

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Friday, December 29, 2017

GOETZEL 12N-30B-M PRODUCTION

Job Date: Friday, December 15, 2017

Sincerely,

Julia Nichols

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **GOETZEL 12N-30B-M** cement **PRODUCTION** 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.

Approximately 15 barrels of cement were returned 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]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3781621	Quote #:	Sales Order #: 0904500454
Customer: SYNERGY RESOURCES CORPORATION		Customer Rep: BUDDY DAVIS	
Well Name: GOETZEL	Well #: 12N-30B-M	API/UWI #: 05-123-44189-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: WELD	State: COLORADO
Legal Description: NE SW-29-8N-86W-2237FSL-2053FWL			
Contractor:		Rig/Platform Name/Num: Precision 462	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Robert Davis	
Job			
Formation Name			
Formation Depth (MD)	Top	1769	Bottom 15833
Form Type	BHST		
Job depth MD	15820ft	Job Depth TVD	6885
Water Depth	Wk Ht Above Floor 4		
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 1769 0 0
Casing		5.5	4.778 20 P-110 0 15820 6378 6885
Open Hole Section			8.5 1769 15833 6378 6885
Tools and Accessories			
Type	Size in	Qty	Make Depth ft Type Size in Qty Make
Guide Shoe	5.5		15820 Top Plug 5.5 HES
Float Shoe	5.5		Bottom Plug 5.5 HES
Float Collar	5.5		SSR plug set 5.5 HES
Insert Float	5.5		Plug Container 5.5 1 HES
Stage Tool	5.5		Centralizers 5.5 HES
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	Tuned Spacer III	Tuned Spacer III	40 bbl 11.5 3.8 6
35.10 gal/bbl FRESH WATER			
0.50 gal/bbl DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)			
0.50 gal/bbl MUSOL A, 330 GAL TOTE - (790828)			
147.42 lbm/bbl BARITE, BULK (100003681)			

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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	ElastiCem Lead	ELASTICEM (TM) SYSTEM	994	sack	13.2	1.57		8	7.54
7.54 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	NeoCem Tail	NeoCem TM	1092	sack	13.2	2.04		8	9.77
9.77 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	10	bbl	8.34			10	
0.50 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	Cla Web Displacement	Cla Web Displacement	339	bbl	8.33			8	
Cement Left In Pipe		Amount	46 ft			Reason		Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:		100 ppm	Mix Water Temperature:		80 °F °C	
Cement Temperature:		## °F °C	Plug Displaced by:		8.33 lb/gal kg/m3 XXXX	Disp. Temperature:		## °F °C	
Plug Bumped?		Yes	Bump Pressure:		2350-2840 psi MPa	Floats Held?		Yes	
Cement Returns:		15 bbl m3	Returns Density:		## lb/gal kg/m3	Returns Temperature:		## °F °C	
Comment BUMPED PLUG @ CALCULATED DISPLACEMENT, RUPTED PLUG @ 4800 PSI, PUMPED 6 BBL WET SHOE @ 4 BPM @ 2250 PSI, FLOATS HELD 2 ½ BBL BACK TO THE TRUCK, 40 BBLs OF SPACER AND 15 BBLs OF CEMENT RETURNS TO SURFACE.									

2.0 Real-Time Job Summary

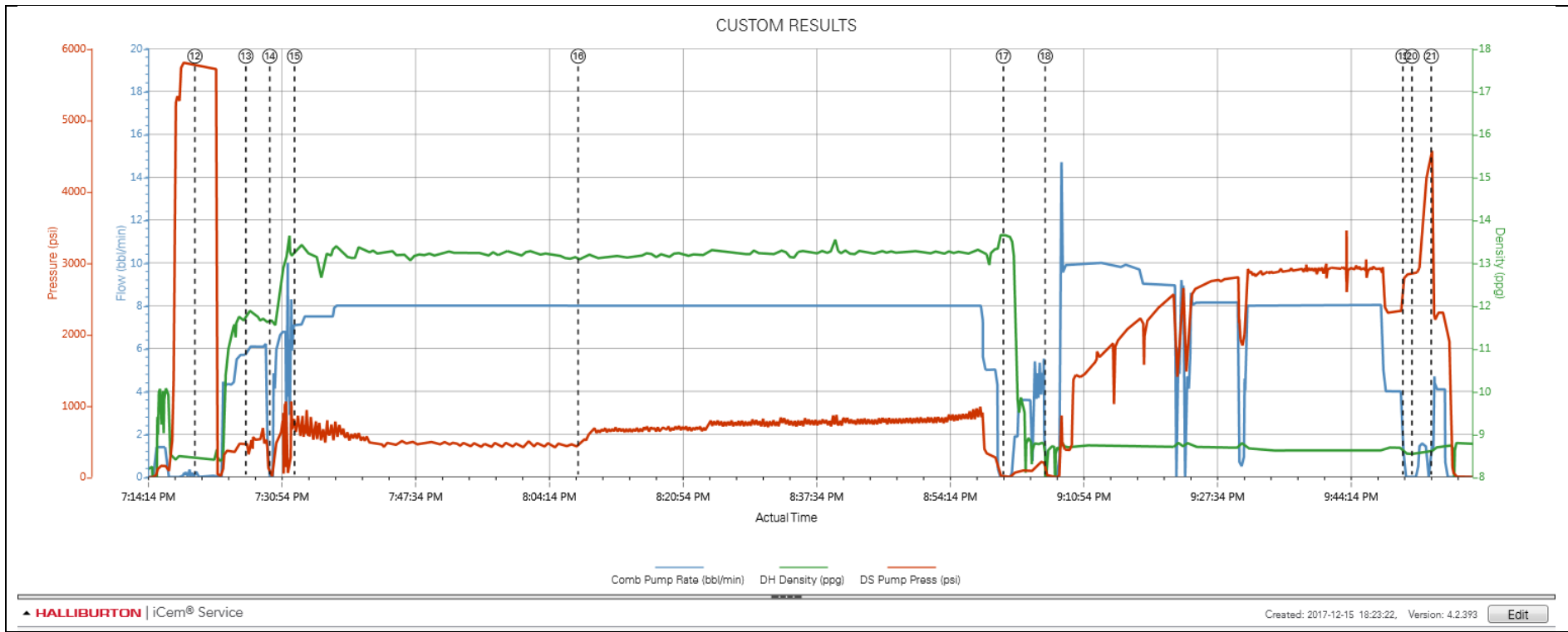
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	12/15/2017	12:00:00	USER				CALLED OUT FROM FT. LUPTON COLORADO
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	12/15/2017	14:30:00	USER				LEAVE YARD AFTER SAFTEY MEETING
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	12/15/2017	16:30:00	USER				ARRIVED ON LOCATION AND TALKED TO COMPANY MAN ABOUT JOB FIGURES AND THE SPOTTING OF OUR EQUIPMENT
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	12/15/2017	16:40:00	USER				ASSESSED LOCATION AN TOOK WATER SAMPLE
Event	5	Rig-Up Equipment	Rig-Up Equipment	12/15/2017	16:50:00	USER				SPOTTED EQUIPMENT AND RIGGED UP TO FLOOR RIG IS RUNNING CASING
Event	6	Other	Other	12/15/2017	17:00:00	USER				Water test=pH: 7____, Cl: _100____, temp _60____degrees Tannin-Lignin: _NEG.____; Sulfate: _200____
Event	7	Other	Other	12/15/2017	17:30:00	USER				Rig Circulation: ____ bbls Circulation Rate: _10____ bbl/min Mud Density _9.9____ lb/gal Mud YP/PV: _____
Event	8	Other	Other	12/15/2017	18:00:00	USER				Spacer: 40____ bbl TOS _0____ Lead Cement: ____278____ bbl, ____994____ sks, TOC _0____ Tail Cement: ____396____ bbl, ____1092____ sks, TOC _6115____ Displacement: _349____ bblCMT left in Pipe_1 BBL____ Reason_____
Event	9	Other	Other	12/15/2017	18:30:00	USER				TD: _15833____, TP ____15820____, SJ: _45.58____, OH: ____8.5____, Casing: Size/Weight/Grade: ____5.5/20#/P110____, Previous Casing Shoe: _1769____
Event	10	Rig-Up Completed	Rig-Up Completed	12/15/2017	18:45:00	USER	0.00	-0.01	50.00	RIG UP COMPLETE SAFETY MEETING WITH RIG HANDS AND HALLIBURTON ABOUT THE DANGERS OF OUR EQUIPMENT AND WENT OVER JOB FIGURES. READY TO TEST LINES
Event	11	Start Job	Start Job	12/15/2017	19:09:09	COM4	0.00	8.09	24.00	FLOOD LINES W/ 2 BBLS FRESH WATER

Event	12	Test Lines	Test Lines	12/15/2017	19:20:20	USER	0.00	8.44	5766.00	LOW TEST TO 500 PSI, HIGH TEST TO 5500 PSI
Event	13	Pump Spacer 1	Pump Spacer 1	12/15/2017	19:26:41	COM4	6.10	11.91	293.00	TUNED SPACER, 40 BBLS @ 11.5 PPG. PUMPED @ 6 BPM @ 500 PSI
Event	14	Drop Bottom Plug	Drop Bottom Plug	12/15/2017	19:29:40	USER	0.00	11.66	12.00	WEATHERFORD BOTTOM PLUG
Event	15	Pump Lead Cement	Pump Lead Cement	12/15/2017	19:32:45	COM4	7.10	13.22	677.00	ELASTICEM, 994 SKS @ 13.2 PPG, YEILD @ 1.57, GAL/SK @ 7.54, 1560.58 FT3, 278 BBLS, 178 BBLS OF WATER TO MIX, PUMPED @ 8 BPM @ 500 PSI, HOC-6115, TOC-0
Event	16	Pump Tail Cement	Pump Tail Cement	12/15/2017	20:08:07	COM4				NEOCER, 1092 SKS @ 13.2 PPG, YEILD @ 2.04, GAL/SK @ 9.77, 2227.68 FT3, 396 BBLS, 254 BBLS OF WATER TO MIX, PUMPED @ 8 BPM @ 560 PSI, HOC-9705, TOC-6115
Event	17	Drop Top Plug	Drop Top Plug	12/15/2017	21:01:09	COM4				WEATHERFORD TOP PLUG/ WET SHOE PLUG
Event	18	Pump Displacement	Pump Displacement	12/15/2017	21:06:23	COM4	0.00	8.65	16.00	349 BBLS, FIRST 10 MMCR, THE REST BIOCID/CLAYWEB.PUMPED @ 10 BPM @ 2180 PSI FOR THE FIRST 100 BBLS THEN SLOWED TO 8 BPM @ 2700 PSI, SLOWED RATE TO 4 BPM @ 2320 PSI LAST 20 BBLS, FULL RETURNS THOUGHOUT THE JOB.
Event	19	Bump Plug	Bump Plug	12/15/2017	21:50:59	COM4	0.00	8.55	2832.00	500 OVER, BUMPED PLUG @ 2350 PSI TOOK TO 2840 PSI
Event	20	Other	Other	12/15/2017	21:52:07	COM4				RUPTURE WET SHOE SUB @ 4800 PSI
Event	21	Other	Other	12/15/2017	21:54:31	COM4				PUMPED 6 BBL WET SHOE @ 4 BPM @ 2250 PSI, CHECK FLOATS. FLOATS HELD 2 1/2 BBLS BACK TO THE TRUCK.
Event	22	End Job	End Job	12/15/2017	22:06:55	COM4				
Event	23	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	12/15/2017	22:20:00	USER	0.00	0.31	-1.00	SAFETY MEETING OVER RIGGING DOWN
Event	24	Rig-Down Equipment	Rig-Down Equipment	12/15/2017	22:30:00	USER				RIG DOWN EQUIPMENT AND HOSES
Event	25	Rig-Down Completed	Rig-Down Completed	12/15/2017	23:30:00	USER				RIG DOWN COMPLETE
Event	26	Safety Meeting - Departing Location	Safety Meeting - Departing Location	12/15/2017	23:45:00	USER				SAFETY MEETING OVER DEPARTURE AND JOURNEY HOME
Event	27	Depart Location for Home	Depart Location for Home	12/16/2017	00:00:00	USER				LEAVE LOCATION

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

