

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9803
LOCATION Wells Ranch
FOREMAN Daniel Saltzman

TREATMENT REPORT

| | | | | | | |
|--------------------------------------------|------------------------------------------|--------------------------------------|------------------|-------------------|-----------------------|-----------|
| DATE <u>4-26-11</u> | WELL NAME <u>Wells Ranch AE 05-12</u> | SECTION <u>5</u> | TWP <u>6N</u> | RGE <u>62W</u> | COUNTY <u>Weld</u> | FORMATION |
| CHARGE TO <u>Noble</u> | | OWNER | | | | |
| MAILING ADDRESS | | OPERATOR <u>Noble</u> | | | | |
| CITY | | CONTRACTOR <u>Cade 21</u> | | | | |
| STATE ZIP CODE | | DISTANCE TO LOCATION | | | | |
| TIME ARRIVED ON LOCATION <u>3:16 AM</u> | | TIME LEFT LOCATION <u>7:55 AM</u> | | | | |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|---------------------------------|------------------|---------------|---------------------------|--|----------------------------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | THEORETICAL | | INSTRUCTED |
| TOTAL DEPTH <u>707.2</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| PBTP <u>656.22</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 3/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>700.0</u> | | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT <u>29#</u> | PACKER DEPTH | | [] SURFACE PIPE | | BREAKDOWN BPM |
| CASING CONDITION <u>Good</u> | | | [] PRODUCTION CASING | | INITIAL BPM |
| | | | [] SQUEEZE CEMENT | | FINAL BPM |
| | | | [] ACID BREAKDOWN | | MINIMUM BPM |
| | | | [] ACID STIMULATION | | MAXIMUM BPM |
| | | | [] ACID SPOTTING | | AVERAGE BPM |
| | | | [] MISC PUMP | | |
| | | | [] 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, psi test, circ 50 bbls of H₂O w/ 11 oz KCL 2nd 10w 10oz Dye, mix + place 299 sks of cement @ 30% excess @ 152' @ 1.27 yd/hr until stopped by co. man. Drop Plug Displace 41.8 bbls of H₂O Pump Plug @ 150psi over 1.1 hrs wait 5 min Release psi wash up Rig Down

Arrived w 700 sks of cement 591 lb at KCL 320z Dye 67.6 bbls of Slurry /

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: Safety meeting 6:27 AM Circ 6:37 AM Cement 6:46 AM
Drop Plug 7:03 AM Displace 7:03 AM

| | | | | |
|-----------|--------|---------|---------|-----------------------|
| 10 bbls | 6.0 /m | 190 psi | 7:06 AM | 11% Excess |
| 20 bbls | 6.0 /m | 320 psi | 7:08 AM | 257 sks of cement |
| 30 bbls | 6.0 /m | 400 psi | 7:10 AM | 58.1 bbls of Slurry / |
| 40 bbls | 1.0 /m | 280 psi | 7:12 AM | |
| 41.8 bbls | 1.0 /m | 280 psi | 7:14 AM | |
| Pump Plug | | 590 psi | 7:14 AM | |

1 off w 443 sks of cement 991 lb at KCL 16 oz Dye
7 bbls of Slurry Back

4-26-11

AUTHORIZATION TO PROCEED

TITLE

DATE