

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10610
LOCATION WCR 49+32
FOREMAN Mike Rosalez

TREATMENT REPORT

| | | | | | | |
|---|--|--------------------------------|------------------|-------------------|-----------------------|-----------|
| DATE <u>10-29-11</u> | WELL NAME <u>Butterball 0-19 -220</u> | SECTION <u>19</u> | TWP <u>3N</u> | RGE <u>64W</u> | COUNTY <u>Weld</u> | FORMATION |
| CHARGE TO <u>Noble</u> | | OWNER | | | | |
| MAILING ADDRESS | | OPERATOR <u>Noble</u> | | | | |
| CITY | | CONTRACTOR <u>Saxon 144</u> | | | | |
| STATE ZIP CODE | | DISTANCE TO LOCATION | | | | |
| TIME ARRIVED ON LOCATION <u>1030</u> | | TIME LEFT LOCATION | | | | |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|---------------------------------|------------------|---------------|--|--|----------------------------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | THEORETICAL | | INSTRUCTED |
| TOTAL DEPTH <u>794</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| <u>PBTD 742.7</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>854</u> | <u>788.06</u> | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT <u>24</u> | PACKER DEPTH | | <input checked="" type="checkbox"/> SURFACE PIPE | | BREAKDOWN BPM |
| CASING CONDITION <u>Good</u> | | | <input type="checkbox"/> PRODUCTION CASING | | INITIAL BPM |
| | | | <input type="checkbox"/> SQUEEZE CEMENT | | FINAL BPM |
| | | | <input type="checkbox"/> ACID BREAKDOWN | | MINIMUM BPM |
| | | | <input type="checkbox"/> ACID STIMULATION | | MAXIMUM BPM |
| | | | <input type="checkbox"/> ACID SPOTTING | | AVERAGE BPM |
| | | | <input type="checkbox"/> MISC PUMP | | |
| | | | <input type="checkbox"/> OTHER | | HYD HHP = RATE X PRESSURE X 40.8 |

PRESSURE SUMMARY

| | | | | | |
|--------------------------|-----|------------|-----|--|--|
| BREAKDOWN or CIRCULATING | psi | AVERAGE | psi | | |
| FINAL DISPLACEMENT | psi | ISIP | psi | | |
| ANNULUS | psi | 5 MIN SIP | psi | | |
| MAXIMUM | psi | 15 MIN SIP | psi | | |
| MINIMUM | psi | | | | |

INSTRUCTIONS PRIOR TO JOB Rig up, Sattymecting, PSE TEST, Circulate 50 BBls Ahead/KCL mix 2" 10 Dye. mix Pump 336 sks Cement (30% excess) yield 1.27 at 15-21 BS or until Compensator stops vs. Release Plug + Displace 47.3 BBls H₂O Bump Plug 150 over 1 ft. wait 5 min Release PSE, Wash up, Rig Down
H₂O TEST

Arrived with 575 sks Cemen 10 gal KCL, 106 oz Dye Slurry 75
JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymecting 11:50 Circulate 12:22 Am Cement 12:36 Am
DROP Plug 1:02 Am Displace 1:02 Am

| | | | | |
|-------------------------|---------|---------|-----------------|------------|
| 10 BBls at 5-5 BBls/m | 1:05 Am | 340 PSI | USED 15 | 90 EXCESS |
| 90 BBls at 5-5 BBls/m | 1:07 Am | 380 PSI | USED 300 | SKS Cement |
| 30 BBls at 5-5 BBls/m | 1:09 Am | 460 PSI | 67 | Slurry |
| 40 BBls at 3-5 BBls/m | 1:11 Am | 410 PSI | | |
| 47.3 BBls at 1-5 BBls/m | 1:15 Am | 400 PSI | | |
| Bump Plug 1-0 BBls/m | 1:15 Am | 630 PSI | | |
| Q Flow collar held | | | BBls BACK TO AT | |

Left with 275 sks Cemen 5 gal KCL & Dye

Mary Stapleton
AUTHORIZATION TO PROCEED

TITLE

10-29-11
DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.