 Well Description: VALLEY FARMS I-12
 Customer Rep: BEAUDE OAKS

Job Date: 29-Sep-2011
 Job type: SURFACE
 Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8496724
 ADC Used: YES
 Operator/ Pump: ED DEUSSEN/ ELITE 1

OptiCem v6.4.10
 30-Sep-11 00:36

Sales Order #: 8496724	Line Item: 10	Survey Conducted Date: 9/30/2011
Customer: ANTERO RESOURCES		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19493
Well Name: VALLEY FARMS		Well Number: 112
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	9/30/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN MUHLESTEIN (HB21105)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BEAUDE OAKS
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE

Sales Order #: 8496724	Line Item: 10	Survey Conducted Date: 9/30/2011
Customer: ANTERO RESOURCES		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19493
Well Name: VALLEY FARMS		Well Number: 112
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	9/30/2011

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8496724	Line Item: 10	Survey Conducted Date: 9/30/2011
Customer: ANTERO RESOURCES		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19493
Well Name: VALLEY FARMS		Well Number: 112
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	98
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0