



CEMENT TREATMENT REPORT

| | | |
|------------------------------|--------------------------|-------------------------|
| Customer: Hartman Oil | Well: Finnup B 5 | Ticket: ICT 2461 |
| City, State: | County: Finney | Date: 9/25/2019 |
| Field Rep: | S-T-R: 17-22S-33W | Service: |

| Downhole Information | |
|----------------------|-------|
| Hole Size: | in |
| Hole Depth: | ft |
| Casing Size: | 5 1/2 |
| Casing Depth: | ft |
| Tubing / Liner: | 2 7/8 |
| Depth: | ft |
| Tool / Packer: | |
| Depth: | ft |
| Displacement: | bbbls |

| Slurry | |
|---------------|----------------------------|
| Weight: | 13.5 # / sx |
| Water / Sx: | 6 8/9 gal / sx |
| Yield: | 1 3/7 ft ³ / sx |
| Bbbls / Ft.: | |
| Depth: | ft |
| Volume: | bbbls |
| Excess: | % |
| Total Slurry: | 101.16 bbbls |
| Total Sacks: | 400 sx |

| Cement Blend | | |
|--------------|------|---------------|
| Product | % | # |
| Class A | 60.0 | 22560 |
| Gel | 4.0 | 1424 |
| CaCl | | |
| Metso | | |
| KolSeal | | |
| PhenoSeal | | |
| Salt | | |
| Pozmix | 40.0 | 11840 |
| Total | | 35,824 |

| TIME | RATE | PSI | BBLs | REMARKS | TIME | RATE | PSI | BBLs | REMARKS |
|-------|------|---------|------|--------------------------------|------|------|-----|------|---------|
| 1200P | | | | ON LOCATION | | | | | |
| 1210P | | | | SAFETY MEETING | | | | | |
| 1220P | | | | RIG UP | | | | | |
| 1235P | 3.0 | 300.0 | 5.0 | H2O AHEAD | | | | | |
| 1237P | 3.0 | 275.0 | 19.0 | CEMENT 75 SKS W/HULLS @ 4230 | | | | | |
| 1243P | 3.0 | 150.0 | 15.0 | DISPLACE H2O | | | | | |
| | | | | | | | | | |
| 145P | 3.0 | 200.0 | 5.0 | H2O AHEAD | | | | | |
| 147P | 3.0 | 200.0 | 10.0 | CEMENT 40 SKS @ 2300 | | | | | |
| 150P | 2.0 | 250.0 | 7.5 | DISPLACE H2O | | | | | |
| | | | | | | | | | |
| 323P | | 700.0 | | LOAD CASING TEST TO 600 PSI | | | | | |
| | | | | | | | | | |
| 353P | 1.0 | 1,000.0 | 2.0 | INJECTION RATE | | | | | |
| 355P | 2.0 | 800.0 | 8.0 | BROKE DOWN | | | | | |
| | | | | | | | | | |
| 400P | 2.0 | 800.0 | 5.0 | H2O AHEAD | | | | | |
| 405P | 2.0 | 800-450 | 20.0 | CEMENT 80 SKS @ 1075 | | | | | |
| 416P | 2.0 | 450-800 | 16.0 | DISPLACE H2O | | | | | |
| | | | | | | | | | |
| 445P | 3.0 | 400.0 | 31.6 | CIRCULATE CEMENT 125 SKS @ 400 | | | | | |
| 500P | | | | WASH UP | | | | | |
| 510P | | | | RIG DOWN | | | | | |
| 530P | | | | LEFT LOCATION | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| CREW | | UNIT | SUMMARY | | |
|----------------|-----------------|-------|--------------|------------------|--------------|
| Cementer: | JIMMIE COTTRELL | 84.0 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | JOSH MOSIER | 208.0 | 2.41667 bpm | 461.36 psi | 144.06 bbbls |
| Bulk #1: | KALE OCHS | 250.0 | | | |
| Bulk #2: | | | | | |