

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10125
LOCATION Wells Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|------------------------|---------|-----|-----|--------|-----------|
| 5-18-11 | Wells Ranch PCAA 22-03 | 22 | 6N | 63W | Weld | |

| | |
|--|----------------------------------|
| CHARGE TO <u>Noble</u> | OWNER |
| MAILING ADDRESS | OPERATOR <u>Noble</u> |
| CITY | CONTRACTOR <u>Cade ZI</u> |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>7:30pm</u> | TIME LEFT LOCATION <u>1:15Am</u> |

| WELL DATA | | PRESSURE LIMITATIONS | |
|--------------------------|------------------|----------------------|-------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | THEORETICAL |
| TOTAL DEPTH <u>667</u> | TUBING DEPTH | SHOTS/FT | INSTRUCTED |
| <u>PBTD 614.36</u> | TUBING WEIGHT | OPEN HOLE | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | STRING | |
| CASING DEPTH <u>659</u> | | TUBING | |

| | | | | |
|------------------------------|--------------|---------------|--|----------------------------------|
| CASING WEIGHT <u>241lbs</u> | PACKER DEPTH | TREATMENT VIA | TYPE OF TREATMENT | TREATMENT RATE |
| CASING CONDITION <u>Good</u> | | | <input 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 per Co. man, Press test 500psi, Circulate 40bbls H₂O/KEL with dye x's 10oz in 2nd 10bbls, Mix and pump cement 15.2 lbs density @ 1.27 yield. until dye is seen, pump tub only, Drop plug, displace 39.1 bbls, bump plug @ 150psi over lift press. Release press. Wait 5min, Release press, Wash up, Rig down, H₂O tested good. Arrived on location with - 700 sks, 32oz dye, 20gts KEL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting @ 11:30pm, Circulate @ 11:50pm, Cement @ 11:56pm to 12:09am

Drop plug @ 12:12am, Displace @ 12:15am,
10 bbls - 300 psi @ 12:16am @ 7.0 bbls/min
20 bbls - 375 psi @ 12:17am @ 7.0 bbls/min
30 bbls - 475 psi @ 12:18am @ 7.0 bbls/min
39.1 bbls - 260 psi @ 12:19am @ 1.0 bbls/min
Bump plug @ 12:23am @ 400 lbs Float collar held.

Left location with, 446 sks, 22oz dye, 16gts KEL

5 bbls slurry top it

Roger Foster
AUTHORIZATION TO PROCEED

WSS
Roger Foster
TITLE

5-18-11
DATE