

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10207

LOCATION WCR 45+46

FOREMAN CALVIN REIMERS

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|----------------------|---------|-----|-----|--------|-----------|
| 8-28-11 | ERICKSON PC G 15-27D | 10 | 4N | 65W | 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>7:15pm</u> | TIME LEFT LOCATION <u>11:45pm</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|--|----------------------------------|------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>712</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| <u>PBTD 662.78</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>706.14</u> | | TREATMENT VIA | TYPE OF TREATMENT | TREATMENT RATE | |
| CASING WEIGHT <u>2416</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 |
| ANNULUS | 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 40 bbls H₂O with KCL + Dye 16 in 2nd 10 bbls, Mix + pump till Dye is seen then mix 3 bbls Slurry + Tub, Don't go over 80% Excess without Talking to Company Man, Drop plug, Displace 42.2 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 700 SKs, 32 oz Dye, 15 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 9:25pm, Circ 10:07pm, Cement 10:15pm to 10:45pm

Drop Plug 10:48pm, Displace 10:50pm
10 bbls 270 Psi 10:53pm 6.0 bbls/m
20 bbls 310 Psi 10:55pm 6.0 bbls/m
30 bbls 340 Psi 10:58pm 6.0 bbls/m
40 bbls 340 Psi 11:00pm 4.5 bbls/m
42.2 bbls 250 Psi 11:02pm 1.0 bbls/m

Bump Plug 490 Psi at 11:02pm Float Collar Held
USED 90% Excess = 440 SKs, 99.52 bbls Slurry
Aug Cement 3.31 bbls/m
Left with 260 SKs, 16 oz Dye, 11 Qts KCL
19 bbls Slurry to The Pit

AUTHORIZATION TO PROCEED

Co-MAN
TITLE

8-28-11
DATE