

CAERUS OIL AND GAS LLC - EBUS

Island Ranch 23A-13

Patterson 303

Post Job Summary

Cement Surface Casing

Date Prepared: 07/24/2014

Job Date: 05/19/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|-----------------------|--------------------------------------|---------------------------|
| Sold To #: 360446 | Ship To #: 3474642 | Quote #: | Sales Order #: 0901358527 |
| Customer: CAERUS OIL AND GAS LLC - EBUS | | Customer Rep: WHITEY COTTAM | |
| Well Name: ISLAND RANCH | Well #: 23A-13 | API/UWI #: 05-045-22400-00 | |
| Field: PARACHUTE | City (SAP): PARACHUTE | County/Parish: GARFIELD | State: COLORADO |
| Legal Description: 13-7S-96W-1373FSL-1048FWL | | | |
| Contractor: PATTERSON-UTI ENERGY | | Rig/Platform Name/Num: PATTERSON 303 | |
| Job BOM: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HB80977 | | Srcv Supervisor: Andrew Brennecke | |
| Job | | | |

| | |
|------------------------|----------------------|
| Formation Name | |
| Formation Depth (MD) | Top Bottom |
| Form Type | BHST |
| Job depth MD | 1017ft Job Depth TVD |
| 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 | 3 | 16 | 15.124 | 75 | | | 0 | 60 | 0 | 0 |
| Casing | | 9.625 | 8.921 | 36 | LTC | J-55 | 0 | 1017 | | 0 |
| Open Hole Section | | | 13.5 | | | | 100 | 1025 | 0 | 0 |

Tools and Accessories

| Type | Size in | Qty | Make | Depth ft | Type | Size in | Qty | Make |
|--------------|---------|-----|------|----------|----------------|---------|-----|------|
| Guide Shoe | 9.625 | 1 | | 1017 | Top Plug | 9.625 | 1 | HES |
| Float Shoe | | | | | Bottom Plug | | | |
| Float Collar | 9.625 | 1 | | 971.24 | SSR plug set | | | |
| Insert Float | | | | | Plug Container | 9.625 | 1 | HES |
| Stage Tool | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc |
|---------------|------|------------|------|-----------|------|------|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty |
| | | | | | | |

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 | Fresh Water Spacer | Fresh Water Spacer | 20 | bbl | 8.34 | | | 4 | | |
| 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 | Tail Cement | VERSACEM (TM) SYSTEM | 265 | sack | 12.8 | 2.18 | | 6 | 12.11 | |
|----------------------------|--------------|----------------------|----------|---------|---------------------------|--------------------------------|---------------------|---------------------|---------------------------|--|
| 12.07 Gal | | FRESH WATER | | | | | | | | |
| | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
| 3 | Displacement | Displacement | 75.1 | bbl | 8.34 | | | 8 | | |
| | | | | | | | | | | |
| Cement Left In Pipe | | Amount | 45.76 ft | | Reason | | | Shoe Joint | | |
| Comment | | | | | | | | | | |

1.1 Job Event Log

| Type | Seq No. | Graph Label | Date | Time | Source | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pump Press (psi) | Pump Stg Tot (bbl) | Comment |
|-------|---------|---------------------------|-----------|----------|--------|------------------|--------------------------|---------------------|--------------------|--|
| Event | 1 | Call Out | 5/18/2014 | 20:00:00 | USER | | | | | |
| Event | 2 | Pre-Convoy Safety Meeting | 5/18/2014 | 23:15:00 | USER | | | | | ALL HES PRESENT |
| Event | 3 | Crew Leave Yard | 5/18/2014 | 23:30:00 | USER | | | | | |
| Event | 4 | Arrive At Loc | 5/19/2014 | 00:30:00 | USER | | | | | RIG HAD NOT STARTED RUNNING CASING |
| Event | 5 | Rig-Up Completed | 5/19/2014 | 08:45:00 | USER | | | | | 1-ELITE, 1-660 BULK, 2" IRON, 9.625" QUICK LATCH |
| Event | 6 | Pre-Job Safety Meeting | 5/19/2014 | 09:15:00 | USER | 8.11 | 0.00 | 00.00 | 27.2 | ALL HES AND RIG CREW PRESENT |
| Event | 7 | Start Job | 5/19/2014 | 09:25:00 | COM5 | 8.34 | 0.00 | 3.00 | 0.0 | TD-1025', TP-1017', SJ-45.76', OH-13.5", MUD-10PPG, CSG-9.625" 36# |
| Event | 8 | Prime Pumps | 5/19/2014 | 09:26:06 | USER | 8.30 | 2.00 | 30.00 | 2.0 | FRESH WATER |
| Event | 9 | Test Lines | 5/19/2014 | 09:30:07 | COM5 | 8.39 | 0.00 | 2673.00 | 2.2 | PRESSURE HELD AT 2673 PSI |
| Event | 10 | Pump Spacer 1 | 5/19/2014 | 09:33:55 | COM5 | 8.35 | 4.00 | 72.00 | 20.0 | FRESH WATER |
| Event | 11 | Pump Tail Cement | 5/19/2014 | 09:42:23 | COM5 | 12.8 | 6.00 | 170.00 | 102.8 | 265 SKS, 12.8PPG, 2.18FT3/SK, 12.11GAL/SK |
| Event | 12 | Shutdown | 5/19/2014 | 10:02:16 | USER | 12.8 | 0.00 | 0.00 | 102.8 | |
| Event | 13 | Pump Displacement | 5/19/2014 | 10:06:16 | COM5 | 8.45 | 8.00 | 350.00 | 65.0 | FRESH WATER |
| Event | 14 | Slow Rate | 5/19/2014 | 10:16:32 | USER | 8.39 | 2.00 | 220.00 | 10.0 | |
| Event | 15 | Bump Plug | 5/19/2014 | 10:20:22 | USER | 8.38 | 2.00 | 238.00 | 75.1 | |
| Event | 16 | Check Floats | 5/19/2014 | 10:23:04 | USER | 8.44 | 0.00 | 850.00 | 75.1 | FLOATS HELD. .5 BBL BACK TO DISPLACEMENT TANK |
| Event | 17 | End Job | 5/19/2014 | 10:24:00 | USER | 8.39 | 0.00 | 10.00 | 75.1 | GOOD RETURNS THROUGH OUT JOB, 35BBLs CMT BACK TO SURFACE |
| Event | 18 | Crew Leave Location | 5/19/2014 | 11:30:00 | USER | | | | | THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW |