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**BLACK HILLS EXPLORATION & PROD-EBIZ**

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**HOMER DEEP UNIT 21-41  
SOUTH SHALE RIDGE  
Mesa County , Colorado**

**Cement Surface Casing**  
13-Aug-2011

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 306454	<b>Ship To #:</b> 2871868	<b>Quote #:</b>	<b>Sales Order #:</b> 8392946
<b>Customer:</b> BLACK HILLS EXPLORATION & PROD-EBIZ		<b>Customer Rep:</b> Baxter, Darrell	
<b>Well Name:</b> HOMER DEEP UNIT		<b>Well #:</b> 21-41	<b>API/UWI #:</b> 05-077-09439
<b>Field:</b> SOUTH SHALE RIDGE	<b>City (SAP):</b> COLLBRAN	<b>County/Parish:</b> Mesa	<b>State:</b> Colorado
<b>Lat:</b> N 39.351 deg. OR N 39 deg. 21 min. 2.268 secs.		<b>Long:</b> W 108.325 deg. OR W -109 deg. 40 min. 31.62 secs.	
<b>Contractor:</b> Frontier Drilling		<b>Rig/Platform Name/Num:</b> Frontier 15	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> ROYSTER, JACOB		<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL	<b>MBU ID Emp #:</b> 447908

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	9	371353	HARDRICK, RAYMOND Frank	9	391324	JENKINS, DEMON Lashaun	9	457892
SINGLETON, AUSTIN W	9	487406	TRIPLETT, MICHEAL Anthony	9	447908			

**Equipment**

HES Unit #	Distance-1 way						
10248065	70 mile	10616651C	70 mile	10867322	70 mile	10995025	70 mile
10998512	70 mile	11259884	70 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08/12/2011	4.5	0	08/13/2011	4.5	2			

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	12 - Aug - 2011	15:30	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	12 - Aug - 2011	19:30	MST
<b>Job depth MD</b>	450. ft	<b>Job Depth TVD</b>	450. ft	<b>Job Completed</b>	13 - Aug - 2011	02:08
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft		13 - Aug - 2011	03:26
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>	<b>Departed Loc</b>	13 - Aug - 2011	04:30	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				.	450.		
SURFACE CASING	New		13.375				J-55	.	450.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 13 3/8, HWE, 11.79 MIN/12.72	1	EA		
CENTRALIZER-13 3/8"-CSG-17 1/2"-HINGED	7	EA		
CLAMP - LIMIT - 13-3/8 - HINGED -	1	EA		
KIT, HALL WELD-A	2	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			
<b>Fluid Data</b>									
<b>Stage/Plug #: 1</b>									
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		20.00	bbl	8.34			.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	200.0	sacks	12.3	2.38	13.75		13.75
		13.75 Gal FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	100.0	sacks	12.8	2.11	11.75		11.75
		11.75 Gal FRESH WATER							
4	Displacement		62.00	bbl	8.43	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	62.6	Shut In: Instant		Lost Returns	0	Cement Slurry	122	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	205
<b>Rates</b>									
Circulating	4	Mixing	4	Displacement	4	Avg. Job	4		
Cement Left In Pipe	Amount	39.88 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				<b>Customer Representative Signature</b>					

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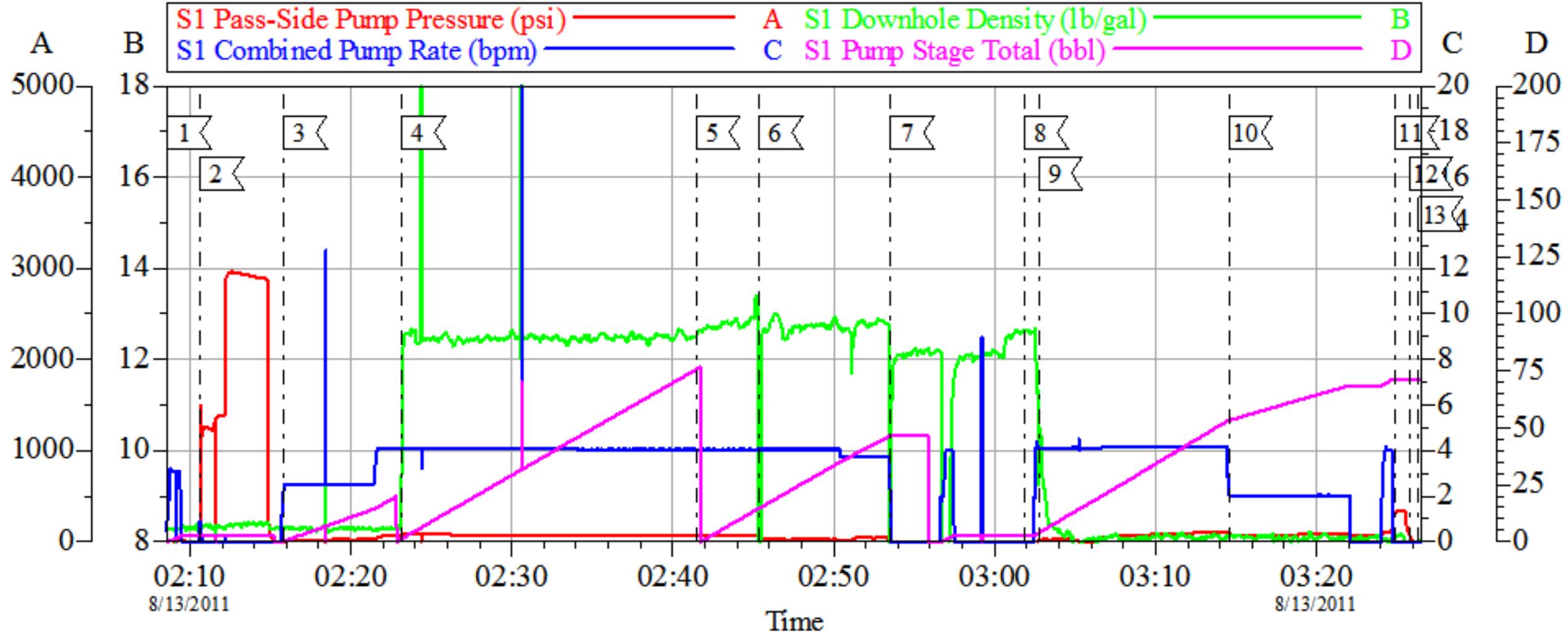
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<b>Field:</b> SOUTH SHALE RIDGE	<b>City (SAP):</b> COLLBRAN	<b>County/Parish:</b> Mesa	<b>State:</b> Colorado
<b>Legal Description:</b>			
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<b>Contractor:</b> Frontier Drilling		<b>Rig/Platform Name/Num:</b> Frontier 15	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> ROYSTER, JACOB		<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL	<b>MBU ID Emp #:</b> 447908

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/12/2011 01:16							
Pre-Convoy Safety Meeting	08/12/2011 01:16							
Crew Leave Yard	08/12/2011 01:16							
Arrive At Loc	08/12/2011 01:16							RIG WAS RUNNING CASING, VERIFY CEMENT AND NUMBERS WITH COMPANY REP. HAD TO CALL FOR MORE CEMENT DUE TO NOT HAVING ENOUGH FOR JOB.
Assessment Of Location Safety Meeting	08/12/2011 01:16							
Other	08/12/2011 01:16							SPOT EQUIPMENT, 1 RCM PUMP TRUCK, 1 660, 1 BODY LOAD
Pre-Rig Up Safety Meeting	08/12/2011 01:16							GO OVER JSA AND HAVE CREW SIGN.
Rig-Up Equipment	08/12/2011 01:16							
Pre-Job Safety Meeting	08/13/2011 01:50							GO OVER SAFETY INFORMATION AND JOB PROCEDURES.
Start Job	08/13/2011 02:08							TD:450', TP:445', SJ:39.88', MW:9.1, CASING: 13.375" 54.5#, OH: 17.5"
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Test Lines	08/13/2011 02:10						3000.0	PRESSURE TEST LINES AND PUMP STARTED AT 2982 PSI AND ENDED AT 2910 PSI. LOST 70 PSI IN TWO MINUTES.
Pump Spacer 1	08/13/2011 02:15		4	20			85.0	FRESH WATER
Pump Lead Cement	08/13/2011 02:23		4	84.8			88.0	200 SACKS MIXED @ 12.3, 2.38 YIELD, 13.75GAL/SACK
Pump Tail Cement	08/13/2011 02:41		4	37.6			43.0	100 SACKS MIXED @ 12.8, 2.11 YIELD, 11.75 GAL/SACK
Shutdown	08/13/2011 02:53							
Drop Top Plug	08/13/2011 03:01							VERIFY PLUG LEFT, HAD TO PUSH PLUG DOWN BY HAND.
Pump Displacement	08/13/2011 03:02		4	62.6			130.0	FRESHWATER
Slow Rate	08/13/2011 03:14		4	52.6			94.0	SLOWRAT LAST 10 BBLs PRIOR TO BUMPING THE PLUG, PLUG DIDN'T BUP AT 2 BPM, PLUG BUMPED AT 4 BPM.
Bump Plug	08/13/2011 03:24						126.0	BUMP PLUG AND WENT 300 PSI OVER TO 426 PSI
Check Floats	08/13/2011 03:25							FLOATS HELD
End Job	08/13/2011 03:26							GOOD CIRCULATION THROUGHOUT THE JOB. GOT CEMENT RETURNS WITH 40 BBLs OF DISPLACEMENT AWAY. GOT 20 BBLs OF CEMENT BACK TO SURFACE. NO ADDITIONAL HOURS CHARGED.
Post-Job Safety Meeting (Pre Rig-Down)	08/13/2011 03:30							
Rig-Down Equipment	08/13/2011 03:40							
Pre-Convoy Safety Meeting	08/13/2011 04:25							
Crew Leave Location	08/13/2011 04:30							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

# BLACK HILLS

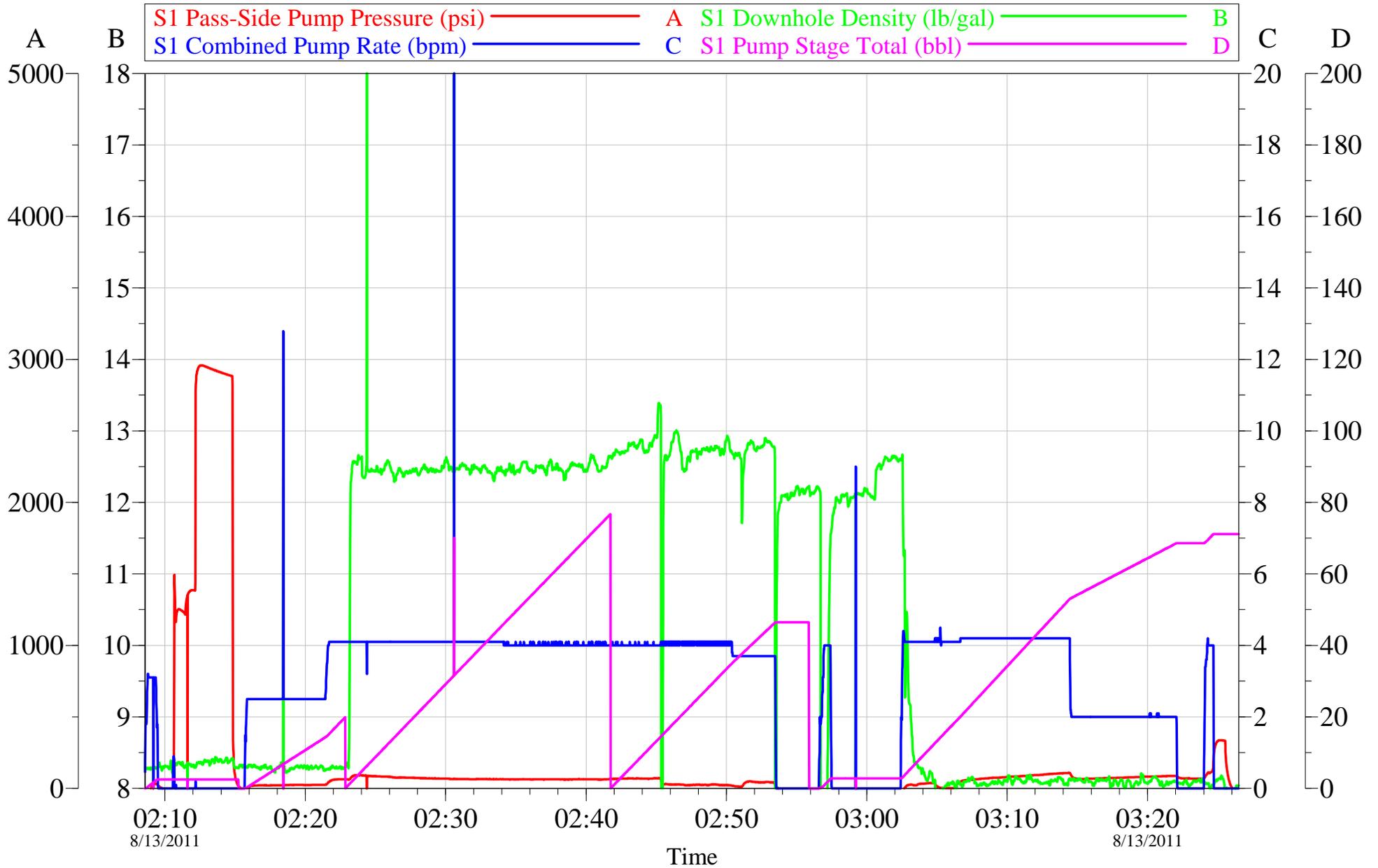
## SURFACE HOMER DEEP UNIT 21-41



Local Event Log			
1	START JOB	02:08:37	2 PRESSURE TEST 02:10:39
3	START FRESHWATER SPACER	02:15:48	4 START LEAD CEMENT 02:23:10
5	START TAIL CEMENT	02:41:28	6 SUCKED AIR 02:45:22
7	SHUTDOWN	02:53:33	8 DROP PLUG 03:01:51
9	START DISPLACEMENT	03:02:44	10 SLOWRATE 03:14:33
11	BUMP PLUG	03:24:53	12 CHECK FLOATS 03:25:45
13	END JOB	03:26:20	

Customer: BLACK HILLS	Job Date: 13-Aug-2011	Sales Order #: 8392946
Well Description: HOMER DEEP UNIT 21-41	JOB TYPE: SURFACE	COMPANY REP: DARRELL BAXTER
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 4/ BRENT BANKS

# BLACK HILLS SURFACE HOMER DEEP UNIT 21-41



Customer: BLACK HILLS	Job Date: 13-Aug-2011	Sales Order #: 8392946
Well Description: HOMER DEEP UNIT 21-41	JOB TYPE: SURFACE	COMPANY REP: DARRELL BAXTER
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 4/ BRENT BANKS

<b>Sales Order #:</b> 8392946	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/13/2011
<b>Customer:</b> BLACK HILLS EXPLORATION & PROD-EBIZ		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DARRELL BAXTER		<b>API / UWI: (leave blank if unknown)</b> 05-077-09439
<b>Well Name:</b> HOMER DEEP UNIT		<b>Well Number:</b> 21-41
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Mesa

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	8/13/2011
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	DARRELL BAXTER
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	GOOD JOB
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.	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Mesa

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	8/13/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	7
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>Customer Representative:</b> DARRELL BAXTER		<b>API / UWI: (leave blank if unknown)</b> 05-077-09439
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Mesa

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0