

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9533
LOCATION WCR 68 + 61 1/2
FOREMAN Daniel Sattmeyer

TREATMENT REPORT

DATE <u>11-17-10</u>	WELL NAME <u>Basher PG AA 17-23</u>	SECTION <u>17</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>Cade 21</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>8:00pm</u>		TIME LEFT LOCATION <u>11:55pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>570.20</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>519.11</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>562.21</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>29#</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] PRODUCTION CASING		INITIAL BPM
			[] SOLE 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 Sattmeyer, psi test to 500psi. Circ 30 bbls of H₂O w/ 2nd 10 w/ 10oz Dye mix + pump 30% Excess @ 240 strokes of Cement @ 15.2" @ 1.27 yield, or until stopped by Co maw Prop. Hy Displace 33 bbls of H₂O Bump Plug @ 150 psi over 150 psi wait 5 min Release psi washup Rig Down H₂O test OK

Arrived w/ 500 strokes of Cement 4 gal KCL 32oz Dye 54.2 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: Sattmeyer 10:02 pm Circ 10:23 pm Cement 10:37 pm
Drop Plug 11:00 pm Displace 11:00 pm

10 bbls	5.0/m	210psi	11:03pm	used 257 strokes of Cement
20 bbls	5.0/m	270psi	11:06pm	38% Excess
30 bbls	2.5/m	260psi	11:08pm	58.1 bbls of Slurry
33 bbls	1.0/m	260psi	11:11pm	
Bump Plug	600 psi		11:11pm	

1 ft w/ 243 strokes of Cement 3 gal 1 qt KCL 22oz Dye
9 bbls of Slurry Back

Dan C. Watts Co Rep
AUTHORIZATION TO PROCEED TITLE

11-17-10
DATE