

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8907
LOCATION WCR 52+17 1/2
FOREMAN Calvin Reimers

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|--------|------------------|---------|-----|-----|--------|-----------|
| 4-9-10 | Ehrlich N 34-24D | 34 | 5N | 67W | Weld | |

| | |
|--|-----------------------------------|
| CHARGE TO <u>Noble</u> | OWNER |
| MAILING ADDRESS | OPERATOR <u>Noble</u> |
| CITY | CONTRACTOR <u>Ensign Rig 126</u> |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>11:20 pm</u> | TIME LEFT LOCATION <u>2:15 am</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|---------------------------|-------------|------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>613.1</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| <u>PBTD 563.75</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>606.85</u> | | TREATMENT VIA | | | |
| CASING WEIGHT <u>32 lb.</u> | PACKER DEPTH | | | | |
| CASING CONDITION <u>Good</u> | | | | | |

| PRESSURE SUMMARY | | | TYPE OF TREATMENT | | TREATMENT RATE | |
|--------------------------|-----|------------|-------------------|--|----------------------------------|--|
| BREAKDOWN or CIRCULATING | psi | AVERAGE | psi | <input checked="" type="checkbox"/> SURFACE PIPE | BREAKDOWN BPM | |
| FINAL DISPLACEMENT | psi | ISIP | psi | <input type="checkbox"/> PRODUCTION CASING | INITIAL BPM | |
| ANNULUS | psi | 5 MIN SIP | psi | <input type="checkbox"/> SQUEEZE CEMENT | FINAL BPM | |
| MAXIMUM | psi | 15 MIN SIP | psi | <input type="checkbox"/> ACID BREAKDOWN | MINIMUM BPM | |
| MINIMUM | psi | | | <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 | |

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Cick 35 bbls H₂O w/ TL KCL + Dye x 10 in 2nd 10 bbls, Mix + pump a Max 30% Excess = 260 Sacks cement, 58.8 bbls Slurry at 15.2 lbs/1.27 yield or tell Dye is seen then pump tub only, Drop plug, Displace 343 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Washup, Rig down, H₂O tested good, WE HAVE 500 SACKS CEMENT, 260Z DYE, 11 QTS KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:13 am, Cick 12:56 am, CEMENT 1:04 am
Drop plug 1:29 am, Displace 1:25 am

10 bbls 300 Psi 1:28 am 7.0 bbls/hr
20 bbls 370 Psi 1:30 am 7.0 bbls/hr
30 bbls 340 Psi 1:33 am 4.5 bbls/hr
343 bbls 240 Psi 1:36 am

Bump plug 370 Psi at 1:36 am Psi Held for 5 min
USED 20% Excess = 240 Sacks, 54.28 bbls Slurry
Left with 260 Sacks cement, 16 oz Dye, 7 QTS KCL
10 bbls Slurry To The Pit

[Signature]
AUTHORIZATION TO PROCEED

Comm
TITLE

4-9-10
DATE

DATE