

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS-EBUS

Scott C2-1-13 Surface

Job Date: Wednesday, June 21, 2017

Sincerely,

Fort Lupton District Cement

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Scott C2-1-13** cement surface casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

25 bbls of cement to surface

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3727297		Quote #:		Sales Order #: 0904107325					
Customer: EXTRACTION OIL & GAS				Customer Rep: Kalyn Holgate/Larry Siegel							
Well Name: CS-SCOTT			Well #: C2-1-13		API/UWI #: 05-123-42908-00						
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO					
Legal Description: SW SE-36-6N-66W-341FSL-2040FEL											
Contractor: PATTERSON-UTI ENERGY				Rig/Platform Name/Num: PATTERSON 341							
Job BOM: 7521 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srv Supervisor: Bryan Kraft							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		1585ft		Job Depth TVD		1585ft					
Water Depth				Wk Ht Above Floor		4ft					
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	
Casing		9.625	8.921	36		J-55	0	1585	0	1585	
Open Hole Section			13.5				0	1595	0	1595	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe						Top Plug	9.625	1	HES		
Float Shoe	9.625	1		1585		Bottom Plug					
Float Collar	9.625	1		1543		SSR plug set					
Insert Float						Plug Container	9.625	1	HES		
Stage Tool						Centralizers	9.625	14			
Fluid Data											
Stage/Plug #: 1											
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
1	Spacer	RED DYED FRESH WATER			10	bbl	8.34			3	42

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	Cement	SWIFTCEM (TM) SYSTEM	525	sack	13.5	1.74	9.2	8	4830	
94 lbm		TYPE I / II CEMENT, BULK (101439798)								
9.20 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	Displacement	FRESH WATER	119	bbl	8.34			8	4998	
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint		
Mix Water:		pH 7.0	Mix Water Chloride:			<20 ppm		Mix Water Temperature:		55 °F
Cement Temperature:		N/A	Plug Displaced by:			8.3 lb/gal Fresh Water		Disp. Temperature:		55 °F
Plug Bumped?		Yes	Bump Pressure:			430 psi		Floats Held?		Yes
Cement Returns:		25 bbl	Returns Density:			N/A		Returns Temperature:		N/A
Comment Plug bumped @ calculated displacement, Floats held,1 BBL back to the truck.25 BBLS cement returned to surface.										

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)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	6/22/2017	00:00:00	USER				CREW CALLED OUT AT 00:00 6/22/2017, REQUESTED ON LOCATION 7:00 6/22/2017. CREW PICKED UP CEMENT, TOP PLUG, AND RED DYE FROM FORT LUPTON, CO. BULK 660: 11645065/11398319, BULK 660: 12350112/10867096, PUMP 11644701/11645460.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/22/2017	04:15:00	USER				DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	6/22/2017	04:30:00	USER				STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location	6/22/2017	05:30:00	USER				END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING: 36# 9.625" J-55 @ 1585', 42' SHOE JOINT, 13.5" OPEN HOLE, 8.4 PPG WELL FLUID, FRESH WATER DISPLACEMENT. CASING LANDED @ 8:00 6/22/2017.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/22/2017	07:15:00	USER				HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND

WEATHER.										
Event	6	Rig-Up Equipment	Rig-Up Equipment	6/22/2017	07:30:00	USER				CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON, AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Safety Meeting - Pre Job	6/22/2017	08:00:00	USER				MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	14	Start Job	Start Job	6/22/2017	08:17:14	USER	8.23	0.00	99.43	BEGIN RECORDING JOB DATA.
Event	27	Test Lines	Test Lines	6/22/2017	08:20:25	USER	8.30	0.00	921.85	PRESSURE TESTED IRON TO 2500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 1100 PSI, 5TH GEAR STALL OUT @ 1800 PSI.
Event	40	Pump Spacer 1	Pump Red Dyed Spacer	6/22/2017	08:27:05	RTD Import	8.30	1.99	132.56	PUMP 10 BBLS OF RED DYED FRESH WATER SPACER.
Event	63	Pump Lead Cement	Pump Cement @ 13.5 ppg	6/22/2017	08:35:52	RTD Import	13.08	4.11	334.14	PUMP 525 SKS OF SWIFTCEM @ 13.5 LB/GAL, 1.74 YIELD, 9.2 GAL/SK, 163 BBLS, TOL @ SURFACE, DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	541	Shutdown	Shutdown	6/22/2017	09:01:11	RTD Import	14.59	0.00	23.72	SHUTDOWN TO DROP TOP PLUG.
Event	542	Drop Top Plug	Drop Top Plug	6/22/2017	09:01:47	RTD Import	14.59	0.00	33.19	PLUG LEFT CONTAINER, VERIFIED BY COMPANY MAN.
Event	543	Pump Displacement	Pump Fresh Water Displacement	6/22/2017	09:02:32	RTD Import	14.50	0.86	59.69	BEGIN CALCULATED DISPLACEMENT OF 119 BBLS WITH FRESH WATER.

Event	607	Cement Returns to Surface	Cement Returns to Surface	6/22/2017	09:14:36	USER	7.86	8.08	672.00	CEMENT TO SURFACE @ 94 BBLS INTO DISPLACEMENT, CALCULATED AMOUNT OF 25 BBLS LEAD TO SURFACE.
Event	620	Bump Plug	Bump Plug	6/22/2017	09:18:49	USER	7.86	3.04	448.65	PLUG BUMPED AT CALCULATED DISPLACEMENT. PRESSURED 500 PSI OVER FINAL CIRCULATING PRESSURE OF 450 PSI.
Event	624	Shutdown	Shutdown	6/22/2017	09:19:06	USER	7.87	0.00	1009.86	SHUTDOWN FOR 1 MINUTE.
Event	626	Check Floats	Check Floats	6/22/2017	09:19:30	USER	7.88	0.00	981.47	RELEASED PRESSURE, FLOATS HELD, 1 BBL BACK.
Event	628	End Job	End Job	6/22/2017	09:19:58	USER	7.86	0.00	5.74	STOP RECORDING JOB DATA.
Event	638	Post-Job Safety Meeting (Pre Rig-Down)	Pre-Rig Down Safety Meeting	6/22/2017	09:25:00	USER				DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	639	Rig-Down Completed	Rig-Down Completed	6/22/2017	09:40:00	USER				ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	640	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/22/2017	09:45:00	USER				DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	641	Depart Location	Depart Location	6/22/2017	10:00:00	USER				THANK YOU FOR USING HALLIBURTON - BRYAN KRAFT AND CREW.

3.0 Job Chart

3.1 Job Chart

