

BISON OIL WELL CEMENTING, INC.



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TREATMENT REPORT

DATE	1-18-12
WELL NAME	Altair 209-330
SECTION	9
TWP	4N
R&G	4E
COUNTY	Weld
FORMATION	

CHARGE TO	Noble
MAILING ADDRESS	
CITY	
STATE ZIP CODE	
TIME ARRIVED ON LOCATION	10:00 AM
TIME LEFT LOCATION	
DISTANCE TO LOCATION	
CONTRACTOR	HDP 322
OPERATOR	Noble
OWNER	

WELL DATA	
TUBING SIZE	12 1/4
TUBING DEPTH	766
TUBING WEIGHT	717.38
TUBING CONDITION	85/8
CASING DEPTH	762.9
CASING WEIGHT	241.05
CASING CONDITION	600
PRESSURE LIMITATIONS	
THEORETICAL	
INSTRUCTED	

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
AVERAGE	psi
ISIP	psi
ACID STIMULATION	psi
ACID BREAKDOWN	psi
SOEZE CEMENT	psi
FINAL BPM	
INITIAL BPM	
BREAKDOWN BPM	
TYPE OF TREATMENT	
TUBING	
STRING	
SURFACE PIPE ANNULUS LONG	
TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
MAXIMUM BPM	
MINIMUM BPM	
AVERAGE BPM	
ACID SPOTTING	
MISC PUMP	
OTHER	
HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB
 Plug up, Saffymetry, PST test 500 PSI, Circ 40 BBG/KLMIX and 100g
 mix + Pump 324 SKS Cement (30% EXCESS) yield 127 at 15-2100 gpm. Company men stopper us
 Release Plug Displace 45.6 BBG the Bump Plug 450 PSI over lift wait 5 min. Release PST
 Wash up Plug Down
 Arrived with 400 SKS Cement 200g KCL 1602 days Slurry
 Saffymetry 1235 Circ 12.54 Cement 1102 Displace 1109

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS
 10 BBG at 5-0 BBG/L 1:33 290 PSI
 20 BBG at 5-0 BBG/L 1:35 350 PSI
 30 BBG at 5-0 BBG/L 1:37 410 PSI
 40 BBG at 3-5 BBG/L 1:40 370 PSI
 45.6 BBG at 1-0 BBG/L 1:43 300 PSI
 Bump Plug 1-0 BBG/L 1:43 330 PSI
 Flow (chilled) held

Left with SKS Cement 16 gskcl 200g
 13 BBG Back at P.T.
 Used 34 90 EXCESS
 Used 336 SKS Cement
 35.59 Slurry

AUTHORIZATION TO PROCEED	
TITLE	Co-Man
DATE	1-18-12

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.