
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-22A
GRANDVALLEY
Garfield County , Colorado**

**Cement via Annulus
24-Jan-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2903378		Quote #:		Sales Order #: 9230915							
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Wyler, Cal									
Well Name: CC			Well #: 697-05-22A			API/UWI #: 05-045-20361							
Field: GRANDVALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado							
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.				Long: W 108.242 deg. OR W -109 deg. 45 min. 27.756 secs.									
Contractor: H&P 353			Rig/Platform Name/Num: H&P 353										
Job Purpose: Cement via Annulus													
Well Type: Development Well				Job Type: Cement via Annulus									
Sales Person: HIMES, JEFFREY			Srvc Supervisor: ERIC CARTER		MBU ID Emp #: 345598								
Job Personnel													
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #					
BANKS, BRENT A	10	371353	BATH, KYLE Thomas	10	477632	CARTER, ERIC Earl	10	345598					
JENKINS, DEMON Lashaun	4	457892	NICKLE, RYON	10	454759								
Equipment													
HES Unit #	<i>Distance-1 way</i>	HES Unit #	<i>Distance-1 way</i>	HES Unit #	<i>Distance-1 way</i>	HES Unit #	<i>Distance-1 way</i>						
10567589C	120 mile	10867322	120 mile	10998512	120 mile	11259885	120 mile						
11808829	120 mile												
Job Hours													
Date	<i>On Location Hours</i>	Operating Hours	Date	<i>On Location Hours</i>	Operating Hours	Date	<i>On Location Hours</i>	Operating Hours					
1/24/12	10	1.5											
TOTAL			<i>Total is the sum of each column separately</i>										
Job				Job Times									
Formation Name						Date	Time	Time Zone					
Formation Depth (MD)	Top	0 FT.		Bottom		Called Out							
Form Type			BHST				On Location						
Job depth MD	2300. ft		Job Depth TVD		2300. ft		Job Started	24 - Jan - 2012 19:12 MST					
Water Depth			Wk Ht Above Floor				Job Completed	24 - Jan - 2012 20:38 MST					
Perforation Depth (MD)	From			To			Departed Loc	24 - Jan - 2012 22:00 MST					
Well Data													
<i>Description</i>	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		
Sales/Rental/3rd Party (HES)													
Description						Qty	Qty uom	Depth	Supplier				
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI						1	JOB						
PORT. DATA ACQUIS. W/OPTICEM RT W/HES						1	EA						
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI						1	JOB						
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		5.00	bbl	.	.0	.0	.5			
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	177.0	sacks	12.3	2.33	12.62	1	12.62		
3	Displacement		5	bbl	.	.0	.0	2			
Calculated Values		Pressures			Volumes						
Displacement		Shut In: Instant			Lost Returns		Cement Slurry		73.5	Pad	
Top Of Cement		5 Min			Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min			Spacers		Load and Breakdown		Total Job 83.5		
Rates											
Circulating		Mixing		1		Displacement		2		Avg. Job	1
Cement Left In Pipe		Amount	0 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

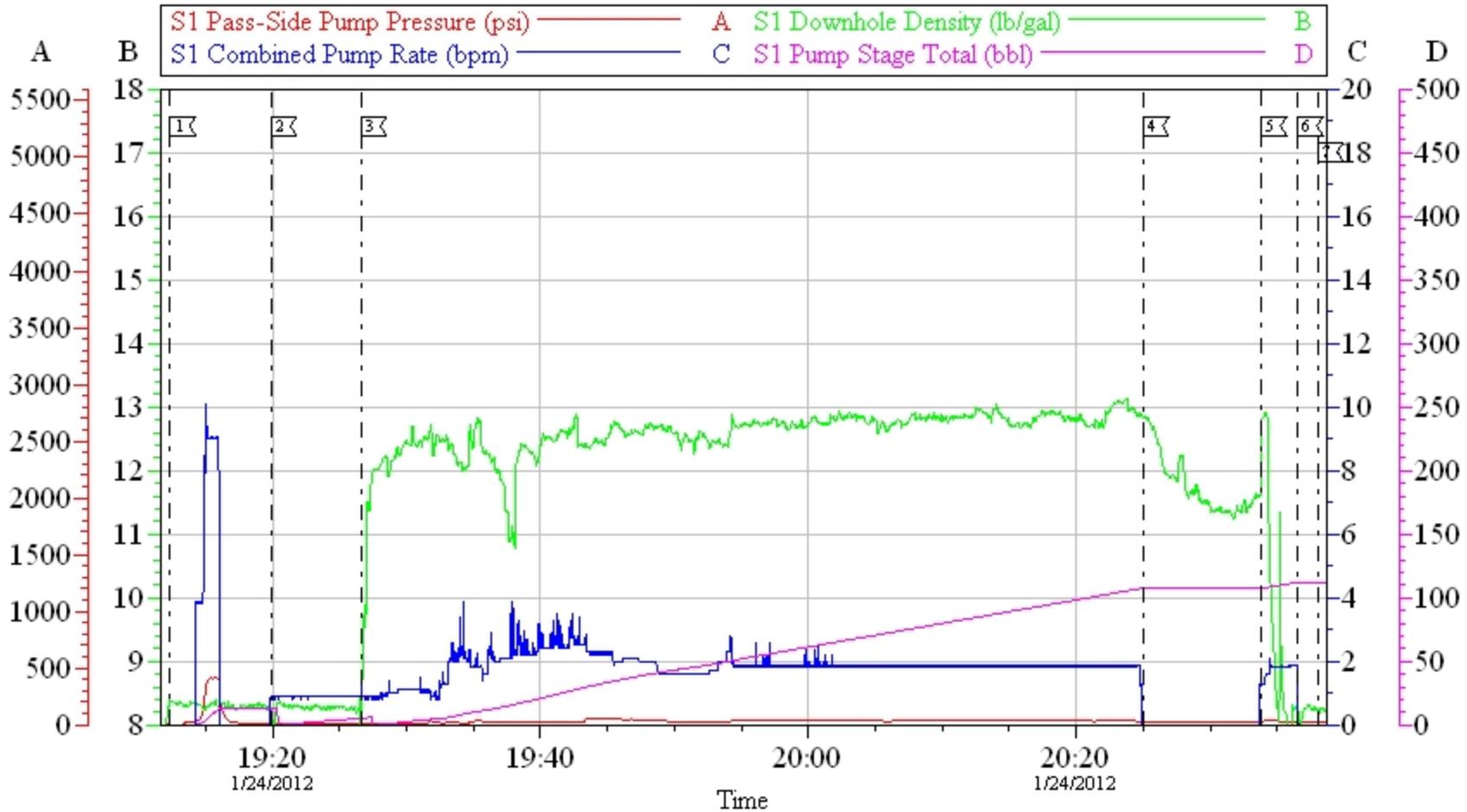
Sold To #: 344034	Ship To #: 2903378	Quote #:	Sales Order #: 9230915
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Wylar, Cal	
Well Name: CC		Well #: 697-05-22A	API/UWI #: 05-045-20361
Field: GRANDVALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 27.756 secs.	
Contractor: H&P 353		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement via Annulus			Ticket Amount:
Well Type: Development Well		Job Type: Cement via Annulus	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: ERIC CARTER	MBU ID Emp #: 345598

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Other Job or Site	01/24/2012 18:00							CREW ALREADY ON LOCATION FROM PREVIOUS WELL, CEMENT BULK TRUCK ARRIVED AT 18:00
Pre-Rig Up Safety Meeting	01/24/2012 18:10							ATTENDED BY ALL HES CREW
Rig-Up Equipment	01/24/2012 18:20							RIG UP TO WELL HEAD 2"
Pre-Job Safety Meeting	01/24/2012 19:00							ATTENDED BY ALL HES CREW AND COMPANY REP
Pump Spacer 1	01/24/2012 19:19		0.5	5			14.0	FRESH WATER
Start Job	01/24/2012 19:20							HES TO PUMP UNTIL CEMENT CAME TO SURFACE, PUMPED DOWN 9.625" CASING
Pump Lead Cement	01/24/2012 19:26		1	73.5			30.0	177 SKS MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GL/SK, VOLUMES ARE BASED OFF OF MIX WATER USED,
Shutdown	01/24/2012 20:25							SHUTDOWN, CEMENT DID NOT FALL BACK
Pump Spacer 1	01/24/2012 20:33		2	5			10.0	FRESH WATER
Shutdown	01/24/2012 20:36							
End Job	01/24/2012 20:38							2 BBLs CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	01/24/2012 20:40							ATTENDED BY ALL HES CREW
Rig-Down Equipment	01/24/2012 20:50							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart Location Safety Meeting	01/24/2012 21:50							ATTENDED BY ALL HES CREW
Crew Leave Location	01/24/2012 22:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

OXY-CC 697-05-22A

TOP OUT



Local Event Log								
1	START JOB	19:12:22	2	PUMP H2O	19:19:56	3	PUMP LEAD CEMENT	19:26:38
4	SHUTDOWN	20:25:02	5	PUMP H2O	20:33:50	6	SHUTDOWN	20:36:32
7	END JOB	20:38:04						

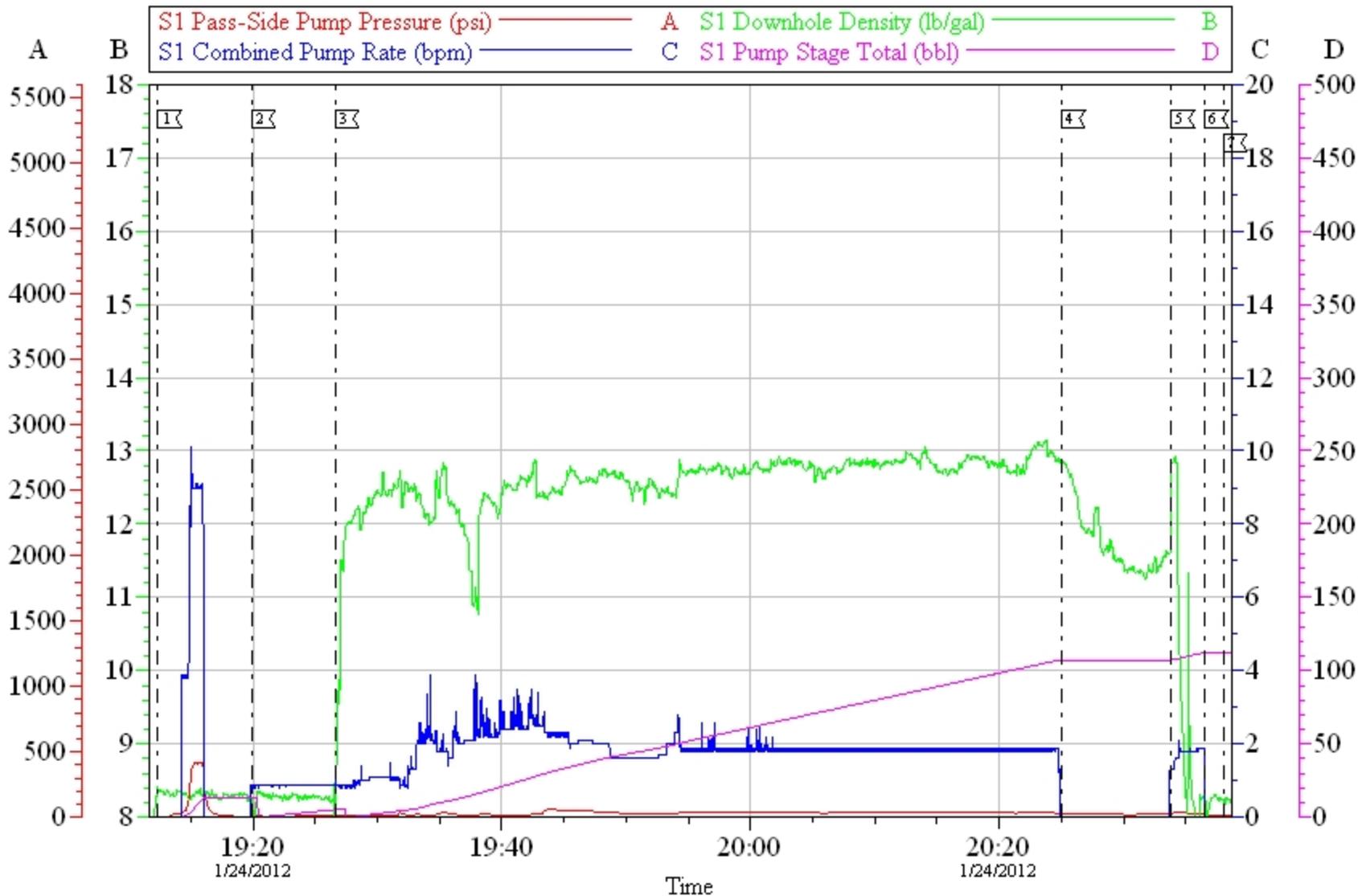
Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-05-22A
 Company Rep: TERRY R.

Job Date: 24-Jan-2012
 Job Type: TOP OUT
 Cement Supervisor: ERIC CARTER

Sales Order #: 9230915
 ADC Used: YES
 Elite #/Operator: 3/BRENT BANKS

OXY-CC 697-05-22A

TOP OUT



Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-05-22A
 Company Rep: TERRY R.

Job Date: 24-Jan-2012
 Job Type: TOP OUT
 Cement Supervisor: ERIC CARTER

Sales Order #: 9230915
 ADC Used: YES
 Elite #/Operator: 3/BRENT BANKS

OptiCem v6.4.0
 24-Jan-12 21:27

HALLIBURTON

Water Analysis Report

Company:	<u>OXY</u>	Date:	<u>1/24/2012</u>
Submitted by:	<u>ERIC CARTER</u>	Date Rec.:	<u>1/24/2012</u>
Attention:	<u>J.Trout</u>	S.O.#	<u>9230915</u>
Lease	<u>H•P 353</u>	Job Type:	<u>TOP OUT</u>
Well #	<u>CC 697-05-22A</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hrdness	<i>500</i>	250 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
Temp	<i>40-80</i>	67 Deg
Total Dissolved Solids		700 Mg / L

Respectfully: ERIC CARTER

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 use.

Sales Order #: 9230915	Line Item: 10	Survey Conducted Date: 1/24/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT VIA ANNULUS BOM
Customer Representative: TERRY R.		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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	1/24/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	TERRY R.
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	

CUSTOMER SIGNATURE

Sales Order #: 9230915	Line Item: 10	Survey Conducted Date: 1/24/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT VIA ANNULUS BOM
Customer Representative: TERRY R.		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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	1/24/2012
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
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)	1.5
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	5
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)	No

Sales Order #: 9230915	Line Item: 10	Survey Conducted Date: 1/24/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT VIA ANNULUS BOM
Customer Representative: TERRY R.		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	Yes
Was this a Primary or a Remedial Job? Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
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	90
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	90
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