

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9240
LOCATION WCR 51+20
FOREMAN Daniel Saltzman

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|------------------|---------|-----|-----|--------|-----------|
| 7-14-10 | HP Farms Y-17-06 | 17 | 2N | 64W | Weld | |

| | |
|--|----------------------------------|
| CHARGE TO <u>Noble</u> | OWNER |
| MAILING ADDRESS | OPERATOR <u>Noble</u> |
| CITY | CONTRACTOR <u>ENsign 136</u> |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>1:34am</u> | TIME LEFT LOCATION <u>5:35am</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|--|----------------------------------|------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>8300</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| PBTP <u>775.64</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>818.35</u> | | TREATMENT VIA | TYPE OF TREATMENT | | |
| CASING WEIGHT <u>24#</u> | PACKER DEPTH | | TREATMENT RATE | | |
| CASING CONDITION <u>good</u> | | | <input checked="" type="checkbox"/> SURFACE PIPE | BREAKDOWN BPM | |
| | | | <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, Psitest to 500psi, Circ 40 bbls of H₂O
Kcl 2nd 10w 10oz Dye, mix + pump 30% Excess 364 sks of cement @ 15.2' @ 1.27
yield or until stopped by Co man, Drop Plug Displace 49.4 bbls of H₂O Dump
Plug @ 150psi over 1-ft psi, wait 5 min Release psi washup Rig Down H₂O test ok
Arrived w 550 sks of cement 19l Kcl 32oz Dye 82.3 bbls of slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:19am Circ 3:35am Cement 3:51am
Drop Plug 4:35am Displace 4:55am

| | | | | |
|-------------------------|-------|--------|--------|--|
| 10 bbls | 5.0/m | 130psi | 4:38am | Used 280 sks of cement 3% Excess 63.3 bbls of slurry |
| 20 bbls | 5.0/m | 250psi | 4:40am | |
| 30 bbls | 5.0/m | 370psi | 4:43am | |
| 40 bbls | 5.0/m | 430psi | 4:45am | |
| 49.4 bbls | 1.0/m | 310psi | 4:50am | |
| Bump plug 630psi 4:50am | | | | |

1-ft w 270 sks of cement 39l Kcl 22oz Dye

8 bbls to pit

Mike Noble

7-14-10

AUTHORIZATION TO PROCEED

TITLE

DATE