

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9030
LOCATION GUTTERSEN RANCH
FOREMAN CALVIN REIMERS

TREATMENT REPORT

| DATE | WELL NAME | SECTION | TWP | RGE | COUNTY | FORMATION |
|---------|-------------------------|---------|-----|-----|--------|-----------|
| 6-17-10 | GUTTERSEN STATE D 16-33 | 16 | 3N | 64W | Weld | |

| | |
|---|-----------------------------------|
| CHARGE TO <u>Noble</u> | OWNER |
| MAILING ADDRESS | OPERATOR <u>Noble</u> |
| CITY | CONTRACTOR <u>ENSIGN RIG 128</u> |
| STATE ZIP CODE | DISTANCE TO LOCATION |
| TIME ARRIVED ON LOCATION <u>4:05 AM</u> | TIME LEFT LOCATION <u>8:30 AM</u> |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|------------------------------|------------------|---------------|----------------------|-------------|------------|
| HOLE SIZE <u>12 1/4</u> | TUBING SIZE | PERFORATIONS | | THEORETICAL | INSTRUCTED |
| TOTAL DEPTH <u>658.1</u> | TUBING DEPTH | SHOTS/FT | | | |
| <u>PBTD 613.52</u> | TUBING WEIGHT | OPEN HOLE | | | |
| CASING SIZE <u>8 7/8</u> | TUBING CONDITION | | | | |
| CASING DEPTH <u>652.95</u> | | TREATMENT VIA | | | |
| CASING WEIGHT <u>2416</u> | PACKER DEPTH | | | | |
| CASING CONDITION <u>Good</u> | | | | | |

| PRESSURE SUMMARY | | | TYPE OF TREATMENT | | TREATMENT RATE | |
|------------------------------|----------------|--|--|---------------|----------------|----------------------------------|
| BREAKDOWN or CIRCULATING PSI | AVERAGE PSI | | <input checked="" type="checkbox"/> SURFACE PIPE | BREAKDOWN BPM | | |
| FINAL DISPLACEMENT PSI | ISIP PSI | | <input type="checkbox"/> PRODUCTION CASING | INITIAL BPM | | |
| ANNULUS PSI | 5 MIN SIP PSI | | <input type="checkbox"/> SOOZE CEMENT | FINAL BPM | | |
| MAXIMUM PSI | 15 MIN SIP PSI | | <input type="checkbox"/> ACID BREAKDOWN | MINIMUM BPM | | |
| MINIMUM PSI | | | <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 S |

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company man, Circ 40 bbls H₂O with KCL + Dye in 2nd 10 bbls, Mix + pump Tell Dye is seen then pump tub + 10 bbls Slurry at 152 lbs 1.27 yield, Drop plug, Displace 39 bbls H₂O, Bump plug at no more than 150 Psi, over Lift Psi, Wait 5 min. Then bleed off Psi, Wash up, Rig down, H₂O Tested good, We have 700 sacks cement, 32 oz Dye, 17 Qts. KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 6:21 am, Circ 6:41 am, Cement 6:48 am
Drop plug 7:15 am, Displace 7:17 am

10 bbls 260 Psi 7:21 am 7.0 bbls/m
20 bbls 380 Psi 7:23 am 7.0 bbls/m
30 bbls 400 Psi 7:24 am 6.0 bbls/m
39 bbls 270 Psi 7:29 am .8 bbls/m

Bump Plug 360 Psi, Psi Held for 5 min
USED 30% EXCESS 279 SACKS CEMENT, 63.1 bbls Slurry
Left with 421 SACKS CEMENT, 14 Qts KCL, 22 OZ DYE
10 bbls Slurry To The Pit

AUTHORIZATION TO PROCEED

TITLE

6-17-10

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