

**ANADARKO PETROLEUM CORP - EBUS
DO NOT MAIL - PO BOX 4995
THE WOODLANDS, Texas**

Xcel 22C-22HZ

Majors 42

Post Job Summary **Cement Surface Casing**

Prepared for:
Date Prepared: 12/1/2013
Version: 1

Service Supervisor: PICKELL, CHRISTOPHER

Submitted by: FINNEY, SEAN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

| Job Tubulars | | | | | MD | | Shoe Joint Length ft |
|-------------------|---------------------------|------------|--------|--------------|-----------|--------------|-------------------------|
| Type | Description | Size in | ID in | Wt lbm/ft | Top ft | Bottom ft | |
| Casing | 9 5/8" Surface Casing | 9.63 | 8.921 | 36.00 | 0.00 | 1,071.00 | 42.00 |
| Open Hole Section | 13 1/2" Open Hole Section | | 13.500 | | 0.00 | 1,073.00 | 0.00 |

HALLIBURTON

Pumping Schedule

| Stage /Plug # | Fluid # | Fluid Type | Fluid Name | Surface Density lbm/gal | Avg Rate bbl/min | Surface Volume | Downhole Volume |
|---------------|---------|---------------|--------------------|-------------------------|------------------|----------------|-----------------|
| 1 | 1 | Spacer | Fresh Water Spacer | 8.33 | 2.00 | 10.0 bbl | 10.0 bbl |
| 1 | 2 | Spacer | Mud Flush | 8.40 | 3.00 | 12.0 bbl | 12.0 bbl |
| 1 | 1 | Spacer | Fresh Water Spacer | 8.33 | 3.00 | 10.0 bbl | 10.0 bbl |
| 1 | 3 | Cement Slurry | SwiftCem B2 | 14.20 | 5.00 | 402.0 sacks | 402.0 sacks |

Fluids Pumped

Stage/Plug # 1 Fluid 1: Fresh Water Spacer
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal
Fluid Volume: 10.00 bbl
Pump Rate: 2.00 bbl/min

Stage/Plug # 1 Fluid 2: Mud Flush
DUMMY MUD / FLUSH / SPACER SBC MATERIAL
3.5 lbm/bbl Mud Flush III
42 gal/bbl Mud Flush III

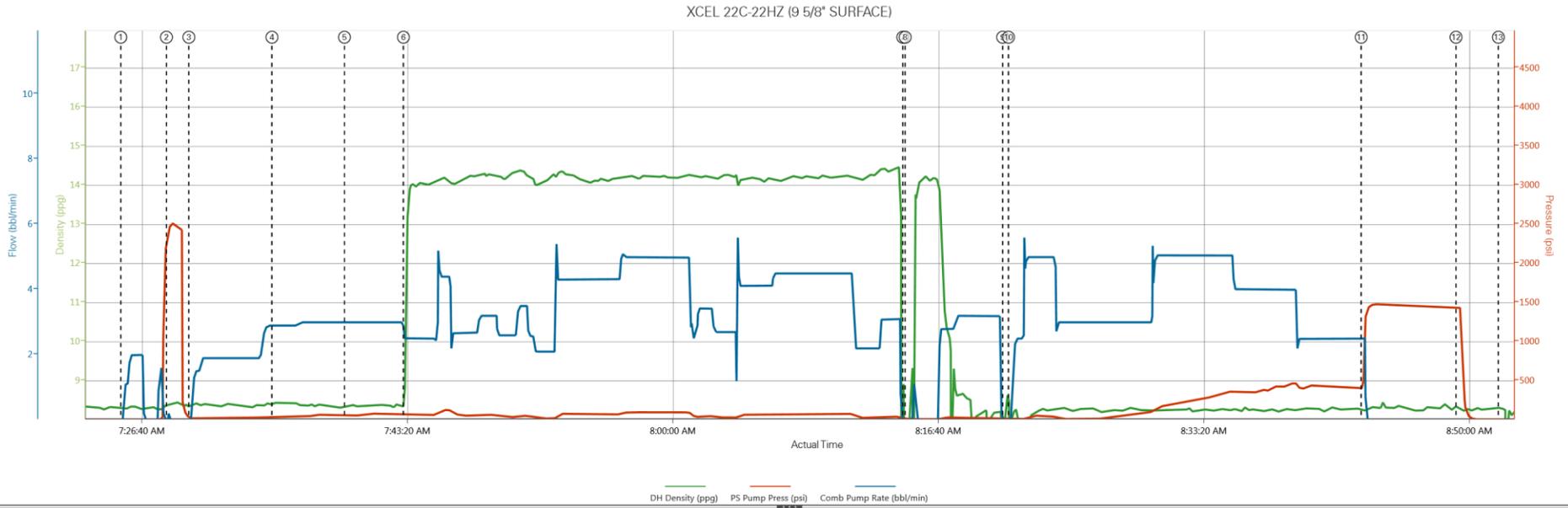
Fluid Density: 8.40 lbm/gal
Fluid Volume: 12.00 bbl
Pump Rate: 3.00 bbl/min

Stage/Plug # 1 Fluid 3: SwiftCem B2
SWIFTCEM (TM) SYSTEM

Fluid Weight: 14.20 lbm/gal
Slurry Yield: 1.53 ft³/sack
Total Mixing Fluid: 7.63 Gal
Surface Volume: 402.0 sacks
Sacks: 402.0 sacks
Calculated Fill: 900.00 ft
Calculated Top of Fluid: 0.00 ft

HALLIBURTON

Data Acquisition



- ① Start Job 8:33,5,0 ④ Pump Mudflush 8:44,47,2,9 ⑦ Shutdown 4:86,16,0 ⑩ Pump Displacement 7:63,11,0 ⑬ End Job 8:28,8,0
- ② Test Lines 8:4,2381,0,2 ⑤ Pump Water 8:33,59,3 ⑧ Clean Lines 6:85,14,0 ⑪ Bump Plug 8:22,494,2,5
- ③ Pump Water 8:38,24,0 ⑥ Pump Swifcem 14,2#9,93,66,2,5 ⑨ Drop Top Plug 8:14,14,0 ⑫ Check Floats 8:33,1442,0

HALLIBURTON

Service Supervisor Reports

Job Log

| Date/Time | Chart # | Activity Code | Pump Rate | Cum Vol | Pump | Pressure (psig) | Comments |
|------------------|---------|--|-----------|---------|------|-----------------|--|
| 11/21/2013 01:00 | | Call Out | | | | | CREW CALLED OUT AT 0100 TO BE ON LOCATION AT 0530. CREW WAS CHRIS PICKELL, ROY NESBITT, JAMES WILEY, JAMES MYRE, KEN MILLS |
| 11/21/2013 05:00 | | Depart from Service Center or Other Site | | | | | SAFETY MEETING HELD FOR JOURNEY FROM YARD TO MAJOR 42 |
| 11/21/2013 05:30 | | Arrive At Loc | | | | | ARRIVE AT LOCATION AT 0530. RIG WAS ON BOTTOM CIRCULATING |
| 11/21/2013 05:40 | | Rig-Up Equipment | | | | | HAZARD HUNT PERFORMED. WATER TEST DONE. RIG UP PLANNED AND EXECUTED |
| 11/21/2013 07:00 | | Pre-Job Safety Meeting | | | | | SAFETY MEETING WITH ALL PERSONEL ON LOCATION TO DISCUSS JOB SAFETY AND PROCEDURE |
| 11/21/2013 07:25 | | Start Job | | | | | QUICK LATCH PLUG CONTAINER USED ON JOB |
| 11/21/2013 07:28 | | Test Lines | 1 | 3 | | 2500.0 | PRESSURE TEST LINES TO 2500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS |
| 11/21/2013 07:29 | | Pump Spacer 1 | 2 | 10 | | 75.0 | PUMP WATER. RETURNS BEGAN WITH 1 BBL AWAY |
| 11/21/2013 07:34 | | Pump Spacer 2 | 3 | 12 | | 125.0 | PUMP MUDFLUSH |
| 11/21/2013 07:39 | | Pump Spacer 1 | 3 | 10 | | 150.0 | PUMP WATER |
| 11/21/2013 07:43 | | Pump Cement | 5 | 110.3 | | 175.0 | PUMP SWIFTCM CEMENT 402 SKS 14.2 PPG 1.54 CUFT/SK 7.66 GAL/SK |
| 11/21/2013 08:14 | | Shutdown | | | | | |
| 11/21/2013 08:14 | | Clean Lines | | | | | WASH PUMPS AND LINES INTO HALF MOON TANK |
| 11/21/2013 08:20 | | Drop Top Plug | | | | | PLUG PRELOADED. WITNESSED BY COMPANY MAN |
| 11/21/2013 08:21 | | Pump Displacement | 5 | 81 | | 500.0 | PUMP DISPLACEMENT USING WATER. CALCULATED DISPLACEMENT WAS 80.2 BBL |
| 11/21/2013 08:43 | | Bump Plug | 2.5 | | | 455.0 | CALCULATED PRESSURE TO LAND WAS 270. PLUG LANDED WITH 455 PSI GOING 1000 PSI OVER TO 1400 |
| 11/21/2013 08:49 | | Check Floats | | | | | PRESSURE WAS HELD FOR 5 MINUTES THEN RELEASED. FLOATS HELD. 1/2 BBL BACK TO TANKS |
| 11/21/2013 08:51 | | End Job | | | | | 25 BBL OF CEMENT TO SURFACE. GOOD RETURNS THROUGHOUT ENTIRE JOB |
| 11/21/2013 09:00 | | Pre-Rig Down Safety Meeting | | | | | SAFETY MEETING HELD TO DISCUSS RIG DOWN SAFETY AND PROCEDURE |
| 11/21/2013 09:15 | | Rig-Down Equipment | | | | | RIG DOWN ALL EQUIPMENT |
| 11/21/2013 10:00 | | Depart Location for Service Center or Other Site | | | | | LEAVE LOCATION FOR THE YARD |

The Road to Excellence Starts with Safety

| | | | | | | | |
|---|--|---------------------------|--|--|-------------------|------------------------------------|--|
| Sold To #: 300466 | | Ship To #: 3202446 | | Quote #: | | Sales Order #: 900916436 | |
| Customer: ANADARKO PETROLEUM CORP - EBUS | | | | Customer Rep: Hersh, Larry | | | |
| Well Name: Xcel | | | Well #: 22C-22HZ | | API/UWI #: | | |
| Field: WATTENBERG | | City (SAP): DACONO | | County/Parish: Weld | | State: Colorado | |
| Contractor: Majors | | | Rig/Platform Name/Num: Majors 42 | | | | |
| Job Purpose: Cement Surface Casing | | | | | | | |
| Well Type: Development Well | | | | Job Type: Cement Surface Casing | | | |
| Sales Person: PLIENESS, RYAN | | | Srvc Supervisor: PICKELL, CHRISTOPHER | | | MBU ID Emp #: 396838 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|----------------|---------|--------|----------------------|---------|--------|--------------------------|---------|--------|
| MYRE, JAMES | 0.0 | 549859 | NESBITT, ROY Iverson | 0.0 | 537416 | PICKELL, CHRISTOPHER Lee | 0.0 | 396838 |
| WILEY, JAMES A | 0.0 | 440080 | | | | | | |

Equipment

| HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10972458 | 7 mile | 11019275C | 7 mile | 11036295C | 7 mile | 11605597 | 7 mile |
| 11667703C | 7 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| | | | | | | | | |

TOTAL *Total is the sum of each column separately*

Job

Job Times

| Formation Name | Formation Depth (MD) | Top | Bottom | Called Out | Date | Time | Time Zone |
|-------------------------------|----------------------|-----|--------------------------|--------------------|----------------------|-----------------|-----------|
| | | | | | 21 - Nov - 2013 | 01:00 | MST |
| Form Type | | | BHST | On Location | 21 - Nov - 2013 | 05:30 | MST |
| Job depth MD | 1073. ft | | Job Depth TVD | 1073. ft | Job Started | 21 - Nov - 2013 | 07:25 |
| Water Depth | | | Wk Ht Above Floor | 5. ft | Job Completed | 21 - Nov - 2013 | 08:51 |
| Perforation Depth (MD) | <i>From</i> | | <i>To</i> | | Departed Loc | 21 - Nov - 2013 | 10:00 |
| | | | | | | | MST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|---------------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 13 1/2" Open Hole Section | | | | 13.5 | | | | . | 1073. | | |
| 9 5/8" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | | J-55 | . | 1071. | | |

Fluid Data

Stage/Plug #: 1

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---------|------------|------------|-----|---------|------------------------|---------------------------|------------------|--------------|------------------------|
| | | | | | | | | | |

| 1 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | | | 2.0 | |
|--|--------------------|---------------------------------------|--------|-----------------------------------|------|---------------------|------|-----------|------|
| 2 | Mud Flush | | 12.00 | bbl | 8.4 | | | 3.0 | |
| | 3.5 lbm/bbl | MUD FLUSH III, 40 LB SACK (101633304) | | | | | | | |
| | 42 gal/bbl | MUD FLUSH III - SBM (528788) | | | | | | | |
| 1 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | | | 3.0 | |
| 3 | SwiftCem B2 | SWIFTCEM (TM) SYSTEM (452990) | 402.0 | sacks | 14.2 | 1.53 | 7.63 | 5.0 | 7.63 |
| | 7.63 Gal | FRESH WATER | | | | | | | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | | Shut In: Instant | | Lost Returns | | Cement Slurry | | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | | Actual Displacement | 80.2 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | |
| Cement Left In Pipe | Amount | 42 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

