

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11070
LOCATION 68469
FOREMAN Tucker Lumbard
Paulson

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|-----------------------------|----------|-----------|------------|-------------|-----------|
| 8/31/12 | <u>Wellsbark AF 66-6744</u> | <u>6</u> | <u>6N</u> | <u>62W</u> | <u>Weld</u> | |

| | |
|---|--------------------------------|
| CHARGE TO | OWNER |
| MAILING ADDRESS | OPERATOR |
| CITY | CONTRACTOR |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>5:00 PM</u> | TIME LEFT LOCATION <u>1:30</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|--|-------------|----------------------------------|
| HOLE SIZE <u>13 3/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>6603</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| PBTD <u>612</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>9 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>658</u> | | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT <u>36 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 |
| | | | <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 P&T test per Co-mo Cir 50 bbls, 1000 gal and 10 w/dge
Mix pump 357 sls cement at 31% excess w/yeld 1.77 at 15.2 lbs until cement stops
Release plug disp 47.3 bbls thru Bump Plug 150 psi over 1 ft psi wait 5 min release psi wash
up rig down 110 test ok
Arrived w/ 650 sls and 4 gal 1000 lb ridge 80.7 bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 8:50 PM Cir 9:23 Cement 9:34
stop cement 9:50 Drop Plug 9:57 disp 9:57

| | | | |
|--------------|---------|---------|----------------------------|
| 10 bbls at | 9:58 PM | 230 psi | used 30 % excess |
| 20 bbls at | 10:00 | 250 | used <u>357 sls cement</u> |
| 30 bbls at | 10:02 | 290 | 80.7 bbls slurry |
| 40 bbls at | 10:03 | 280 | |
| 47.3 bbls at | 10:09 | 400 | |
| Bump plug at | 10:09 | 400 psi | |

Left w/ Blk's back 6

Nancy Stepten
AUTHORIZATION TO PROCEED

TITLE

8/31/12

DATE