

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10564

LOCATION WCR 44+57

FOREMAN CALVIN REIMERS

## TREATMENT REPORT

| DATE     | WELL NAME      | SECTION | TWP | RGE | COUNTY | FORMATION |
|----------|----------------|---------|-----|-----|--------|-----------|
| 11-11-11 | SATER C 23-28D | 23      | 4N  | 64W | Weld   |           |

|  |                                   |
|--|-----------------------------------|
| CHARGE TO <u>Noble</u>                 | OWNER                             |
| MAILING ADDRESS                        | OPERATOR <u>Noble</u>             |
| CITY                                   | CONTRACTOR <u>Saxon Rig 144</u>   |
| STATE ZIP CODE                         | DISTANCE TO LOCATION              |
| TIME ARRIVED ON LOCATION <u>9:30am</u> | TIME LEFT LOCATION <u>1:30am.</u> |

| WELL DATA                |                  |              | PRESSURE LIMITATIONS      |             |            |
|--------------------------|------------------|--------------|---------------------------|-------------|------------|
| HOLE SIZE <u>12 1/4</u>  | TUBING SIZE      | PERFORATIONS |                           | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>610</u>   | TUBING DEPTH     | SHOTS/FT     | SURFACE PIPE ANNULUS LONG |             |            |
| <u>PBDD 560.02</u>       | TUBING WEIGHT    | OPEN HOLE    | STRING                    |             |            |
| CASING SIZE <u>8 5/8</u> | TUBING CONDITION |              | TUBING                    |             |            |

|                              |               |  |                |
|------------------------------|---------------|--|----------------|
| CASING DEPTH <u>603.5</u>    | TREATMENT VIA | TYPE OF TREATMENT                                | TREATMENT RATE |
| CASING WEIGHT <u>24 lb.</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      |

| PRESSURE SUMMARY         |     |            |     |   |
|--------------------------|-----|------------|-----|---|
| BREAKDOWN or CIRCULATING | psi | AVERAGE    | psi | <input type="checkbox"/> ACID BREAKDOWN   |
| FINAL DISPLACEMENT       | psi | ISIP       | psi | <input type="checkbox"/> ACID STIMULATION |
| ANNULUS                  | psi | 5 MIN SIP  | psi | <input type="checkbox"/> ACID SPOTTING    |
| MAXIMUM                  | psi | 15 MIN SIP | psi | <input type="checkbox"/> MISC PUMP        |
| MINIMUM                  | psi |            |     | <input type="checkbox"/> OTHER            |
|                          |     |            |     | HYD HHP = RATE X PRESSURE X 40.8          |

INSTRUCTIONS PRIOR TO JOB Rig up, Safety Meeting, Per Company MAN, CIRC 30 bbls. H<sub>2</sub>O WITH KCL + DYE @ 16 IN 2<sup>nd</sup> 10 bbls, Mix + pump tell Dye is seen then pump tub only at 152 lb. 1.27 yield, Don't go over 30% excess without talking to Company MAN, Drop plug, Displace 35.6 bbls. H<sub>2</sub>O, Bump plug at 150 Psi over Lift Psi, Wait 5 min. Then bleed off Psi, Washup, Rig down, H<sub>2</sub>O Tested good, We have 600 SKS, 32 oz Dye, 16 Qts KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 11:26pm, CIRC 11:56pm, CEMENT 12:01am to 12:23am  
Drop Plug 12:24am, Displace 12:25am  
10 bbls. 330 Psi 12:27am 7.0 bbls/m  
20 bbls. 480 Psi 12:39am 7.0 bbls/m  
30 bbls 500 Psi 12:41am 6.0 bbls/m  
35.6 bbls 320 Psi 12:43am 1.0 bbls/m  
Bump Plug 620 Psi at 12:43am Float Collar Held  
USED 30% Excess = 258 SKS, 58.35 bbls Slurry  
Avg CEMENT 2.65 bbls/m  
Left with 342 SKS, 16 oz Dye, 13 Qts KCL

15 bbls Slurry to the Pit

[Signature] 11-11-11

AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.