
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-39
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
05-Jul-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2825581	Quote #:	Sales Order #: 8299205
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Benevides, Victor	
Well Name: CC		Well #: 697-09-39	API/UWI #: 05-045-18139
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.241 secs.		Long: W 108.222 deg. OR W -109 deg. 46 min. 40.361 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 330	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: ROYSTER, JACOB		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 #
DANIEL, EVERETT Dean	10	337325	HAYES, DIRK A	9	336768	SINGLETON, AUSTIN W	10	487406
TRIPLETT, MICHEAL Anthony	10	447908	WEAVER, CARLTON Russell	10	457698	WINKER, STEVEN	9	478776

Equipment

HES Unit #	Distance-1 way						
10567589C	120 mile	10592964	120 mile	10744549	120 mile	10857016	120 mile
10938658	120 mile	10938665	120 mile	10951246	120 mile	10988978	120 mile
10995027	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
07/05/2011	10	3.5						
TOTAL	<i>Total is the sum of each column separately</i>							

Job

Job Times

Formation Name	Job			Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom	Called Out	05 - Jul - 2011	02:00	MST
Form Type	BHST			On Location	05 - Jul - 2011	08:00
Job depth MD	2740. ft	Job Depth TVD	2740. ft	Job Started	05 - Jul - 2011	12:35
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	05 - Jul - 2011	16:08
Perforation Depth (MD)	From	To	Departed Loc	05 - Jul - 2011	18:00	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
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			
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	8.33	.0	.0	.0	
2	Gel Spacer		20.00	bbl	.	.0	.0	.0	
3	Water Spacer		20.00	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62		12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	169.0	sacks	12.8	2.07	10.67		10.67
	10.67 Gal	FRESH WATER							
6	Displacement		208.00	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	12.5	1.97	10.96		10.96
	10.96 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	206.8	Shut In: Instant		Lost Returns	210	Cement Slurry	498	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	120	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	765
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	44.45 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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Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 330	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: ROYSTER, JACOB		Srvc Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908

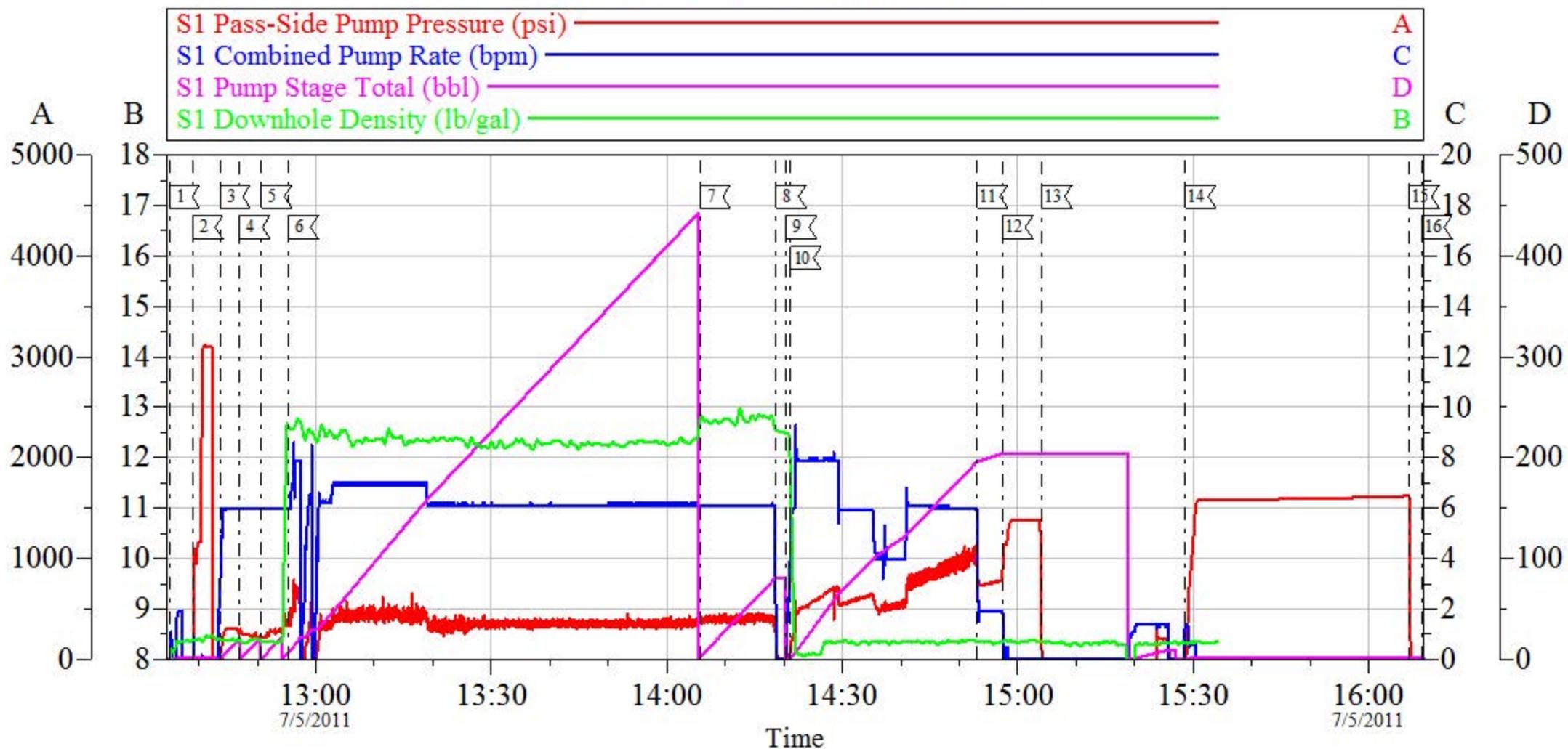
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/05/2011 02:20							
Pre-Convoy Safety Meeting	07/05/2011 05:00							
Crew Leave Yard	07/05/2011 05:15							
Arrive At Loc	07/05/2011 08:00							
Assessment Of Location Safety Meeting	07/05/2011 08:05							
Other	07/05/2011 08:15							SPOT EQUIPMENT, 1 RCM PUMP TRUCK
Pre-Rig Up Safety Meeting	07/05/2011 08:30							GO OVER JSA AND HAVE CREW SIGN
Rig-Up Equipment	07/05/2011 08:40							
Pre-Job Safety Meeting	07/05/2011 12:15							GO OVER JOB PROCEDURES AND SAFETY INFORMATION
Start Job	07/05/2011 12:34							TD:2740', TP:2720', SJ:44.45', MW:9.1, CASING: 9.625 36#, OH: 14.75
Test Lines	07/05/2011 12:38						3000.0	PRESSURE TEST PUMPS AND LINES STARTED AT PSI AND ENDED AT PSI, LOST PSI IN TWO MINUTES.
Pump Spacer 1	07/05/2011 12:43		6	20			317.0	FRESH WATER
Pump Spacer 2	07/05/2011 12:46		6	20			250.0	LGC SPACER, 2.5 GALLONS PER 10BBLs.
Pump Spacer 3	07/05/2011 12:50		6	20			245.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/05/2011 12:55		6	435.7			463.0	1050 SACKS MIXED @ 12.3, 2.33 YIELD, 12.62GAL/SACK, TRUCK KICKED OUT ON OWN TWICE WHEN ON CLEAD CEMENT.
Pump Tail Cement	07/05/2011 14:05		6	62.3			444.0	169 SACKS MIXED @ 12.8, 2.07 YIELD, 10.67 GAL/SACK
Shutdown	07/05/2011 14:18							
Drop Top Plug	07/05/2011 14:20							VERIFY PLUG LEFT
Pump Displacement	07/05/2011 14:21		6	206.8			1073.0	FRESHWATER
Slow Rate	07/05/2011 14:53		2	196.8			775.0	SLOWED RATE LAST 10BBLs OF DISPLACEMENT
Bump Plug	07/05/2011 14:57						800.0	BUMP PLUG AND WENT 500PSI OVER TO 1300PSI
Check Floats	07/05/2011 15:04							FLOATS HELD
Pressure Test	07/05/2011 15:28							PRESSURE TEST CASING AT 1500 PSI FOR 30 MINUTES.
End Job	07/05/2011 16:08							RELEASE CASING PRESSURE AND END JOB. HAD GOOD CIRCULATION UNTIL 158 BBLs OF LEAD CEMENT AWAY, GOT RETURNS BACK WITH 375 BBLs OF LEAD CEMENT AWAY. GOT CEMENT BACK WITH 75 BBLs OF DISPLACEMENT AWAY, GOT 120 BBLs OF CEMENT BACK TO SURFACE. 1 ADDITIONAL HOUR ADDED TO TICKET. 20 POUNDS OF SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	07/05/2011 16:10							
Rig-Down Equipment	07/05/2011 16:15							

Pre-Convoy Safety Meeting	07/05/2011 17:55							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Location	07/05/2011 18:00							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		1392 <u>Max Psi</u>			
6	Test Lines	3000.0				
9	FRESH WATER	20.0				
10	LGC	20.0				
9	FRESHWATER	20.0				
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	62.3	169	12.8	2.07	10.67
22	Drop Plug					
23	KCL DISPLACEMENT	206.8				
	SLOW RATE	196.8				
26	Land Plug	563+500				
2	Release Psi / Job Over					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
206.82	2720	44.45	2675.55	0.0773	411	
PSI to Lift Pipe	1158	*****Use Mud Scales on Each Tier*****				
Total Displacement	206.82					
CALCULATED DIFFERENTIAL PSI		563	TOTAL FLUID PUMPED		765	
Collapse	1740	Burst	2560	SO#	8299205	

OXY SURFACE CC 697-09-39

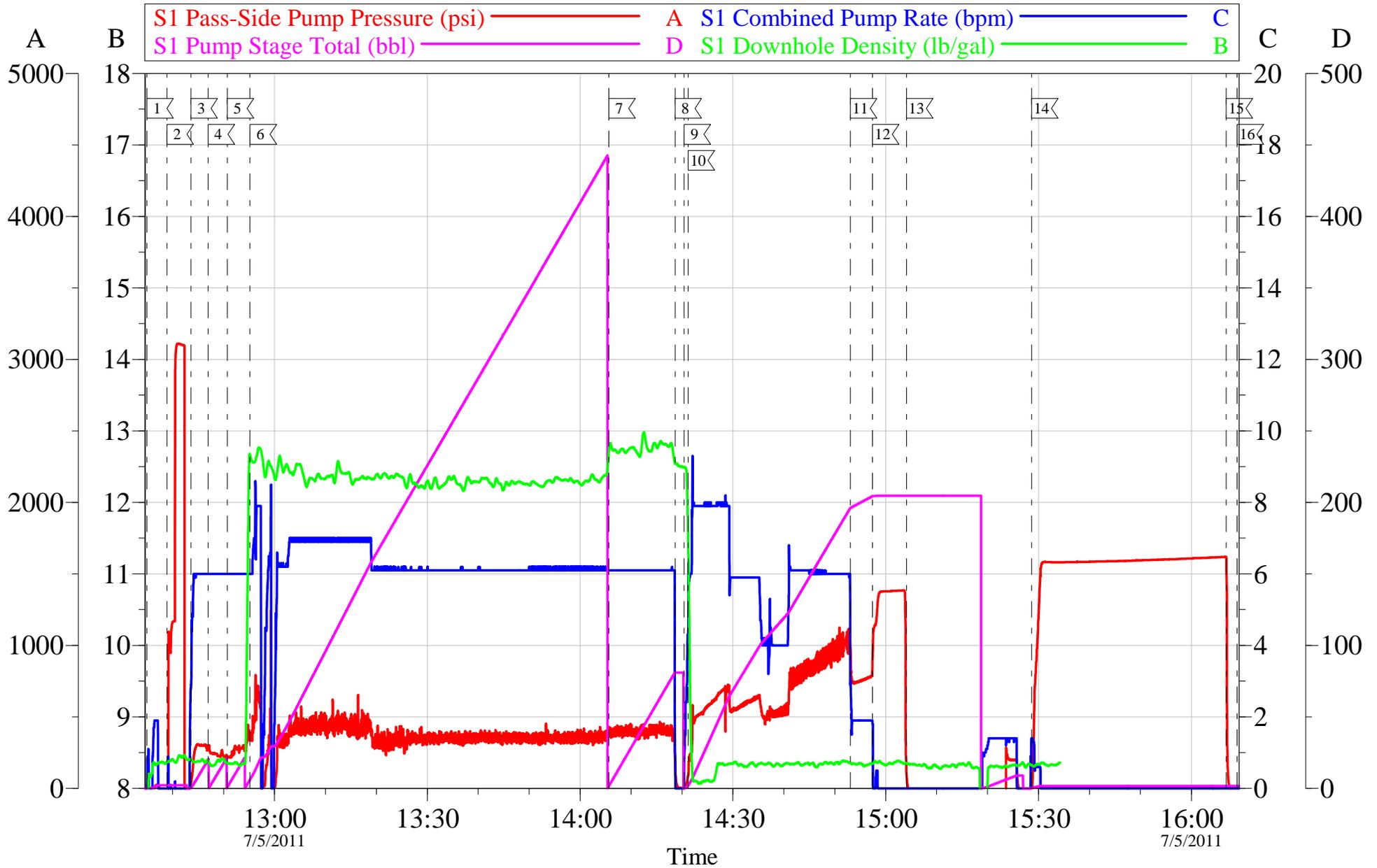


Local Event Log

1	START JOB	12:34:57	2	PRESSURE TEST	12:38:53	3	START FRESH WATER SPACER	12:43:36
4	START LGC SPACER	12:46:57	5	START FRESHWATER SPACER	12:50:42	6	START LEAD	12:55:12
7	START TAIL	14:05:39	8	SHUTDOWN	14:18:39	9	DROP PLUG	14:20:25
10	START DISPLACEMENT	14:21:11	11	SLOW RATE	14:53:03	12	BUMP PLUG	14:57:23
13	CHECK FLOATS	15:04:04	14	START CASING PRESSURE TEST	15:28:39	15	RELEASE PRESSURE	16:06:50
16	END JOB	16:08:59						

Customer: OXY	Job Date: 05-Jul-2011	Sales Order #: 8299205
Well Description: CC 697-09-39	JOB TYPE: SURFACE	COMPANY REP: VICTOR BENEVIDES
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ DEAN DANIEL

OXY SURFACE CC 697-09-39



Customer: OXY	Job Date: 05-Jul-2011	Sales Order #: 8299205
Well Description: CC 697-09-39	JOB TYPE: SURFACE	COMPANY REP: VICTOR BENEVIDES
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ DEAN DANIEL

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Date: 12/21/2010

Submitted by: MIKE TRIPLETT

Date Rec.: 7/5/2011

Attention: JON TROUT

S.O.# 8299205

Lease CC

Job Type: SURFACE

Well # 697-09-39

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	450 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	-100 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		35 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

Sales Order #: 8299205	Line Item: 10	Survey Conducted Date: 7/5/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-18139
Well Name: CC		Well Number: 697-09-39
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	7/5/2011
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	VICTOR BENEVIDES
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 #: 8299205	Line Item: 10	Survey Conducted Date: 7/5/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-18139
Well Name: CC		Well Number: 697-09-39
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	7/5/2011
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	5
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)	3.5
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

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Well Name: CC		Well Number: 697-09-39
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	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