

BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202
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REF INVOICE # 9579

LOCATION WCR 68+63

FOREMAN CALVIN REIMERS

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|---------------------|---------|-----|-----|--------|-----------|
| 1-22-11 | Reppler PC AA 17-25 | 17 | 6N | 63W | Weld | |

| | |
|---|-----------------------------------|
| CHARGE TO <u>Noble</u> | OWNER |
| MAILING ADDRESS | OPERATOR <u>Noble</u> |
| CITY | CONTRACTOR <u>Cade Rig 22</u> |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>4:30 AM</u> | TIME LEFT LOCATION <u>8:15 AM</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|--|----------------------------------|------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>585</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNUBUS LONG | | |
| <u>PBTD 535.43</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>578.61</u> | | TREATMENT VIA | 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 |
| ANNUBUS | 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 30 bbls H₂O with KCL + Dye x 10 in 2 1/2" 10 bbls
Min + pump tell Dye is seen then pump tub only at 15.2 lbs 1.27 yield. Drop plug, Displace 341 bbls
H₂O, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down,
H₂O Tested good, WE HAVE 600 SKS, 32 oz. Dye, 10 Qts KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 7:12 am, CIRC 7:45 am, CEMENT 7:52 am to 8:12 am

Drop plug 8:14 am, Displace 8:15 am
10 bbls 320 Psi 8:18 am 7.0 bbls/m
20 bbls 420 Psi 8:20 am 7.0 bbls/m
30 bbls 350 Psi 8:23 am 4.5 bbls/m
341 bbls 280 Psi 8:25 am 1.0 bbls/m
Bump Plug 500 Psi at 8:25 am Float Collar Held
USED 73% Excess = 329 SKS, 74.41 bbls Slurry
Avg Cement 3.72 bbls/m
Left with 271 SKS, 22 oz Dye, 7 Qts KCL

13 bbls Slurry to the P.T

| DRILLING | |
|---|------|
| NO. NO. | |
| WELL NAME & NO. | |
| PROJECT NO. | |
| TASK (DRILL, CORP, GRP, PMA) | |
| ACTD. CODE | |
| DOLLAR TOTAL ESTIMATED | |
| 1ST LEVEL APPROVAL | DATE |
| 2ND LEVEL APPROVAL | DATE |
| MAIL TO: NOBLE ENERGY INC. 1625 BROADWAY SUITE 2200 DENVER, CO 80202 NO INVOICE WILL BE PAID W/O ALL ATTACHED SIGNED FIELD TICKETS | |

Jim I. W...
AUTHORIZATION TO PROCEED

WSS
TITLE

1-22-11
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