

HALLIBURTON

iCem[®] Service

MCCOY PETROLEUM CO

El Reno District, Kansas

For: John Wadsworth

Date: Thursday, September 19, 2019

Whitaker-Schwab

Meade, Mccoy Whitaker-Schwab 0905967939

Mccoy Whitaker-Schwab 1H-8 0905967939

Job Date: Thursday, September 19, 2019

Sincerely,

Kurtis Pratt

Legal Notice

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1.0 Job Summary

The Road to Excellence Starts with Safety

| | | | | | | | | | | | |
|---|-------------------|--------------------------|---------------------|-----------------------------|--------------------------------------|----------------------------------|-------------------------------|----------------------------------|----------------------|----------------------|----------------------------|
| Sold To #: 303780 | | Ship To #: 303780 | | Quote #: 0022624643 | | Sales Order #: 0905967393 | | | | | |
| Customer: MCCOY PETROLEUM CO | | | | | Customer Rep: John Wadsworth | | | | | | |
| Well Name: Whitaker-Schwab | | | Well #: 1H-8 | | | API/UWI #: | | | | | |
| Field: | | City (SAP): Meade | | County/Parish: MEADE | | | State: KANSAS | | | | |
| Legal Description: | | | | | | | | | | | |
| Contractor: | | | | | Rig/Platform Name/Num: | | | | | | |
| Job BOM: 7521 7521 | | | | | | | | | | | |
| Well Type: OIL & GAS WELL | | | | | | | | | | | |
| Sales Person: HALAMERICA/HB80977 | | | | | Srvc Supervisor: Kurtis Pratt | | | | | | |
| Job | | | | | | | | | | | |
| Formation Name | | | | | | | | | | | |
| Formation Depth (MD) | | Top | | | Bottom | | | | | | |
| Form Type | | | | | BHST | | | | | | |
| Job depth MD | | 1800ft | | | Job Depth TVD | | | | | | |
| Water Depth | | | | | Wk Ht Above Floor | | | | | | |
| 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 | | 20 | 19.166 | 90 | | | 0 | 90 | | | |
| Casing | | 9.625 | 8.921 | 36 | LTC | J-55 | 0 | 1800 | | | |
| Open Hole Section | | | 12.25 | | | | 90 | 1800 | | | |
| Tools and Accessories | | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | | |
| Guide Shoe | 9.625 | | | 1800 | | Top Plug | 9.625 | | HES | | |
| Float Shoe | 9.625 | | | | | Bottom Plug | 9.625 | | HES | | |
| Float Collar | 9.625 | | | | | SSR plug set | 9.625 | | HES | | |
| Insert Float | 9.625 | | | | | Plug Container | 9.625 | | HES | | |
| Stage Tool | 9.625 | | | | | Centralizers | 9.625 | | HES | | |
| 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 | Water Spacer | Water Spacer | | | 30 | bbl | 8.33 | | | | |
| 42 gal/bbl | | FRESH WATER | | | | | | | | | |

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---|----------------------|---|-------|---------|-------------------------|-----------------------------|---------------|-------------------|---------------------|
| 2 | 11.5 ppg Lead Cement | Standard Cement | 370 | sack | 11.5 | 2.82 | | 3 | 17.29 |
| 0.1250 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 17.29 Gal | | FRESH WATER | | | | | | | |
| 4 % | | BENTONITE, BULK (100003682) | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 3 | 14.8 ppg Tail Cement | Standard Cement | 160 | sack | 14.8 | 1.33 | | 3 | 6.33 |
| 0.1250 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 6.33 Gal | | FRESH WATER | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 4 | Displacement | Displacement | 135.9 | bbl | 8.33 | | | | |
| | | | | | | | | | |
| Cement Left In Pipe | Amount | 42 ft | | | Reason | | | Shoe Joint | |
| Mix Water: | | Mix Water Chloride: | | | Mix Water Temperature: | | | | |
| Cement Temperature: | | Plug Displaced by: 136bbls Water | | | Disp. Temperature: | | | | |
| Plug Bumped? | yes | Bump Pressure: 880 | | | Floats Held? yes | | | | |
| Cement Returns: | 80 bbls | Returns Density: | | | Returns Temperature: | | | | |
| Comment Job pumped as designed. Circulated 71 bbls CMT to surface. Bumped on calculated. FCP 370 bumped to 885 psi. Floats held 1.5 bbls back to truck. 1500 psi Casing test for 30 min successful | | | | | | | | | |

Summary Report

Crew: _____
Job Start Date: 09/19/2019 02:00 PM

Sales Order #: 0905967393
WO #: 0905967393
PO #: NA
AFE #:

Customer: MCCOY PETROLEUM CO

Field:

Job Type: CMT SURFACE
CASING BOM

UWI / API Number:

County/Parish: MEADE

Service Supervisor: Kurtis Pratt

Well Name: Whitaker-Schwab

State: KANSAS

Well No: 1H-8

Latitude:

Longitude:

Sect / Twn / Rng: //

Cust Rep Name: John Wadsworth

Cust Rep Phone #:

| Remarks: | | |
|---|---|-------------|
| <i>The Information Stated Herein Is Correct</i> | Customer Representative Signature | Date |
| | Customer Representative Printed Name | |

2.0 Real-Time Job Summary

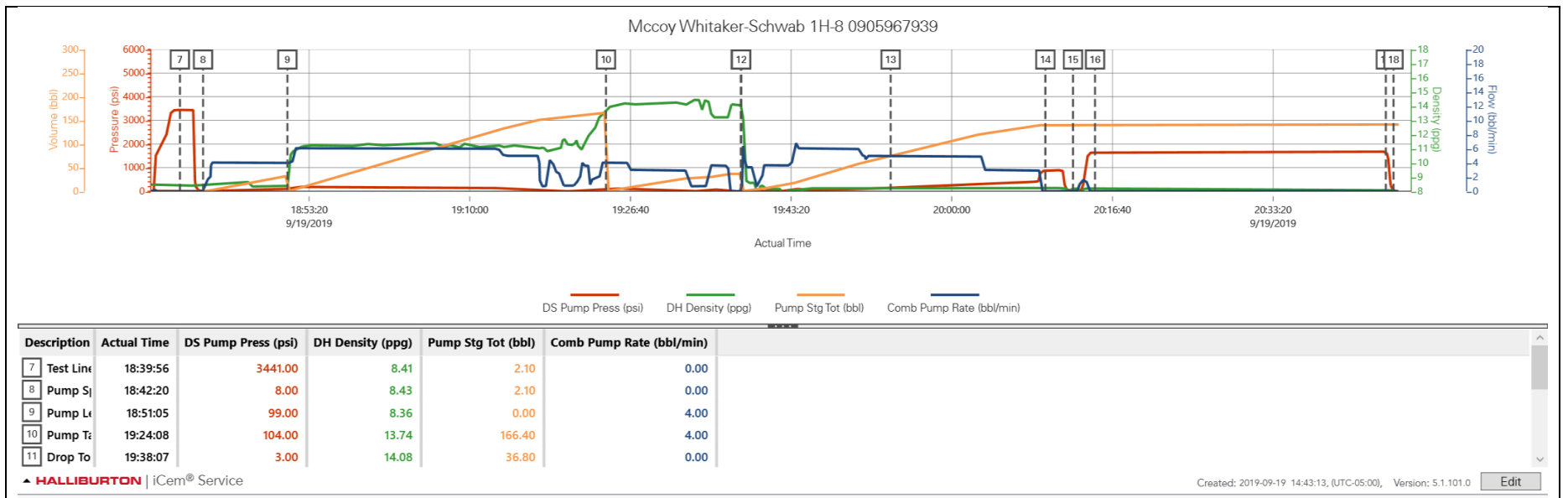
2.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | DS Pump Press (psi) | DH Density (ppg) | Pump Stg Tot (bbl) | Comb Pump Rate (bbl/min) | Comments |
|-------|----------|-----------------------------|-----------------------------|-----------|----------|---------------------|------------------|--------------------|--------------------------|--|
| Event | 1 | Call Out | Call Out | 9/19/2019 | 08:00:00 | | | | | Arrive at yard collect all equipment. Verify all material load paperwork, complete gate check, complete 401, hold pre-convoy safety meeting. |
| Event | 2 | Arrive At Loc | Arrive At Loc | 9/19/2019 | 14:00:00 | | | | | Rig crew running casing. Sign in with CM, collect numbers and discuss job procedures. Test water and verify all materials loaded location. |
| Event | 3 | Safety Meeting - Pre Rig-Up | Safety Meeting - Pre Rig-Up | 9/19/2019 | 16:30:00 | | | | | Discuss all job specific hazards including pinch points, suspended loads, weather, heat stress plan. |
| Event | 4 | Rig-up Lines | Rig-up Lines | 9/19/2019 | 17:00:00 | | | | | Rig up bulk, iron, and water lines |
| Event | 5 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 9/19/2019 | 18:30:00 | | | | | Discuss job procedures and hazards with rig crew, review order and location of blends and assign personnel to pour chemicals. |
| Event | 6 | Start Job | Start Job | 9/19/2019 | 18:34:49 | | | | | |
| Event | 7 | Test Lines | Test Lines | 9/19/2019 | 18:39:56 | | | | | |
| Event | 8 | Pump Spacer 1 | Pump Spacer 1 | 9/19/2019 | 18:42:20 | | | | | |
| Event | 9 | Pump Lead Cement | Pump Lead Cement | 9/19/2019 | 18:51:05 | | | | | |
| Event | 10 | Pump Tail Cement | Pump Tail Cement | 9/19/2019 | 19:24:08 | | | | | 160 Sacks @ 4 bpm @ 14.8 ppg @ 120 psi |
| Event | 11 | Drop Top Plug | Drop Top Plug | 9/19/2019 | 19:38:07 | | | | | |
| Event | 12 | Pump Displacement | Pump Displacement | 9/19/2019 | 19:38:10 | | | | | 136 bbls Fresh Water @ 5 bpm @ psi range of 50 to 230 psi |
| Event | 13 | Other | CMT to Surface | 9/19/2019 | 19:53:40 | | | | | 65 bbls gone CMT to surface. Total of 71 bbls CMT to surface |

| | | | | | | | | | | |
|-------|----|-----------------------------|-----------------------------|-----------|----------|---------|------|--------|------|---|
| Event | 14 | Bump Plug | Bump Plug | 9/19/2019 | 20:09:43 | | | | | Plug down on calculated. FCP 370 bumped @ 885 psi |
| Event | 15 | Other | Check flaots | 9/19/2019 | 20:12:35 | | | | | Floats held 1.5 bbls back to truck |
| Event | 16 | Other | 1500 PSI Casing Test | 9/19/2019 | 20:14:52 | 1658.00 | 8.18 | 141.20 | 0.00 | |
| Event | 17 | Other | Test Complete | 9/19/2019 | 20:45:02 | 1675.00 | 8.04 | 141.20 | 0.00 | |
| Event | 18 | End Job | End Job | 9/19/2019 | 20:45:50 | | | | | |
| Event | 19 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 9/19/2019 | 21:00:00 | | | | | Discuss all hazards such as suspended loads, pinch points, lifting hazards, weather, heat stress. |
| Event | 20 | Rig Down Lines | Rig Down Lines | 9/19/2019 | 21:30:00 | | | | | Rig down and load up all HES equipment |
| Event | 21 | Crew Leave Location | Crew Leave Location | 9/19/2019 | 23:00:00 | | | | | Job complete crew leave location |

3.0 Attachments

3.1 Mccoy Whitaker-Schwab 1H-8 0905967939-Custom Results.png



4.0 Custom Graphs

4.1 Custom Graph

