
ANTERO RESOURCES

**CSF 43D-10-07-91
WILDCAT
Garfield County , Colorado**

**Cement Surface Casing
13-Sep-2010**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 337854	Ship To #: 2806784	Quote #:	Sales Order #: 7634702
Customer: ANTERO RESOURCES		Customer Rep: Honeycutt, Matt	
Well Name: CSF	Well #: 43D-10-07-91		API/UWI #: 05-045-19724
Field: WILDCAT	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.456 deg. OR N 39 deg. 27 min. 22.522 secs.		Long: W 107.536 deg. OR W -108 deg. 27 min. 50.656 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srvc Supervisor: MAGERS, MICHAEL	MBU ID Emp #: 339439

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GAMBLE, BENJAMIN T	3	446666	LOPEZ, GERALD	3	479828	LYNGSTAD, FREDRICK D	3	403742
MAGERS, MICHAEL Gerard	3	339439						

Equipment

HES Unit #	Distance-1 way						
10744648C	120 mile	10784080	120 mile	10804579	120 mile	10998508	120 mile
11259886	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/13/2010	3	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	13 - Sep - 2010	11:20	MST
Form Type	BHST		Job Started	13 - Sep - 2010	13:21	MST
Job depth MD	1160. ft	Job Depth TVD	1160. ft	Job Completed	13 - Sep - 2010	14:27
Water Depth		Wk Ht Above Floor	1. ft	Departed Loc	13 - Sep - 2010	15:30
Perforation Depth (MD)	From	To				

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Sales/Rental/3rd Party (HES)											

Description	Qty	Qty uom	Depth	Supplier
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /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	8 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	NOT	USED	
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		10.00	bbl	.	.0	.0	.0	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	130.0	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	185.0	sacks	14.2	1.43	6.85		6.85
	6.85 Gal	FRESH WATER							
4	Displacement		64.00	bbl	.	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	64.6	Shut In: Instant		Lost Returns	0	Cement Slurry	102	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	64	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	177
Rates									
Circulating	NONE	Mixing	5	Displacement	5/1.5	Avg. Job			5
Cement Left In Pipe	Amount	45.52 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					

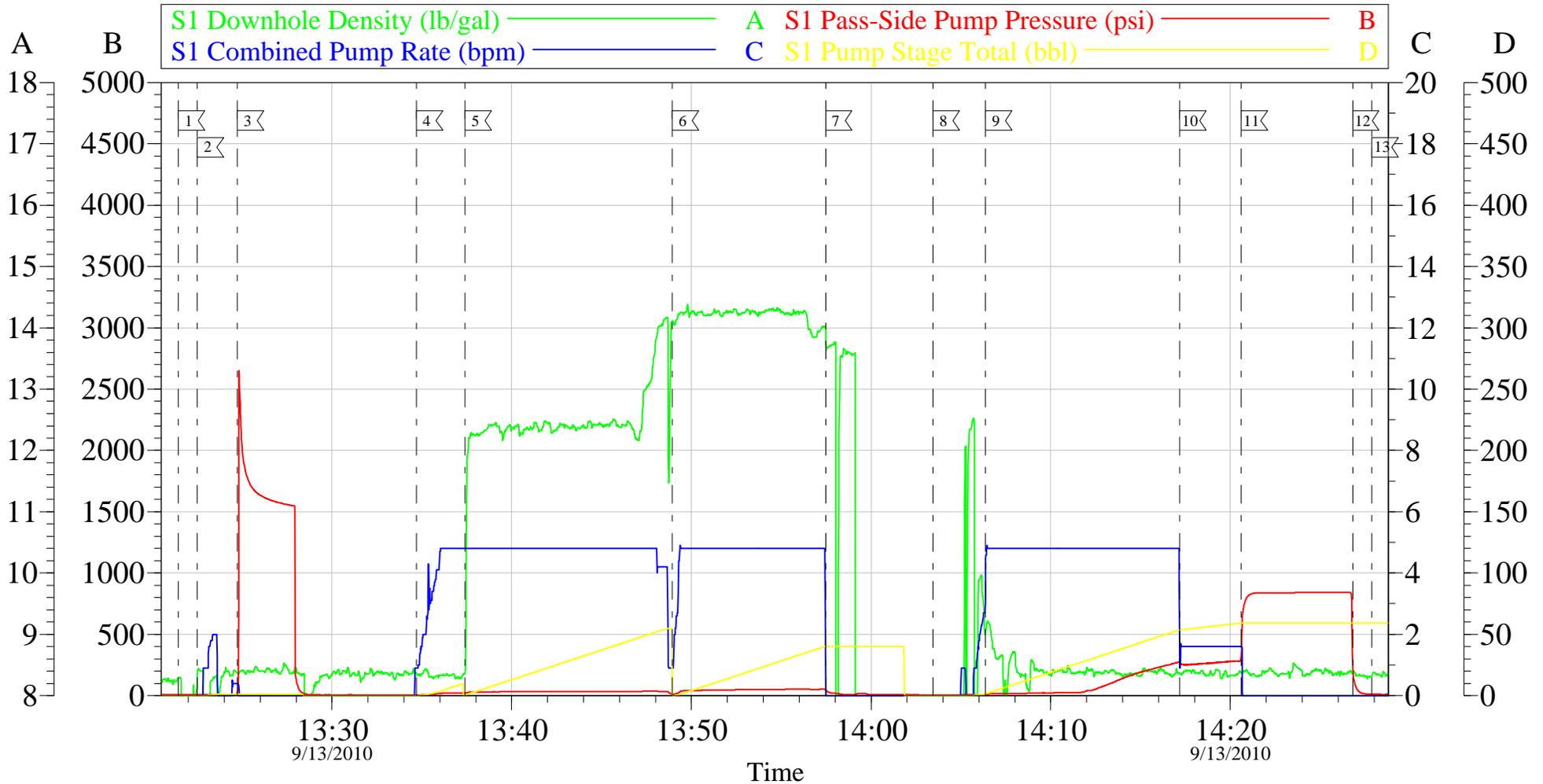
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Legal Description:			
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Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srvc Supervisor: MAGERS, MICHAEL	MBU ID Emp #: 339439

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Yard	09/13/2010 09:00							HES ALL PRESENT
Arrive At Loc	09/13/2010 11:20							WORKOVER STILL RUNNING CASING WHEN HES ARRIVED
Assessment Of Location Safety Meeting	09/13/2010 11:25							LOCATION IN GOOD CONDITION
Pre-Rig Up Safety Meeting	09/13/2010 12:30							
Rig-Up Equipment	09/13/2010 12:45							JSA ON RIGGING UP
Safety Huddle	09/13/2010 13:10							RIG CREW AND HES ALL PRESENT
Start Job	09/13/2010 13:21							TD-1160 TP-1106 SJ-45.52 MW-8.33 CASING- 8 5/8 32# H-40 OH- 12 1/4" SWAGE 8 5/8"
Other	09/13/2010 13:22		2	2			10.0	FILL LINES
Pressure Test	09/13/2010 13:24		0.5	0.5			1550.0	PSI TEST OK
Pump Spacer 1	09/13/2010 13:34		2	20			20.0	FRESH WATER
Pump Lead Cement	09/13/2010 13:37		5	55.1			30.0	130 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK
Pump Tail Cement	09/13/2010 13:48		5	47.1			50.0	185 SKS 14.2 PPG 1.43 FT3/SK 6.85 GAL/SK
Shutdown	09/13/2010 13:57							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	09/13/2010 14:03							PLUG PUT IN BY HAND/USED SWAGE/PLUG CONTAINER WAS NOT USED
Pump Displacement	09/13/2010 14:06		5	64.6			240.0	FRESH WATER
Slow Rate	09/13/2010 14:17		1.5	60			240.0	GOT SPACER BACK AT 44 BBLS INTO DISPLACEMENT/GOT 10 BBLS OF CEMENT TO SURFACE/GOT 1.5 BBLS BACK INTO DISPLACEMENT TANK
Bump Plug	09/13/2010 14:20		1.5	64.6			280.0	BUMPED PLUG
Check Floats	09/13/2010 14:26						800.0	FLOATS HELD
End Job	09/13/2010 14:27							THANKS FOR USING HES AND THE CREW OF MIKE MAGERS

ANTERO WORKOVER SURFACE



Local Event Log			
1 START JOB	13:21:27	2 FILL LINES	13:22:29
			3 PRESSURE TEST 13:24:43
4 PUMP SPACER	13:34:42	5 PUMP LEAD CEMENT	13:37:24
			6 PUMP TAIL CEMENT 13:48:56
7 SHUT DOWN	13:57:28	8 DROP PLUG	14:03:27
			9 PUMP FRSH WTR DISPLACEMENT 14:06:23
10 SLOW RATE	14:17:10	11 BUMP PLUG	14:20:35
			12 CHECK FLOATS 14:26:48
13 END JOB	14:27:52		

Customer: ANTERO WORKOVER	Job Date: 13-Sep-2010	Sales Order #: 7634702
Well Description: CSF 43D-10-07-91	Job Type: SURFACE	ADC Used: YES
Company Rep: MATT HONEYCUTT	Cement Supervisor: MIKE MAGERS	Elite #: 6 TRACY GAMBLE