

INVOICE

HALLIBURTON

Halliburton Energy Services, Inc.

Remit To: P.O. Box 301341, Dallas, TX 75303-1341

Wire Transfer Information

Account Number: Account 00032969

ABA Routing Number: 021000089

Invoice Date: September 30, 2014

Invoice Number: 9501002375

DIRECT CORRESPONDENCE TO:

13100 WELD COUNTY RD 8
FORT LUPTON, CO 80621
US
Tel: (303) 825 4346
Fax: (303) 857 9408

Rig Name:

Well Name: ROHN ST LD03-64-1 HN,WELD

Ship to: NEW RAYMER, CO 80742

WELD

Job Date: September 19, 2014

Cust. PO No.: 200309

Payment Terms: Net 30 days from Invoice date

Quote No.:

Sales Order No.: 901664731

Manual Ticket No.:

Shipping Point: FORT LUPTON Shipping Point

Ultimate Destination Country: US

Customer Account No.: 345242

TO:

NOBLE ENERGY INC E-BUSINESS
DONOTMAIL-1001 NOBLE ENERGY WAY
HOUSTON TX 77070

Contract No.:

Contract from:

Contract to:

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7525	CMT PRODUCTION LINER BOM JP055	1.00	JOB					
2	MILEAGE FOR CEMENTING CREW 000-119 Number of Units	200.000 1	MI					
1	ZI-MILEAGE FROM NEAREST HES BA 000-117 Number of Units	200.000 1	MI					
114	R/A DENSOMETER W/CHART RECORDER 019-500 NUMBER OF UNITS	1.000 1	JOB					
139	ADC (AUTO DENSITY CTRL) SYS, / 046-050 NUMBER OF JOBS NUMBER OF UNITS	1.000 1 1	JOB JOB					
130104	PORT. DATA ACQUIS. W/OPTICEM R PORT. DATA ACQUIS. W/OPTICEM RT W/HES DAYS OR PARTIAL DAY(WHOLE NO.)	1.000 1	EA					
7	ENVIRONMENTAL CHARGE,/JOB,ZI 000-150	1.000	JOB					
8	IRON SAFETY INSPECTION SURCHAR 000-151	1.000	JOB					
372867	Cmt PSL - DOT Vehicle Charge, Cmt PSL - DOT Vehicle Charge, CMT	3.000	EA					

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Continuation

Invoice Date: September 30, 2014

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Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
*76400	MILEAGE,CMT MTLS DEL/RET MIN 500-306 / MILEAGE,CMTG MTLS DEL/RET PER/TON MI.MIN NUMBER OF TONS	100.000	MI					
		23.869						
*3965	HANDLE&DUMP SVC CHRG, CMT&ADDI 500-207 NUMBER OF EACH	593.000	CF					
		1	EA					
*452979	CMT, ExpandaCem (TM) system	100.00	SK					
*483826	SBM, CMT, Tuned Spacer III SBM, CMT, Tuned Spacer III	60.000	BBL					
*100003681	CHEM, BARITE, BULK Barite	90.000	SK					
*452979	CMT, ExpandaCem (TM) system	246.00	SK					
16100	CMTG LINER/SHORT CSG STRING 009-407 / CMTG LINER/SHORT CSG STRING,0-4HRS,ZI DEPTH	1.000	EA					
		10138	FT					
86954	ZI FUEL SURCHG-CARS/PICKUPS< 1 FUEL SURCHG-CARS/PICKUPS< 1 1/2TON/PER/MI Number of Units	200.000	MI					
		1						
86955	ZI FUEL SURCHG-HEAVY TRKS > 1 1 FUEL SURCHG-HEAVY TRKS > 1 1/2 TON/PER MI Number of Units	200.000	MI					
		1						
*87605	FUEL SURCHG-CMT & CMT ADDITIVE FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM NUMBER OF TONS	100.000	MI					
		23.869						
*100008028	CHEM, SUGAR,GRANULATED, 50LB B	100.000	LB					

1.2 Cementing Job Summary

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 3113206		Quote #:		Sales Order #: 0901664731				
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: CLIFFORD KESTER						
Well Name: ROHN STATE		Well #: LD03-64-1 HN		API/UWI #: 05-123-37462-00						
Field: WILDCAT		City (SAP): NEW RAYMER		County/Parish: WELD		State: COLORADO				
Legal Description: NE SE-4-9N-58W-1989FSL-330FEL										
Contractor:				Rig/Platform Name/Num: H&P 277						
Job BOM: 7525										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX46524				Srvc Supervisor: Aaron Smith						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST		240 degF				
Job depth MD		10138ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor						
Perforation Depth (MD)		From		To						
Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Drill Pipe	3	4	3.34	14	BTC	P-110	0	5742	0	5742
Casing	0	7	6.276	26	BTC	P-110	0	6057	0	5956
Casing	0	4.5	4	11.6	BTC	P-110	5742	10138	5742	6497
Open Hole Section			6.125		BTC		6057	10142	6057	6497
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	4.5					Top Plug	4.5	1	HES	
Float Shoe	4.5			10138		Bottom Plug	4.5	1	HES	
Float Collar	4.5			10194		SSR plug set	4.5		HES	
Insert Float	4.5					Plug Container	4.5		HES	
Stage Tool	4.5					Centralizers	4.5		HES	
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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III		60	bbl	11.5	3.75		6	
148.73 lbm/bbl		BARITE, BULK (100003681)								
36 gal/bbl		FRESH WATER								

last updated on 9/26/2014 4:13:04 PM

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Expandacem B2	EXPANDACEM (TM) SYSTEM	100	sack	13.8	1.64		6	7.55
7.55 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Expandacem B2	EXPANDACEM (TM) SYSTEM	246	sack	13.8	1.65		6	7.55
7.55 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Water	Water	120	bbl	8.33			6	
Cement Left In Pipe		Amount 42 ft			Reason		Shoe Joint		
Comment									

1.6 Job Event Log

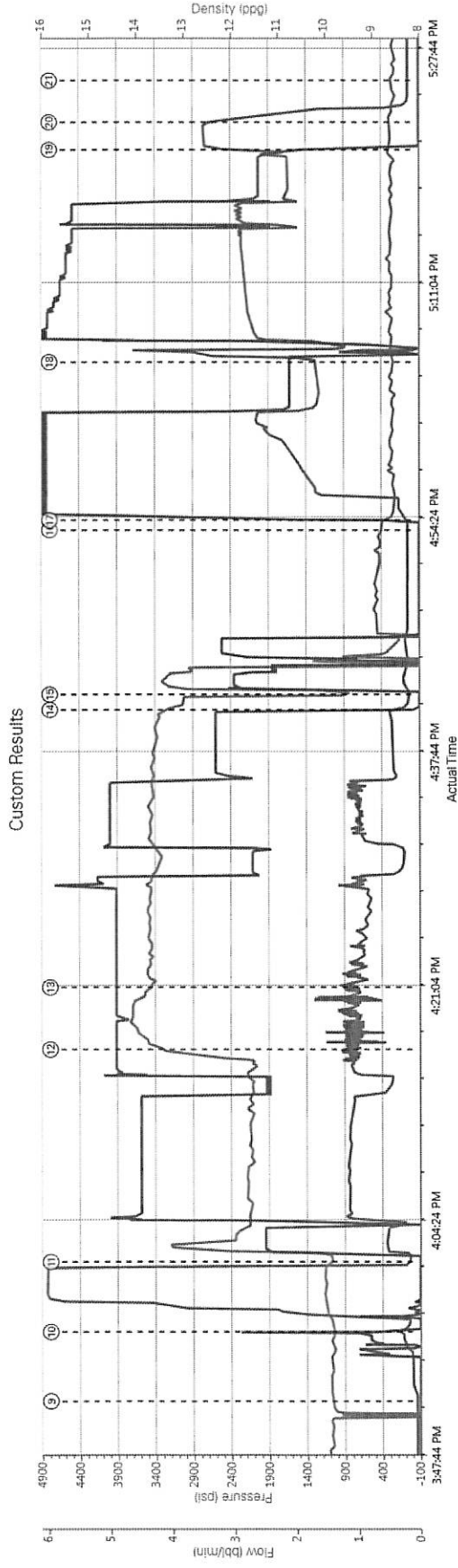
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comment
Event	1	Call Out	Call Out	9/19/2014	06:00:00	USER				CALLED OUT FOR ON LOCATION @ 1200
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	9/19/2014	08:45:00	USER				JOURNEY MANGMENT MEETING PRIOR TO DEPARTURE
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	9/19/2014	09:00:00	USER				
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	9/19/2014	11:00:00	USER				WITH ALL EQUIPMENT AND MATERIALS, RIG STILL RUNNING CASING
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	9/19/2014	11:15:00	USER				RIG-UP JSA WITH HES CREW
Event	6	Rig-Up Equipment	Rig-Up Equipment	9/19/2014	11:20:00	USER				
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	9/19/2014	14:30:00	USER	0.00	9.89	-59.00	WITH CUSTOMER REP AND RIG CREW
Event	8	Rig-Up Completed	Rig-Up Completed	9/19/2014	15:20:00	USER	0.00	9.87	-56.00	AFTER PRE-JOB SAFETY MEETING
Event	9	Start Job	Start Job	9/19/2014	15:51:44	COM4	0.00	9.86	-56.00	
Event	10	Test Lines	Test Lines	9/19/2014	15:56:39	COM4	0.00	9.83	105.00	@5000 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	9/19/2014	16:01:37	COM4	0.00	9.87	31.00	60 BBLS @ 11.5 PPG, 3.75 YIELD,
Event	12	Pump Lead Cement	Pump Lead Cement	9/19/2014	16:16:42	COM4	4.90	13.70	689.00	30 BBLS/100 SKS @ 13.8 PPG, 1.67 YIELD, 7.55 GAL/SK
Event	13	Pump Tail Cement	Pump Tail Cement	9/19/2014	16:21:07	COM4	4.90	13.70	771.00	78 BBLS/246 SKS @ 13.8 PPG, 1.67 YIELD, 7.55 GAL/SK
Event	14	Shutdown	Shutdown	9/19/2014	16:40:53	COM4	0.00	13.17	98.00	
Event	15	Clean Lines	Clean Lines	9/19/2014	16:41:59	COM4	0.00	9.71	35.00	WASH PUMPS AND LINES TO THE PIT
Event	16	Drop Top Plug	Drop Top Plug	9/19/2014	16:53:41	COM4	0.00	8.81	53.00	PRE-LOADED TOP DART IN BAKER CEMENT HEAD
Event	17	Pump Displacement	Pump Displacement	9/19/2014	16:54:24	COM4	3.30	8.60	120.00	119.5 BBLS FRESH WATER DISPLACEMENT
Event	18	Other	Latched Wiper Plug	9/19/2014	17:05:37	USER	2.10	8.54	1284.00	PLUG WENT @ 3700 PSI
Event	19	Bump Plug	Bump Plug	9/19/2014	17:20:42	COM4	0.00	8.67	2740.00	@ 1000 OVER, FINAL CIRCULATING PRESSURE 1643 PSI
Event	20	Check Floats	Check Floats	9/19/2014	17:22:39	USER	0.00	8.64	2413.00	FLOATS HELD 1 BBL BACK
Event	21	End Job	End Job	9/19/2014	17:25:37	COM4	0.00	8.62	46.00	THANKS AARON SMITH AND CREW
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	9/19/2014	18:00:00	USER	0.00	8.54	46.00	RIG-DOWN JSA WITH HES CREW

NOBLE ENERGY INC E-BUSINESS
NOBLE ENERGY ROHN STATE LD03-64-1HN PROD. LINER
Case 1

Event	23	Rig-Down Equipment	Rig-Down Equipment	9/19/2014	18:15:00	USER	
Event	24	Rig-Down Completed	Rig-Down Completed	9/19/2014	19:15:00	USER	RIG-DOWN COMPLETED AFTER RIG ROLLED THE HOLE
Event	25	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	9/19/2014	19:30:00	USER	

2.0 Custom Graphs

2.1 Custom Graph



PS Pump Press (psi)			DH Density (ppg)			Comb Pump Rate (bbl/min)		
1	Cell Out	n/a	1	Start Job	56.9	1	Pump Spacer	131.9
2	Depart Yard Safety Meeting	n/a	2	Pre-Job Safety Meeting	59.9	2	Pump Tail Cement	771.13
3	Depart from Service Center or Other Site	n/a	3	Rig-Up Equipment	n/a	3	Pump Lead Cement	689.13
4	Arrive at Location from Service Center	n/a	4	Rig-Up Completed	56.9	4	Shutdown	98.13
5	Drop Top Plug		5			5	Clean Lines	