

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10190
LOCATION WCR 72+45
FOREMAN CALVIN REIMERS

TREATMENT REPORT

| | | | | | | |
|--|---------------------------------------|--------------------------------------|------------------|-------------------|-----------------------|-----------|
| DATE <u>7-28-11</u> | WELL NAME <u>BROWN PC E 02-31D</u> | SECTION <u>3</u> | TWP <u>6N</u> | RGE <u>65W</u> | COUNTY <u>Weld</u> | FORMATION |
| CHARGE TO <u>Noble</u> | | OWNER | | | | |
| MAILING ADDRESS | | OPERATOR <u>Noble</u> | | | | |
| CITY | | CONTRACTOR <u>Saxon Rig 143</u> | | | | |
| STATE ZIP CODE | | DISTANCE TO LOCATION | | | | |
| TIME ARRIVED ON LOCATION <u>6:20 AM</u> | | TIME LEFT LOCATION <u>9:30 AM</u> | | | | |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|---------------------------------|------------------|---------------|--|--|----------------------------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | THEORETICAL | | INSTRUCTED |
| TOTAL DEPTH <u>706</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| <u>PBTD 652.31</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>702.71</u> | | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT <u>24 lb</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, Safety meeting, Per Company Man, Circ 40 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump tell dye is seen then pump take only at 15.2 lbs. 1.27 yield, Don't go over 30% Excess with out Talking to Company Man, Drop plug, Displace 41.9 bbls H₂O, Dump plug at 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down, H₂O Tested good, We have 650 sks, 32oz. Dye, 10 qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety Meeting 7:47am, Circ 8:07am, Cement 8:17am, to 8:32am
Drop Plug 8:35am, Displace 8:37am
10 bbls 360 Psi 8:40am 7.0 bbls/m
20 bbls 460 Psi 8:42am 7.0 bbls/m
30 bbls 580 Psi 8:43am 7.0 bbls/m
40 bbls 320 Psi 8:45am 1.0 bbls/m
41.9 bbls 330 Psi 8:46am 1.0 bbls/m
Bump Plug 540 Psi at 8:46am Float Collar Held
USED 0% Excess = 230 sks, 52.02 bbls Slurry
Avg Cement 3.46 bbls/m
Left with 420 sks 16 oz Dye, 6 qts KCL
11 bbls Slurry To The Pit

[Signature] AUTHORIZATION TO PROCEED 7-28-11 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.