

HALLIBURTON

iCem® Service

PDC ENERGY EBUS

For: E. COSSITO

Date: Thursday, October 13, 2016

PDC WELLS RANCH 42-30 ANNULAR FILL

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Job Date: Thursday, October 13, 2016

Sincerely,

NICK ROLES AND CREW

HALLIBURTON

Customer: PDC ENERGY EBUS
 Job: PDC WELLS RANCH 42-30 ANNULAR FILL
 Case: PDC WELLS RANCH 42-30 ANNULAR FILL | SO#: 903601711

1.0 Real-Time Job Summary

1.1 Job Event Log

Event	Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bb/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event 1	Call Out			Call Out	10/13/201	02:30:00	USER				CREW CALLOUT FOR O/L AT 0700 BY COORDINATOR
Event 2	Pre-Convoy Safety Meeting			Pre-Convoy Safety Meeting	10/13/201	05:00:00	USER				PRE JOURNEY MANNAGMENT ALL HSE PRESENT
Event 3	Depart from Service Center or Other Site			Depart from Service Center or Other Site	10/13/201	05:30:00	USER				ALL JOB CRITICAL CREW PRESENT AND AWARE OF HAZARDS AND DIRECTIONS
Event 4	Arrive at Location from Service Center			Arrive at Location from Service Center	10/13/201	06:30:00	USER				ARRIVED OUTSIDE OF LOCATION. GATE WAS LOCKED SO WAITED FOR RIG CREW TO SHOW AT 0700. MET WITH COMPANY REP TO DISCUSS JOB DETAILS AND PROCEDURE
Event 5	Pre-Rig Up Safety Meeting			Pre-Rig Up Safety Meeting	10/13/201	07:00:00	USER				PERFORMED SITE ASSESSMENT AND HAZARD HUNT
Event 6	Other			WATER TEST	10/13/201	07:20:00	USER				PH-7 CHLO-0 TEMP- 65
Event 7	Pre-Job Safety Meeting			Pre-Job Safety Meeting	10/13/201	07:30:00	USER				WENT OVER JOB PROCEDURE AND HAZARDS. ALL JOB CRITICAL CREW AND HSE PERSONEL PRESENT.
Event 8	Other			Other	10/13/201	07:35:00	USER				COMPANY REP DISCUSSED A CHANGE OF PLAN AND DECIDED TO SET THE PLUG IN ONE STAGE AND CONTINGENCIES WERE



(v. 4.1.107)

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DISCUSSED AS WELL AS
 NON RECOMMENDED PLUG
 OVER 500' SHEET SIGNED
 BY COMPANY REP

Event 9	Start Job	Start Job	10/13/2016	08:10:00	COM6	0.00	8.49	898.00	CASING 4.5" 11.6# SURFACE CASING 8.5/8" SET AT 772' 10"OH 1 1/4" TUBING SET AT 2400'
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Event 10	Test Lines	Test Lines	10/13/2016	08:11:12	COM6	0.00	8.57	3664.00	TESTED TO 2500PSI PRESSURE HELD GOOD NO LEAKS
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Event 11	Pump Spacer 1	Pump Spacer 1	10/13/2016	08:15:31	COM6	0.50	8.47	181.00	PUMPED FRESH WATER UNTIL CIRCULATION TOOK 4BBL AT 2BPM
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Event 12	Pump Cement	Pump Cement	10/13/2016	08:26:44	COM6	0.00	8.48	199.00	PUMPED 135BBL OR 533SKS OF 13.5PPG 1.42Y 6.8G/S CEMENT AT 1.5BPM AT 1500PSI
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Event 13	Pump Displacement	Pump Displacement	10/13/2016	09:55:49	COM6	1.30	13.43	1585.00	PUMPED 1BBL OF FRESH WATER TO CLEAN LINES
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Event 14	Shutdown	Shutdown	10/13/2016	10:00:00	USER	0.00	8.34	52.00	RIG CREW PULLED TUBING OUT OF HOLE AND RIGGED DOWN BOP TO TOP OUT.
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Event 15	Other	TOP OUT	10/13/2016	12:07:44	USER	0.40	13.83	17.00	TOPPED OUT WELL WITH 3BBL OF 13.5PPG CEMENT
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Event 16	End Job	End Job	10/13/2016	12:10:00	COM6	0.00	14.03	16.00	
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Event 17	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/13/2016	12:30:00	USER	6.20	8.02	120.00	ALL HSE INVOLVED
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Event 18	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	10/13/2016	13:30:00	USER				PRE JOURNEY MANGMENT PRIOR TO DEPARTURE. ALL CREW FIT TO DRIVE
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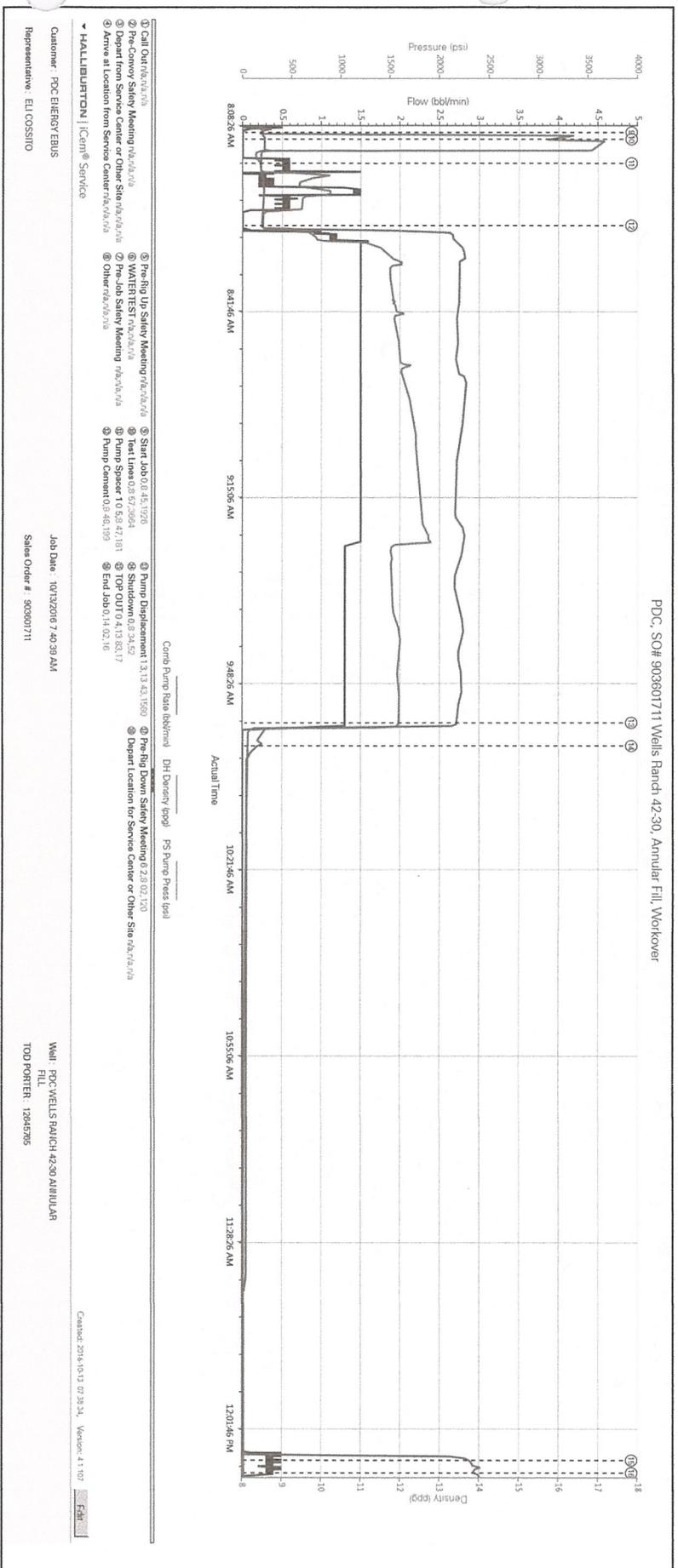
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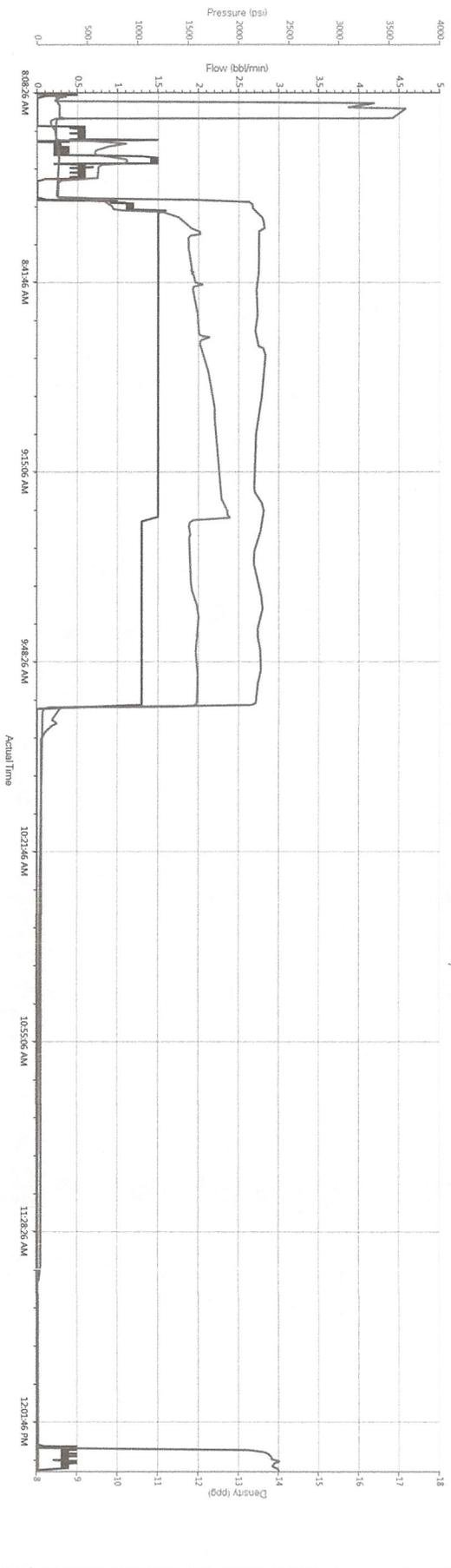
Created: Thursday, October 13, 2016

2.0 Attachments

2.1 PDC WELLS RANCH 42-30 ANNULAR FILL-Custom Results.png



2.2 PDC WELLS RANCH 42-30 ANNULAR FILL - NO EVENTS.png



PDC: SO# 903601711 Wells Ranch 42-30, Annular Fill, Workover

Comb Pump Rate (bbf/min) DH Density (ppg) PS Pump Press (psi)

Actual Time

HALLIBURTON | iCem® Service
 Customer: PDC ENERGY EBUS
 Representative: ELU COSSIMO

Job Date: 10/13/2016 7:40:39 AM
 Sales Order #: 903601711

WMI: PDCWELLS RANCH 42-30 ANNULAR FILL
 TOD PORTER: 1264576

Created: 2016/10/13 07:28:24, Version: 4.1.107

Edt