

# HALLIBURTON

iCem<sup>®</sup> 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

| Type  | Seq. No. | Activity                                 | Graph Label                              | Date       | Time     | Source | Comb Pump Rate<br>(bbl/min) | DH Density<br>(ppg) | PS Pump Press<br>(psi) | Comments   |
|-------|----------|--|--|------------|----------|--------|-----------------------------|---------------------|------------------------|--|
| Event | 1        | Call Out                                 | Call Out                                 | 10/13/2016 | 02:30:00 | USER   |                             |                     |                        | CREW CALLOUT FOR O/L AT 0700 BY COORDINATOR  |
| Event | 2        | Pre-Convoy Safety Meeting                | Pre-Convoy Safety Meeting                | 10/13/2016 | 05:00:00 | USER   |                             |                     |                        | PRE JOURNEY MANAGMENT ALL HSE PRESENT  |
| Event | 3        | Depart from Service Center or Other Site | Depart from Service Center or Other Site | 10/13/2016 | 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   | 10/13/2016 | 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                | 10/13/2016 | 07:00:00 | USER   |                             |                     |                        | PERFORMED SITE ASSESSMENT AND HAZARD HUNT  |
| Event | 6        | Other                                    | WATER TEST                               | 10/13/2016 | 07:20:00 | USER   |                             |                     |                        | PH-7 CHLO-0 TEMP- 65   |
| Event | 7        | Pre-Job Safety Meeting                   | Pre-Job Safety Meeting                   | 10/13/2016 | 07:30:00 | USER   |                             |                     |                        | WENT OVER JOB PROCEDURE AND HAZARDS. ALL JOB CRITICAL CREW AND HSE PERSONEL PRESENT.   |
| Event | 8        | Other                                    | Other                                    | 10/13/2016 | 07:35:00 | USER   |                             |                     |                        | COMPANY REP DISCUSSED A CHANGE OF PLAN AND DECIDED TO SET THE PLUG IN ONE STAGE AND CONTINGENCIES WERE   |

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(v. 4.1.107)

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

CASING 4.5" 11.6# SURFACE  
 CASING 8 5/8" SET AT 772'  
 10"OH 1 1/4" TUBING SET  
 AT 2400'

TESTED TO 2500PSI  
 PRESSURE HELD GOOD NO  
 LEAKS

PUMPED FRESH WATER  
 UNTIL CIRCULATION TOOK  
 4BBL AT 2BPM

PUMPED 135BBL OR  
 533SKS OF 13.5PPG 1.42Y  
 6.8G/S CEMENT AT 1.5BPM  
 AT 1500PSI

PUMPED 1BBL OF FRESH  
 WATER TO CLEAN LINES

RIG CREW PULLED TUBING  
 OUT OF HOLE AND RIGGED  
 DOWN BOP TO TOP OUT.

TOPPED OUT WELL WITH  
 3BBL OF 13.5PPG CEMENT

PRE JOURNEY MANAGMENT  
 PRIOR TO DEPARTURE. ALL  
 CREW FIT TO DRIVE

|       |    |  |  |            |          |      |      |       |         |  |
|-------|----|--|--|------------|----------|------|------|-------|---------|--|
| Event | 9  | Start Job  | Start Job  | 10/13/2016 | 08:10:00 | COM6 | 0.00 | 8.49  | 898.00  |  |
| Event | 10 | Test Lines                                       | Test Lines                                       | 10/13/2016 | 08:11:12 | COM6 | 0.00 | 8.57  | 3664.00 |  |
| Event | 11 | Pump Spacer 1                                    | Pump Spacer 1                                    | 10/13/2016 | 08:15:31 | COM6 | 0.50 | 8.47  | 181.00  |  |
| Event | 12 | Pump Cement                                      | Pump Cement                                      | 10/13/2016 | 08:26:44 | COM6 | 0.00 | 8.48  | 199.00  |  |
| Event | 13 | Pump Displacement                                | Pump Displacement                                | 10/13/2016 | 09:55:49 | COM6 | 1.30 | 13.43 | 1585.00 |  |
| Event | 14 | Shutdown   | Shutdown   | 10/13/2016 | 10:00:00 | USER | 0.00 | 8.34  | 52.00   |  |
| Event | 15 | Other  | TOP OUT  | 10/13/2016 | 12:07:44 | USER | 0.40 | 13.83 | 17.00   |  |
| Event | 16 | End Job  | End Job  | 10/13/2016 | 12:10:00 | COM6 | 0.00 | 14.03 | 16.00   |  |
| 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  |  |
| 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 |      |       |         |  |

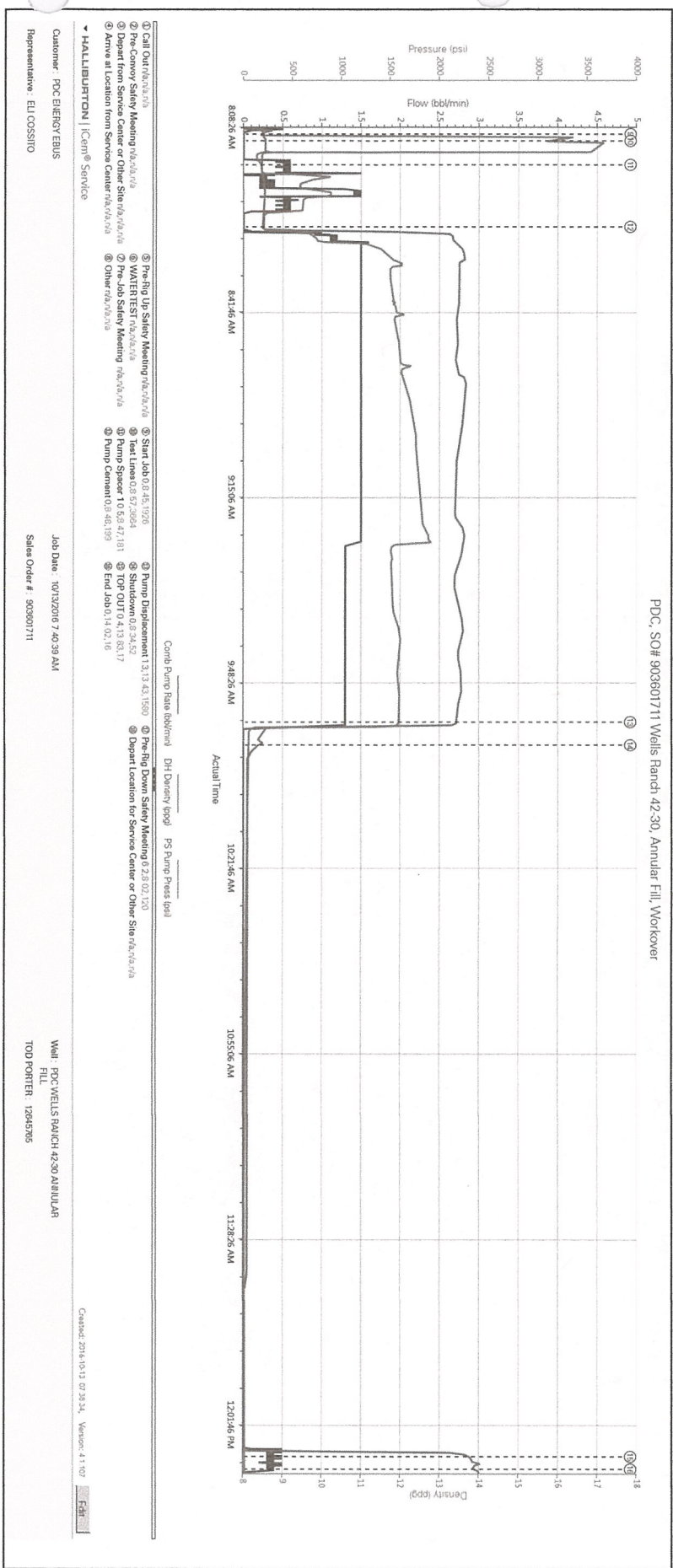
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## 2.0 Attachments

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





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

