

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11087
LOCATION Cutter Ranch
FOREMAN Mike Zoske

TREATMENT REPORT

| | | | | | | |
|---|---|-----------------------------------|------------------|-------------------|-----------------------|-----------|
| DATE 6-19-12 | WELL NAME Cutter State O 28-240 | SECTION 28 | TWP JN | RGE 64W | COUNTY Weld | FORMATION |
| CHARGE TO Noble | | OWNER | | | | |
| MAILING ADDRESS | | OPERATOR Noble | | | | |
| CITY | | CONTRACTOR Saxon 143 | | | | |
| STATE ZIP CODE | | DISTANCE TO LOCATION | | | | |
| TIME ARRIVED ON LOCATION 5:15 AM | | TIME LEFT LOCATION 9:00 AM | | | | |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|--|--|-----------------------------------|
| HOLE SIZE 12 1/4 | TUBING SIZE | PERFORATIONS | THEORETICAL | | INSTRUCTED |
| TOTAL DEPTH 880 | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| DBTD 830.17 | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE 8 5/8 | TUBING CONDITION | | TUBING | | |
| CASING DEPTH 875.67 | | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT 24 (lb) | PACKER DEPTH | | <input checked="" type="checkbox"/> SURFACE PIPE | | BREAKDOWN BPM |
| CASING CONDITION | | | <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 | | IND IRIP = RATE X PRESSURE X 40.8 |

INSTRUCTIONS PRIOR TO JOB **Rig up, Sattymechy, PLE Test 500 PSI, Circ 50 BBLs Ann/KCL 2nd 10 Dye, mix + Pump 372 SKs Cement (30% EXCESS) 127 gals at 15-210s, or until bump stopped us. Release Plug Displace 52.8 BBLs H₂O, Bump Plug 130 PSI WMT couple min. Release PSE. Wash up Rig Down. Slurry**
ARRIVED WITH 100 SKs Cement 15 gals KCL, 16 oz Dye. PROTEST

JOB SUMMARY
DESCRIPTION OF JOB EVENTS **Sattymechy 6:05 AM Circ 6:40 AM Cement START 6:57 AM Cement STOP 7:18 AM DROP Plug 7:25 AM Displace 7:25 AM**

10 BBL at 5.7 BBL/hr 7:28 AM 280 PSI Used 20 % EXCESS
20 BBL at 5.7 BBL/hr 7:30 AM 360 PSI Used 343 SKs Cement
30 BBL at 5.5 BBL/hr 7:32 AM 450 PSI Slurry 7.5
40 BBL at 5.5 BBL/hr 7:34 AM 540 PSI Flow Biller
50 BBL at 1.3 BBL/hr 7:37 AM 370 PSI Hold
52 BBL at 1.3 BBL/hr 7:40 AM 380 PSI
Bump Plug 1.3 BBL/hr 7:40 AM 600 PSI BB PT 12
ARRIVE Lett with 257 SKs Cement 15 gals KCL & Dye

6-19-12
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