
ANTERO RESOURCES

**VALLEY FARMS I7
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing **28-Sep-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 337854	Ship To #: 2880598	Quote #:	Sales Order #: 8496718
Customer: ANTERO RESOURCES		Customer Rep: Oaks, Beade	
Well Name: VALLEY FARMS	Well #: 17	API/UWI #: 05-045-19590	
Field: MAMM CREEK	City (SAP): silt	County/Parish: Garfield	State: Colorado
Lat: N 39.527 deg. OR N 39 deg. 31 min. 36.08 secs.		Long: W 107.619 deg. OR W -108 deg. 22 min. 52.864 secs.	
Contractor: CRAIGS ROUSTABOUT	Rig/Platform Name/Num: Craigs #2		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL	Srvc Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARDRICK, RAYMOND Frank	4	391324	STILLSON, ERIC W	4	393789	TRIPLETT, MICHEAL Anthony	4	447908
WEAVER, CARLTON Russell	4	457698						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248057	60 mile	10567589C	60 mile	10592964	60 mile	10744549	60 mile
10995027	60 mile	11259885	60 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/28/2011	4	1						

TOTAL	Total is the sum of each column separately							
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Job

Formation Name						Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	28 - Sep - 2011	06:00	MST
Form Type			BHST		On Location	28 - Sep - 2011	10:00	MST
Job depth MD	1060. ft		Job Depth TVD	1060. ft	Job Started	28 - Sep - 2011	11:58	MST
Water Depth			Wk Ht Above Floor	3. ft	Job Completed	28 - Sep - 2011	13:01	MST
Perforation Depth (MD)	From		To		Departed Loc	28 - Sep - 2011	14:00	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
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Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
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			
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	4.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.3	2.38	13.77	6.0	13.77
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	205.0	sacks	14.2	1.43	6.88	6.0	6.88
	6.88 Gal	FRESH WATER							
4	Displacement		60.00	bbl	8.33	.0	.0	6.0	
Calculated Values		Pressures		Volumes					
Displacement	60.5	Shut In: Instant		Lost Returns	0	Cement Slurry	124	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	8	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	205
Rates									
Circulating	0	Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	40.45 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

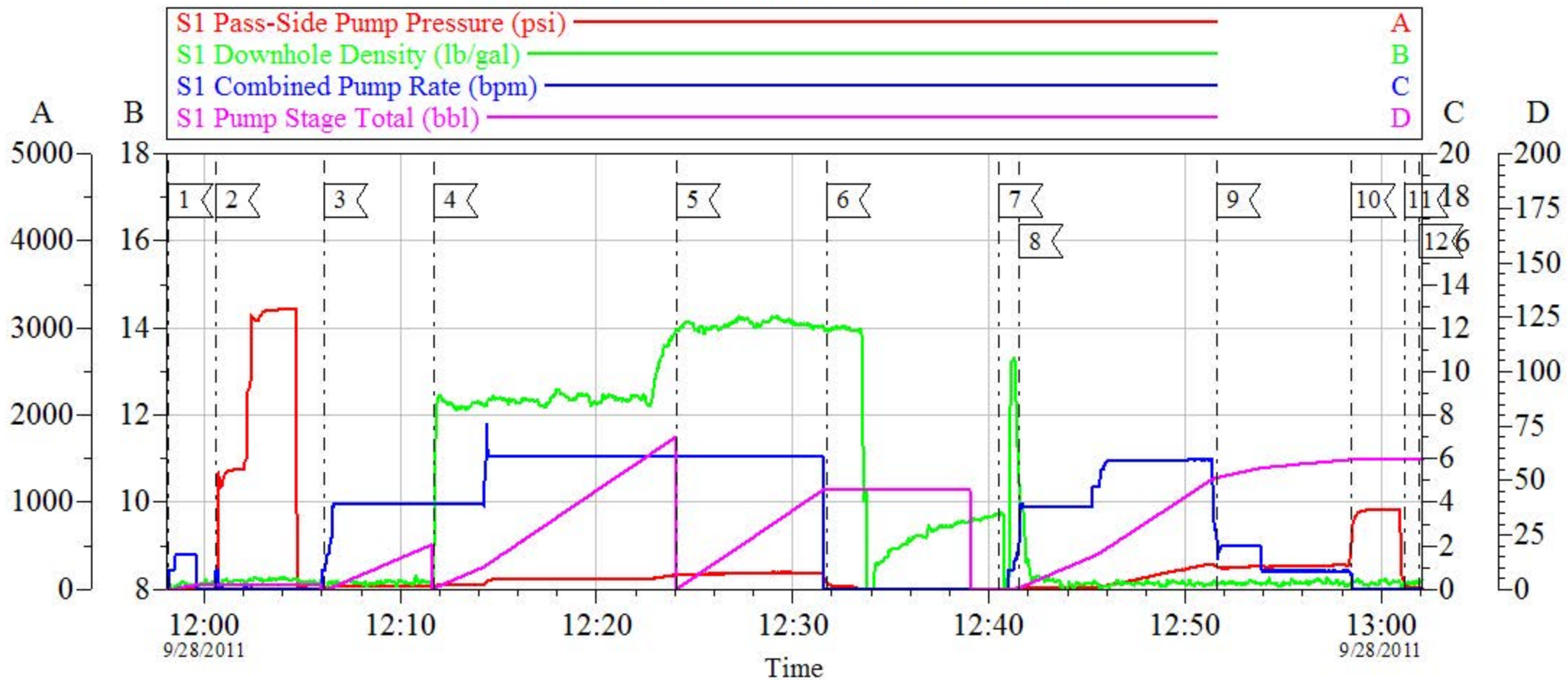
The Road to Excellence Starts with Safety

Sold To #: 337854		Ship To #: 2880598		Quote #:		Sales Order #: 8496718	
Customer: ANTERO RESOURCES				Customer Rep: Oaks, Beade			
Well Name: VALLEY FARMS			Well #: I7			API/UWI #: 05-045-19590	
Field: MAMM CREEK		City (SAP): silt		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.527 deg. OR N 39 deg. 31 min. 36.08 secs.				Long: W 107.619 deg. OR W -108 deg. 22 min. 52.864 secs.			
Contractor: CRAIGS ROUSTABOUT			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			Srvc Supervisor: TRIPLETT, MICHEAL			MBU ID Emp #: 447908	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/28/2011 06:00							
Pre-Convoy Safety Meeting	09/28/2011 07:55							
Crew Leave Yard	09/28/2011 08:00							
Arrive At Loc	09/28/2011 10:00							RIG WAS JUST GETTING DONE.
Assessment Of Location Safety Meeting	09/28/2011 10:05							
Other	09/28/2011 10:15							SPOT EQUIPMENT, 1 RCM PUMP TRUCK, 1 660, 1 BODY LOAD
Pre-Rig Up Safety Meeting	09/28/2011 10:25							
Rig-Up Equipment	09/28/2011 10:30							
Pre-Job Safety Meeting	09/28/2011 11:45							GO OVER JOB PROCEDURES AND SAFETY INFORMATION.
Start Job	09/28/2011 11:58							TD:1060', TP: 1034.71', SJ:40.65', MW:8.34 PPG, CASING: 8.625 32#, OH: 12.5", OFFLINE CEMENT JOB
Test Lines	09/28/2011 12:00						3000.0	PRESSURE TEST PUMPS AND LINES. STARTED AT PSI AND ENDED AT PSI. LOST PSI IN TWO MINUTES.
Pump Spacer	09/28/2011 12:06		4	20			71.0	FRESH WATER
Pump Lead Cement	09/28/2011 12:11		6	72.1			205.0	170 SACKS MIXED @ 12.3 PPG, 2.38 YIELD, 13.77 GALS/SACK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	09/28/2011 12:11		6	52.2			140.0	205 SACKS MIXED @ 14.2, 1.43 YIELD, 6.88 GAL/SACK
Shutdown	09/28/2011 12:31							
Drop Top Plug	09/28/2011 12:40							
Pump Displacement	09/28/2011 12:41		6	60.5			300.0	FRESHWATER
Slow Rate	09/28/2011 12:51		2	50.5			278.0	SLOWED RATE LAST 10BBLs OF DISPLACEMENT
Bump Plug	09/28/2011 12:58			60.5			300.0	BUMP PLUG AND WENT 600PSI OVER TO 920PSI
Check Floats	09/28/2011 13:01							FLOATS HELD
End Job	09/28/2011 13:02							OFF LINE CEMENT JOB. NO CIRCULATION AT BEGINNING OF JOB, GOT CIRCULATION WITH 45 BBLs OF TAIL CEMENT GONE. GOT CEMENT BACK WITH 52 BBLs OF DISPLACEMENT AWAY. GOT 8 BBLs OF CEMENT TO SURFACE. NO SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	09/28/2011 13:05							
Rig-Down Equipment	09/28/2011 13:10							
Pre-Convoy Safety Meeting	09/28/2011 13:55							
Crew Leave Location	09/28/2011 14:00							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

ANTERO SURFACE VALLEY FARMS I7



Local Event Log

1 START JOB	11:58:12	2 PRESSURE TEST	12:00:36
3 START FRESHWATER SPACER	12:06:06	4 START LEAD CEMENT	12:11:42
5 START TAIL CEMENT	12:24:04	6 SHUTDOWN	12:31:43
7 DROP PLUG	12:40:30	8 START DISPALCEMENT	12:41:32
9 SLOWRATE	12:51:36	10 BUMP PLUG	12:58:29
11 CHECK FLOATS	13:01:10	12 END JOB	13:01:56

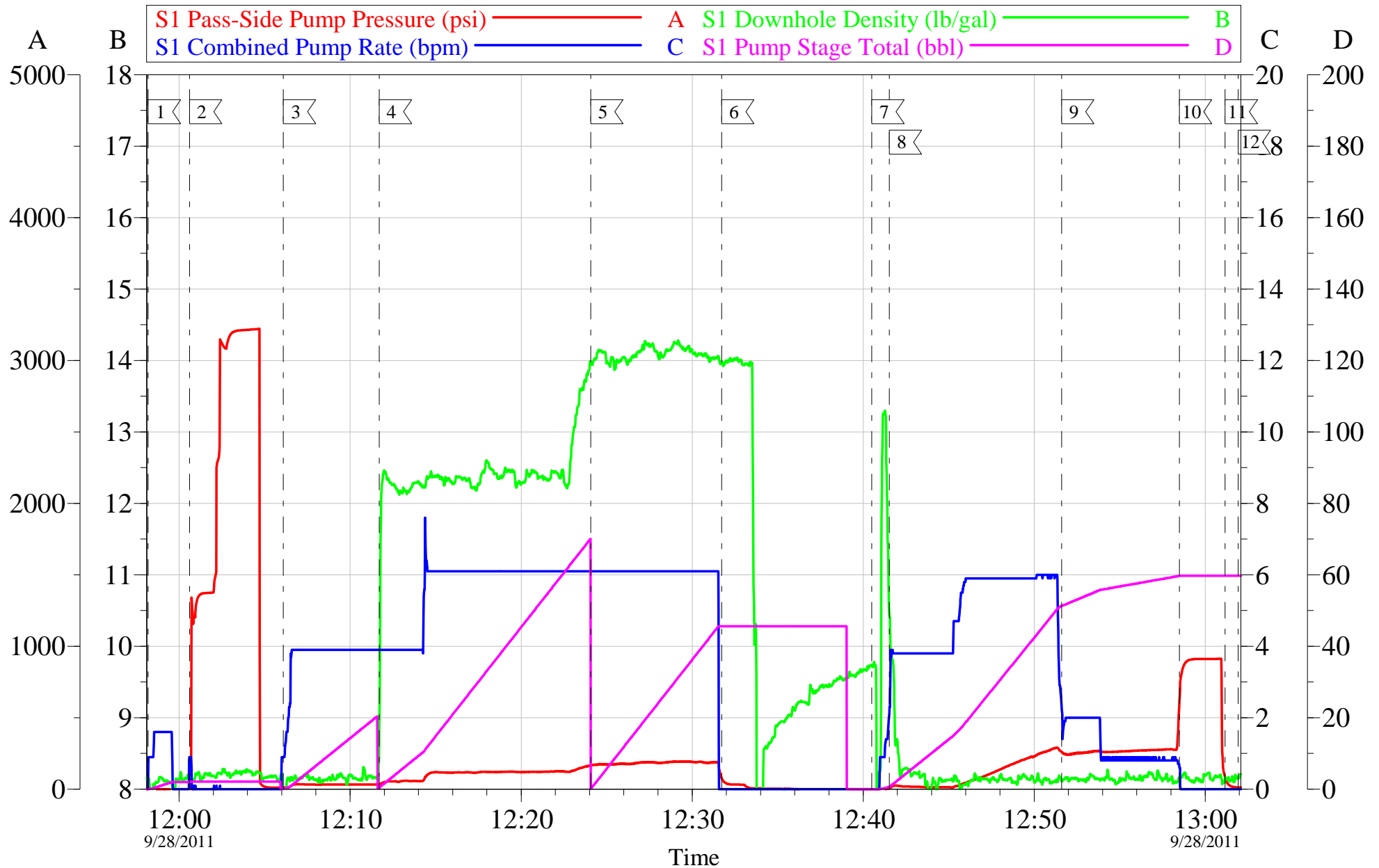
Customer: ANTERO
Well Description: VALLEY FARMS I7
ADC USED: YES

Job Date: 28-Sep-2011
JOB TYPE: SURFACE
SERVICE SUPERVISOR: MIKE TRIPLETT

Sales Order #: 8496718
COMPANY REP: BEAUDE OAKS
ELITE/OPERATER 3/ RUSTY WEAVER

OptiCem v6.4.9
28-Sep-11 13:10

ANTERO SURFACE VALLEY FARMS I7



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Well Description: VALLEY FARMS I7
ADC USED: YES

Job Date: 28-Sep-2011
JOB TYPE: SURFACE
SERVICE SUPERVISOR: MIKE TRIPLETT

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COMPANY REP: BEAUDE OAKS
ELITE/OPERATOR 3/ RUSTY WEAVER

OptiCem v6.4.9
28-Sep-11 13:11

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: MIKE TRIPLETT

Attention: LAB

Lease VALLEY FARMS

Well # I7

Date: 12/21/2010

Date Rec.: 9/28/2011

S.O.# 8496718

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	100 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	-200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	65 Deg
Total Dissolved Solids		100 Mg / L

Respectfully: MIKE TRIPLETT

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

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

Sales Order #: 8496718	Line Item: 10	Survey Conducted Date: 9/28/2011
Customer: ANTERO RESOURCES		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19590
Well Name: VALLEY FARMS		Well Number: I7
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	9/28/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHEAL TRIPLETT (HB15721)
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 #: 8496718	Line Item: 10	Survey Conducted Date: 9/28/2011
Customer: ANTERO RESOURCES		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19590
Well Name: VALLEY FARMS		Well Number: I7
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	9/28/2011

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	7
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

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Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-19590
Well Name: VALLEY FARMS		Well Number: I7
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	95
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	95
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