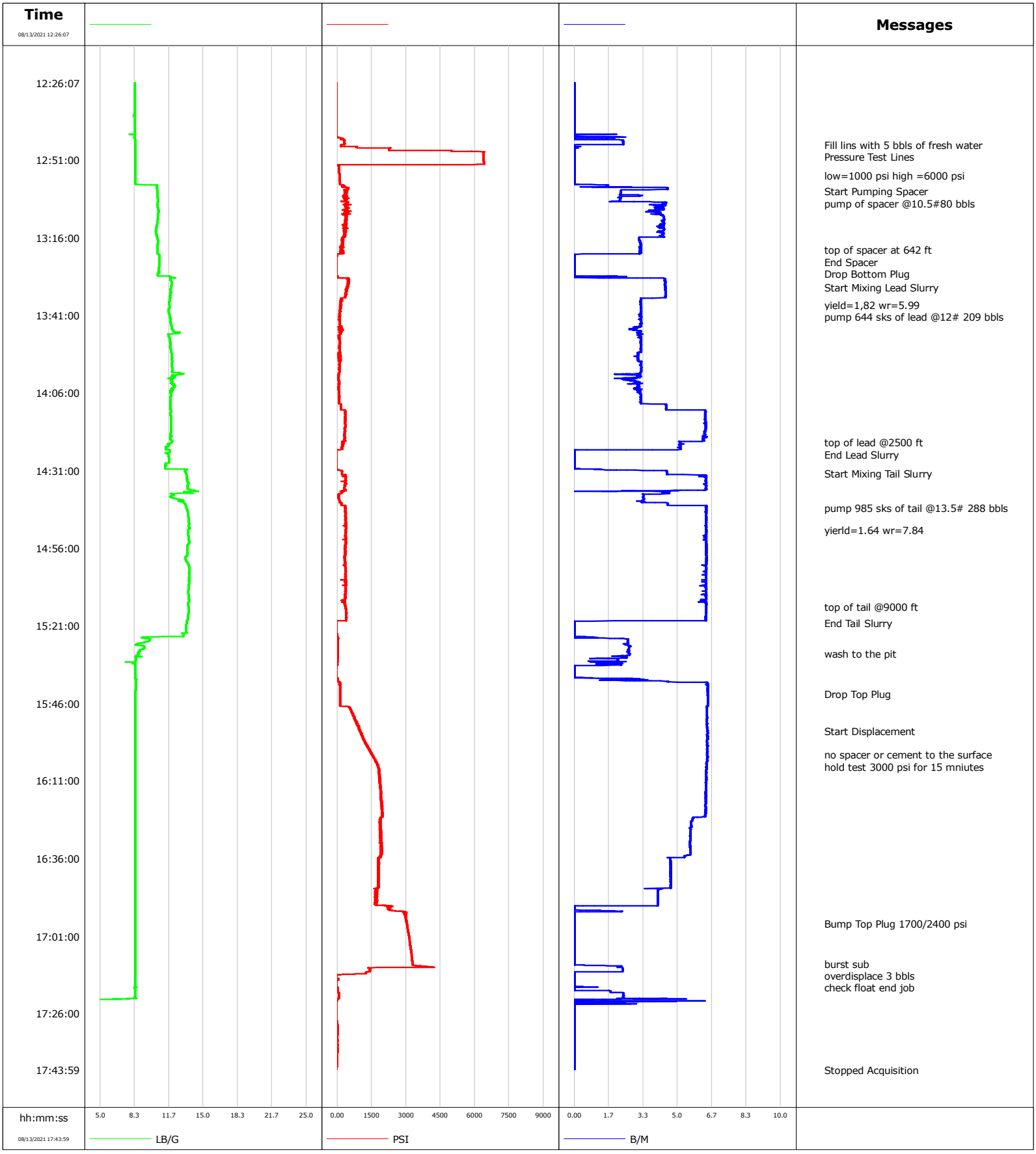
Schlumberger

Cementing Job Report

Well	BAKE	**Client**	ANADARKO
Field	DJ	**SIR No.**	3233122
Engineer	ALBERT SNYDER	**Job Type**	PRODUCTION
Country	United States	**Job Date**	08-13-2021



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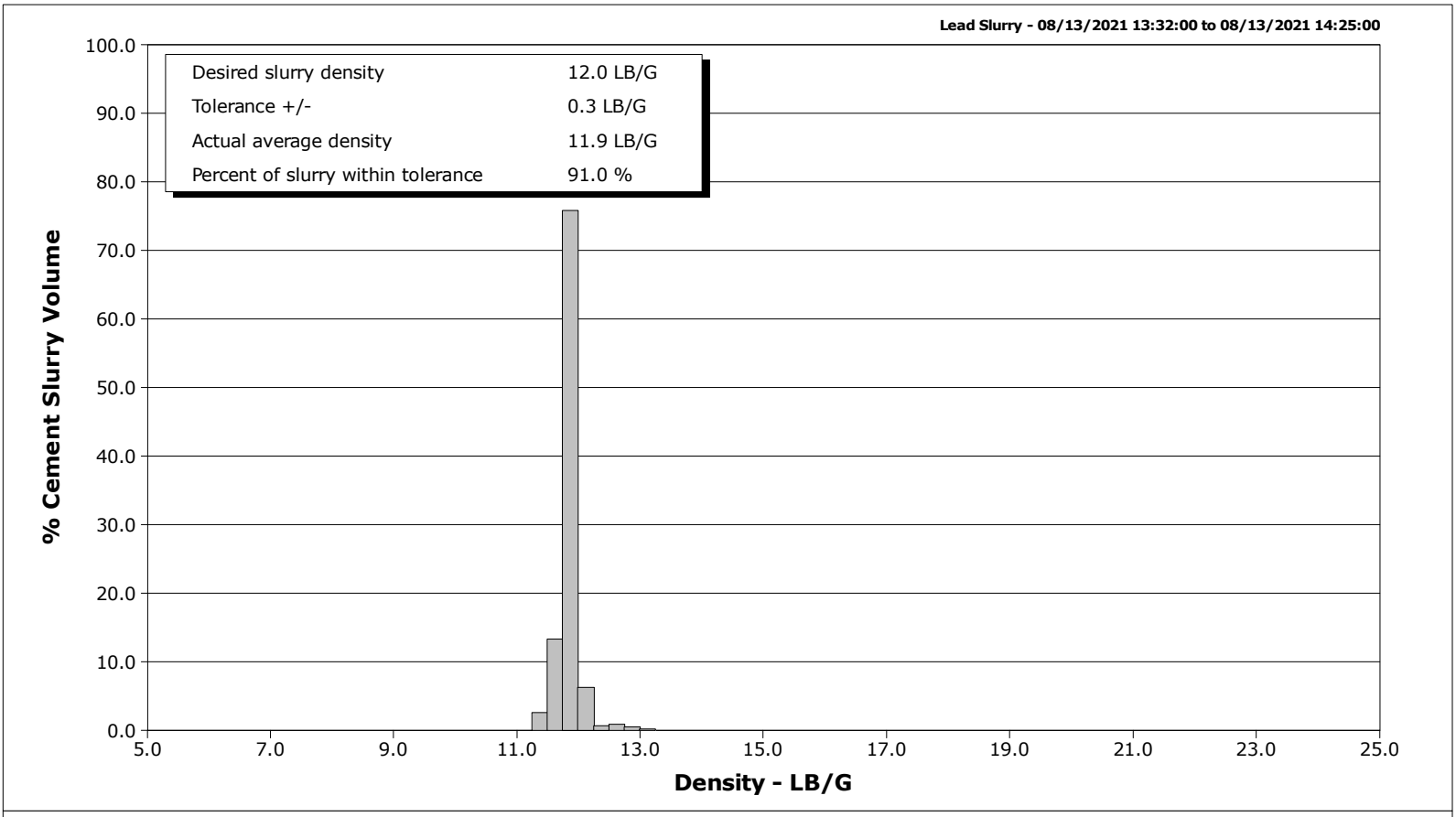
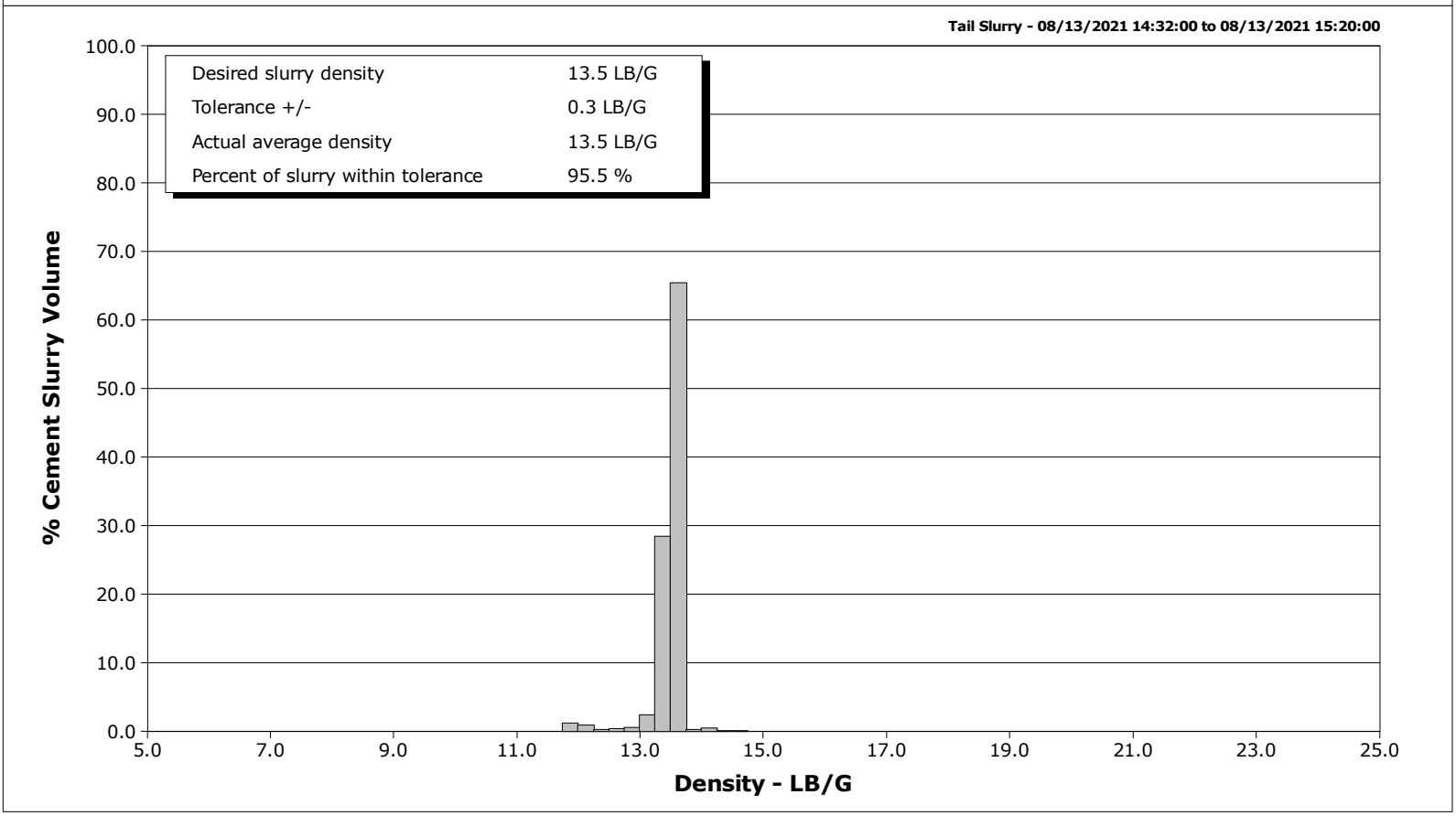
Cementing Qa/Qc Density Report

Well	BAKE	**Client**	ANADARKO
Field	DJ	**SIR No.**	3233122
Engineer	ALBERT SNYDER	**Job Type**	PRODUCTION
Country	United States	**Job Date**	08-13-2021





Schlumberger Cementing Service Report

Customer	Job Number
ANADARKO	3233122

Well	Location (legal)	Schlumberger Location	Job Start
BAKE 11-24HZ	11-24HZ	CWY	Aug/13/2021

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		deg	in	17932.0 ft	6554.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
WELD	Colorado	psi	230 degF	230 degF	lb/gal

Well Master	API/UWI
066004270	05-123-51414

Rig Name	Drilled For	Service Via
P 461	Oil & Gas	Land

Offshore Zone	Well Class	Well Type
N/A	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
LT OBM	9.30 lb/gal	cP

Service Line	Job Type
Cementing	PRODUCTION

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1900.0	9.6	36.0	J55	8RD
17921.0	5.5	17.0	110	BUTT

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Service Instructions

Fill lines with 5 bbls of fresh water, test lines 1000 psi low 6000 psi high, pump spacer @10.5#, drop bottom plug. pump 644 sks of lead @12# 209 bbls, pump 985 sks of tail @13.5# 288 bbls, wash to the pit,drop top plug, displace 416 bbls of treated water/sugar first 30bbls, bump plug 500 over, hold casing test 3000 for 15 minutes, burst sub 4270 psi, over displace 3 bbsl, check float end job. did not get any spacer nor returns to the surface

Treat Down	Displacement	Packer Type	Packer Depth
Casing	416.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	417.0 bbl	91.0 bbl	495.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement	Lift Pressure	Pipe Rotated	Pipe Reciprocated	No. Centralizers	Top Plugs	Bottom Plugs	Cement Head Type
☐	☒	12832 psi	☐	☐				Double

Job Scheduled For	Arrived on Location	Leave Location
Aug/13/2021 06:00	Aug/13/2021 03:30	Aug/13/2021 18:30

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	17921.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	17919.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_DOWNHOLE_DENSITY LB/G	Message
08/13/2021	12:26:07	-40	0.0	8.39	Started Acquisition
08/13/2021	12:46:00	332	2.4	8.40	Fill lins with 5 bbls of fresh water
08/13/2021	12:49:00	6378	0.0	8.40	Pressure Test Lines
08/13/2021	12:56:00	93	0.0	8.40	low=1000 psi high =6000 psi
08/13/2021	13:01:00	427	2.3	10.55	Start Pumping Spacer
08/13/2021	13:05:00	439	4.4	10.58	pump of spacer @10.5#80 bbls
08/13/2021	13:20:00	234	3.2	10.56	top of spacer at 642 ft
08/13/2021	13:22:00	-20	0.0	10.72	End Spacer
08/13/2021	13:24:00	-30	0.0	10.71	Drop Bottom Plug
08/13/2021	13:32:00	420	4.4	11.87	Start Mixing Lead Slurry
08/13/2021	13:37:39	161	3.2	11.70	yield=1,82 wr=5.99
08/13/2021	13:40:00	118	3.2	11.64	pump 644 sks of lead @12# 209 bbls
08/13/2021	14:22:00	233	5.1	11.92	top of lead @2500 ft
08/13/2021	14:25:00	-38	0.0	11.72	End Lead Slurry
08/13/2021	14:32:00	212	4.5	13.33	Start Mixing Tail Slurry
08/13/2021	14:43:00	368	6.4	13.37	pump 985 sks of tail @13.5# 288 bbls
08/13/2021	14:50:00	381	6.4	13.55	yierld=1.64 wr=7.84
08/13/2021	15:15:00	360	6.4	13.57	top of tail @9000 ft
08/13/2021	15:20:00	-25	0.0	13.38	End Tail Slurry
08/13/2021	15:30:00	27	2.7	8.70	wash to the pit
08/13/2021	15:55:00	979	6.4	8.42	Start Displacement

Well	Field	Job Start	Customer	Job Number
BAKE 11-24HZ	DJ	Aug/13/2021	ANADARKO	3233122

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_DOWNHOLE_DENSITY LB/G	Message
08/13/2021	16:02:37	1564	6.4	8.42	hold test 3000 psi for 15 mniutes
08/13/2021	16:57:00	3039	0.0	8.42	Bump Top Plug 1700/2400 psi
08/13/2021	17:10:00	3289	0.0	8.42	burst sub
08/13/2021	17:11:00	4258	2.1	8.42	overdisplace 3 bbls
08/13/2021	17:15:00	21	0.0	8.42	check float end job

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.9			6.5	597.0	0.0	80.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
6410	-26	927	3000		FreshWater	416.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	0.0 bbl	416.0 bbl	84 degF	☐	bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
JASON LAUB	ALBERT SNYDER	- ☐	- ☒

Schlumberger

Service Quality Evaluation

Client:	ANADARKO
Field:	DJ
Rig:	P 461
Well:	BAKE
Service Line:	Cementing
Job Type:	PRODUCTION

Service Order #:	
Date:	Aug/13/2021
Operating Time (hh:mm):	00:00
Client Rep:	JASON LAUB
Schlumberger Engineer:	ALBERT SNYDER
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No	Result
1	**HSE**			
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes ☐ no ☒	0
1b	Free of environmental spill or non-compliant discharge	5	yes ☐ no ☒	0
1c	Wellsite left clean	4	yes ☐ no ☒	0
			Sub-total	0%
2	**Design / Preparation**			
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes ☐ no ☒	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes ☐ no ☒	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes ☐ no ☒	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes ☐ no ☒	0
			Sub-total	0%
3	**Execution**			
3a	Lost time < 30 mins	3	yes ☐ no ☒	0
3b	Equipment pressure tested succesfully	3	yes ☐ no ☒	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes ☐ no ☒	0
3d	Plugs / darts released and tested succesfully	2	yes ☐ no ☒	0
3e	Density variation met expectations	2	yes ☐ no ☒	0
3f	Personnel performed as per expectations	2	yes ☐ no ☒	0
3g	Equipment performed as per expectations	2	yes ☐ no ☒	0
3h	Job pumped as per design	3	yes ☐ no ☒	0
3i	Did job start on time	2	yes ☐ no ☒	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes ☐ no ☒	0
			Sub-total	0%
4	**Evaluation**			
4a	Main job objective achieved with no consequential non-productive time	10	yes ☐ no ☒	0
			Sub-total	0%

Total 0%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	**Schlumberger:**
Client Signature:	**Schlumberger Signature:**