

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11082
LOCATION Wells Ranch
FOREMAN Mike Rosen

TREATMENT REPORT

DATE <u>6-14-12</u>	WELL NAME <u>Wells Ranch AEOL-65 HW</u>	SECTION <u>6</u>	TWP <u>0N</u>	RGE <u>42W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>HWP 343</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>12:30</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>667</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>POTD 618.22</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>061.85</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36100</u>	PACKER DEPTH		SURFACE PIPE		BREAK-DOWN BPM
CASING CONDITION <u>Good</u>			PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			SOOZE CEMENT		FINAL BPM
BREAKDOWN or CIRCULATING psi	AVERAGE psi		ACID BREAKDOWN		MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi		ACID STIMULATION		MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi		ACID SPOTTING		AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi		MISC PUMP		
MINIMUM psi			OTHER		HYD HP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Ris up Salty water, PST Test, Circ 40 BBls head / KCL mix @ 10 Dgc
mix + Pump 359 sls Cement (30% Excess) 1.27 yield 15-21 DS or until Company man stops
use, Release Plug Displace 47.7 BBls Hw Bump Plug 150 PSI over 1 hr wait couple min Release
PST Wash up Rig Down
Approved with 600 sls Cement 10 gals KCL 16 oz Dgc
Slurry
1 hr Test Good

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Salty water 4:50 PM Circ 5:16 PM Start Cement 5:31 PM
STOP Cement 5:53 PM Release Plug 6:04 PM Displace 6:04 PM

10 BBls at 5.7 BBls/hr 6:07 PM 310 PSI
20 BBls at 5.7 BBls/hr 6:09 PM 380 PSI
30 BBls at 5.6 BBls/hr 6:11 PM 450 PSI
40 BBls at 5.4 BBls/hr 6:13 PM 370 PSI
47.7 BBls at 1.3 BBls/hr 6:17 PM 300 PSI
Bump Plug 1-3 BBls/hr 6:17 PM 500 PSI
Flow Celler held
used 18 % Excess
used 357 sls Cement
Slurry 80.7

Let it with 243 sls Cement 6 KCL gals 0 Dgc
BBls Back to PST
13

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledge and specifically agree 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