

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS-EBUS**

**For: H&P 318**

Date: Friday, November 08, 2019

**GM 513-8 Production**

API# 05-045-24094

Job Date: Friday, November 08, 2019

Sincerely,  
**KC Smith**

## Legal Notice

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## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

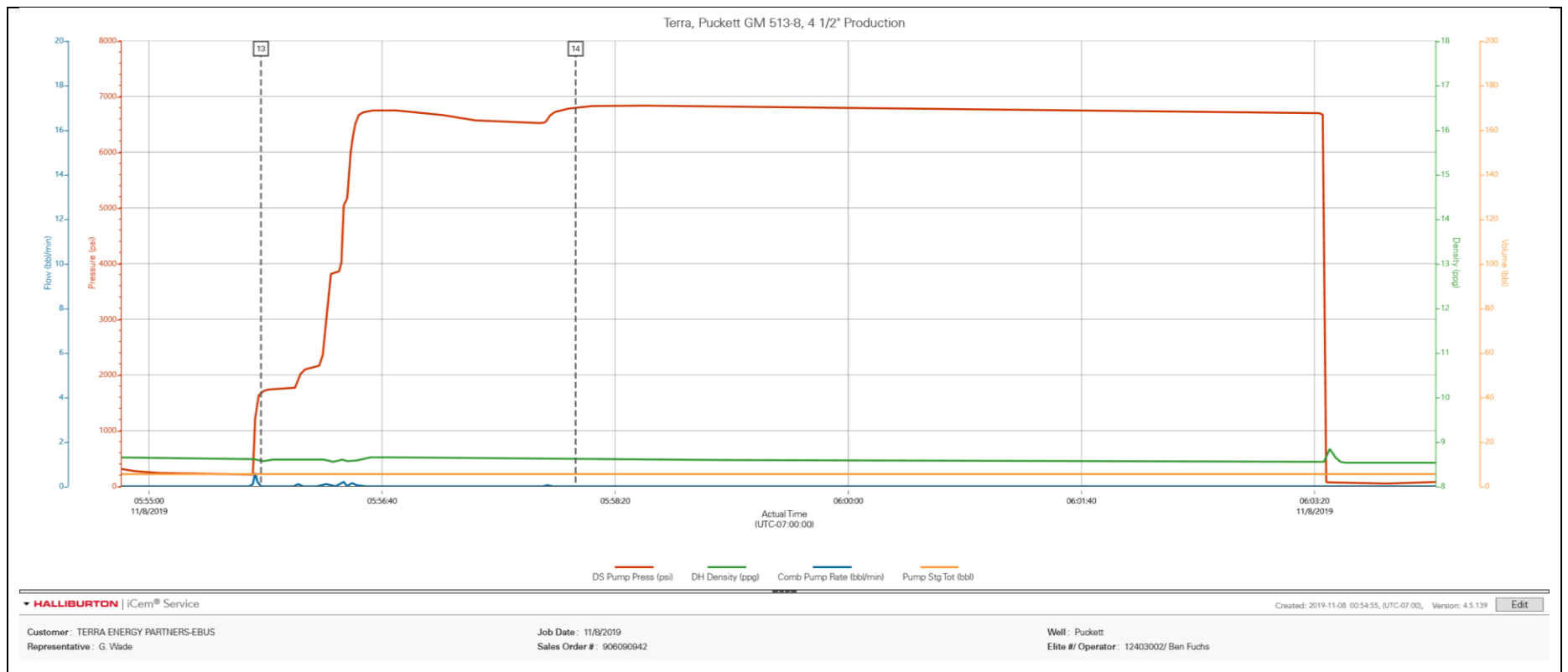
Type	Seq. No.	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/7/2019	15:30:00	USER					HES CREW CALLED OUT, REQUESTED ON LOCATION AT 03:30 ON 11/8/19. (OLT WAS MOVED FROM 02:00 TO 03:30)
Event	2	Depart Yard Safety Meeting	11/7/2019	20:55:00	USER					HES CREW DISCUSSES THE HAZARDS OF DRIVING TO LOCATION. FOCUS WAS ON ANIMALS IN THE ROADWAY.
Event	3	Depart from Service Center or Other Site	11/7/2019	21:00:00	USER					HES CREW DEPARTS YARD FOR LOCATION
Event	4	Arrive at Location from Service Center	11/8/2019	03:30:00	USER					HES CREW ARRIVES AT LOCATION. RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	11/8/2019	03:35:00	USER					HES CREW CONDUCTS A JSA AND DISCUSSES THE HAZARDS OF RIGGING UP
Event	6	WELL INFORMATION	11/8/2019	03:37:00	USER					HOLE DEPTH __6715__, TOTAL PIPE __6708__, CASING __4.5"__, __11.6#__, __P-110__ PREVIOUS CASING __1013__ 9 5/8", __36#__ SHOE JOINT __29.48'__ HOLE SIZE __8 3/4"__ MW __9.75__
Event	7	Pre-Rig Up Safety Meeting	11/8/2019	03:40:00	USER					HES CREW DISCUSS THE HAZARDS OF RIGGING UP IRON AND WATER HOSES
Event	8	Rig-Up Equipment	11/8/2019	03:45:00	USER					RIG UP IRON AND HOSES
Event	9	Rig-Up Completed	11/8/2019	05:00:00	USER					RIG UP COMPLETED
Event	10	Pre-Job Safety Meeting	11/8/2019	05:15:00	USER					HES CREW AND RIG CREW DISCUSSES THE HAZARDS OF PUMPING THE JOB. FOCUSED ON HAND PLACEMENT, LINE OF FIRE, POSITION OF FOOTING, AND KEEPING YOUR EYES ON THE PATH.
Event	11	Check Weight	11/8/2019	05:40:00	USER	0.00	8.39	8.80	56.40	MUD SCALE CHECK ON WATER READ 8.33 PPG
Event	12	Start Job	11/8/2019	05:45:00	USER	0.00	8.36	1.70	70.00	START JOB, RIG HAS GOOD CIRCULATION. FILLED LINES WITH 5 BBLS OF FRESH WATER
Event	13	Pressure Test	11/8/2019	05:55:48	USER	1657.00	8.55	0.00	5.50	500 PSI KICKOUT TEST

Event	14	Pressure Test	11/8/2019	05:58:03	USER	6800.00	8.62	0.00	5.50	6500 PSI PRESSURE TEST
Event	15	Pump Fresh Water	11/8/2019	06:04:18	USER	82.00	8.53	0.00	5.50	PUMP 10 BBLS FRESH WATER
Event	16	Pump Mud Flush Spacer	11/8/2019	06:09:27	USER	518.00	8.34	4.10	0.50	PUMP 20 BBLS OF MUD FLUSH
Event	17	Pump Lead Cement	11/8/2019	06:14:31	USER	174.00	8.36	5.10	22.90	PUMP 134 BBLS (340 SKS) NEOCEM AT 12.3 PPG, 2.22 FT3/SK, 11.57 GAL/SK AT 6 BPM
Event	18	Pump Tail Cement	11/8/2019	06:41:15	COM4	533.00	12.96	5.50	0.00	PUMP 173 BBLS (460 SKS) NEOCEM AT 12.5 PPG, 2.11 FT3/SK, 10.78 GAL/SK AT 8 BPM
Event	19	Shutdown	11/8/2019	07:09:04	USER	119.00	12.32	2.20	188.70	SHUTDOWN
Event	20	Clean Lines	11/8/2019	07:10:03	USER	34.00	14.46	0.00	188.70	WASH PUMPS AND LINES TO PIT
Event	21	Drop Top Plug	11/8/2019	07:16:08	USER	31.00	0.04	0.00	198.40	DROP HALLIBURTON TOP PLUG. CUSTOMER THERE TO WITNESS
Event	22	Pump Displacement	11/8/2019	07:16:48	USER	40.00	1.23	0.20	0.00	PUMP FRESH WATER DISPLACEMENT 103.5 BBLS. 1 GALLON OF MMCR IN THE FIRST 10 BBLS AND 3 POUNDS OF BE-6 IN THE FIRST 30 BBLS
Event	23	Slow Rate	11/8/2019	07:28:19	USER	1405.00	8.28	8.00	91.10	SLOW RATE LAST 10 BBLS TO 4 BPM
Event	24	Bump Plug	11/8/2019	07:30:58	USER	1093.00	8.29	4.00	101.60	BUMP PLUG, FINAL CIRCULATING PRESSURE 1300 PSI AND PRESSURED UP TO 2400 PSI
Event	25	Check Floats	11/8/2019	07:32:19	USER	2386.00	8.24	0.00	102.20	CHECK FLOATS, 1 BBL BACK TO HES PUMP
Event	26	End Job	11/8/2019	07:35:00	USER					END JOB FINAL
Event	27	Pre-Rig Down Safety Meeting	11/8/2019	07:40:00	USER					HES CREW DISCUSS THE HAZARDS OF RIGGING DOWN
Event	28	Rig-Down Equipment	11/8/2019	07:45:00	USER					HES CREW RIG DOWN EQUIPMENT AND LINES
Event	29	Rig-Down Completed	11/8/2019	08:45:00	USER					RIG DOWN COMPLETE
Event	30	ITEMS RETURNED	11/8/2019	08:50:00	USER					ITEMS RETURNED: 100 # SUGAR
Event	31	Pre-Convoy Safety Meeting	11/8/2019	08:55:00	USER					HES CREW DISCUSS THE HAZARDS OF DRIVING
Event	32	Depart Location for Service Center or Other Site	11/8/2019	09:00:00	USER					HES CREW DEPARTS LOCATION

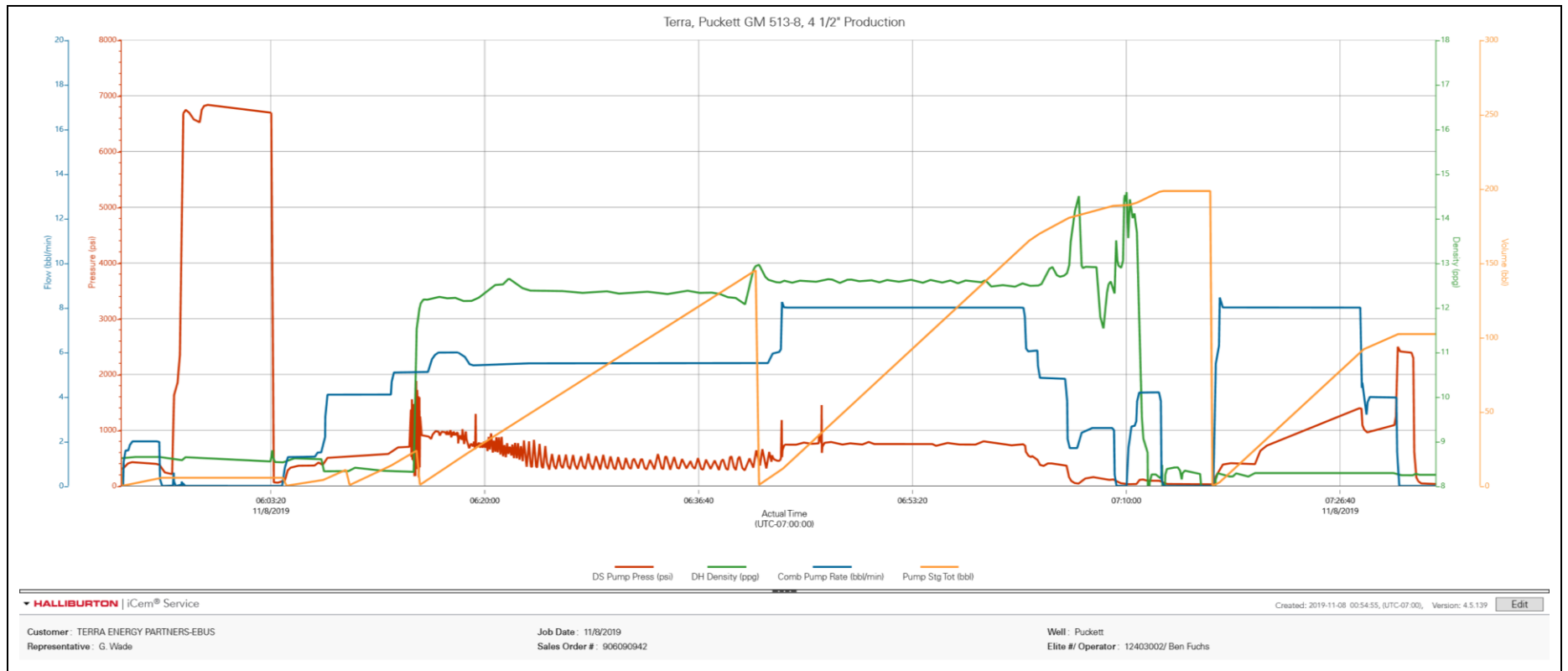
Event	33	Cement info	11/8/2019	09:01:00	USER	WATER SPACER: 10 BBLS__TOD__582.4' MUD FLUSH SPACER: __20__BBLS__, TOS__839.4' CEMENT: __307__BBLS__800__SKS__, TOC_1107.2'__, DISPLACEMENT: __103.5__BBLS__CEMENT LEFT IN PIPE__0.5__ REASON: __SHOE JOINT____
Event	34	Job Complete	11/8/2019	09:02:00	USER	JOB COMPLETE ESTIMATED TOP OF LEAD CEMENT AT 1107'. THANK YOU FOR CHOOSING HALLIBURTON CEMENT DEPARTMENT - KC SMITH AND CREW

## 2.0 Attachments

### 2.1 PRESSURE TEST.png



## 2.2 JOB CHART WITHOUT EVENTS.png





## 2.3 JOB CHART WITH EVENTS.png

