

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11089
LOCATION Wells Ranch
FOREMAN Mike Rosake

TREATMENT REPORT

| | | | | | | |
|---------------------------------------------|-------------------------------------------|--------------------------------------|------------------|-------------------|-----------------------|-----------|
| DATE <u>6-12-12</u> | WELL NAME <u>Wells Ranch AA-74-65H</u> | SECTION <u>14</u> | TWP <u>6N</u> | RGE <u>63W</u> | COUNTY <u>Weld</u> | FORMATION |
| CHARGE TO <u>Noble</u> | | OWNER | | | | |
| MAILING ADDRESS | | OPERATOR <u>Noble</u> | | | | |
| CITY | | CONTRACTOR <u>LHP 315</u> | | | | |
| STATE ZIP CODE | | DISTANCE TO LOCATION | | | | |
| TIME ARRIVED ON LOCATION <u>12:30 AM</u> | | TIME LEFT LOCATION <u>7:00 PM</u> | | | | |

| WELL DATA | | | PRESSURE LIMITATIONS | | |
|---------------------------------|------------------|---------------|---------------------------|--|----------------------------------|
| HOLE SIZE <u>13 3/4</u> | TUBING SIZE | PERFORATIONS | THEORETICAL | | INSTRUCTED |
| TOTAL DEPTH <u>719</u> | TUBING DEPTH | SHOTS/FT | SURFACE PIPE ANNULUS LONG | | |
| <u>PBTD 661.79</u> | TUBING WEIGHT | OPEN HOLE | STRING | | |
| CASING SIZE <u>9 5/8</u> | TUBING CONDITION | | TUBING | | |
| CASING DEPTH <u>709</u> | | TREATMENT VIA | TYPE OF TREATMENT | | TREATMENT RATE |
| CASING WEIGHT <u>361 BS</u> | PACKER DEPTH | | SURFACE PIPE | | BREAKDOWN BPM |
| CASING CONDITION <u>GOOD</u> | | | PRODUCTION CASING | | INITIAL BPM |
| | | | SQUEEZE CEMENT | | FINAL BPM |
| | | | ACID BREAKDOWN | | MINIMUM BPM |
| | | | ACID STIMULATION | | MAXIMUM BPM |
| | | | ACID SPOTTING | | AVERAGE BPM |
| | | | MISC PUMP | | |
| | | | 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. Satisfactory PSE TEST SOOPSE 50 BBLs at Spacer 1570 SOAP
2nd 10 SOAP, KLL, Dye mix + Pump 387 SKS Cement (30% Excess) 1.27 yard of 15-2.1BS
or until Compensman stoppers. Release Plug Displace 513 BBLs H2O Pump Plug 150 PSI
over 1st wait 5 min Release PSE Wash up Rig Down H2O TEST
Arrived well SKS Cement 1001BS Sapp 5gal Soap 16 QTS KLL 16 QTS Skrn

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Satisfactory Press Test to 1,000 for 15 min 4:29
Cement STOP 5:10 AM DROP Plug 5:16 AM Spacing 4:26 AM Cement START
Press Test 5:35 AM 5:53 AM
10 BBLs at 5-2 BBLs/h 5:22 am 300 PSE used 31 9W Excess
20 BBLs at 5-2 BBLs/h 5:24 AM 340 PSE used 393 SKS Cement
30 BBLs at 5-2 BBLs/h 5:26 AM 410 PSE Skrn 88.9
40 BBLs at 5-2 BBLs/h 5:28 AM 480 PSE Flow Collar held
150 BBLs at 1-3 BBLs/h 5:32 AM 320 PSE
513 BBLs 1-3 BBLs/h 5:33 AM 320 PSE
Bore 1-3 BBLs/h 5:34 AM 520 PSE BBLs back to AT
Pressure Test 5:35 AM 5:52 AM 1000 PSE 1080 IL
Left well SKS Cement 2510BS Sapp 4 1/2 gal Soap KLL KLL & Dye

[Signature]
AUTHORIZATION TO PROCEED

W.S.S.
TITLE

6-14-12
DATE