

HALLIBURTON

iCem[®] Service

EXPEDITION WATER SOLUTIONS LLC

For: JEREMIAH DEMUTH

Date: Monday, January 23, 2017

EWS 4A

903799601 SURFACE

Job Date: Monday, January 23, 2017

Sincerely,

ANDREW BRENNECKE

Field Ticket Number: 0903799601

Field Ticket Date: Monday, January 23, 2017

Planning Order #: NA

Bill To:EXPEDITION WATER SOLUTIONS LLC
1023 39TH AVE STE E
GREELEY CO 80634**Job Name:**

9 5/8" Surface

Order Type:

ZOH

Well Name:

EWS 4A

Company Code:

1100

Customer PO No.:

NA

AFE:**Shipping Point:**

Fort Lupton, CO Shipping Point

Sales Office:

ROCKY MOUNTAINS BD

Well Type:

INJECTION

Well Category:

Development

Rig Name/##:

ENSIGN 121

Ship To:EWS 4A,WELD
EWS 4A
KEENESBURG CO 80643
US

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
7521	CMT SURFACE CASING BOM	1	JOB				
2	MILEAGE FOR CEMENTING CREW	48	MI				
	Number of Units	1					
1	ZI-MILEAGE FROM NEAREST HES	48	MI				
	BASE,UNIT	1					
	Number of Units	1					
16091	ZI - PUMPING CHARGE	1	EA				
	FEET/METERS (FT/M)	FT					
	DEPTH	1002					
452990	CMT, SwiftCem (TM) system	285	SK				
101216940	CHEM, Pol-E-Flake, 25 lb bag	36	LB				
	Poly-E-Flake						
76400	MILEAGE,CMT MTLs DEL/RET MIN	24	MI				
	NUMBER OF TONS	14.16					
3965	HANDLE&DUMP SVC CHRG,	310	CF				
	CMT&ADDITIVES,ZI	1					
	NUMBER OF EACH	EA					
	Unit of Measurement						
100008028	CHEM, SUGAR,GRANULATED, 50LB BAG	100	LB				
528788	SBM, CMT- MUD FLUSH III	20	BBL				
	Red Dye						
45	SPEC EQUIP CHRG, NO PRICE	1	EA				
	ESTABLISHED ZI						

Totals

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	1/22/2017	14:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/22/2017	17:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	1/22/2017	18:00:00	USER					
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	1/22/2017	19:00:00	USER					RIG HAD NOT STARTED CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/22/2017	19:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/23/2017	01:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	Rig-Up Completed	1/23/2017	02:00:00	USER					1-RED TIGER, 1-660 BULK TRAILER, 9.625" QUICK LATCH PLUG CONTAINER, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/23/2017	02:10:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	Start Job	1/23/2017	02:29:57	COM5	8.35	0.00	5.00	0.0	TD-1004', TP-1007.77' SET @ 1002', SJ-44.99', CSG-9.625" 36#, OH-12.25", MUD-9.2PPG
Event	10	Prime Pumps	Prime Pumps	1/23/2017	02:33:00	USER	8.39	2.10	29.00	2.0	FRESH WATER
Event	11	Test Lines	Test Lines	1/23/2017	02:37:53	COM5	8.40	0.00	2582.00	2.1	PRESSURE VERIFIED TO HOLD
Event	12	Pump Spacer 1	Pump Spacer 1	1/23/2017	02:44:21	COM5	8.35	3.00	61.00	20.0	MUD FLUSH III/DYE

Event	13	Pump Cement	Pump Cement	1/23/2017	02:59:26	COM5	13.50	6.00	142.00	88.3	SWIFTCM 285SKS, 13.5PPG, 1.74CF/SK, 9.2GAL/SK
Event	14	Shutdown	Shutdown	1/23/2017	03:20:35	USER					WASHED UP ON TOP OF PLUG
Event	15	Drop Plug	Drop Plug	1/23/2017	03:25:54	USER					PLUG DROP VERIFIED BY TATTLE TAIL
Event	16	Pump Displacement	Pump Displacement	1/23/2017	03:26:38	COM5	8.40	5.10	386.00	74.4	FRESH WATER
Event	17	Slow Rate	Slow Rate	1/23/2017	03:35:52	USER	8.44	0.50	166.00	50.0	SLOW DOWN FOR RIG TO SWAP LINES
Event	18	Slow Rate	Slow Rate	1/23/2017	03:44:44	USER	8.46	2.00	290.00	64.0	SLOW DOWN LAST 10 BBLS
Event	19	Bump Plug	Bump Plug	1/23/2017	03:48:19	COM5	8.45	2.00	285.00	74.4	PLUG BUMPED 285PSI
Event	20	Check Floats	Check Floats	1/23/2017	03:51:25	USER	8.43	0.00	861.00	74.4	FLOATS HELD 1 BBL BACK
Event	21	End Job	End Job	1/23/2017	03:53:00	USER	8.44	0.00	-7.00	74.4	GOOD RETURNS THROUGH OUT JOB, 28.4 BBLS CEMENT TO SURFACE
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/23/2017	03:57:00	USER					ALL HES PRESENT
Event	23	Crew Leave Location	Crew Leave Location	1/23/2017	05:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNER AND CREW

EXPEDITION WATER SOLUTIONS - EWS 4A - 9.625" SURFACE

