

**QUICKSILVER RESOURCES INC-EBUSINESS
DO NOT MAIL-801 CHERRY ST
FORT WORTH, Texas**

K-DIAMOND
K-DIAMOND 32-10

DHS/14

Post Job Summary **Cement Surface Casing**

Prepared for: 10/30/12
Date Prepared: Dustin Damme
Version: 1

Service Supervisor: FUCHS, ERIC

Submitted by: Chris Cicirello

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Wellbore Geometry

Job Tubulars					MD		TVD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft		
Open Hole Section	Surface Open Hole		14.750		0.00	1,200.00				0.00
Casing	Surface Casing	11.75	11.084	42.00	0.00	1,200.00				40.00

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water	8.34	0.00	10.0 bbl	10.0 bbl
1	2	Spacer	SUPER FLUSH 101	10.00	0.00	20.0 bbl	20.0 bbl
1	3	Spacer	Fresh Water	8.34	0.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	VariCem V1	12.30		270.0 sacks	270.0 sacks
1	5	Cement Slurry	VariCem V1	13.50		265.0 sacks	265.0 sacks
1	6	Mud	Displacement	0.00	0.00	138.0 bbl	138.0 bbl
1	7	Cement Slurry	HalCem TopOut	15.80			138.0 bbl

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Service Supervisor Reports

Job Log

Date/Time	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
10/04/2012 10:45	Call Out				Crew gets called out
10/04/2012 13:00	Depart from Service Center or Other Site				Crew leaves the yard
10/04/2012 17:00	Arrive At Loc				Crew arrives at location
10/04/2012 17:05	Comment				Rig not ready, they are moving slower than expected we will have to wait for a while to start rigging up
10/04/2012 17:10	Assessment Of Location Safety Meeting				Crew assesses location and goes over what they will do and the order they will do it in when they can rig up
10/04/2012 22:50	Pre-Rig Up Safety Meeting				Crew has pre rig up safety meeting
10/04/2012 23:00	Rig-Up Equipment				Crew rigs up
10/04/2012 23:40	Rig-Up Completed				Crew done rigging up
10/04/2012 23:45	Casing on Bottom				Casing on bottom rig going to circulate until casing crew is out of the way and we are rigged up. they are going to circulate the hole at 9 bpm
10/05/2012 01:00	Pre-Job Safety Meeting				Crew has safety meeting with rig crew and company rep
10/05/2012 02:02	Other	2	3	142.0	Fill lines with 3 bbls water
10/05/2012 02:03	Test Lines			3000.0	Test the surface lines to 3000 psi
10/05/2012 02:09	Pump Water	4	10	44.0	Pump 10 bbls fresh water
10/05/2012 02:10	Pump Spacer	4	20	93.0	Pump 20 bbls superflush 10#
10/05/2012 02:14	Pump Water	4	10	137.0	Pump 10 bbls fresh water
10/05/2012 02:19	Pump Lead Cement	6	110	47.0	Pump 110 bbls 270 sks lead cement 12.3# 2.28 yd 12.78 gal/sk
10/05/2012 02:25	Comment			107.0	Truck kicked out because the kick outs were set low and it happend twice
10/05/2012 02:46	Pump Tail Cement	6	83	82.0	Pump 83 bbls 265 sks tail cement 13.5 # 1.75 yd 8.83 gal/sk
10/05/2012 03:01	Shutdown			105.0	Shut down
10/05/2012 03:02	Drop Plug				Drop plug
10/05/2012 03:02	Comment				Clean cement out of pump truck
10/05/2012 03:05	Pump Displacement	6	138	66.0	Pump 138 bbls oil base mud 8.5 #
10/05/2012 03:08	Cement Returns to Surface			212.0	After only 10 bbls of displacement away we got cement to surface giving us 128 bbls of cement to surface
10/05/2012 03:34	Slow Rate			452.0	Slow rate to 3 bpm to bump the plug
10/05/2012 03:35	Bump Plug			791.0	Bump Plugged plug at 440 psi and went to 950 psi
10/05/2012 03:35	Shutdown				Shutdown
10/05/2012 03:37	Check Floats			158.0	Check floats and got half of a bbl back to the truck
10/05/2012 03:38	End Job			24.0	We had good returns through the whole job and when we bumped the plug the cement only dropped about 1 inch in 10 min so per company man we did not top out.

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Date/Time	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
10/05/2012 03:50	Post-Job Safety Meeting (Pre Rig-Down)				Crew has post job safety meeting
10/05/2012 04:00	Rig-Down Equipment				Crew rigs down
10/05/2012 05:00	Rig-Down Completed				Crew done rigging down
10/05/2012 05:20	Pre-Convoy Safety Meeting				Crew has pre convoy safety meeting
10/05/2012 05:30	Depart Location for Service Center or Other Site				Crew departs location

The Road to Excellence Starts with Safety

Sold To #: 346707	Ship To #: 2954766	Quote #:	Sales Order #: 9852172
Customer: QUICKSILVER RESOURCES INC-EBUSINESS		Customer Rep:	
Well Name: K-DIAMOND		Well #: 32-10	API/UWI #:
Field:	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Contractor: DHS		Rig/Platform Name/Num: 14	

Job Purpose: Cement Surface Casing

Well Type: Exploratory / Wildcat **Job Type:** Cement Surface Casing

Sales Person: SCOTT, KYLE **Srvc Supervisor:** FUCHS, ERIC **MBU ID Emp #:** 471203

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARPENTER, LANCE S	12.0	461737	FUCHS, ERIC James	12.0	471203	HAVILI, ETUATE S	12.0	522123
PORTER, MICHAEL James	12.0	491145	VALLELY, SCOTT Lawrence	12.0	530611			

Equipment

HES Unit #	Distance-1 way						
10265375	120 mile	10872113	120 mile	10991613	120 mile	11139326	120 mile
11277046	120 mile	11338215	120 mile	11526496	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/4/12	7.0	0.0	10/5/12	5.5	1.75			

TOTAL Total is the sum of each column separately

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	1195. ft	1200. ft	5. ft				04 - Oct - 2012	10:45	MST	
											04 - Oct - 2012	17:00	MST	
											05 - Oct - 2012	02:00	MST	
											05 - Oct - 2012	03:40	MST	
											05 - Oct - 2012	05:30	MST	

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Open Hole			14.75			.	1200.		
Surface Casing	Unknown	11.75	11.084	42.	H-40	.	1200.		

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

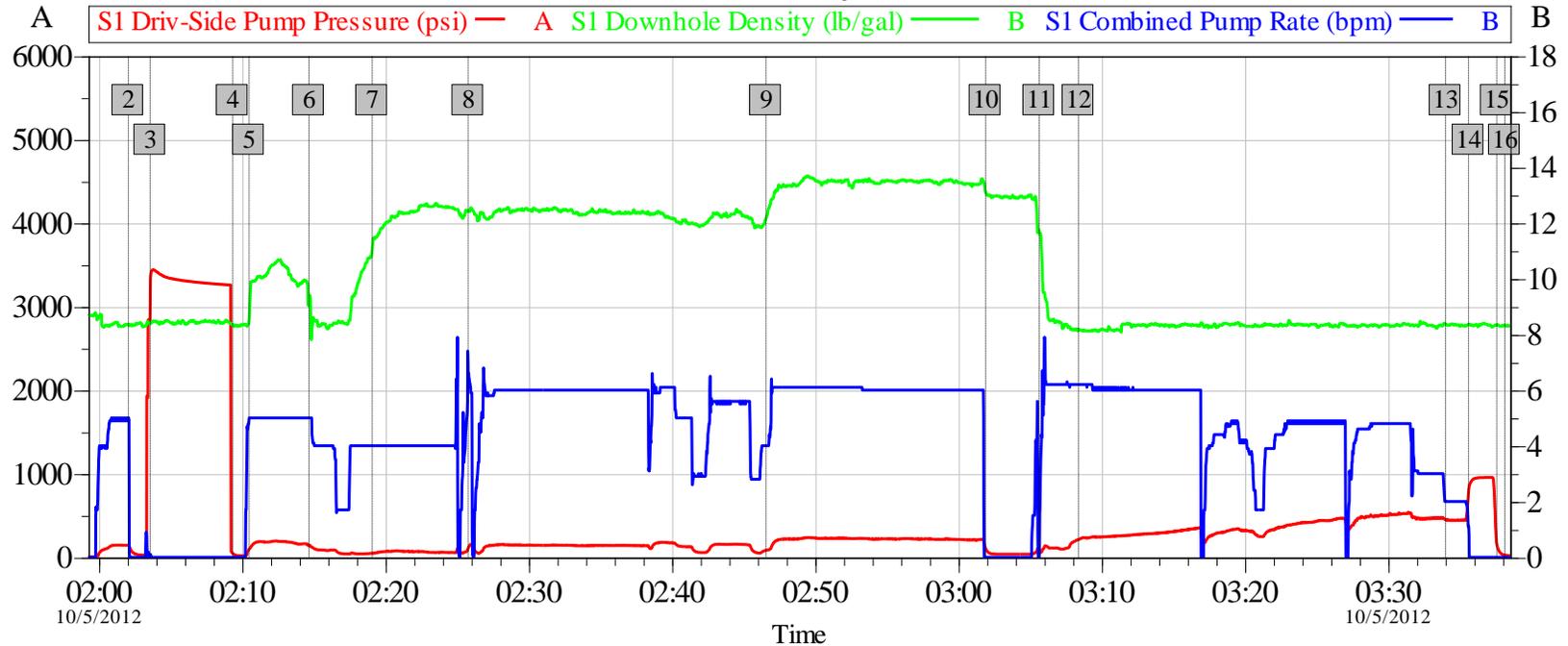
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Conc	Qty

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		10.00	bbl	8.34	.0	.0	.0	
2	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	2.11	13.09	.0	
3	Fresh Water		10.00	bbl	8.34	.0	.0	.0	
4	VariCem V1	VARICEM (TM) CEMENT (452009)	270.0	sacks	12.3	2.28	12.78		12.78
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	12.78 Gal	FRESH WATER							
5	VariCem V1	VARICEM (TM) CEMENT (452009)	265.0	sacks	13.5	1.75	8.83		8.83
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	8.83 Gal	FRESH WATER							
6	Displacement		138.00	bbl	.			.0	
7	HalCem TopOut	HALCEM (TM) SYSTEM (452986)		sacks	15.8	1.2	5.2		5.2
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	5.2 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	138	Shut In: Instant		Lost Returns		Cement Slurry	192.2	Pad	
Top Of Cement	0	5 Min		Cement Returns	128	Actual Displacement	138	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	370.2
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
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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Data Acquisition

Quicksilver DHS 14 K-Diamond 32-10 Job Summary Chart

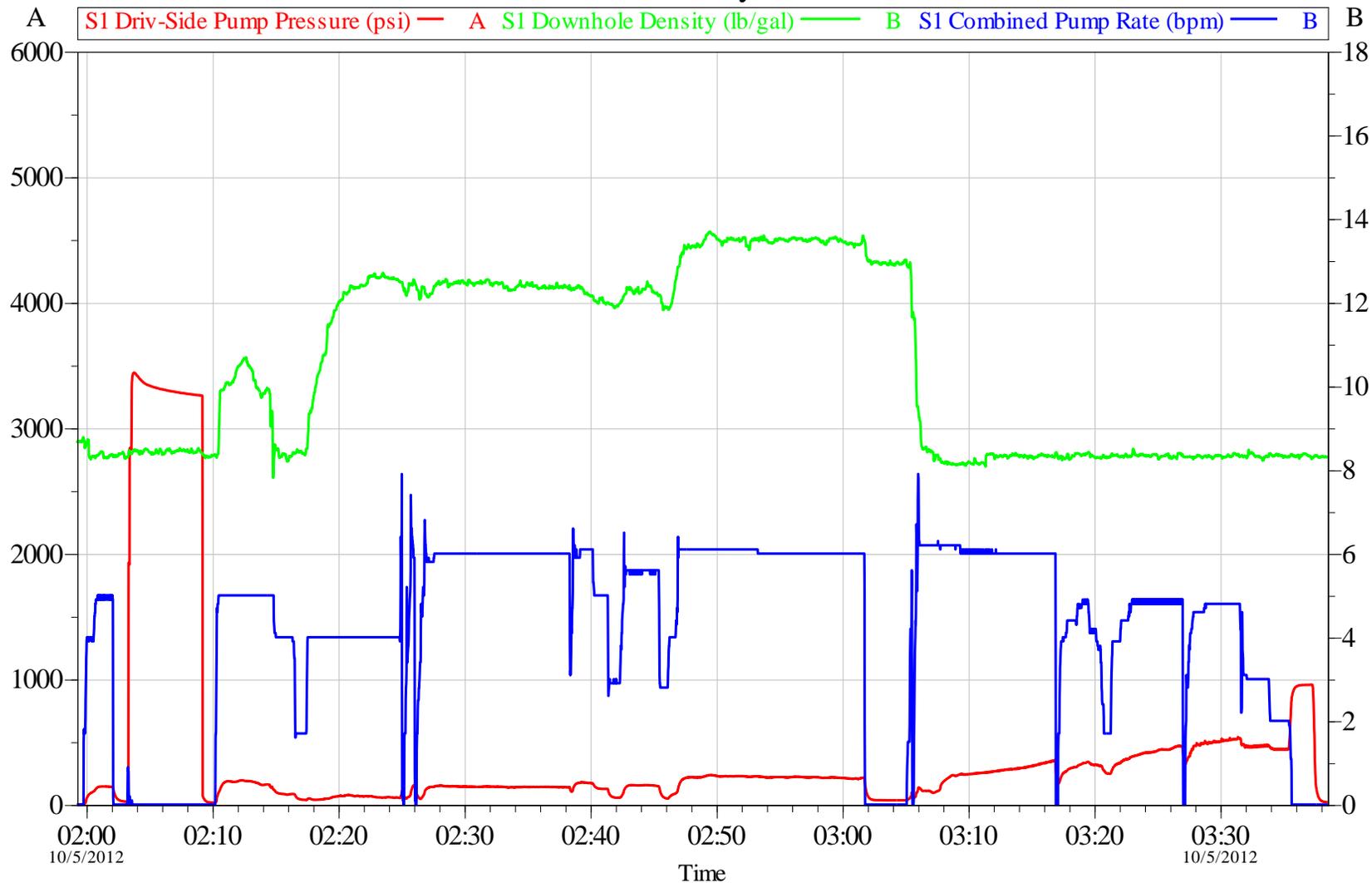


Global Event Log					
Intersection	PSI	Intersection	PSI	Intersection	PSI
2 Fill Lines	02:02:04 142.0	3 Test Lines	02:03:36 2906	4 Pump Water	02:09:22 44.41
5 Pump Super Flush	02:10:30 93.58	6 Pump Water	02:14:41 137.1	7 Pump Lead Cement	02:19:06 47.00
8 Comment	02:25:48 107.5	9 Pump Tail Cement	02:46:35 82.02	10 Shutdown	03:01:55 105.7
11 Pump Displacement	03:05:39 66.17	12 Cement Returns to Surface	03:08:24 212.1	13 Slow Rate	03:34:02 452.9
14 Bump Plug	03:35:38 791.6	15 Check Floats	03:37:36 158.8	16 End Job	03:38:10 24.00

Customer: Quicksilver	Job Date: 04-Oct-2012	Sales Order #: 9852172
Well Description: K-Diamond 32-10	UWI:	Elite Number 10872113
Service Supervisor E. Fuchs	Service Operator M. Porter	Service Leader S. Carpenter

OptiCem v6.4.10
05-Oct-12 04:39

Quicksilver DHS 14 K-Diamond 32-10 Job Summary Chart



Customer: Quicksilver	Job Date: 04-Oct-2012	Sales Order #: 9852172
Well Description: K-Diamond 32-10	UWI:	Elite Number 10872113
Service Supervisor E. Fuchs	Service Operator M. Porter	Service Leader S. Carpenter

OptiCem v6.4.10
05-Oct-12 04:41

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Lab Data

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Cementing Rockies, Vernal

LAB RESULTS - Lead

Job Information

Request/Slurry	275323/1	Rig Name	DHS DRILLING #6	Date	28/SEP/2012
Submitted By	Craig Dube	Job Type	Surface Casing	Bulk Plant	Vernal
Customer	Quicksilver Resources Inc.	Location	Moffat	Well	K-DIAMOND 32-10

Well Information

Casing/Liner Size	9.5/8"	Depth MD	1200 ft	BHST	97 F
Hole Size	12 1/4"	Depth TVD	1200 ft	BHCT	82 F

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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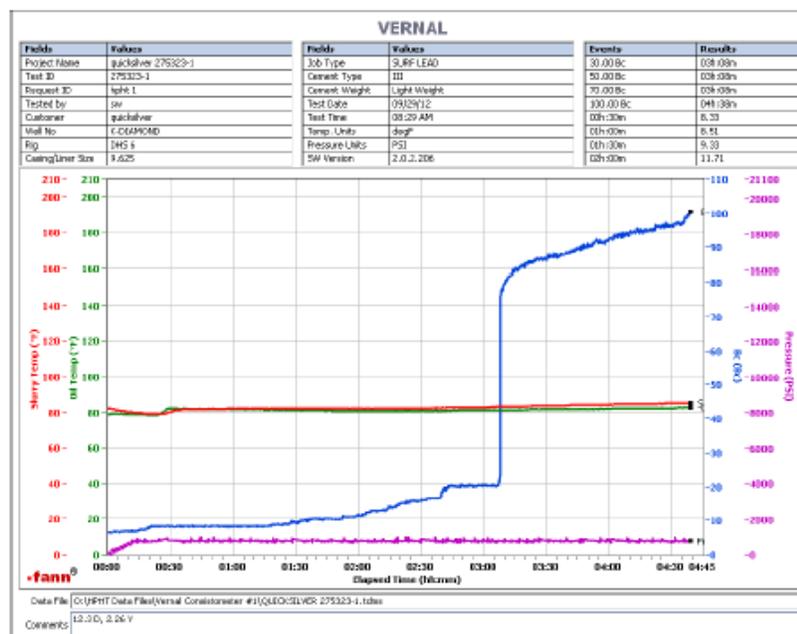
Cement Information - Lead Design

Conc	UOM	Cement/Additive	Type	Sample Date	Lot No.	Cement Properties
		VariCem V1				Slurry Density 12.30 PPG
100.00	% BWOC	Holcim Type III	Buk	Sep 29, 2012	100012229	Slurry Yield 2.26 ft3/sk
0.125	lb/sk	Pol-E-Flake	Buk	Sep 29, 2012	4/10/2012	Water Requirement 12.61 G/PS
5.000	lb/sk	Kol-Seal	Buk	Sep 29, 2012	8/22/2012	Total Mix Fluid 12.61 G/PS
12.61	gal/sack	Field (Fresh) Water	Lab	Aug 23, 2012	8/23/12	Water Source Field (Fresh) Water
						Water Chloride N/A ppm

Operation Test Results Request ID 275323/1

Thickening Time

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
82	798	14	7	03:08	03:08	03:08	04:38



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Cementing Rockies, Vernal

LAB RESULTS - Tail

Job Information

Request/Slurry	275324/1	Rig Name	DHS DRILLING #6	Date	28/SEP/2012
Submitted By	Craig Dube	Job Type	Surface Casing	Bulk Plant	Vernal
Customer	Quicksilver Resources Inc.	Location	Moffat	Well	K-DIAMOND 32-10

Well Information

Casing/Liner Size	9.5/8"	Depth MD	1200 ft	BHST	97 F
Hole Size	12 1/4"	Depth TVD	1200 ft	BHCT	82 F

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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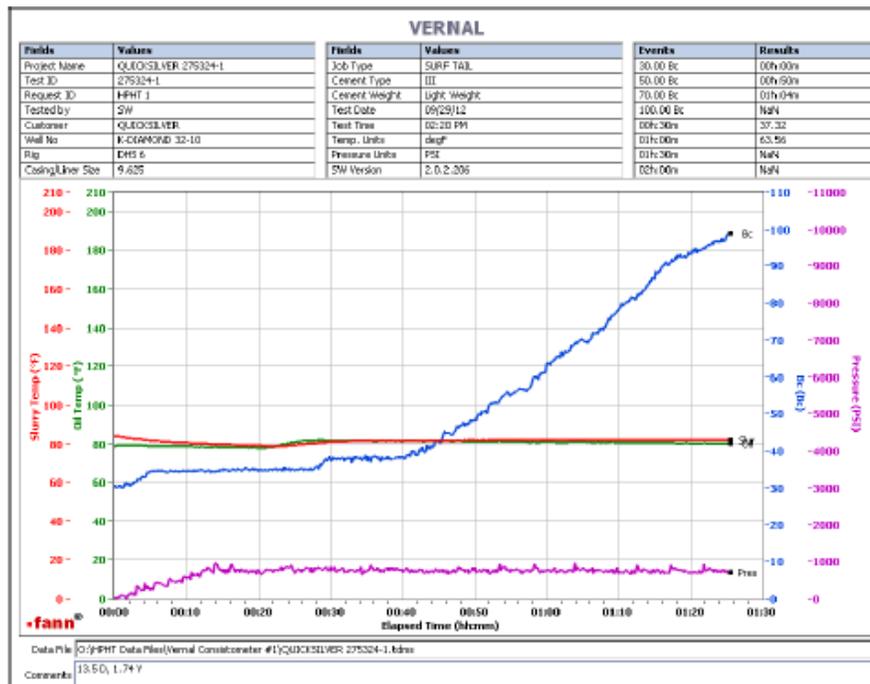
Cement Information - Tail Design

Conc	UOM	Cement/Additive	Type	Sample Date	Lot No.	Cement Properties		
		Varicem V1				Slurry Density	13.50	PPG
						Slurry Yield	1.74	ft ³ /sk
100.00	% BWOC	Cement Blend	Bulk	Sep 29, 2012		Water Requirement	8.68	GPS
0.125	lb/sk	Pol-E-Flake	Bulk	Sep 29, 2012	4/10/2012	Total Mix Fluid	8.68	GPS
5.000	lb/sk	Kol-Seal	Bulk	Sep 29, 2012	8/20/2012	Water Source	Field (Fresh) Water	
8.68	gal/sack	Field (Fresh) Water	Lab	Aug 23, 2012	8/23/12	Water Chloride	N/A	ppm

Operation Test Results Request ID 275324/1

Thickening Time

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	Termination Time	Termination BC
82	798	14	30	00:00	00:50	01:04	01:25	99



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