
KINDER MORGAN INC - EBUS

**Hovenweep A-5
MCELMO
Montezuma County , Colorado**

Cement Intermediate Casing
12-Oct-2013

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 320986	Ship To #: 3106991	Quote #:	Sales Order #: 900795538
Customer: KINDER MORGAN INC - EBUS		Customer Rep: Hagelbarger, Mark	
Well Name: Hovenweep		Well #: A-5	API/UWI #:
Field: MCELMO	City (SAP): CORTEZ	County/Parish: Montezuma	State: Colorado
Contractor: Nabors		Rig/Platform Name/Num: Nabors 405	
Job Purpose: Cement Intermediate Casing			
Well Type: Producing Well		Job Type: Cement Intermediate Casing	
Sales Person: KEERAN, RYAN	Srvc Supervisor: WOOD, BRANDON		MBU ID Emp #: 412753

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BEGAY, LYDELL James	21	479804	DINGUS, TIM	21	345678	HARRIS, DAVE	21	123456
HUGHTE, LANDON	21	549879	MEDFORD, DALE G	21	208883	RAFF, JOHN	21	473512
TALLMAN, JESS L	21	122519	WOLFGGRAMM, SHANE	21	234567	WOOD, BRANDON M	21	412753

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025024	111 mile	10025104	111 mile	10053558	111 mile	10713294	111 mile
10741115	111 mile	10897849	111 mile	10948693	111 mile	11324578	111 mile
11528220	111 mile	11583925	111 mile	11583928	111 mile	54283	111 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

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	11 - Oct - 2013	22:30 MST
Form Type	BHST			On Location	12 - Oct - 2013	04:00 MST
Job depth MD	8230.9 ft	Job Depth TVD	8191.3 ft	Job Started	12 - Oct - 2013	00:00 MST
Water Depth		Wk Ht Above Floor	8. ft	Job Completed	12 - Oct - 2013	00:00 MST
Perforation Depth (MD)	From	To		Departed Loc	12 - Oct - 2013	00:00 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
8 3/4" Open Hole				8.75				3486.	8195.		
7" Intermediate Casing	Unknown		7.	6.184	29.			.	6389.		
7" Intermediate Casing	Unknown		7.	6.184	29.			7467.	8195.		
7" Intermediate Casing	Unknown		7.	6.094	32.			6389.	7467.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		K-55	.	3486.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER-7"-CSG-8-1/2"-HINGED	65	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
KIT,HALL WELD-A	2	EA		
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		
SUGAR, GRANULATED, IMPERIAL	300	LB		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk										
1	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	.0											
2	CHEMICAL WASH	CHEMICAL WASH - SBM (21914)			20.00	bbl	8.4	.0	.0	.0											
3	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	.0											
4	Foamed Lead Cement	ELASTISEAL (TM) SYSTEM (450262)			1800.0	sacks	13.	1.46	6.93		6.93										
	6.93 Gal	FRESH WATER																			
5	Tail Cement	POZ STANDARD 50/50 - SBM (12308)			300.0	sacks	13.5	1.28	5.67		5.67										
	0.2 %	VERSASET, 55 LB SK (101376573)																			
	0.2 %	HALAD-766, 55 LB SACK (101477695)																			
	5.667 Gal	FRESH WATER																			
6	Displacement				301.80	bbl	8.33	.0	.0	.0											
7	Cap Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)			100.0	sacks	15.8	1.17	5.02		5.02										
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)																			
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)																			
	5.019 Gal	FRESH WATER																			
Calculated Values			Pressures			Volumes															
Displacement	301.8	Shut In: Instant			Lost Returns	NO	Cement Slurry			Pad											
Top Of Cement	SURFACE	5 Min			Cement Returns	125	Actual Displacement			294	Treatment										
Frac Gradient		15 Min			Spacers	40	Load and Breakdown			Total Job											
Rates																					
Circulating		Mixing			Displacement		Avg. Job														
Cement Left In Pipe	Amount	40 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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Sold To #: 320986	Ship To #: 3106991	Quote #:	Sales Order #: 900795538
Customer: KINDER MORGAN INC - EBUS		Customer Rep: Hagelbarger, Mark	
Well Name: Hovenweep		Well #: A-5	API/UWI #:
Field: MCELMO	City (SAP): CORTEZ	County/Parish: Montezuma	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Nabors		Rig/Platform Name/Num: Nabors 405	
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Producing Well		Job Type: Cement Intermediate Casing	
Sales Person: KEERAN, RYAN		Srv Supervisor: WOOD, BRANDON	MBU ID Emp #: 412753

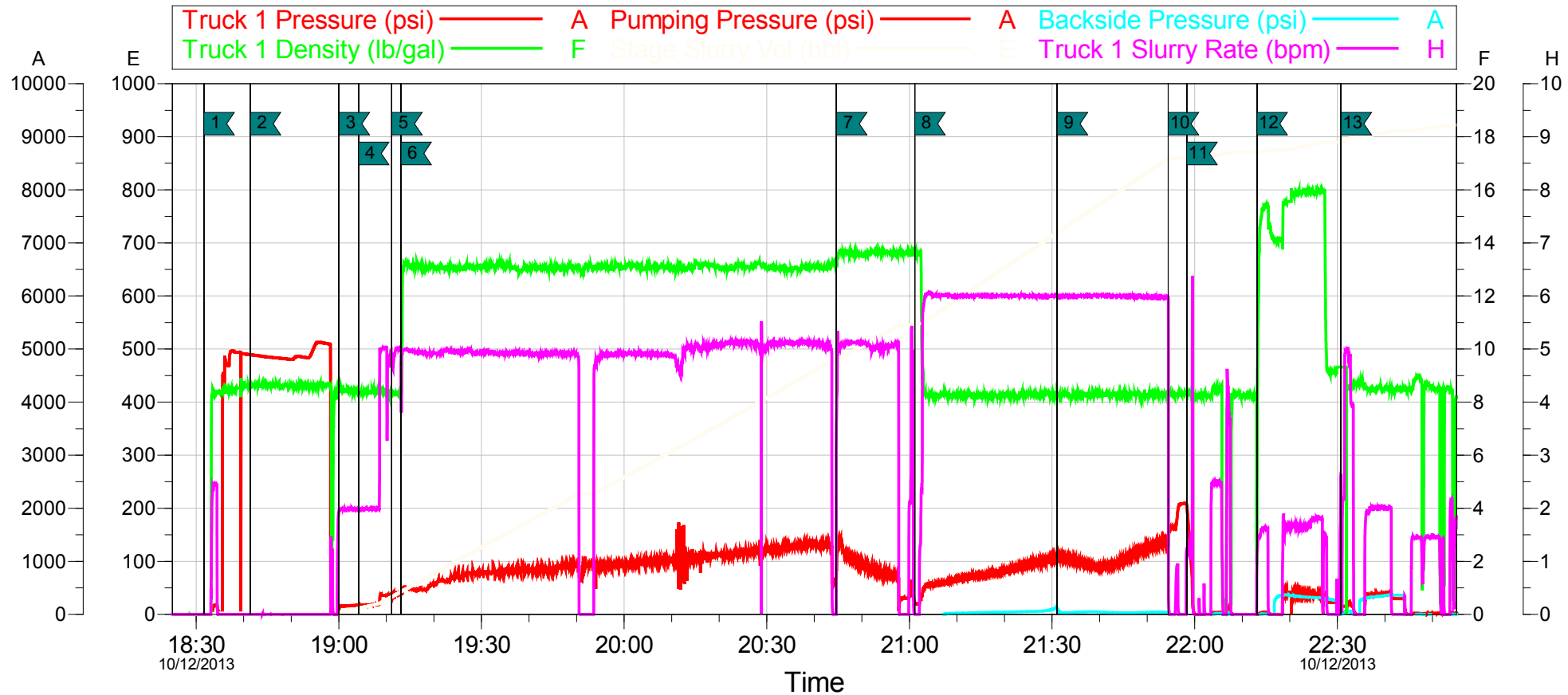
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/11/2013 22:30							
Depart Yard Safety Meeting	10/12/2013 00:25							SAFETY MEETING INVOLVING THE CMT CREW
Crew Leave Yard	10/12/2013 00:30							
Arrive At Loc	10/12/2013 03:00							1- F-450 11583925, 2- RED TIGER PUMP TRUCK 11324578, 11528220, 2- 660 BULK TRUCK TRAILERS 10025024, 10025104, 2- FSB
Assessment Of Location Safety Meeting	10/12/2013 03:05							ASSESSMENT OF LOCATION INVOLVING THE CMT CREW
Pre-Rig Up Safety Meeting	10/12/2013 16:00							SAFETY MEETING INVOLVING THE ENTIRE CMT/ RIG CREW
Rig-Up Equipment	10/12/2013 16:05							
Pre-Job Safety Meeting	10/12/2013 17:45							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	10/12/2013 18:32							TP 8230.87 FT, FC 8191.26 FT, SJ 39.61 FT, 7 " 29 & 32 # N-80, 8 3/4 OH, SURFACE SET @ 3486 FT 9 5/8 36 #
Test Lines	10/12/2013 18:41		0.5		0.4	5000.0	7000.0	PRESSURE TEST GOOD TO 5000 PSI CMT, 7000 PSI N2

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	10/12/2013 19:00		2		10		175.0	PUMP 10 BBLS H2O SPACER
Pump Spacer 2	10/12/2013 19:04		5		20		344.0	PUMP 20 BBLS CHEMWASH SPACER
Pump Spacer 1	10/12/2013 19:11		5		10		410.0	PUMP 10 BBLS H2O SPACER
Pump Lead Cement	10/12/2013 19:13		5		468		566.0	1800 SKS, 1.46 YLD, 6.93 GAL H2O/SK, 468 BBLS @ 13 #, 297 BBLS H2O REQ
Pump Tail Cement	10/12/2013 20:44		5		69.5		775.0	300 SKS, 1.3 YLD, 5.81 GAL H2O/SK, 69.5 BBLS @ 13.5 #, 41.5 BBLS H2O REQ
Shutdown	10/12/2013 21:00							SHUT DOWN TO DROP TOP PLUG
Drop Top Plug	10/12/2013 21:01							TATTLE TAIL INDICATED PLUG LEFT THE PLUG CONTAINER
Pump Displacement	10/12/2013 21:02		8		301.8		540.0	CALCULATED 301.8 BBLS DISPLACEMENT, ACTUALLY PUMPED 294 BBLS ON TANKS MARK TO MARK TO BUMP PLUG, PLUG BUMPED EARLY ON TANKS
Cement Returns to Surface	10/12/2013 21:31				175		1085.0	CALCULATED SHOULD CIRCULATE 305 BBLS CEMENT RETURNS TO SURFACE, ACTUALLY CIRCULATED 125 BBLS BACK, GOT FOAMED CEMENT TO SURFACE AFTER 175 BBLS DISPLACEMENT
Bump Plug	10/12/2013 21:54		3				1365.0	CALCULATED 1165 PSI DIFFERENTIAL WHEN PLUG LANDS, PLUG BUMPED @ 1365 PSI
Check Floats	10/12/2013 21:58						2090.0	PRESSURED UP TO 2090 PSI, RELEASED PRESSURE FLOATS HELD, FLOWED BACK 2.5 BBLS
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Cap Cement	10/12/2013 22:13		2		21		400.0	100 SKS, 1.17 YLD, 5.02 GAL H2O/SK, 20.8 BBLs @ 15.8 #, 12 BBLs H2O REQ
Clean Lines	10/12/2013 22:30		4		10			PUMP 10 BBLs CLEAN WATER TO CLEAN LINES BEFORE PUMPING WATER DOWN BACKSIDE
Pump Displacement	10/12/2013 22:35		2		10		392.0	PUMP 10 BBLs CLEAN WATER DOWN BACKSIDE
Shut In Well	10/12/2013 22:43						295.0	SHUT IT HCR VALVE W/ 295 PSI FOR NEXT 12 HOURS
End Job	10/12/2013 22:45							GOOD CIRCULATION THROUGHOUT THE ENTIRE CMT JOB, NO PIPE MOVEMENT,
Pre-Rig Down Safety Meeting	10/12/2013 22:50							SAFETY MEETING INVOLVING THE CMT/RIG CREW
Rig-Down Equipment	10/12/2013 22:55							
Safety Meeting - Departing Location	10/12/2013 23:55							SAFETY MEETING INVOLVING THE CMT CREW
Depart Location for Service Center or Other Site	10/12/2013 23:59							THANK YOU FOR USING HALLIBURTON, BRANDON WOOD AND CREW

Kinder Morgan

Hovenweep A-5 Intermediate Foam Cement



Local Event Log					
Intersection		SSV		Intersection	
1	Start Job	18:31:38	0.026	2	Pressure Test
3	Pump Fresh Water Spacer	19:00:03	3.681	4	Pump Chem WashSpacer
5	Pump Fresh Water Spacer	19:11:08	33.11	6	Pump Foamed Lead Cement
7	Pump Tail Cement	20:44:40	477.9	8	Drop Plug
9	Got Foamed Cement Returns	21:31:05	719.1	10	Bumped Plug
11	Check Floats Flowed Back 2.5 bbls	21:58:20	859.9	12	Pump Cap Cement
13	Shut Down	22:30:47	890.5		

Customer: Kinder Morgan
Well Description: Hovenweep A-5
Customer Rep: Mark Hagelbarger

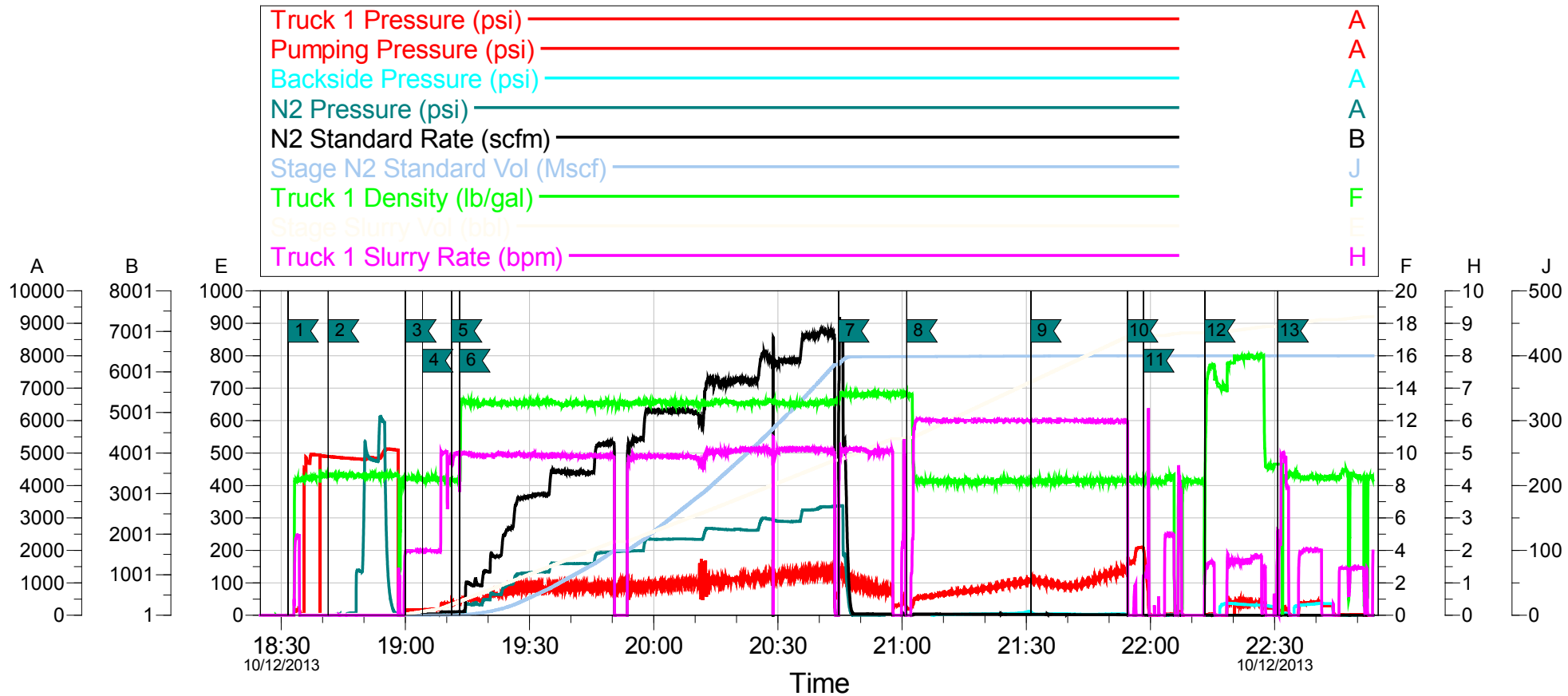
Job Date: 12-Oct-2013
Job Type: Foam Intermediate Cement
Service Supervisor: Brandon Wood

Sales Order #: 900795538
ADC Used: Yes
Pump Operator: Lydell Begay

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12-Oct-13 22:56

Kinder Morgan

Hovenweep A-5 Intermediate Foam Cement



Local Event Log						
Intersection			SSV	Intersection		
1	Start Job	18:31:38	0.026	2	Pressure Test	18:41:24
3	Pump Fresh Water Spacer	19:00:03	3.691	4	Pump Chem WashSpacer	19:04:09
5	Pump Fresh Water Spacer	19:11:08	33.11	6	Pump Foamed Lead Cement	19:13:05
7	Pump Tail Cement	20:44:40	477.9	8	Drop Plug	21:01:08
9	Got Foamed Cement Returns	21:31:05	719.1	10	Bumped Plug	21:54:26
11	Check Floats Flowed Back 2.5 bbls	21:58:20	859.9	12	Pump Cap Cement	22:13:06
13	Shut Down	22:30:47	890.5			

Customer: Kinder Morgan
Well Description: Hovenweep A-5
Customer Rep: Mark Hagelbarger

Job Date: 12-Oct-2013
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Service Supervisor: Brandon Wood

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