
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-78A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
02-Jun-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2857362	Quote #:	Sales Order #: 8207305
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: COOMBS, HENRY	
Well Name: CC		Well #: 697-05-78A	API/UWI #: 05-045-18731
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.294 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.732 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: ROYSTER, JACOB		Srvc Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	17	436099	GOWEN, WESLEY M	17	496205	JENSEN, JESSE Robert	17	478774
SILVERTHORN, AARON Jacob	17	491305	WINKER, STEVEN	17	478776	YUTZY, BRIAN Matthew	17	478510

Equipment

HES Unit #	Distance-1 way						
10053558	120 mile	10783493	120 mile	10822007	120 mile	10938665	120 mile
10938677	120 mile	10951250	120 mile	10973565	120 mile	10988978	120 mile
11360871	120 mile	11542767	120 mile	6543	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6/1/2011	5	0	6/2/2011	10	6			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	01 - Jun - 2011	12:00 MST
Form Type BHST	On Location	01 - Jun - 2011	17:00 MST
Job depth MD 2725. ft Job Depth TVD 2725. ft	Job Started	02 - Jun - 2011	02:08 MST
Water Depth Wk Ht Above Floor 4. ft	Job Completed	02 - Jun - 2011	08:32 MST
Perforation Depth (MD) From To	Departed Loc	02 - Jun - 2011	10:00 MST

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
OPEN HOLE				14.75				.	2725.		
SURFACE CASING	Unknown		9.625	8.921	36.		H-40	.	2715.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 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	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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	8.33	.0	.0	6	
2	Gel Spacer		20.00	bbl	.	.0	.0	6	
3	Water Spacer		20.00	bbl	.	.0	.0	6	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	800.0	sacks	12.3	2.33	12.62	6	12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	150.0	sacks	12.8	2.07	10.67	6	10.67
	10.67 Gal	FRESH WATER							
6	Displacement		206.00	bbl	.	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	63	sacks	12.5	1.97	10.96	2	10.96
	10.96 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	206.1	Shut In: Instant		Lost Returns	202	Cement Slurry	491	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	88	Actual Displacement	206.1	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	825
Rates									
Circulating	5.9	Mixing		6	Displacement	6	Avg. Job		6
Cement Left In Pipe	Amount	48.2 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

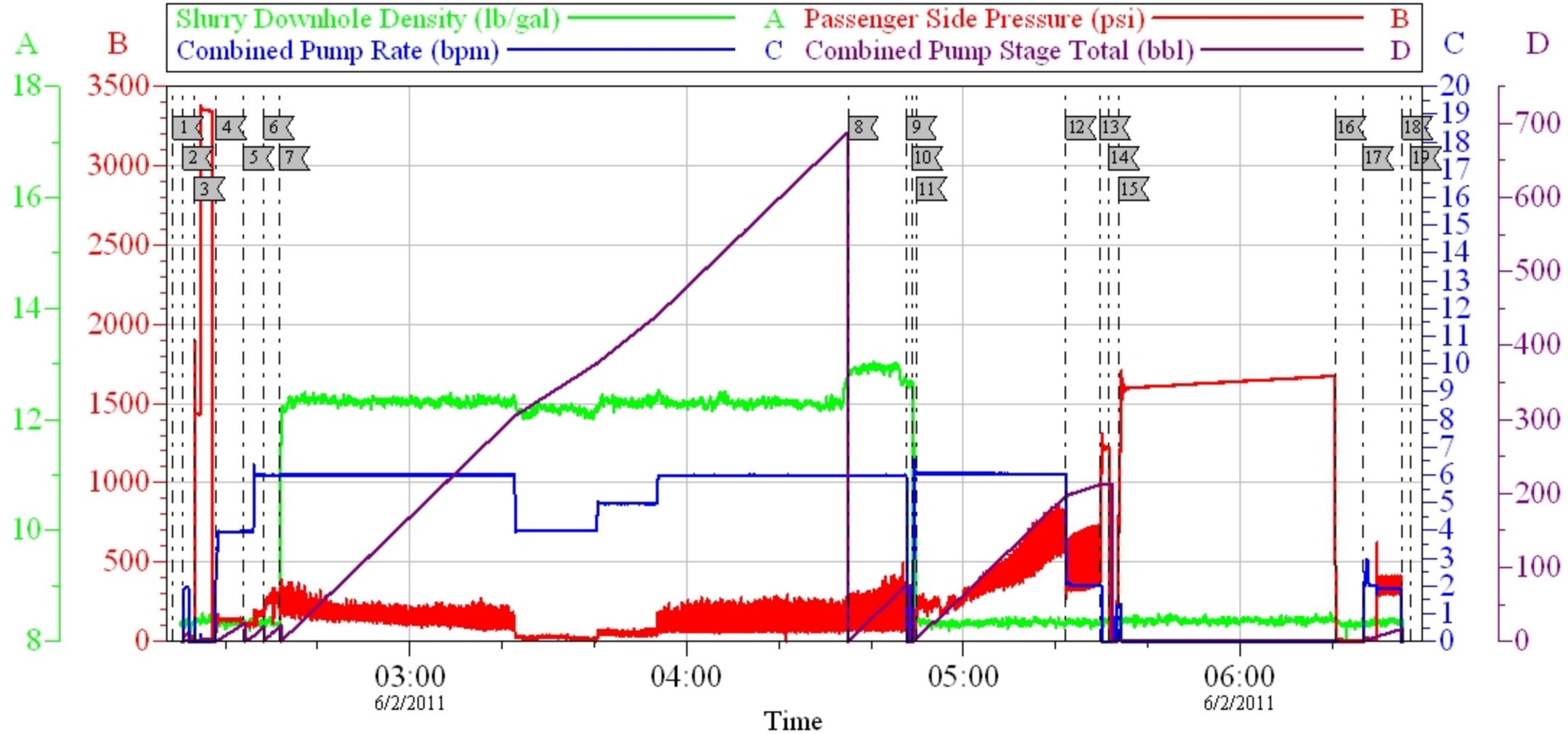
Sold To #: 344034	Ship To #: 2857362	Quote #:	Sales Order #: 8207305
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: COOMBS, HENRY	
Well Name: CC	Well #: 697-05-78A	API/UWI #: 05-045-18731	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.294 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.732 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: ROYSTER, JACOB		Srvc Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/01/2011 12:00							NO TRUCKS WERE TOWED ON WAY TO LOCATION. LEFT BOTTOM GUARD SHACK AT 15:30 ARRIVED ON LOCATION AT 17:00, PRE-LOAD TRUCKS STAYED ON LOCATION FOR DURATION OF JOB.
Pre-Convoy Safety Meeting	06/01/2011 13:30							ALL HES EMPLOYEES
Arrive At Loc	06/01/2011 17:00							RIG STILL RUNNING CASING CIRCULATED FOR 1 HOUR
Assessment Of Location Safety Meeting	06/01/2011 17:15							ALL HES EMPLOYEES
Rig-Up Equipment	06/02/2011 01:00							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 FIELD SILO, 1 FIELD BIN, 1 9.625 QUICK LATCH PLUG CONTAINER, 1 F450 P/U
Pre-Job Safety Meeting	06/02/2011 01:50							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	06/02/2011 02:08							9.625 CASING SET AT 2715', FC 2666.82', TD: 2725', OPEN HOLE 14.75", MUD WT 10 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	06/02/2011 02:10		2	2			55.0	FILL LINES
Pressure Test	06/02/2011 02:13		0.5	0.5		3252.0		NO LEAKS
Pump Spacer 1	06/02/2011 02:17		6	20			139.0	FRESH WATER
Pump Spacer 2	06/02/2011 02:23		6	20			180.0	GELLED SPACER 2.5 GAL OF LGC PER 10 BBLS
Pump Spacer 1	06/02/2011 02:28		6	20			170.0	FRESHWATER
Pump Lead Cement	06/02/2011 02:31		6	435.7			130.0	1050 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, TUFF FIBER ADDED ON THE FLY BARREL COUNTER ON ELITE READ 200 BBLS HIGHER THAN CALCULATED VOLUME. STAGE MIX WATER VOLUME SHOWED AROUND 13900 GAL HES SLOWED RATE TO 4 BPM PER CO REP FOR 20 MIN.
Pump Tail Cement	06/02/2011 04:35		6	55.3			189.0	150 SKS VERSACEM CMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Cement Returns to Surface	06/02/2011 04:40		6	5			164.0	GOT SLIGHT CEMENT RETURNS DURING TAIL CEMENT AND INTO FIRST 30 BBLS OF DISPLACEMENT
Shutdown	06/02/2011 04:47							FOR NO MORE THEN 5 MINUTES,
Drop Plug	06/02/2011 04:48							PLUG LAUNCHED

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	06/02/2011 04:49		6	206.1			600.0	FRESHWATER. LOST RETURNS 30 BBLS INTO DISPLACEMENT NEVER GOT THEM BACK
Slow Rate	06/02/2011 05:22		2	196			490.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	06/02/2011 05:29		2	206.1			550.0	PLUG LANDED AT 1150 HELD FOR TWO MINUTES
Check Floats	06/02/2011 05:31							FLOATS HOLDING
Pressure Up Well	06/02/2011 05:33						1500.0	PRESSURE UP TO 1500 PSI AND HOLD FOR 30 MIN CASING TEST
Other	06/02/2011 06:26		1	15			445.0	PUMP 15 BBLS OF SUGAR WATER DOWN PARASITE. PRESSURE PEAKED AT 445 THEN FELL OFF
End Job	06/02/2011 06:37							END OF INTIAL JOB
Start Job	06/02/2011 08:03							HES RIGGED UP TO PUMP TOPOUT CEMENT
Pump Cap Cement	06/02/2011 08:09		2	22			70.0	HES PUMPED 22 BBLS OF TOPOUT CEMENT MIXED AT 12.5 PPG WITH 8 BBLS TO SURFACE.
Shutdown	06/02/2011 08:32							
End Job	06/02/2011 08:33							THANK YOU FOR USING HALLIBURTON FROM TROY ANGLESTEIN AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	06/02/2011 08:50							ALL HES EMPLOYEES
Rig-Down Equipment	06/02/2011 09:00							SAFELY
Pre-Convoy Safety Meeting	06/02/2011 09:45							ALL HES EMPLOYEES
Crew Leave Location	06/02/2011 10:00							SITE WAS AS CLEAN AS WHEN WE ARRIVED

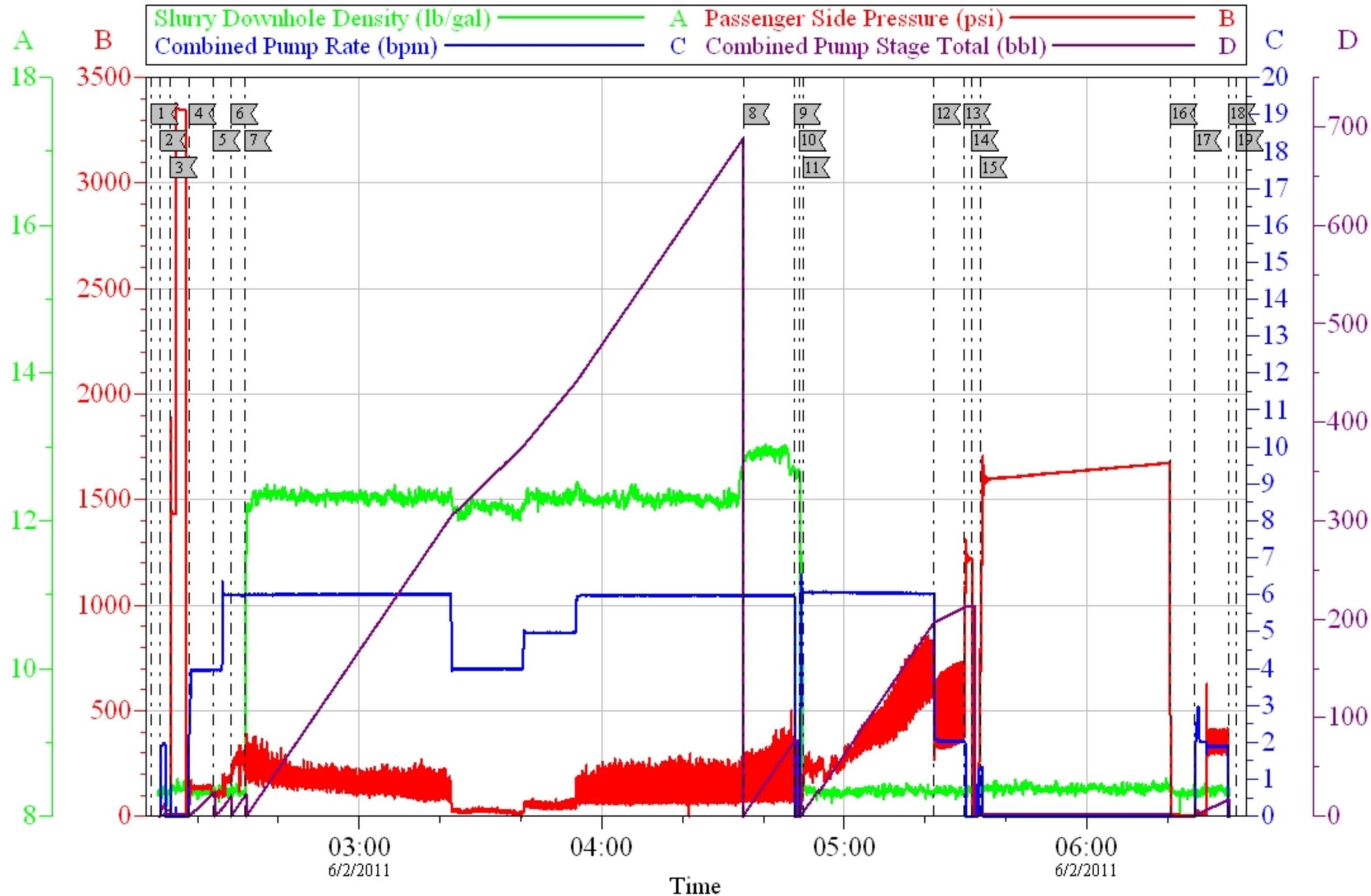
OXY CC 697-05-78A SURFACE



Local Event Log					
1	START JOB	02:08:38	2	FILL LINES	02:10:49
3	TEST LINES	02:13:17	4	PUMP H2O SPACER	02:17:56
5	PUMP GELLED SPACER	02:23:57	6	PUMP H2O SPACER	02:28:18
7	PUMP LEAD CEMENT	02:31:35	8	PUMP TAIL CEMENT	04:35:01
9	SHUTDOWN	04:47:36	10	DROP PLUG	04:48:56
11	PUMP DISPLACEMENT	04:49:45	12	SLOW RATE	05:22:16
13	BUMP PLUG	05:29:38	14	CHECK FLOATS	05:31:34
15	PRESSURE UP WELL	05:33:44	16	RELEASE PRESSURE	06:20:43
17	PUMP DOWN PARASITE	06:26:44	18	SHUTDOWN	06:35:11
19	END JOB	06:37:07			

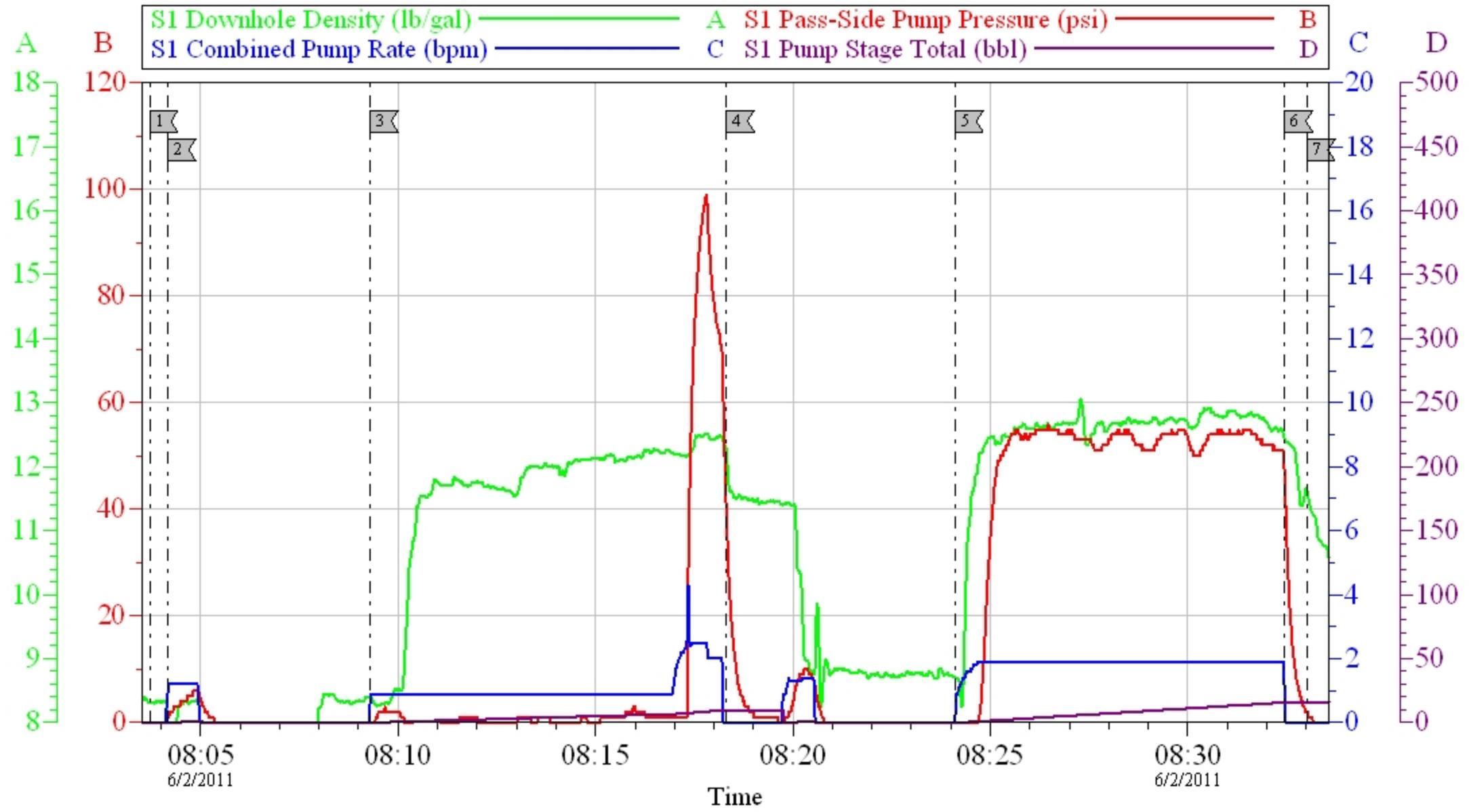
Customer: OXY	Job Date: 02-Jun-2011	Sales Order #: 8207305
Well Description: CC 697-05-78A	Job Type: Surface	ADC Used: Yes
Company Rep: Henry Coombs	Cement Supervisor: Troy Anglestein	Elite # 1: Jesse Jensen

OXY CC 697-05-78A SURFACE



Customer: OXY	Job Date: 02-Jun-2011	Sales Order #: 8207305
Well Description: CC 697-05-78A	Job Type: Surface	ADC Used: Yes
Company Rep: Henry Coombs	Cement Supervisor: Troy Anglestein	Elite # 1: Jesse Jensen

OXY CC 697-05-78A TOPOUT



Local Event Log			
1	START JOB	08:03:43	2
			PUMP H2O AHEAD
			08:04:10
			3
			PUMP TOPOUT CEMENT
			08:09:17
			4
			SHUTDOWN
			08:18:18
			5
			PUMP TOPOUT CEMENT
			08:24:06
			6
			SHUTDOWN
			08:32:27
			7
			END JOB
			08:33:01

Customer: OXY	Job Date: 02-Jun-2011	Sales Order #: 8207305
Well Description: CC 697-05-78A	Job Type: TOPOUT	ADC Used: YES
Company Rep: HENRY COOMBS	Cement Supervisor: TROY ANGLESTEIN	Elite #: 1
		JESSE JENSEN

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
6	Test Lines	2500 PSI				
9	H2O Spacer	20.0				
10	Gelled Spacer	20.0				
9	H2O Spacer	20.0				
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	55.3	150	12.8	2.07	10.67
	Shut Down	0.0				
22	Drop Plug	0.0				
23	Displace With H2O	206.1		SLOW RATE TO 2 BPM		
26	Land Plug	560 PSI	<u>500 PSI Over</u>			
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
206.15	2715	48.18		2666.82	0.0773	620
PSI to Lift Pipe	1138	*****Use Mud Scales on Each Tier*****				
Total Displacement	206.15					
CALCULATED DIFFERENTIAL PSI		560		TOTAL FLUID PUMPED		788
Collapse		Burst		SO#	8207305	

Sales Order #: 8207305	Line Item: 10	Survey Conducted Date: 6/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18731
Well Name: CC		Well Number: 697-05-78A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	6/2/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	TROY ANGLESTEIN (HX45574)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HENRY COOMBS
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 #: 8207305	Line Item: 10	Survey Conducted Date: 6/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18731
Well Name: CC		Well Number: 697-05-78A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	6/2/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	7
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8207305	Line Item: 10	Survey Conducted Date: 6/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18731
Well Name: CC		Well Number: 697-05-78A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	97
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