

**WILLIAMS PRODUCTION RMT INC - EBUS
DO NOT MAIL - PO BOX 3102
TOWER 3 SUITE 1000
TULSA, Oklahoma**

PA
PA 43-20

NABORS/NABORS/577

Post Job Summary **Cement Surface Casing**

Prepared for:
Date Prepared:
Version: 1

Service Supervisor: REEVES, BRANDON

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2867128	Quote #:	Sales Order #: 8335114
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: LARRY NICHOLAS	
Well Name: PA	Well #: 43-20	API/UWI #: 05-045-20251	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.591 secs.		Long: W 108.019 deg. OR W -109 deg. 58 min. 51.488 secs.	
Contractor: NABORS		Rig/Platform Name/Num: NABORS 577	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: SCOTT, KYLE		Srv Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/28/2011 16:00							
Pre-Convoy Safety Meeting	08/28/2011 17:00							WITH ALL HES EMPLOYEES
Arrive at Location from Service Center	08/28/2011 19:50							
Assessment Of Location Safety Meeting	08/28/2011 20:15							WITH ALL HES EMPLOYEES
Other	08/28/2011 20:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	08/28/2011 20:45							WITH ALL HES EMPLOYEES
Rig-Up Equipment	08/28/2011 21:15							
Pre-Job Safety Meeting	08/28/2011 23:20							WITH ALL HES EMPLOYEES AND RIG CREW.
Start Job	08/28/2011 23:32							TD-1065' TP-1052' SJ- 44' MW-10.0# CASING-9 5/8" 32.3# HOLE-13 1/2"
Test Lines	08/28/2011 23:34						2900. 0	
Pump Spacer 1	08/28/2011 23:37		5	10			245.0	FRESH WATER SPACER
Drop Top Plug	08/29/2011 00:04							
Pump Displacement	08/29/2011 00:06		10				620.0	FRESH WATER DISPLACEMENT
Slow Rate	08/29/2011 00:15		2	70			260.0	
Bump Plug	08/29/2011 00:19		2	79			950.0	PLUG LANDED AT 260 PSI. PRESSURED UP TO 950 PSI
Check Floats	08/29/2011 00:22							FLOATS HELD

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	08/29/2011 00:24							WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATUION THROUGHOUT THE JOB. PIPE WAS NOT RECIPROCATED. CIRCULATED 21 BLLS. OF CEMENT TO SURFACE.
Rig-Down Equipment	08/29/2011 00:45							THANKS FOR USING HALLIBURTON. BRANDON REEVES AND CREW.
Pump Tail Cement	08/29/2011 23:47		8	116.5			460.0	310 SKS. @ 12.8# 2.11 YIELD 11.75 WRQ.

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Sales Person: SCOTT, KYLE			Srvs Supervisor: REEVES, BRANDON			MBU ID Emp #: 287883	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DOUT, JACOB J	5	430298	FINK, JOHN	5	476032	KUKUS, CHRISTOPHER A	5	413952
REEVES, BRANDON W	5	287883	ROSS, CHARLES Raymond	5	453128			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	60 mile	10567589C	60 mile	10995027	60 mile	11071559	60 mile
11259883	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08/28/2011	4	.5	08/29/2011	1	.5			
TOTAL	Total is the sum of each column separately							

Job

Formation Name					Job Times			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type		BHST			On Location	28 - Aug - 2011	19:50	MST
Job depth MD	1052. ft	Job Depth TVD	1052. ft		Job Started	29 - Aug - 2011	23:32	MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	29 - Aug - 2011	00:24	MST
Perforation Depth (MD)	From	To			Departed Loc	29 - Aug - 2011	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
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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	9 6.25"	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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0		
2	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	310.0	sacks	12.8	2.11	11.75		11.75	
11.75 Gal		FRESH WATER								
3	Displacement Fluid		79.00	bbl	8.34	.0	.0	.0		
Calculated Values		Pressures		Volumes						
Displacement	79.3	Shut In: Instant		Lost Returns	0	Cement Slurry	116.5	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	21	Actual Displacement	79	Treatment		
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job		
Rates										
Circulating		Mixing	8	Displacement	10	Avg. Job	9			
Cement Left In Pipe	Amount	44 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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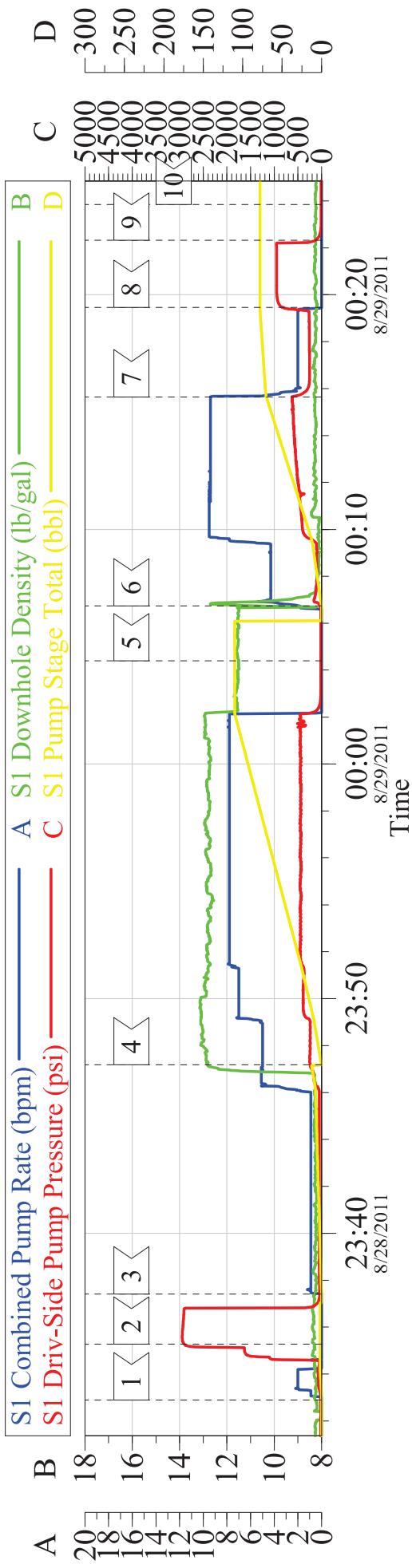
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EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		0 <u>Max Psi</u>			
6	Test Lines	3000 PSI				
9	H2O Spacer	10.0				
15	Tail Cement	116.5	310	12.8	2.11	11.75
23	Displace with H2O	79.3				
26	Land Plug	235 PSI				
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
79.33	1052	44.00	1008.00	0.0787	210 BBLS.	
PSI to Lift Pipe	396 PSI	***** <u>Use Mud Scales on Each Tier</u> *****				
Total Displacement	79.33					
CALCULATED DIFFERENTIAL PSI		235 PSI	TOTAL FLUID PUMPED		215 BBLS.	
Collapse		Burst		SO#	8335114	

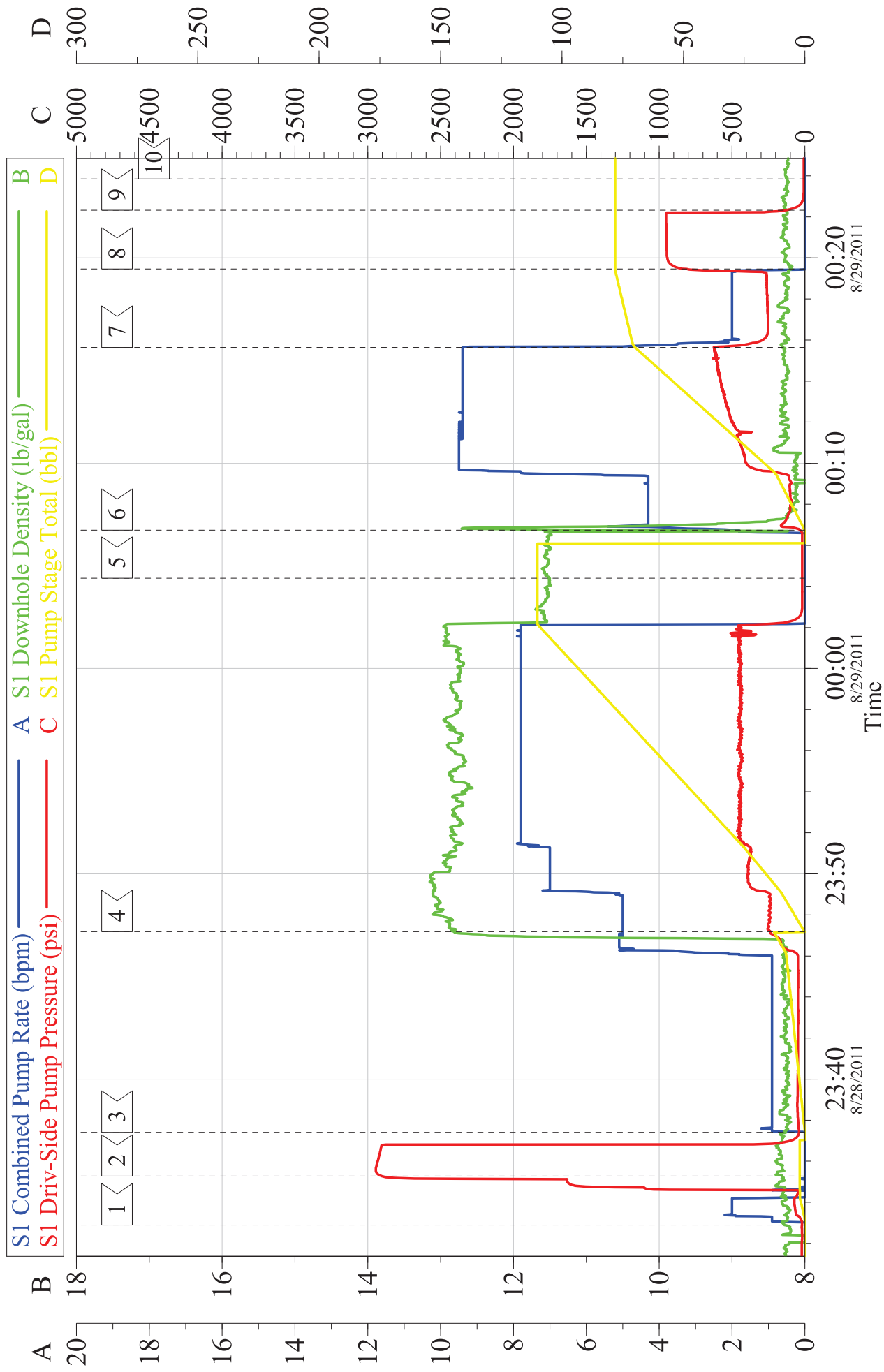
WILLIAMS PRODUCTION
9 5/8" SURFACE



Local Event Log			
Intersection		SDPP	
1	START JOB	8/28/2011 23:32:54	20.00
2	TEST LINES	8/28/2011 23:35:16	2904
3	PUMP H2O SPACER	8/28/2011 23:37:25	39.06
4	PUMP TAIL CEMENT	8/28/2011 23:47:11	237.1
5	DROP TOP PLUG	8/29/2011 00:04:24	18.00
6	PUMP DISPLACEMENT	8/29/2011 00:06:44	33.04
7	SLOW RATE	8/29/2011 00:15:39	624.1
8	LAND PLUG	8/29/2011 00:19:28	820.9
9	CHECK FLOATS	8/29/2011 00:22:19	134.0
10	END JOB	8/29/2011 00:23:51	7.000

Customer:	WILLIAMS PRODUCTION	Job Date:	28-Aug-2011	Sales Order #:	8335114
Well Description:	PA 43-20	Job Type:	SURFACE	ADC Used:	YES
Supervisor:	BRANDON REEVES	Company Rep:	LARRY NICHOLAS	Elite/Operator:	3/JACOB DOUT

WILLIAMS PRODUCTION
9 5/8" SURFACE



Customer: WILLIAMS PRODUCTION	Job Date: 28-Aug-2011	Sales Order #: 8335114
Well Description: PA 43-20	Job Type: SURFACE	ADC Used: YES
Supervisor: BRANDON REEVES	Company Rep: LARRY NICHOLAS	Elite/Operator: 3/JACOB DOUT

HALLIBURTON

Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: BRANDON REEVES

Attention: J. TROUT/C.MARTINEZ

Lease PA

Well # 43-20

Date: 8/28/2011

Date Rec.: 8/28/2011

S.O.# 8335114

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.8
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	72 Deg
Total Dissolved Solids		120 Mg / L

Respectfully: BRANDON REEVES

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 #: 8335114	Line Item: 10	Survey Conducted Date: 8/29/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: LARRY NICHOLAS		API / UWI: (leave blank if unknown) 05-045-20251
Well Name: PA		Well Number: 43-20
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	8/29/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	BRANDON REEVES (HBT9414)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	LARRY NICHOLAS
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

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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 The date the survey was conducted	8/29/2011

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 biggest deviation for the job you just completed? This may not be the maximum well deviation	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up Pumping Rig-down Enter in decimal format	2
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	1
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	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for an period of time	0
Was this a Primary Cement Job (Yes / No)	Yes

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H2S Present:	Well State: Colorado	Well County: Garfield

Primar <input type="checkbox"/> Cement Job <input type="checkbox"/> Casing Job <input type="checkbox"/> Liner Job <input type="checkbox"/> or Tie-back <input type="checkbox"/> Job <input type="checkbox"/>	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs <input type="checkbox"/>	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 <input type="checkbox"/>	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1 bbl/min Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped multiplied by 100	98
Nbr of Remedial Spill Jobs Rqd vs Competition Number Of Remedial Spill Jobs Required After Primary Job Performed vs Competition	0
Nbr of Remedial Plug Jobs Rqd vs HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped vs HES	0
Nbr of Remedial Spill Jobs Rqd vs HES Number Of Remedial Spill Jobs Required After Primary Job Performed vs HES	0