

HALLIBURTON

iCem[®] Service

SRC ENERGY INC

TROUDT 41N-23C-M PRODUCTION

Sincerely,
COREY NICHOLLS

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The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3851310	Quote #:	Sales Order #: 0905079825
Customer: SRC ENERGY INC-EBUS		Customer Rep: KALIB FORD	
Well Name: TROUDT		Well #: 41N-23C-M	API/UWI #: 05-123-46237-00
Field: WATTENBERG	City (SAP): LUCERNE	County/Parish: WELD	State: COLORADO
Legal Description: NE NW-27-6N-66W-760FNL-1669FWL			
Contractor: PRECISION DRLG		Rig/Platform Name/Num: PRECISION 562	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA/HB41307		Srvc Supervisor: Vitali Neverdasov	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	15581ft	Job Depth TVD	7036
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
Casing		9.625	8.921	36	LTC	J-55	0	1860	0	1860
Casing		5.5	4.778	20	TXP-BTC	P110IC	0	15581	0	7036
Open Hole Section			8.5				1860	15595	1860	7036

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5	1	WHED
Float Shoe	5.5	1	N/A	15581	Bottom Plug	5.5	1	WHED
Float Collar	5.5	1	N/A	15473	SSR plug set	5.5		
Insert Float	5.5				Plug Container	5.5	1	HES
Stage Tool	5.5				Centralizers	5.5	N/A	N/A

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	Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.86		4		
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)								
	0.50 gal/bbl	MUSOL A, 330 GAL TOTE - (790828)								
	0.50 gal/bbl	DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								

145.18 lbm/bbl		BARITE, BULK (100003681)							
36.09 gal/bbl		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
2	ElastiCem	ELASTICEM (TM) SYSTEM	1268	sack	13.2	1.57		8	7.54
7.54 Gal		FRESH WATER							
0.15 %		FE-2 (100001615)							
0.27 %		SCR-100 (100003749)							
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	NeoCem	NeoCem TM	867	sack	13.2	2.04		8	9.77
9.71 Gal		FRESH WATER							
0.08 %		SCR-100 (100003749)							
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	MMCR Displacement	MMCR Displacement	40	bbl	8.34			10	
0.2220 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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
5	Clay-web Displacement	Clay-web Displacement	233	bbl	8.33			8	
1 gal/bbl		CLA-WEB - BULK (101985043)							
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
6	MMCR Displacement	MMCR Displacement	70	bbl	8.34			6	
0.20 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
Cement Left In Pipe	Amount	0 ft			Reason			WET SHOE	
Comment : 20 BBLS OF CEMENT BACK TO SURFACE. ESTIMATED TOP OF TAIL @ 7861'.									

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Depart Yard Safety Meeting	Depart Yard Safety Meeting	8/22/2018	20:00:00	USER					Journey management meeting held prior to departure
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	8/22/2018	21:00:00	USER					Called Journey
Event	3	Call Out	Call Out	8/22/2018	23:00:00	USER					For Location @ 04:30
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	8/23/2018	03:59:00	USER					40 MILES. Discussed numbers and job procedures with Customer. RIG IS RUNNING CASING.
Event	5	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	8/23/2018	04:25:00	USER					JSA to discuss the hazards of rig-up
Event	6	Rig-Up Equipment	Rig-Up Equipment	8/23/2018	04:30:00	USER					Rig-up all surface lines and equipment up to the Buffer zone
Event	7	Casing on Bottom	Casing on Bottom	8/23/2018	07:24:00	USER					CASING LANDED.
Event	8	Circulate Well	Circulate Well	8/23/2018	07:45:00	USER					RIG UP PLUG CONTAINER AND MANIFOLD FOR RIG TO CIRCULATE.
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/23/2018	09:21:00	USER	8.36	0.00	-64.00	5.90	With all essential personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	10	Start Job	Start Job	8/23/2018	09:30:56	COM4	8.32	0.00	-81.00	5.90	
Event	11	Test Lines	Test Lines	8/23/2018	09:49:30	USER	8.27	0.00	4768.00	9.40	Load line with 2 bbls of water. Test lines @ 6343 psi

Event	12	Pump Spacer	Pump Spacer	8/23/2018	09:56:05	USER	11.16	2.00	211.00	11.00	BATCH/ WEIGH/PUMP 40 BBLs OF TUNED SPACER WITH SURFACTANS @ 11.5 PPG
Event	13	Drop Bottom Plug	Drop Bottom Plug	8/23/2018	10:14:00	USER	12.96	2.00	30.00	0.10	Pre-loaded bottom plug in plug container.
Event	14	Pump Lead Cement	Pump Lead Cement	8/23/2018	10:16:00	USER	13.34	4.50	410.00	6.60	BATCH/ WEIGHT/ PUMP 1268 SKS (354.6 BBLs) OF ELASTICEM @ 13.2 PPG.
Event	15	Pump Tail Cement	Pump Tail Cement	8/23/2018	11:07:00	USER	13.03	8.00	576.00	6.20	WEIGH/ PUMP 867 SKS (315 BBLs) OF NEOCEM @ 13.2 PPG
Event	16	Shutdown	Shutdown	8/23/2018	11:53:28	USER	13.32	0.00	-20.00	314.90	Finished pumping cement
Event	17	Clean Lines	Clean Lines	8/23/2018	11:59:08	USER	8.56	2.90	6.00	318.00	Wash pumps and lines
Event	18	Drop Top Plug	Drop Top Plug	8/23/2018	12:08:31	USER	7.90	0.20	15.00	343.00	Pre-loaded top plug in plug container.
Event	19	Pump Displacement	Pump Displacement - Start	8/23/2018	12:11:08	USER	7.89	5.90	54.00	0.50	343.1 bbls fresh water. FIRST 40 BBLs WITH 10 GAL MMCR. LAST 70 BBLs WITH 10 BBLs MMCR. DURING DISPLACEMENT BE-3 AND CLAWEB
Event	20	Slow Rate	Slow Rate	8/23/2018	12:54:48	USER	7.94	4.30	2792.00	339.50	SLOW RATE TO 4 BPM
Event	21	Bump Plug	Bump Plug	8/23/2018	12:58:18	USER	7.94	4.10	2665.00	354.10	BUMP PLUG @ 3304. 500 psi over final circulating pressure.
Event	22	Pump Water	Pump Water	8/23/2018	13:00:29	USER	7.97	0.00	3410.00	355.70	PRESSURE UP/ BURST @ 5610 psi, AND PUMP 6 BBLs WET SHOE.
Event	23	Shutdown	Shutdown	8/23/2018	13:02:26	USER	8.01	1.30	4712.00	357.30	
Event	24	Check Floats	Check Floats	8/23/2018	13:07:00	USER	7.79	0.00	39.00	364.50	Floats held. 3 bbls back
Event	25	End Job	End Job	8/23/2018	13:13:14	COM4	7.99	0.00	-3.00	364.50	

Event	26	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/23/2018	13:15:00	USER	8.01	0.00	-4.00	364.50	JSA to discuss the hazards of rig-down
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2.0 Attachments

2.1 Case 1-Custom Results.png

