
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-10B
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
10-Mar-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2841714	Quote #:	Sales Order #: 7842135
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Coombs, Henry		
Well Name: CC	Well #: 697-09-10B	API/UWI #:	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.117 secs.	Long: W 108.237 deg. OR W -109 deg. 45 min. 46.328 secs.		
Contractor: OXY	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: DUNNING, DUSTIN	Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas		477632	CARTER, ERIC Earl		345598	LEIST, JAMES R		362787
SILVERTHORN, AARON Jacob		491305	SMITH, CHRISTOPHER Scott		452619			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10722398	120 mile	10951251	120 mile	11139330	120 mile	11560046	120 mile
11562538	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Job Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	2730. ft				

Job Times

Date	Time	Time Zone
09 - Mar - 2011	16:00	MST
09 - Mar - 2011	23:55	MST
10 - Mar - 2011	06:40	MST
10 - Mar - 2011	00:02	MST
11 - Mar - 2011	01:15	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
OPEN HOLE				14.75				.	2720.		
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2698.		

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		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)	1032.0	sacks	12.3	2.33	12.62		12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	179.0	sacks	12.8	2.07	10.67		10.67
		10.67 Gal	FRESH WATER						
6	Displacement		205.00	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		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	46 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 #: 344034		Ship To #: 2841714		Quote #:		Sales Order #: 7842135	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Coombs, Henry			
Well Name: CC			Well #: 697-09-10B			API/UWI #:	
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.117 secs.				Long: W 108.237 deg. OR W -109 deg. 45 min. 46.328 secs.			
Contractor: OXY			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: DUNNING, DUSTIN			Srv Supervisor: SMITH, CHRISTOPHER			MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	03/09/2011 18:25							ALL HES PERSONEL
Crew Leave Yard	03/09/2011 18:30							
Arrive At Loc	03/09/2011 23:55							RIG RUNNING CASING
Assessment Of Location Safety Meeting	03/10/2011 00:15							ALL HES PERSONEL
Other	03/10/2011 01:24							SPOT EQUIPMENT
Rig-Up Equipment	03/10/2011 05:40							
Rig-Up Completed	03/10/2011 06:20							
Pre-Job Safety Meeting	03/10/2011 06:21							ALL HES PERSONEL AND RIG CREW
Start Job	03/10/2011 06:40							TD 2720', TP 2698', SJ 46', HOLE 14.75", CSG 9.625" 36# J-55, MUD 9#, PV 16, YP 12, TEMP 78.
Other	03/10/2011 06:41		2	2			47.0	FILL LINES
Pressure Test	03/10/2011 06:41							ALL LINES HELD PRESSURE
Pump Spacer 1	03/10/2011 06:46		6	20			47.0	FRESH WATER
Pump Spacer 2	03/10/2011 06:50		6	20			165.0	GEL WATER
Pump Spacer 1	03/10/2011 06:53		6	20			145.0	FRESH WATER
Pump Lead Cement	03/10/2011 06:57		6	428.3			145.0	1032 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK

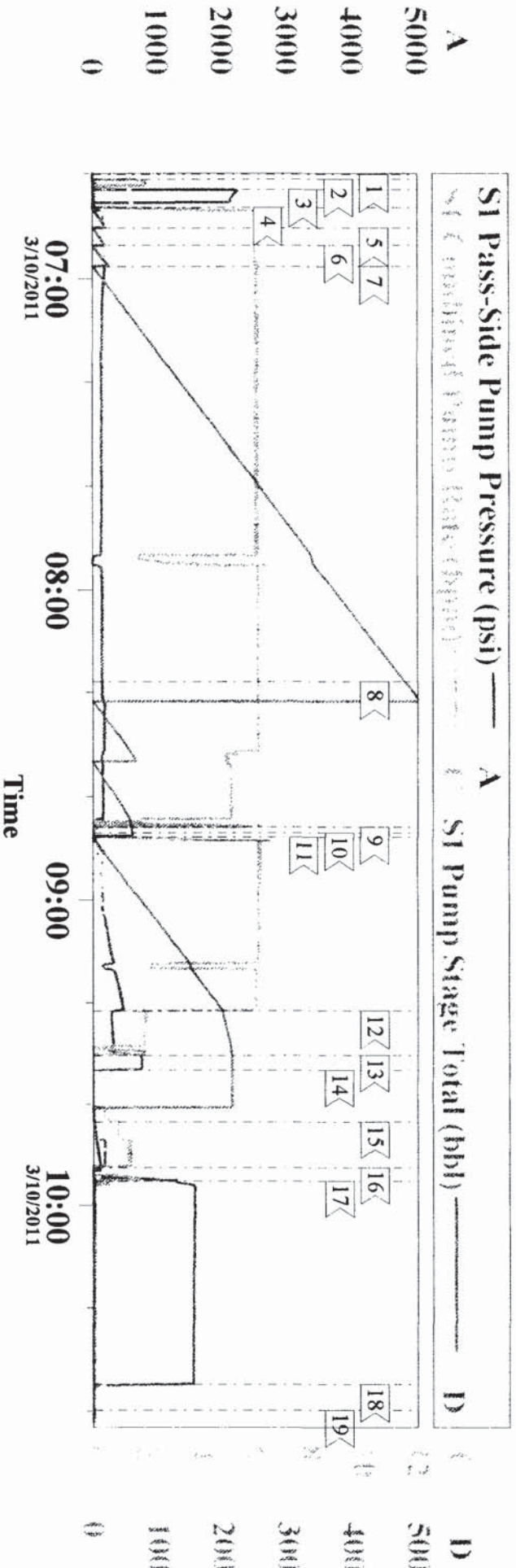
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	03/10/2011 08:17		6	65.9			150.0	179 SKS, 12.8 PPG, 2.07 FT3/ SK, 10.67 GAL/SK
Shutdown	03/10/2011 08:45							
Drop Top Plug	03/10/2011 08:46							PLUG WENT
Pump Displacement	03/10/2011 08:47		6	194.9			455.0	FRESH WATER
Slow Rate	03/10/2011 09:21		2	10			300.0	
Bump Plug	03/10/2011 09:30						750.0	PLUG BUMPED
Check Floats	03/10/2011 09:33							FLOATS HELD
Other	03/10/2011 09:43		1.5	12			175.0	PUMP THROUGH PARASITE
Shutdown	03/10/2011 09:52							
Other	03/10/2011 09:55		0.5	0.5			1500.0	CASING PRESSURE TEST HELD FOR 30 MIN.
Release Casing Pressure	03/10/2011 10:34							
Start Job	03/10/2011 12:57							TOP OUT #1
Pump Spacer	03/10/2011 12:57		2.5	5			75.0	FRESH WATER
Pump Cement	03/10/2011 13:00		3	26.3			120.0	75 SKS/ 12.5 PPG/ 1.97 FT3/SK/10.96 GAL/SK
Clean Lines	03/10/2011 13:15		3	3			120.0	FRESH WATER
Shutdown	03/10/2011 13:52							NO CEMENT TO SURFACE
Start Job	03/10/2011 15:13							TOP OUT #2
Pump Spacer	03/10/2011 15:13		2.5	5			28.0	FRESH WATER
Pump Cement	03/10/2011 15:16		3	26.3			62.0	75 SKS/ 12.5 PPG/ 1.97 FT3/SK/ 10.96 GAL/SK
Clean Lines	03/10/2011 15:32		3	3			50.0	FRESH WATER
Shutdown	03/10/2011 15:33							NO CEMENT TO SURFACE
Start Job	03/10/2011 17:30							TOP OUT #3
Pump Spacer	03/10/2011 17:30		2.5	5			20.0	FRESH WATER

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	03/10/2011 17:34		2.5	35.1			75.0	100 SKS/ 12.5 PPG/ 1.97 FT3/SK/ 10.96 GAL/SK
Clean Lines	03/10/2011 17:54		2.5	2			68.0	FRESH WATER
Shutdown	03/10/2011 17:56							NO CEMENT TO SURFACE
Start Job	03/10/2011 23:51							TOP OUT #4
Pump Spacer	03/10/2011 23:52		2	2			55.0	FRESH WATER
Pump Cement	03/10/2011 23:53		2	3.5			97.0	10 SKS/ 12.5 PPG/ 1.97 FT3/SK/10.96GAL/SK
Shutdown	03/10/2011 23:54							CEMENT TO SURFACE
Clean Lines	03/11/2011 00:01		2	2			5.0	FRESH WATER
End Job	03/11/2011 00:02							
Post-Job Safety Meeting (Pre Rig-Down)	03/11/2011 00:05							ALL HES PERSONEL
Rig-Down Completed	03/11/2011 01:00							
Depart Location Safety Meeting	03/11/2011 01:05							ALL HES PERSONEL
Crew Leave Location	03/11/2011 01:15							
Other	03/11/2011 01:15							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

OXY

9.625" SURFACE/ CC 697-09-10B



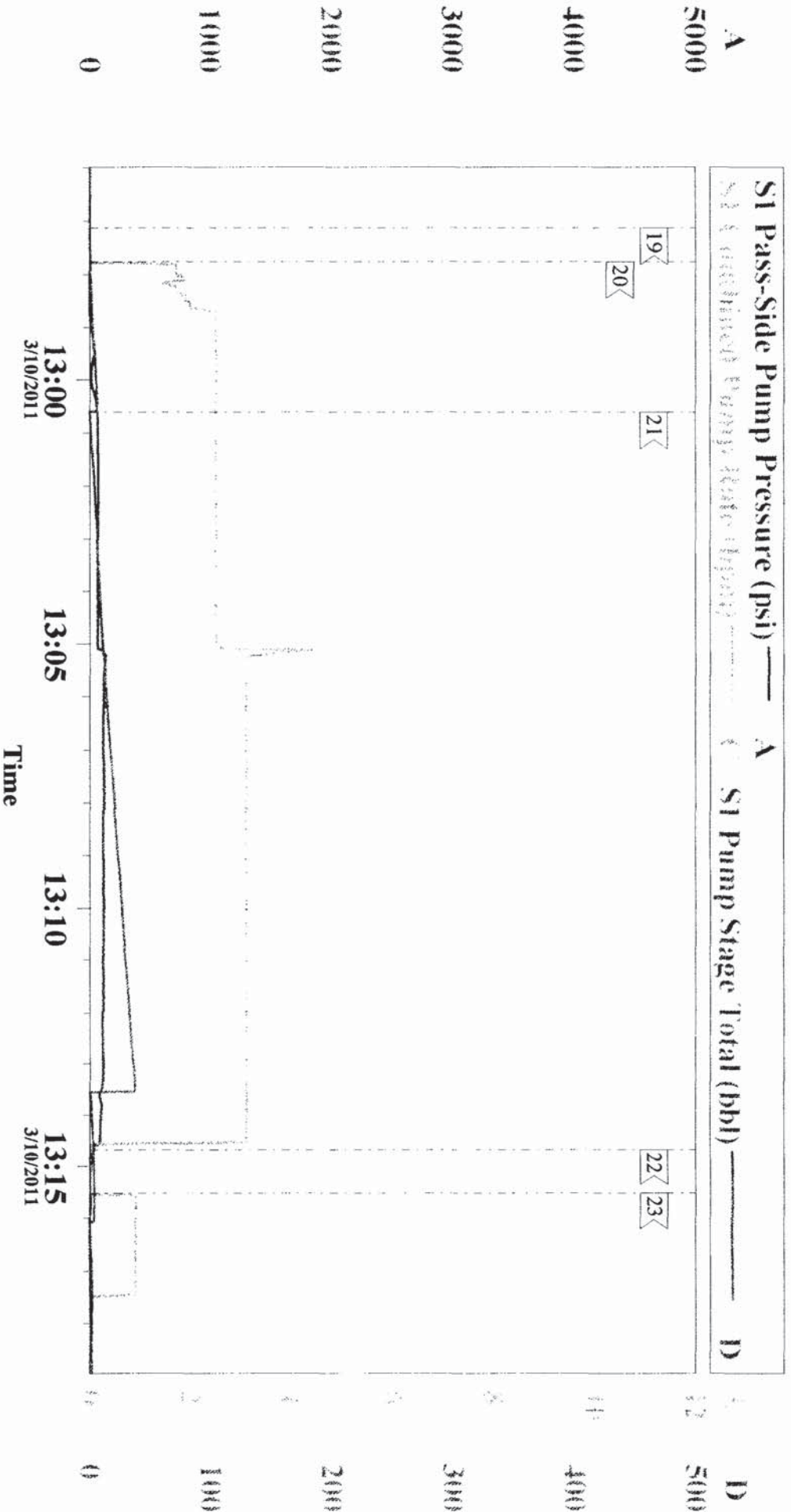
Local Event Log

Maximum	SPPP	Maximum	SPPP
1 START JOB	06:40:09	2 FILL LINES	06:41:01
3 TEST LINES	06:42:59	4 PUMP H2O SPACER	06:46:27
5 PUMP GELLED SPACER	06:50:23	6 PUMP H2O SPACER	06:53:34
7 PUMP LEAD CEMENT	06:57:42	8 PUMP TAIL CEMENT	08:17:59
9 SHUTDOWN	08:45:48	10 DROP PLUG	08:46:59
11 PUMP DISPLACEMENT	08:47:45	12 SLOW RATE	09:21:32
13 BUMP PLUG	09:30:11	14 CHECK FLOATS	09:33:13
15 PUMP THROUGH PARACITE	09:43:24	16 SHUT DOWN	09:52:28
17 CASING PRESSURE TEST	09:55:06	18 RELEASE PRESSURE	10:34:56
19	10:39:47		

Customer: OXY GRAND JUNCTION EBUSINESS Job Date: 10-Mar-2011 Sales Order #: 7842135
 Well Description: CC 697-09-10B Job type: AFEYOROP4WJW7ZMBAAA ADC Used: YES
 Customer Rep: ALEX VILLEGAS Service Supervisor: C. SMITH Operator/ Pump: K. BAITT/ E5

OXY

TOP OUT/ CC 697-09-10B



Local Event Log

Maximum	SPPP	Maximum	SPPP	Maximum	SPPP
19 START JOB	12:57:08 -1.000	20 PUMP H2O SPACER	12:57:45 64.17	21 PUMP CEMENT	13:00:37 132.0
22 SHUTDOWN	13:14:40 37.00	23 CLEAN LINES	13:15:31 472.0		

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10B
 Customer Rep: ALEX VILLEGAS
 Job Date: 10-Mar-2011
 Job type: AFEYOR0P4WJWWTZMBAAA
 Service Supervisor: C. SMITH
 Sales Order #: 7842135
 ADC Used: YES
 Operator/ Pump: K. BATH/ES

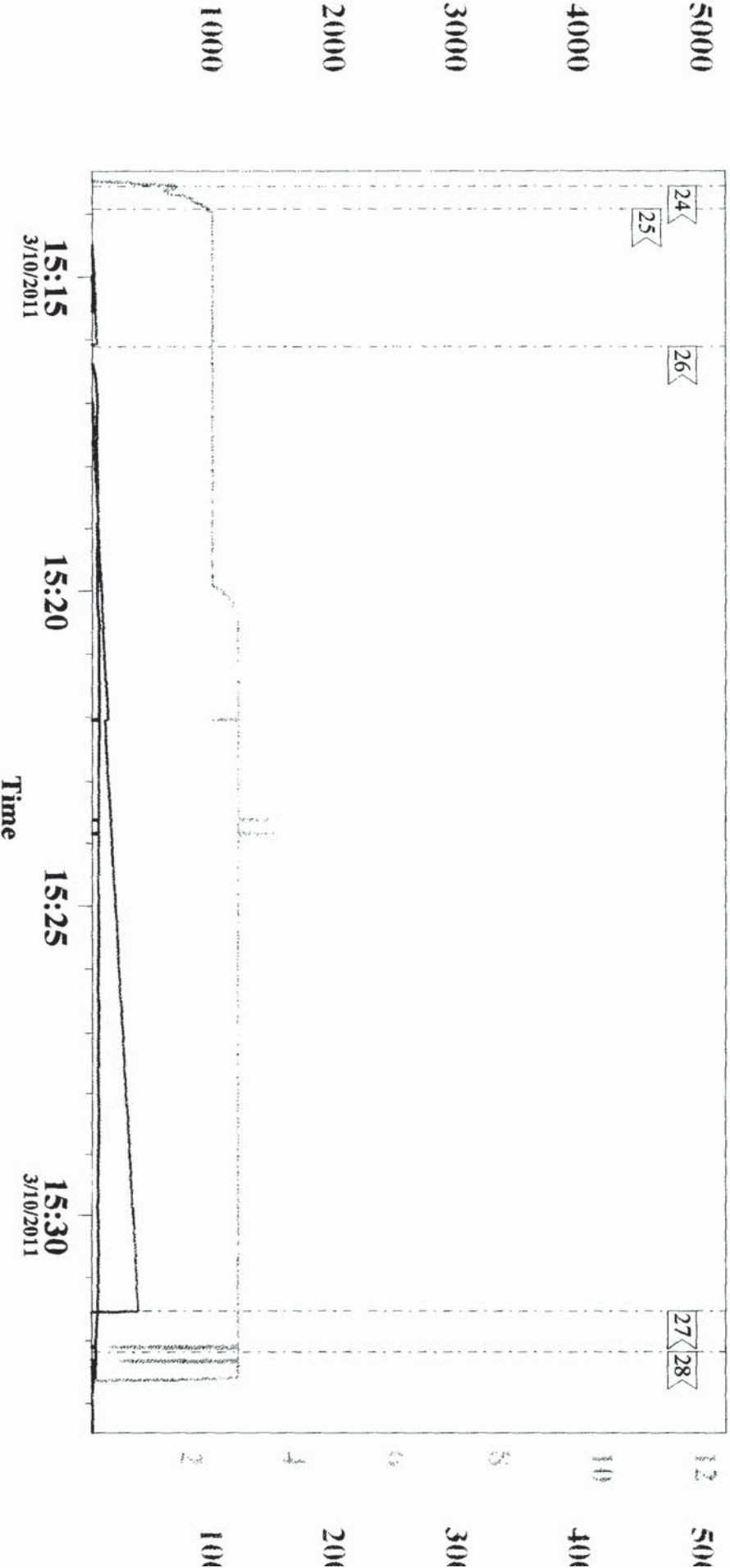
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TOP OUT 2/CC 697-09-10B

A

S1 Pass-Side Pump Pressure (psi) — A S1 Pump Stage Total (bbl) — D

D



Local Event Log

Maximum	SPPP	Maximum	SPPP	Maximum	SPPP
24 START JOB	15:13:34 7.131	25 PUMP H2O SPACER	15:13:55 26.00	26 PUMP CEMENT	15:16:07 81.00
27 SHUTDOWN	15:31:32 72.00	28 CLEAN LINES	15:32:11 261.0		

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10B
 Customer Rep: ALEX VILLEGAS
 Job Date: 10-Mar-2011
 Job type: AFEYOROP4WJW/TZMBAAA
 Service Supervisor: C. SMITH
 Sales Order #: 7842135
 ADC Used: YES
 Operator/ Pump: K. BATH/E5

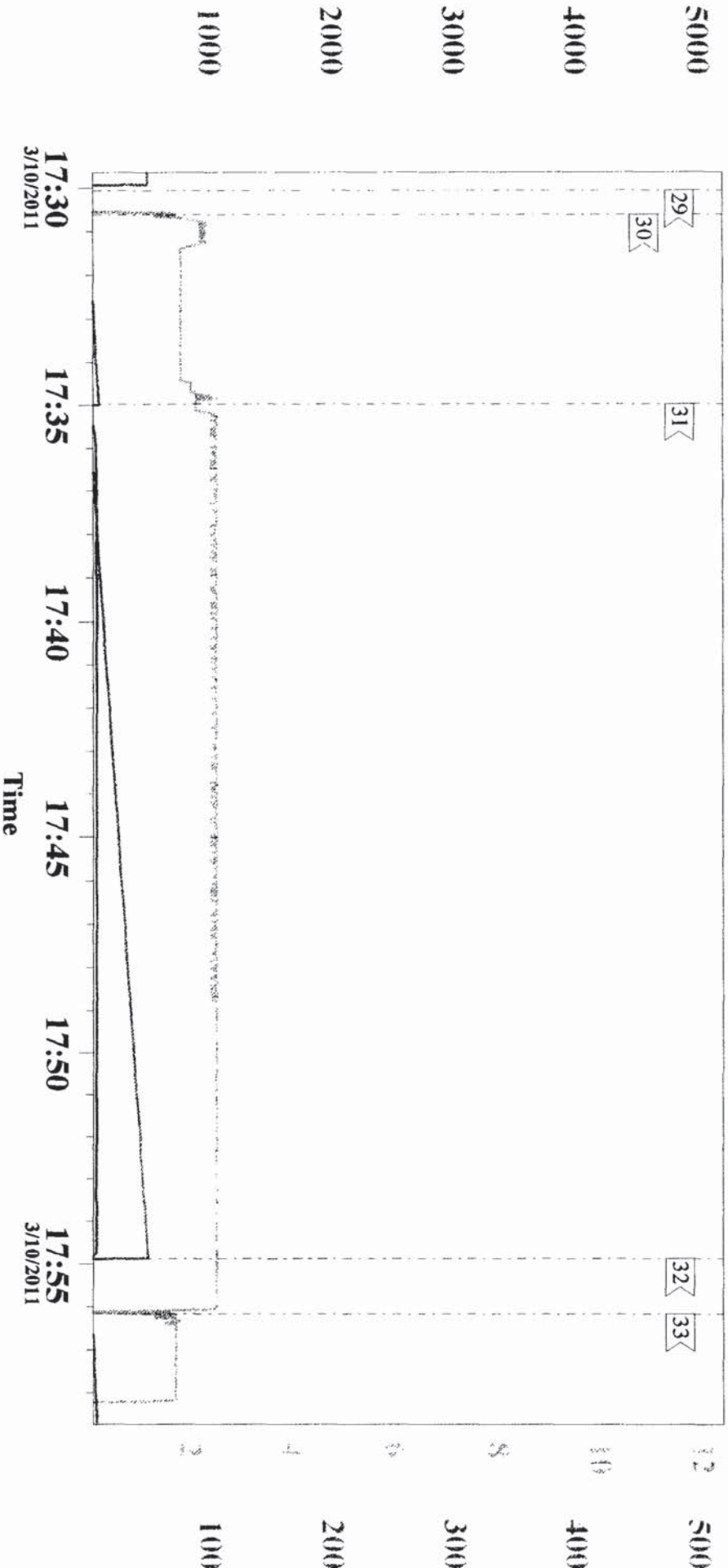
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TOP OUT 3/CC 697-09-10B

A

S1 Pass-Side Pump Pressure (psi) — A S1 Pump Stage Total (bbl) — D

D



Local Event Log

Maximum	SPPP	Maximum	SPPP	Maximum	SPPP
29 START JOB	17:30:03 1.000	30 PUMP H2O SPACER	17:30:37 8.000	31 PUMP CEMENT	17:34:58 68.00
32 SHUTDOWN	17:54:53 33.00	33 CLEAN LINES	17:56:10 363.0		

Customer: OXY GRAND JUNCTION EBUSINESS Job Date: 10-Mar-2011 Sales Order #: 7842135
 Well Description: CC 697-09-10B Job type: AFEYOR0P4WJWZMBAAA ADC Used: YES
 Customer Rep: ALEX VILLEGAS Service Supervisor: C. SMITH Operator/ Pump: K. BAITH/ES

OXY

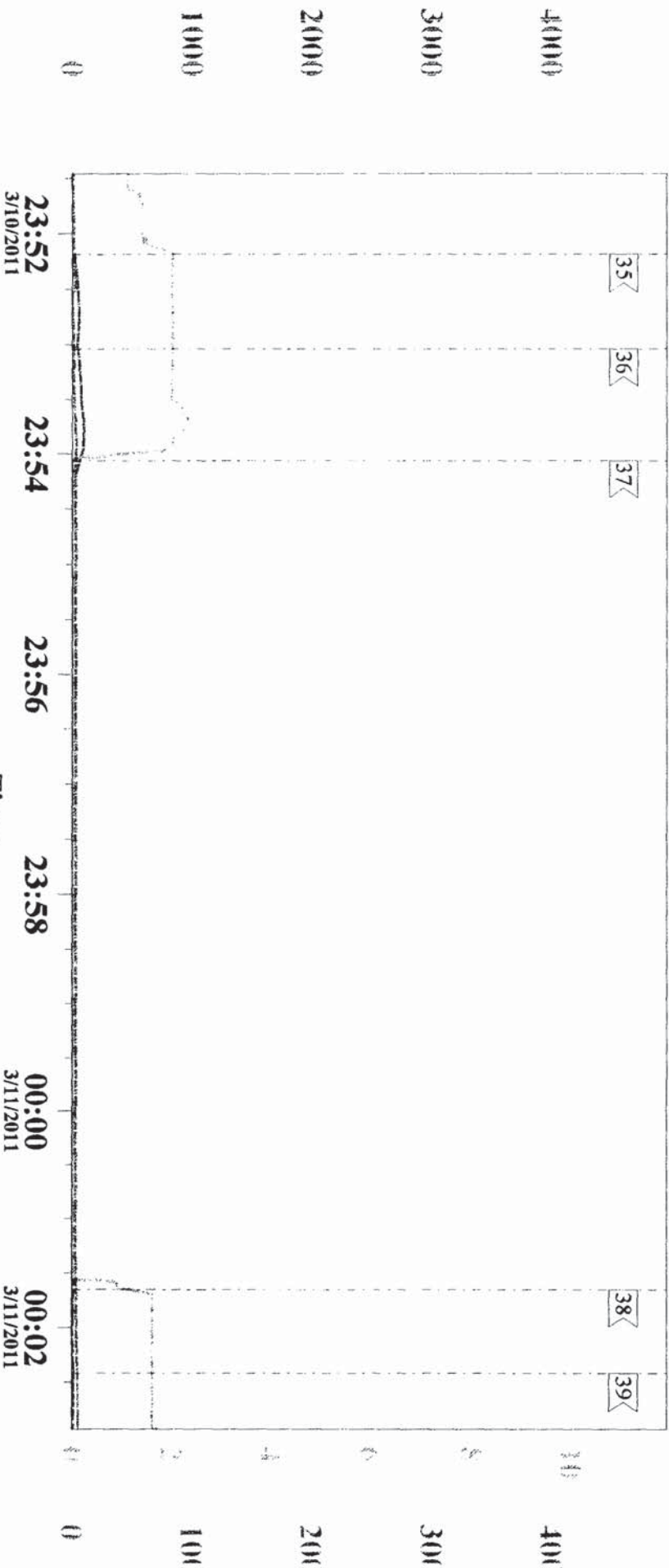
TOP OUT 4/CC 697-09-10B

A

SI Pass-Side Pump Pressure (psi) ——— A
 SI Pump Stage Total (bbl) ——— D

D

D



Local Event Log

Maximum	SPPP	Maximum	SPPP
35< PUMP H2O SPACER	3/10/2011 23:52:11 55.000	36< PUMP CEMENT	3/10/2011 23:53:02 93.000
37< SHUTDOWN	3/10/2011 23:54:04 60.000	38< CLEAN LINES	3/11/2011 00:01:39 5.000
39< END JOB	3/11/2011 00:02:25 78.000		

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10B
 Customer Rep: ALEX VILLEGAS

Job Date: 10-Mar-2011
 Job type: AFEYOROP4WJWZMBAAA
 Service Supervisor: C. SMITH

Sales Order #: 7842135
 ADC Used: YES
 Operator/ Pump: K. BATH/E5

Sales Order #: 7842135	Line Item: 10	Survey Conducted Date: 3/11/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VILLIAS		API / UWI: (leave blank if unknown) AFEY0R0P4WJWZMBAAA
Well Name: CC		Well Number: 697-09-10B
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	3/11/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ALEX VILLIAS
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 #: 7842135	Line Item: 10	Survey Conducted Date: 3/11/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VILLIAS		API / UWI: (leave blank if unknown) AFEY0R0P4WJWZMBAAA
Well Name: CC		Well Number: 697-09-10B
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	3/11/2011

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.	9
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.	7.5
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

Sales Order #: 7842135	Line Item: 10	Survey Conducted Date: 3/11/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VILLIAS		API / UWI: (leave blank if unknown) AFEY0R0P4WJWZMBAAA
Well Name: CC		Well Number: 697-09-10B
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	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