



Post Job Report

4/4/2022

Bison Oil & Gas III

518 17th Street Suit 1800

Denver , Colorado

Well Name and Information:

Zimith 1

SWNW Sec 14 T:9N R:58W

Weld , Colorado

API: 05-123-05659

Ticket # : 3612

Casing in Casing

Prepared For: Garry Chandler

Prepared by:

August Bagner

Supervisor

Phone: 307-436-7118

RockHardCementing.com

Post Job Log



| | | | |
|---------------|---------------------------|----------------|------------------------|
| Service Date: | 4/4/2022 | Well Name: | Zimith |
| Customer: | Bison Oil & Gas III | Well Number: | 1 |
| Address: | 518 17th Street Suit 1800 | County: | Weld |
| City: | Denver | State: | Colorado |
| State: | Colorado | API Number: | 05-123-05659 |
| Customer Rep: | Garry Chandler | Legals: | SWNW Sec 14 T:9N R:58W |
| Supervisor: | August Bagner | Ticket Number: | 3612 |
| Job Type: | Casing in Casing | | |

Casing Data

| Description: | Size (in) | Weight (lb/ft) | Grade | Max PSI | TVD (ft) | MD (ft) | Tools: | MD (ft) |
|----------------------------|-----------|----------------|-------|---------|----------|---------|--------|---------|
| Casing Data | 5 1/2 | 15.5 | J-55 | 1000 | | 339.35 | | |
| Tubing | | | | | | | | |
| Casing Data | 10 3/4 | 32.75 | J-55 | | 44 | | | |
| Perfs for the surface plug | | | | | | | | |
| Drill Pipe | | | | | | | | |

Fluid & Cement Data

| Description With/Without Additives | Sacks | Volume (bbls) | Density (lb/gal) | Yield (ft ³ /sk) | Water (gal/sk) | Returned to Surface (bbl) | Depth (ft) |
|------------------------------------|-------|---------------|------------------|-----------------------------|----------------|---------------------------|------------|
| Class G with 3% Cacl | 210 | 43 | 15.8 | 1.15 | 5 | 7 | 339.35 |
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Plug Data

| Type of Cement | Tools in Hole | Tool Depth in Hole | Height of Plug | Bottom of Plug | Top of Plug |
|----------------|---------------|--------------------|----------------|----------------|-------------|
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Squeeze Data

| Type of Cement | Tools in Hole | Tool Depth in Hole | Sacks in Formation | Sacks Below Tool | Sacks on top of tool |
|----------------|---------------|--------------------|--------------------|------------------|----------------------|
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CEMENT MIX WATER REQUIREMENTS

| Item | Test Value | Max Acceptable Limit | Potential Problems in Exceeding Limit |
|--------------------------|------------|----------------------|--|
| pH | 7.5 | 6 to 8 | Chemicals in water can cause severe retardation |
| Chlorides ^{1,2} | 1000 | 3000 mg/L | Can accelerate the set time on cement |
| Sulfates | 200 | 1500 mg/L | Will greatly decrease the strength of cement |
| Alkalinity | 50 | 1000 ppm | Qualitative Measure of Carbonate & Bicarbonate |
| Water Temp | 60 | 50F to 80F | High temps will accelerate; Low temps may risk freezing in cold weather |

NOTES:

1. High concentrations of Carbonates and Bicarbonates may also cause slurry gelation in some situations.
2. If the water's pH is greater than or equal to 8, avoid using it since Magnesium may be present (there are no field test strips for Magnesium).

[illegible]