

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

Pertlaw 24-33

DHS 20

Post Job Summary

Cement Conductor Casing

Date Prepared: 4/23/12
Version: 1

Service Supervisor: MCKEE, RALPH

Submitted by: Isaac Whorl

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Wellbore Geometry

Job Tubulars					MD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft		
Open Hole Section	Surface Open Hole		20.000		0.00	40.00	100.00	0.00
Casing	Conductor Casing	16.00	15.124	75.00	0.00	40.00		40.00

Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Density lbm/gal	Avg Rate bbl/min	Volume
1	Cement Slurry	HalCem	15.60	2.00	160.0 sacks

Job Summary

Job Information

Job Start Date	4/9/2012 7:20:00 AM
Job MD	40.0 ft
Surface Temperature at Time of Job	55 degF
Mud Type	LSND
Actual Mud Density	9 lbm/gal
Calculated Displacement	7.00 bbl
Amount of Cement Returns	7.00 bbl

Cementing Equipment

Plug set used?	No
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Service Supervisor Reports

Job Log

Date/Time	Activity Code	Pump Rate	Volume	Comments
04/09/2012 00:00	Call Out			Crew called out for job.
04/09/2012 01:00	Pre-Convoy Safety Meeting			Met with crew to discuss the hazards of travel, convoy order, and route to destination.
04/09/2012 01:10	Depart from Service Center or Other Site			Entered into Journey Management.
04/09/2012 05:30	Arrive at Location from Service Center			Ended Journey Management.
04/09/2012 05:35	Other			Met with company man to get numbers and verify information.
04/09/2012 05:36	Other			RIG WELDING FITTING FOR CONNECTION
04/09/2012 05:40	Assessment Of Location Safety Meeting			Walked around location with crew to identify material locations (water, mud, etc), potential hazards for spotting equipment, and discussed equipment placement.
04/09/2012 05:50	Other			Spot Equipment
04/09/2012 05:55	Pre-Rig Up Safety Meeting			Discuss Safety and hazards.
04/09/2012 06:05	Rig-Up Equipment			Rig iron on the ground.
04/09/2012 07:00	Pre-Job Safety Meeting			DSCUSS SAFETY CONCERNS, JOB CONTINGENCIES, AND PUMPING SCHEDULE
04/09/2012 07:21	Pump Water	2		FRESH
04/09/2012 07:24	Shutdown			MIX CC AND CEMENT
04/09/2012 07:39	Pump Cement	2		110 SKS HALCEM WITH 2.5 % CC @ 15.6 #, 1.19 Y, 5.2 GPS.
04/09/2012 07:48	Shutdown		14	@ 14 BBL HAD GOOD CMT TO SURFACE / SHUT DOWN @18.5 BBL AWY/ WAIT TO SEE IF FALLS
04/09/2012 07:53	Pump Cement	2	3	7.5 BBL INTO CELLAR / TOTAL OF 22 BBL MIXED AND PUMPED
04/09/2012 07:57	Shutdown			
04/09/2012 08:00	Pump Displacement - Start	1.5		SHOULD LEAVE 1.8 BBL CMT IN BOTTOM OF CSG.
04/09/2012 08:04	Shutdown			

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Date/Time	Activity Code	Pump Rate	Volume	Comments
04/09/2012 08:08	End Job			
04/09/2012 08:15	Post-Job Safety Meeting (Pre Rig-Down)			
04/09/2012 08:25	Rig-Down Equipment			
04/09/2012 09:45	Safety Meeting - Departing Location			
04/09/2012 10:00	Crew Leave Location			
04/09/2012 10:00	Other			Thanks for using Halliburton!!!

The Road to Excellence Starts with Safety

Sold To #: 346707	Ship To #: 346707	Quote #:	Sales Order #: 9423741
Customer: QUICKSILVER RESOURCES INC-EBUSINESS		Customer Rep:	
Well Name: Pertlaw		Well #: 24-33	API/UWI #:
Field:	City (SAP): FORT WORTH	County/Parish: Moffat	State: Colorado
Legal Description: Section 12 Township 6N Range 93W			
Contractor: DHS		Rig/Platform Name/Num: DHS 20	
Job Purpose: Cement Surface Casing			
Well Type: Exploratory / Wildcat		Job Type: Cement Conductor Casing	
Sales Person: SCOTT, KYLE		Srvc Supervisor: MCKEE, RALPH	MBU ID Emp #: 259268

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GOODRICH, BENJAMIN Franklin	4.5	481342	LAWTON, CURTIS Keith	4.5	492181	MCKEE, RALPH R	4.5	259268

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4-9-2012	4.5	1						

TOTAL Total is the sum of each column separately

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	40. ft				

Job Times

Date	Time	Time Zone
04 - Sep - 2012	00:01	MST
09 - Apr - 2012	05:30	MST
09 - Apr - 2012	07:20	MST
09 - Apr - 2012	08:11	MST
09 - Apr - 2012	10:00	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
Surface Open Hole				20.				.	40.		
Conductor Casing	Unknown		16.	15.124	75.		J-55	.	40.		

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

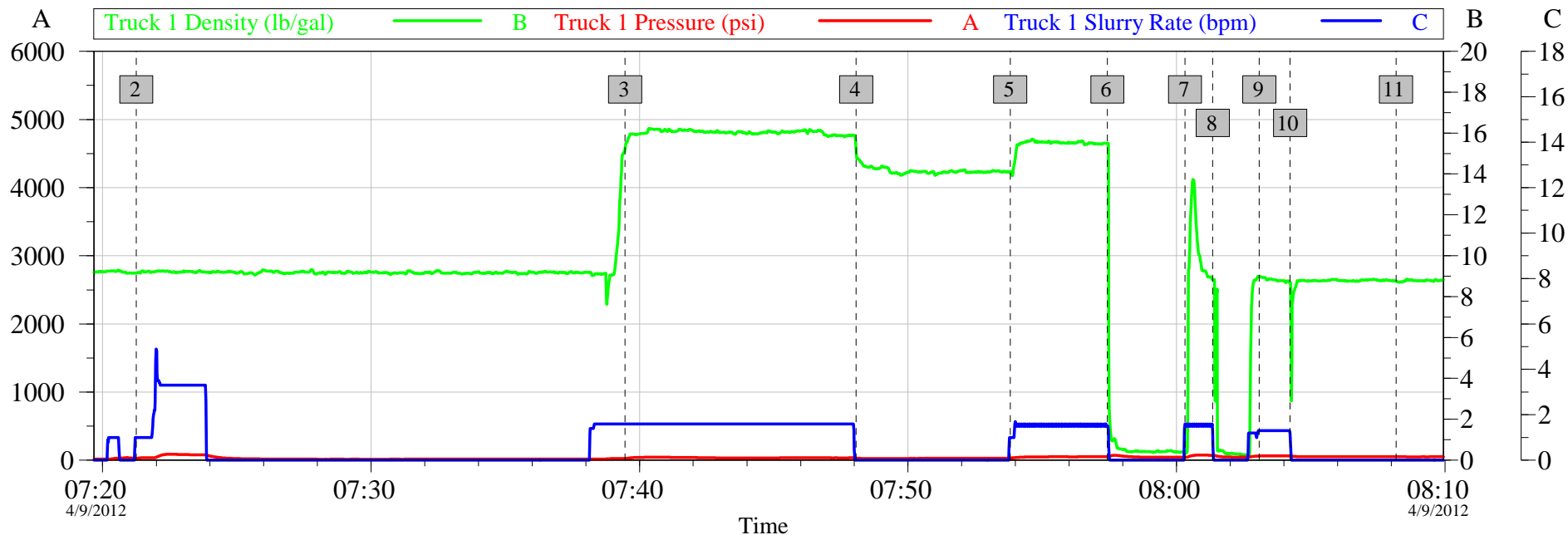
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	HalCem TopOut	HALCEM (TM) SYSTEM (452986)	160.0	sacks	15.6	1.19	5.2		5.2
2 %		CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
5.202 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	8.8	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement	0	5 Min		Cement Returns	7	Actual Displacement	7	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	2	Displacement	1.5	Avg. Job	2		
Cement Left In Pipe	Amount	8 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 CONDUCTOR PERTLAW #23-24

4-9-2012



Global Event Log

Intersection	T1P	Intersection	T1P
2 PUMP FRESH TO CIRCULATE WELL	07:21:15 26.00	3 PUMP CMT.	07:39:28 25.97
4 SHUT DOWN / HESITATE	07:48:04 30.44	5 RESUME PUMPING	07:53:48 31.70
6 SHUT DOWN	07:57:25 46.66	7 PUMP DISPLACEMENT	08:00:19 43.00
8 SHUT DOWN FOR SUCTION TRUCK	08:01:21 74.00	9 RESUME DISPLACEMENT	08:03:05 62.23
10 SHUT DOWN	08:04:14 65.00	11 END JOB	08:08:11 50.00

Customer: QUICKSILVER
Well Description: PERTLAW 23-24
ELITE 10574660

Job Date: 09-Apr-2012
UWI:
SUPERVISOR R. MCLEE

Sales Order #: 9423741

OptiCem v6.4.10
09-Apr-12 08:33