



Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
E0E0-00004

Invoice Mailing Address: NOBLE ENERGY INC. - FOR EDI ONLY 1001 NOBLE ENERGY WAY HOUSTON TX 77070 UNITED STATES		Left District	Date: 16-Feb-2018	Time: 10:00 AM	
		Arrive Location	Date: 16-Feb-2018	Time: 1:00 PM	
		Start Job	Date: 16-Feb-2018	Time: 1:00 PM	
		Complete Job	Date: 16-Feb-2018	Time: 3:00 PM	
		Leave Location	Date: 16-Feb-2018	Time: 3:00 PM	
		Arrived District	Date: 16-Feb-2018	Time: 5:00 PM	
Customer PO		Contract		Well Name & Number	Field
AFE		Cust Ref		Starman USX A 17-23	DJ
Customer or Authorized Representative		Schlumberger Location		State / Province	
Tony Mathias		Cheyenne, WY		CO	
API / UWI		Pricebook		Rig	
0512324630		BUMQ / WSV_GEOREF_USR_2017_USD_Noble Remedial			
Service Instructions:					

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

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
D907	Cement, Class G	165.5	CF			
D047	Antifoam Agent	5	GA			
D122A	D122A, Chemical Wash concentrate	10	GA			
				Products Subtotal:		
				Discount:		
				Products Total:		
Services						
49100000	Cement Blending Charge	166	CF			
49102000	Transportation, Cement Ton-mile	622	MI			
102872025	Services, Sqz/Plug 1 Hr	1	EA			
102872030	Additional Service Hours	1	EA			
				Services Subtotal:		
				Discount:		
				Services Total:		
Total (Before Discount):		5,210.86				
Discount:		0.00				
Special Discount:		0.00		Estimated Total (USD):		

Estimated Total (USD): 36

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 or Authorized Representative:

Signature of Schlumberger Representative:

Tony Mathias

Date

Richard Thornton

Date

				Customer Noble		Job Number eoeo-0004	
Well Starman USX A 17-23			Location (legal)		Schlumberger Location		Job Start Feb/16/2018
Field		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County		State/Province		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI					
Rig Name		Drilled For N/A	Service Via Land		Casing/Liner		
				Depth, ft	Size, in	Weight, lb/ft	Grade Thread
Offshore Zone		Well Class Old	Well Type Workover				
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe		
					T/D	Depth, ft	Size, in
Service Line Cementing		Job Type Sqz				Weight, lb/ft	Grade Thread
					2400.0	2.4	4.7
					0.0	0.0	0.0
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole		
					Top, ft	Bottom, ft	shot/ft
					ft	ft	No. of Shots
					ft	ft	Total Interval ft
					ft	ft	Diameter in
Service Instructions Pump 10 bbl chem wash Pressure Test 2500 Pump 34.4 bbl cement @ 15.8 ppg (165 sks @ 1.17 yield) Displace 7.2 bbl, leaving 2 bbl cmt on top of retainer est toc inside casing: 2270 annular: 1978					Treat Down Tubing	Displacement bbl	Packer Type Packer Depth ft
					Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl
							Openhole Vol. bbl
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure psi				Shoe Type		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Feb/16/2018 13:00		Arrived on Location Feb/16/2018 13:00		Leave Location Feb/16/2018		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	
02/16/2018	13:55:12	17	0.2	3.00	0.0	Started Acquisition	
02/16/2018	13:59:22	837	1.7	8.31	5.4		
02/16/2018	14:03:32	439	1.1	8.30	10.0		
02/16/2018	14:05:00	2448	0.0	8.30	10.2	Pressure Test Lines	
02/16/2018	14:07:42	150	0.1	8.42	10.4		
02/16/2018	14:09:00	448	0.9	15.68	10.7	Start Cement Slurry	
02/16/2018	14:11:52	200	1.5	15.75	14.7		
02/16/2018	14:16:02	132	2.3	15.64	22.9		
02/16/2018	14:20:12	530	1.8	15.91	32.2		
02/16/2018	14:24:22	132	2.0	15.65	39.9		
02/16/2018	14:26:00	109	2.2	9.15	43.2	End Cement Slurry	
02/16/2018	14:27:00	91	0.0	24.99	45.0	Start Displacement	
02/16/2018	14:28:32	493	1.8	8.32	47.5		

Well Starman USX A 17-23		Job Start Feb/16/2018	Cust Noble	Job Number e0eo-0004
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.5	N2	Mud	Maximum Rate 8.7	Total Slurry 34.4	Mud 0.0	Spacer 10.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2485	Final 17	Average 442	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 7.2 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl			
				Washed Thru Perfs <input type="checkbox"/>	To ft			
Customer or Authorized Representative Tony Mathias			Schlumberger Supervisor Scot Thornton		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		



Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
DYWB-00016

Invoice Mailing Address: NOBLE ENERGY INC. - FOR EDI ONLY 1001 NOBLE ENERGY WAY HOUSTON TX 77070 UNITED STATES		Left District	Date: 20-Feb-2018	Time: 9:00 AM
		Arrive Location	Date: 20-Feb-2018	Time: 12:00 PM
		Start Job	Date: 20-Feb-2018	Time: 12:00 PM
		Complete Job	Date: 20-Feb-2018	Time: 5:00 PM
		Leave Location	Date: 20-Feb-2018	Time: 5:00 PM
		Arrived District	Date: 20-Feb-2018	Time: 6:00 PM
		Service Description Cementing Remedial, Remedial Plug to Abandon		
Customer PO	Contract	Well Name & Number	Field	
AFE	Cust Ref	Starman USX A17-23	DJ	
		County / Parish / Block / Borough	State / Province	
Customer or Authorized Representative Tony Mathias		Weld	Colorado	
		Schlumberger Location	Legal Location	
API / UWI		Cheyenne, WY		
5123246300000	Pricebook		Rig	
BUMQ / WSV_GEOREF_USR_2017_USD_Noble Remedial				
Service Instructions:				

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

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER						
Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
D907	Cement, Class G	321	CF			
D122A	D122A, Chemical Wash concentrate	5	GA			
D047	Antifoam Agent	5	GA			
				Products Subtotal:		
				Discount:		
				Products Total:		
Services						
49100000	Cement Blending Charge	499	CF			
49102000	Transportation, Cement Ton-mile	2549	MI			
102872025	Services, Sqz/Plug 1 Hr	1	EA			
102872030	Additional Service Hours	4	EA			
				Services Subtotal:		
				Discount:		
				Services Total:		
Total (Before Discount):		8,676.01				
Discount:		0.00				
Special Discount:		0.00				
				Estimated Total (USD):		

Estimated Total (USD):

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 or Authorized Representative:

Signature of Schlumberger Representative:

Tony Mathias

Date

William Silvester

Date

				Customer				NOBLE				Job Number				DYWB-00016															
Well				Location (legal)				Schlumberger Location				Job Start																			
STARMAN USX A 17 -23				217304				Cheyenne				Feb/20/2018																			
Field		DJ		Formation Name/Type		Deviation		deg		Bit Size		in		Well MD		1005.0 ft		Well TVD		1005.0 ft											
County		WELD		State/Province		Colorado		BHP		psi		BHST		90 degF		BHCT		80 degF		Pore Press. Gradient		lb/gal									
Well Master				API/UWI		5123246300000																									
Rig Name		Drilled For		Oil & Gas		Service Via		Land		Casing/Liner																					
										Depth, ft		Size, in		Weight, lb/ft		Grade		Thread													
Offshore Zone		Well Class		Old		Well Type		Other		1005.0		4.5		11.6		N/A		N/A													
										754.0		8.6		24.0		N/A		N/A													
Drilling Fluid Type		Max. Density		lb/gal		Plastic Viscosity		cP		Tubing/Drill Pipe																					
										T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread											
Service Line		Job Type		Shallow plug						T		1005.0		2.4		4.7		N/A		N/A											
Cementing												0.0		0.0		0.0															
Max. Allowed Tub. Press		psi		Max. Allowed Ann. Press		psi		WH Connection		2 3/8" 4.7# T/S		Perforations/Open Hole																			
												Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval		ft									
Service Instructions												ft		ft								Diameter									
Shallow plug = 321 sks 1.17 ft3/sk 5.058 gps = 67 bbls												ft		ft								in									
Est Toc = Surface from 1005 ft to surface																															
CW7 10 bbls												Treat Down		Displacement		Packer Type		Packer Depth													
Spacer 5 bbls												Tubing		0.0 bbl				ft													
CMT 67 bbls @ 15.8 ppg														Casing Vol.		Annular Vol.		Openhole Vol.													
												bbl		bbl		bbl		bbl													
Casing/Tubing Secured		<input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement		<input checked="" type="checkbox"/>		Casing Tools				Squeeze Job																			
Lift Pressure		psi						Shoe Type				Squeeze Type																			
Pipe Rotated		<input type="checkbox"/>		Pipe Reciprocated				<input type="checkbox"/>				Shoe Depth				ft				Tool Type											
No. Centralizers				Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth				ft															
Cement Head Type								Stage Tool Depth				ft				Tail Pipe Size				in											
Job Scheduled For		Feb/20/2018		Arrived on Location		Feb/20/2018		Leave Location				Feb/20/2018				Collar Type				Tail Pipe Depth				ft							
																Collar Depth				ft				Sqz. Total Vol.				bbl			
Date		Time		Flow		Rate		Density		Volume		Pressure		Message																	
		24-hr		B/M		LB/G		BBL		PSI																					
		clock																													
02/20/2018		13:40:34		0.0		8.25		0.0		95		Started Acquisition																			
02/20/2018		13:40:39		0.0		8.25		0.0		95		Water Test Complete																			
02/20/2018		13:40:40		0.0		8.25		0.0		91		JSA Complete																			
02/20/2018		13:42:08		0.0		8.25		0.0		91		Start Job																			
02/20/2018		13:45:35		0.0		8.26		0.0		77																					
02/20/2018		13:50:36		0.0		8.28		0.0		68																					
02/20/2018		13:54:07		1.2		8.27		0.7		104		Start Pumping Wash																			
02/20/2018		13:55:37		2.0		8.28		3.4		297																					
02/20/2018		13:58:57		2.7		8.26		11.6		352		End Wash																			
02/20/2018		13:59:00		2.6		8.26		11.7		347		Start Pumping Spacer																			
02/20/2018		14:00:38		0.0		8.26																									

Well STARMAN USX A 17 -23			Field DJ	Job Start Feb/20/2018	Customer NOBLE	Job Number DYWB-00016
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message
02/20/2018	14:35:45	2.7	15.61	64.3	411	
02/20/2018	14:39:23	0.0	16.22	67.2	-5	End Cement Slurry
02/20/2018	14:39:28	0.0	16.23	67.2	-5	Reset Total, Vol = 51.00 bbl
02/20/2018	14:40:46	0.0	16.36	67.2	-10	
02/20/2018	14:45:47	0.0	15.69	67.2	-15	
02/20/2018	14:50:48	0.0	16.70	67.2	-15	
02/20/2018	14:55:49	0.0	15.70	67.2	-10	
02/20/2018	15:00:50	0.0	15.64	67.2	-10	
02/20/2018	15:05:51	0.0	15.63	67.2	-5	
02/20/2018	15:10:52	0.0	15.80	67.2	-5	
02/20/2018	15:15:53	0.0	15.69	67.2	-5	
02/20/2018	15:20:54	0.0	13.08	69.2	-1	
02/20/2018	15:25:55	0.0	17.76	69.2	-1	
02/20/2018	15:30:56	0.0	17.16	70.1	4	
02/20/2018	15:35:57	0.0	17.19	70.1	4	
02/20/2018	15:40:58	2.6	8.41	80.7	127	
02/20/2018	15:41:52	2.6	8.38	83.1	118	Top Out
02/20/2018	15:45:59	2.6	8.26	93.9	104	
02/20/2018	15:51:00	0.0	8.26	97.7	4	
02/20/2018	15:56:01	0.0	8.27	97.7	-5	
02/20/2018	16:01:02	0.0	8.28	97.7	-10	
02/20/2018	16:06:03	0.0	16.28	97.7	-19	
02/20/2018	16:11:04	1.1	16.29	98.7	59	
02/20/2018	16:11:42	2.7	15.45	99.8	150	End Top out
02/20/2018	16:16:05	3.8	8.31	114.8	132	
02/20/2018	16:21:06	3.8	8.25	133.6	40	
02/20/2018	16:26:07	0.0	8.27	141.7	-10	
02/20/2018	16:31:08	0.0	0.08	141.7	-15	
02/20/2018	16:36:09	0.0	0.01	141.7	-24	
02/20/2018	16:41:10	0.0	-0.00	141.7	-15	
02/20/2018	16:46:04	0.0	0.01	141.7	-10	Reset Total, Vol = 16.09 bbl
02/20/2018	16:46:11	0.0	0.01	141.7	-15	
02/20/2018	16:46:55	0.0	-0.00	141.7	-10	End Job

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl					
Slurry 2.2	N2	Mud	Maximum Rate 3.8	Total Slurry 67.0	Mud 0.0	Spacer 15.4	N2		
Treating Pressure Summary, psi				Breakdown Fluid					
Maximum 2975	Final -10	Average 136	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %	Designed Slurry Volume 67.0 bbl		Displacement 0.0 bbl	Mix Water Temp 80 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Tony			Schlumberger Supervisor Wayne Silvester			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		