Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
EGU2-00001

Invoice Mailing Address:		Left District	Date: 22-Oct-2019	Time: 9:00 AM
NOBLE ENERGY INC (EDI)		Arrive Location	Date: 22-Oct-2019	Time: 10:00 AM
		Start Job	Date: 22-Oct-2019	Time: 11:00 AM
1001 NOBLE ENERGY WAY		Complete Job	Date: 23-Oct-2019	Time: 9:00 AM
		Leave Location	Date: 23-Oct-2019	Time: 9:30 AM
HOUSTON	TX	Arrived District	Date: 23-Oct-2019	Time: 10:00 AM
NULL	UNITED STATES	Service Description	Cementing Remedial, Remedial Plug to Abandon	

Customer PO	Contract	Well Name & Number	Field
	N/A	Booth USX EE 25-06	
AFE	**Cust Ref**	**County / Parish / Block / Borough**	**State / Province**
Customer or Authorized Representative		**Schlumberger Location**	**Legal Location**
Chris Hohnstein		(SAP-2070) Cheyenne - USRK - WIT	
API / UWI	**Pricebook**		Rig
	BYNP / WSV_GEOREF_NAL_2018_USD		Rigless

Service Instructions:

Rigless P & A Scenerio 1/ 2 CIBP/ 2Bail dump runs/ 1 Jet Cutter

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Services						
108673990	Rigless P & A Operations	1	EA			
108673990	Extra CIBP and Bail Dump	1	EA			

0.00

Services Total:

Total (Before Discount):			
Discount:	**0.00**		
Special Discount:	**0.00**	**Estimated Total (USD):**	

Estimated Total (USD): 35,000.00

THE ESTIMATED CHARGES AND DATA SHOWN ABOVE ARE SUBJECT TO CORRECTION BY SCHLUMBERGER.

THE SERVICES, EQUIPMENT, MATERIALS AND/OR PRODUCTS COVERED BY THIS FIELD TICKET HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE AND PROVIDED AT THE PRICES SHOWN HEREIN PURSUANT TO THE MASTER SERVICE AGREEMENT ("MSA") BETWEEN CUSTOMER AND SCHLUMBERGER AND, IN THE ABSENCE OF AN ACTIVE MSA, PURSUANT TO THE SCHLUMBERGER GENERAL TERMS AND CONDITIONS.

Signature of Customer Authorized Representative:

Chris Hohnstein Date

Signature of Schlumberger Representative:

Richard White Date

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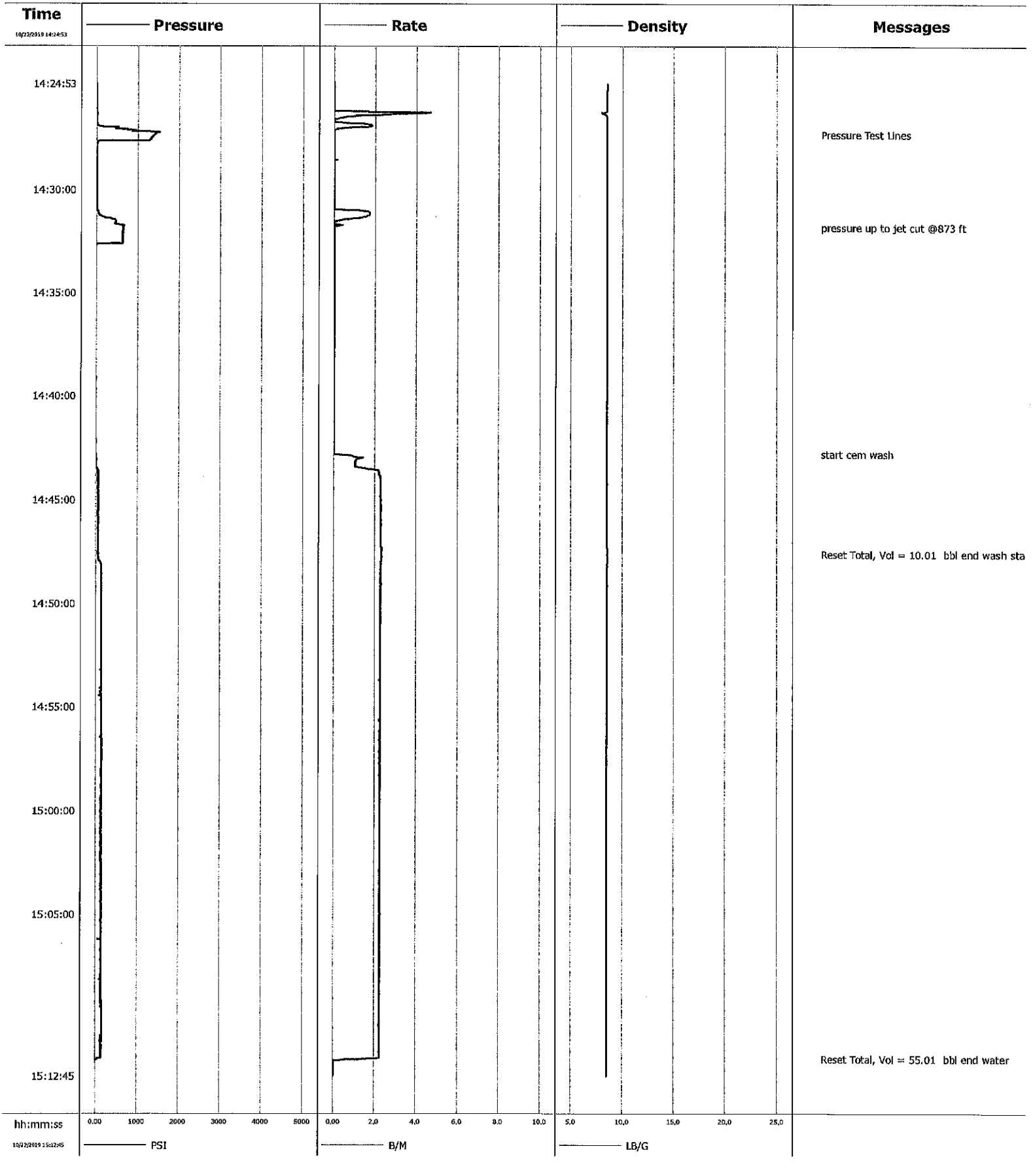
Cementing Job Report

CemCAT v1.:

Well	Booth USX EE 25-06	**Client**	Noble
Field	DJ	**SIR No.**	1234
Engineer	Richard White	**Job Type**	P A Cut and circ
Country	United States	**Job Date**	10-23-2019



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Cementing Service Report

Customer	Job Number
Noble	1234

Well	Location (legal)	Schlumberger Location	Job Start
Booth USX EE 25-06	CWY	Cheyenne	Oct/23/2019

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		deg	In	873.0 ft	873.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	90 degF	80 degF	lb/gal
Well Master 1234	**API/UWI**				

Rig Name	Drilled For	Service Via
Rigless	Oil and Gas	Land

Offshore Zone	Well Class	Well Type
	Old	Other

Drilling Fluid Type	Max. Density	Plastic Viscosity
Other	8.40 lb/gal	cP

Service Line	Job Type
Cementing	P & A Cut and circ

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

Service Instructions

Jet cut and circ.

Jet cut @ 873 ft

10 bbl cemwash
55 bbl water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
873.0	4.5	11.6	n/a	n/a
0.0	0.0	0.0		

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	bbl	bbl	bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
[X]	[X]

Lift Pressure	psi

Pipe Rotated	Pipe Reciprocated
[ ]	[ ]

No. Centralizers	Top Plugs	Bottom Plugs

Cement Head Type

Job Scheduled For	Arrived on Location	Leave Location
Oct/23/2019	Oct/23/2019	Oct/23/2019

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

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Message
10/22/2019	14:24:53	-1	0.0	8.55	Started Acquisition
10/22/2019	14:27:19	1419	0.0	8.50	Pressure Test Lines
10/22/2019	14:29:53	5	0.0	8.50	
10/22/2019	14:31:48	632	0.0	8.50	pressure up to jet cut @873 ft
10/22/2019	14:34:53	-1	0.0	8.50	
10/22/2019	14:39:53	-1	0.0	8.50	
10/22/2019	14:42:46	-2	0.0	8.50	start cem wash
10/22/2019	14:44:53	52	2.3	8.50	
10/22/2019	14:47:35	49	2.3	8.55	Reset Total, Vol = 10.01 bbl end wash start water
10/22/2019	14:49:53	140	2.3	8.51	
10/22/2019	14:54:53	140	2.3	8.50	
10/22/2019	14:59:53	133	2.3	8.50	
10/22/2019	15:04:53	135	2.3	8.50	
10/22/2019	15:09:53	151	2.3	8.50	

Well	Field	Job Start	Customer	Job Number
Booth USX EE 25-06	DJ	Oct/23/2019	Noble	1234

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
	0					bbl	lb/gal

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

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost		Job Completed	
Chris H.	Richard White	-		-	

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Cementing Service Report

Customer	Job Number
Noble	1234

Well	Location (legal)	Schlumberger Location	Job Start
Booth USX EE 25-06	CWY	Cheyenne	Oct/24/2019

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		deg	In	873.0 ft	873.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	90 degF	80 degF	lb/gal
Well Master 1234	**API/UWI**				

Rig Name	Drilled For	Service Via
Rigless	Oil and Gas	Land

Offshore Zone	Well Class	Well Type
	Old	Other

Drilling Fluid Type	Max. Density	Plastic Viscosity
Other	8.40 lb/gal	cP

Service Line	Job Type
Cementing	P & A Surface Plug

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

Service Instructions

Surface Plug

Plug From 873 ft to Surface

10 bbl water
65 bbl cmt@15.8ppg 1.16yield 315sks 5.13gps
0.5 bbl Disp.

Casing/Liner

Depth, ft	Size, In	Weight, lb/ft	Grade	Thread
873.0	4.5	11.6	n/a	n/a
0.0	0.0	0.0		

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	0.5 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	bbl	bbl	bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
[x]	[x]

Lift Pressure	psi
Pipe Rotated	[ ]
Pipe Reciprocated	[ ]

No. Centralizers	Top Plugs	Bottom Plugs

Cement Head Type

Job Scheduled For	Arrived on Location	Leave Location
Oct/24/2019	Oct/24/2019	Oct/24/2019

Casing Tools		Squeeze Job	
Shoe Type		Squeeze Type	
Shoe Depth	ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	In
Collar Type		Tail Pipe Depth	ft
Collar Depth	ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/23/2019	07:33:35	0	0.0	0.01	0.0	Started Acquisition
10/23/2019	07:33:59	3	3.8	6.35	0.0	Reset Total, Vol = 0.19 bbl Start Water
10/23/2019	07:38:35	110	2.1	8.49	0.0	
10/23/2019	07:40:49	117	2.1	8.50	0.0	Reset Total, Vol = 10.03 bbl End Water Start Cmt
10/23/2019	07:43:35	116	2.1	15.91	0.0	
10/23/2019	07:48:35	114	2.1	15.80	0.0	
10/23/2019	07:53:35	111	2.1	15.85	0.0	
10/23/2019	07:58:35	5	0.8	17.76	0.0	
10/23/2019	08:03:35	-3	0.0	15.87	0.0	
10/23/2019	08:08:35	-7	0.0	15.89	0.0	
10/23/2019	08:13:35	167	2.5	15.85	0.0	
10/23/2019	08:18:35	176	2.5	16.06	0.0	
10/23/2019	08:23:35	262	0.0	16.22	0.0	
10/23/2019	08:25:56	112	1.5	16.07	0.0	Reset Total, Vol = 65.08 bbl End Cmt Start Disp

Well	Field	Job Start	Customer	Job Number
Booth USX EE 25-06	DJ	Oct/24/2019	Noble	1234

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
	0					bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	0.0 bbl	bbl	degF	Cement Circulated to Surface? [X]	Volume 4.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
Chris H.	Richard White	Circulation Lost [ ]	Job Completed [X]
		-	-

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Service Quality Evaluation

Client:	Noble
Field:	DJ
Rig:	Rigless
Well:	Booth USX EE 25-06
Service Line:	Cementing
Job Type:	P & A Surface Plug

Service Order #:	
Date:	Oct/24/2019
Operating Time (hh:mm):	00:00
Client Rep:	Chris H.
Schlumberger Engineer:	Richard White
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:**

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Cementing Job Report

CemCAT v1.7

Well	Booth USX EE 25-06	**Client**	Noble
Field	DJ	**SIR No.**	1234
Engineer	Richard White	**Job Type**	P A Surface Plug
Country	United States	**Job Date**	10-24-2019