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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-08-56B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**05-Sep-2010**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2805333	Quote #:	Sales Order #: 7617457
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Silva, Marco		
Well Name: CC	Well #: 697-08-56B	API/UWI #: 05-045-17574	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.531 deg. OR N 39 deg. 31 min. 50.621 secs.	Long: W 108.233 deg. OR W -109 deg. 46 min. 0.44 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: DUNNING, DUSTIN	Srv Supervisor: Rockert, Christopher	MBU ID Emp #: 332914	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HAYES, JESSE Doug	12	403601	LEIST, JAMES R	5	362787	MAGERS, MICHAEL Gerard	12	339439
Rockert, Christopher	12	332914	SALAZAR, PAUL Omar	5	445614	STEELE, BENJAMIN F	12	458599

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	120 mile	10804487	120 mile	10822535	120 mile	10829469	120 mile

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/5/10	12	3						

TOTAL	Total is the sum of each column separately							
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## Job

## Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	2776. ft	2776. ft					On Location	05 - Sep - 2010	03:00	MST
							Wk Ht Above Floor	15. ft			Job Started	05 - Sep - 2010	10:07	MST
											Job Completed	05 - Sep - 2010	12:44	MST
											Departed Loc	05 - Sep - 2010	16:45	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
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Sales/Rental/3<sup>rd</sup> 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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	
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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20	bbl	8.33	.0	.0	.0	
2	Super Flush 101	SUPER FLUSH 101 - SBM (12199)	20	bbl	10.	.0	.0	.0	
3	Water Spacer		20	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	897	sacks	12.3	2.33	12.62		12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160	sacks	12.8	2.07	10.67		10.67
		10.67 Gal	FRESH WATER						
6	Displacement		206.3	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	29	sacks	12.5	1.97	10.96		10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	206.3	Shut In: Instant		Lost Returns	NO	Cement Slurry	431.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	YES	Actual Displacement	206.3	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	763
Rates									
Circulating	RIG	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	43.88 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: DUNNING, DUSTIN	Srvc Supervisor: Rockert, Christopher	MBU ID Emp #: 332914	

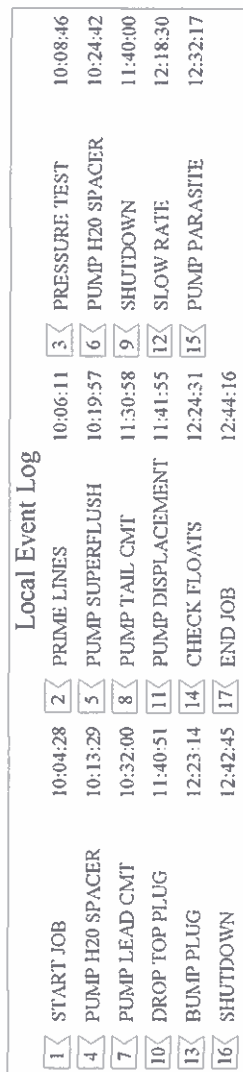
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/04/2010 22:00							TD-2700/ TP-2776/ SHOE-43.88/ MUD-9.1/ HOLE-13.75
Arrive At Loc	09/05/2010 03:00							STILL RUNNING CASING WHEN WE SHOWED UP ON LOCATION
Rig-Up Equipment	09/05/2010 03:15							CHARGED NO ADDITIONAL HOURS DUE TO THE FACT THAT WE COST THE RIG SOME RIG TIME.
Pre-Job Safety Meeting	09/05/2010 05:00							COMPANY MAN CONFIRMED PLUG WAS LOADED
Other	09/05/2010 05:36							STARTED JOB DID PRESSURE TEST THEN AFTER PRESSURE TEST STARTED TO PUMP FIRST SPACER AND PASSENGER SIDE SUCTION HEADER VIC CLAMP FAILED AND WAS LEAKING ALL OVER LOCATION. CALLED FOR ANOTHER PUMP SHUTDOWN AT 0545 AND STARTED BACK AT 1007
Start Job	09/05/2010 10:07							HEAD WAS SECURED DOWN FOR ENTIRE CEMENT JOB
Pump Water	09/05/2010 10:07		1.5		2		86.0	WATER AHEAD TO FILL LINES

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	09/05/2010 10:09						6900.0	NO LEAKS
Pump Spacer 1	09/05/2010 10:14		4		20		210.0	FRESH WATER
Pump Spacer 2	09/05/2010 10:20		6		20		440.0	SUPER FLUSH 101
Pump Spacer 1	09/05/2010 10:25		6		20		370.0	FRESH WATER
Pump Lead Cement	09/05/2010 10:32		6		372.2		280.0	897 SKS/ 2.33 YIELD/ 12.62 GAL-SK/ 12.3 PPG
Pump Tail Cement	09/05/2010 11:32		6		59		300.0	160 SKS/ 2.07 YIELD/ 10.67 GAL-SK/ 12.8 PPG
Shutdown	09/05/2010 11:40							HAD TO RIG UP FLOOR FROM LADDER CASING WAS ABOUT 15 FEET IN AIR
Drop Plug	09/05/2010 11:41							PLUG AWAY
Pump Displacement	09/05/2010 11:42		6				150.0	FRESH WATER. HAD TO VARY RATE A LITTLE THROUGHT DISPLACEMENT BECAUSE CELLAR PUMP COULD NOT KEEP UP.
Other	09/05/2010 11:54				70			136 BBLS OF CEMENT TO SURFACE
Slow Rate	09/05/2010 12:19		2		193		660.0	
Bump Plug	09/05/2010 12:24		2		206.3		720.0	PRESSURED UP TO 1260 PSI ON FLOATS
Check Floats	09/05/2010 12:25							FLOATS HELD. 1 BBL BACK
Other	09/05/2010 12:33		1		10			PUMPED 10 BBLS OF SUGAR WATER DOWN PARASITE STRING. AT 6.5 BBLS GONE GOT CIRCULATION BACK THROUGH CASING



Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	09/05/2010 12:44							COMPANY MAN WANTED TO NOT PUMP ONE FULL TIER OF LEAD CEMENT BECAUSE HE DID NOT WANT TO MUCH CEMENT TO SURFACE. I RECOMMENED THAT WE DO NOT VARY OFF OF SLURRY DESIGN BUT STILL WANTED TO ANYWAYS.
Start Job	09/05/2010 14:17							TOPOUT JOB.COULD SEE CEMENT DOWN ABOUT 40 FEET. RIG PROVIDED US WITH A 6 FOOT PIECE OF 1 INCH. DID NOT USE OURS
Pump Water	09/05/2010 14:20		1	0.5				FRESH WATER TO CLEAR LINES
Pump Cement	09/05/2010 14:21		1.5	10				MIXED UP 29 SKS OF TOPOUT ONLY PUMPED 18 SKS BECAUSE WE GOT CEMENT TO SURFACE. PUMPED REST TO THE PIT
Pump Water	09/05/2010 14:30		1	1				FRESH WATER TO CLEAN LINES
End Job	09/05/2010 14:31							GOT CEMENT TO SURFACE
Rig-Down Equipment	09/05/2010 14:45							GOOD CIRCULATION THROUGHOUT JOB
Depart Location for Service Center or Other Site	09/05/2010 16:45							THANK YOU FOR USING HALLIBURTON CHRIS ROCKERT AND CREW

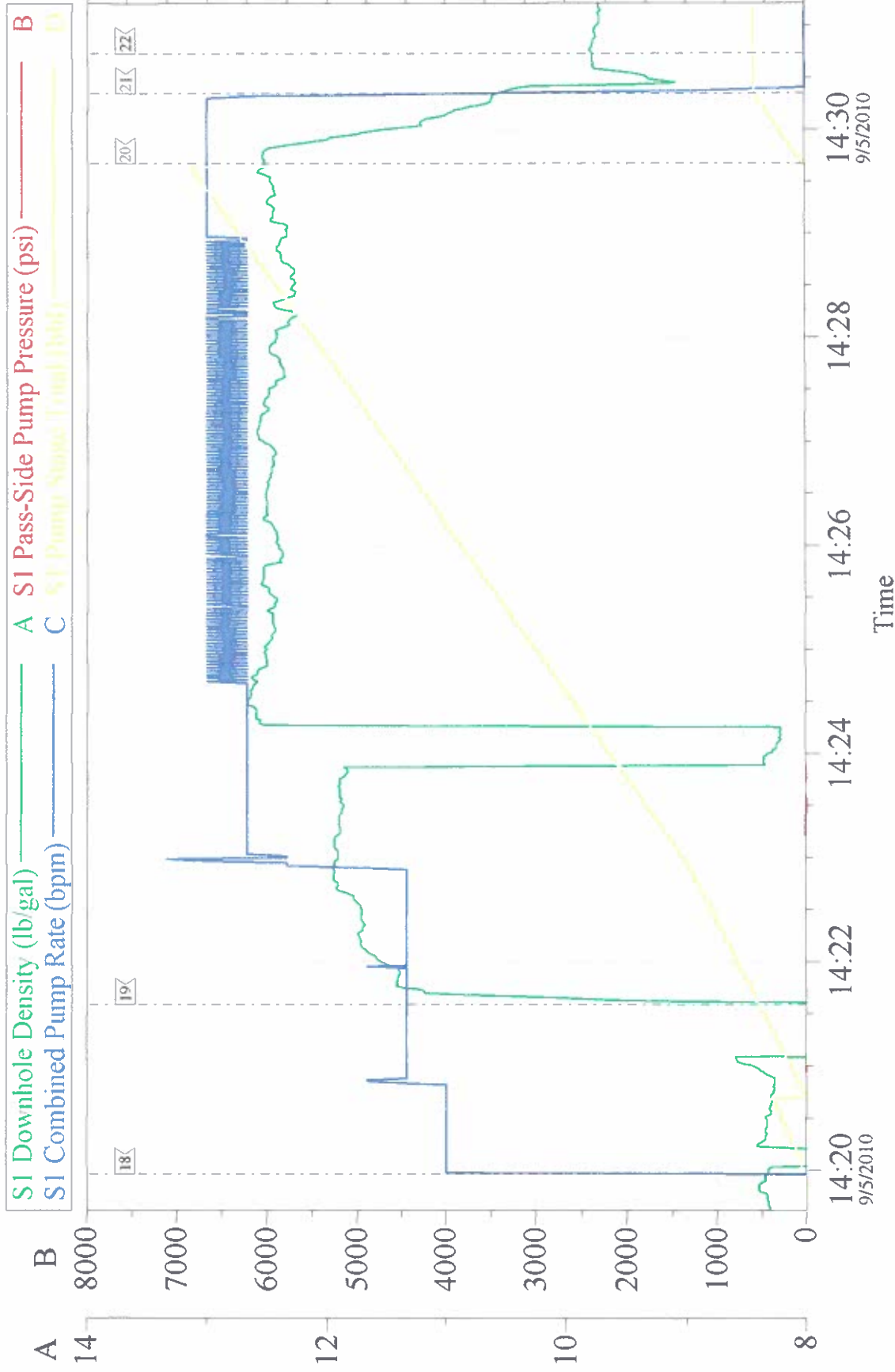
## OXY



**HALLIBURTON**  
OptiCem v6.3.4  
05-Sep-10 13:17

Customer:	OXY	Job Date:	05-Sep-2010	Sales Order #:	7617457
Well Description:	CC 697-08-56B	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	GEORGE LEARLY	Cement Supervisor:	CHRIS ROCKERT	Elite #:	9 PAUL SALAZAR

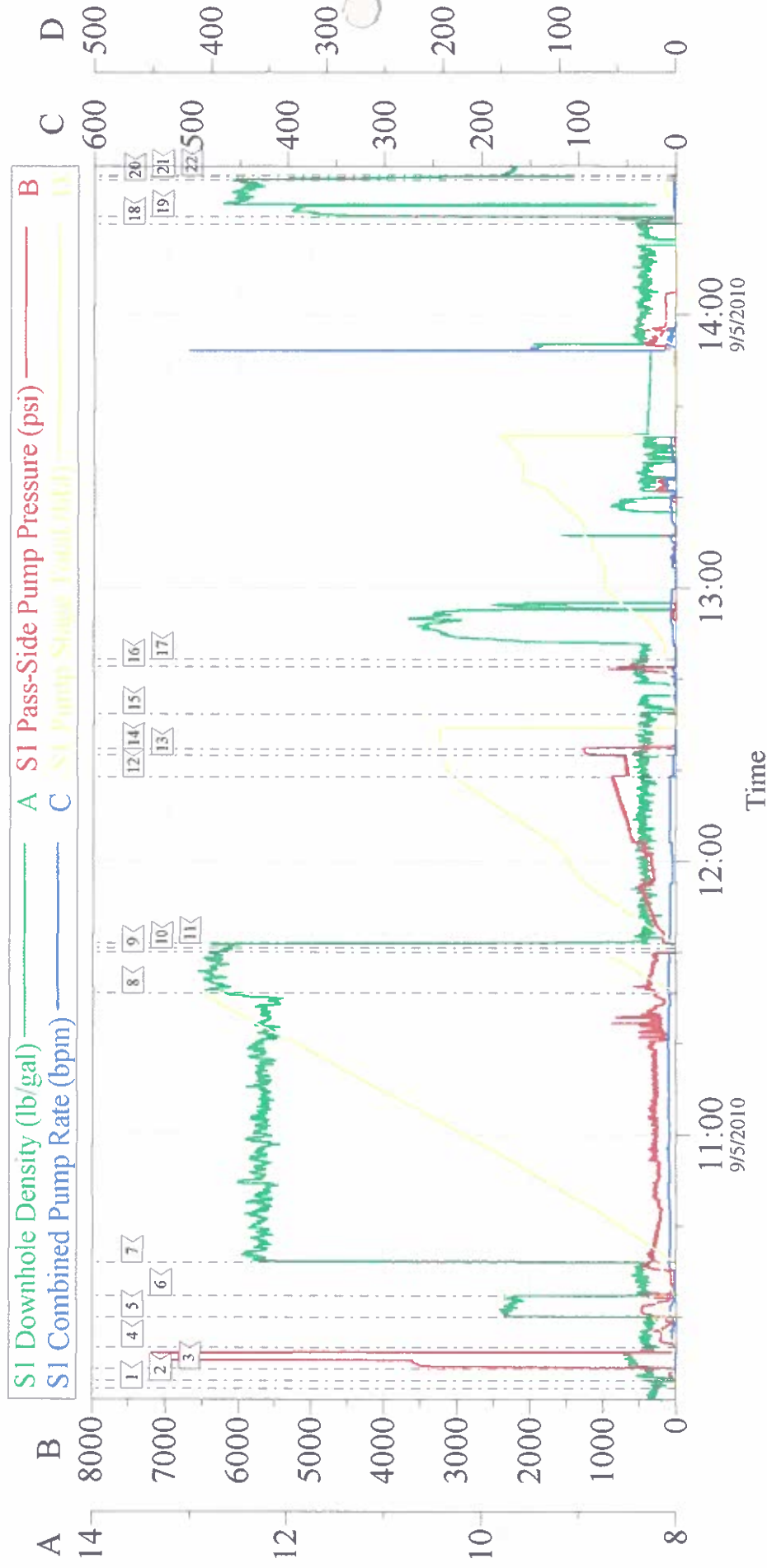
# OXY TOPOUT



Customer: OXY Well Description: CC 697-08-56B Company Rep: GEORGE LEARLY	Job Date: 05-Sep-2010	Sales Order #: 7617457
	Job Type: SURFACE	ADC Used: YES
	Cement Supervisor: CHRIS ROCKERT	Elite #: 9 PAUL SALAZAR



# OXY 9 5/8 SURFACE CASING/TOPOUT



Local Event Log								
1	START JOB	10:04:28	2	PRIME LINES	10:06:11	3	PRESSURE TEST	10:08:46
4	PUMP H2O SPACER	10:13:29	5	PUMP SUPERFLUSH	10:19:57	6	PUMP H2O SPACER	10:24:42
7	PUMP LEAD CMT	10:32:00	8	PUMP TAIL CMT	11:30:58	9	SHUTDOWN	11:40:00
10	DROP TOP PLUG	11:40:51	11	PUMP DISPLACEMENT	11:41:55	12	SLOW RATE	12:18:30
13	BUMP PLUG	12:23:14	14	CHECK FLOATS	12:24:31	15	PUMP PARASITE	12:32:17
16	SHUTDOWN	12:42:45	17	END JOB	12:44:16	18	PUMP H2O	14:19:58
19	PUMP TOPOUT CMT	14:21:35	20	PUMP H2O	14:29:40	21	SHUTDOWN	14:30:21
22	END JOB	14:30:44						

Customer:	OXY	Job Date:	05-Sep-2010	Sales Order #:	7617457
Well Description:	CC 697-08-56B	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	GEORGE LEARLY	Cement Supervisor:	CHRIS ROCKERT	Elite #:	9
					PAUL SALAZAR