

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10623

LOCATION WCR 47 + 48

FOREMAN Mike Rosalee

## TREATMENT REPORT

DATE <u>11-18-11</u>	WELL NAME <u>HBR PC G-11 21-D</u>	SECTION <u>11</u>	TWP <u>4</u>	RGE <u>65W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>Ensign 124</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>6:15</u>			TIME LEFT LOCATION			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>713</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 661.28</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>707</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>241BS</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM

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. Sattymechy, PSE TEST, 500 PSE Circulate 40 BBls H<sub>2</sub>O/KCL mix  
2 1/2 10 Dye, mix + Pump 302 sks Cement (3090 Excess) 9:16 / 127, at 15-21 BS/or until Comp  
men stopper us. Release Plug Displace 421 BBls H<sub>2</sub>O Bump Plug 150 PSE over little wait 5 min Release  
PSE Washup Rig Down H<sub>2</sub>O TEST GOOD  
Arrived 575 sks 10 gts KCL 16 qt Dye Slurry 68.3

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS Sattymechy 8:55 PM Circulate 9:29 PM Cement 9:38 PM  
Drop Plug 10:01 PM Displace 10:01 PM

10 BBls at 5-5 BBls/lm 10:04 PM 300 PSI Used 10 90 Excess  
30 BBls at 5-5 BBls/lm 10:06 PM 370 PSI Used 256 sks Cement  
30 BBls at 5-5 BBls/lm 10:08 PM 460 PSI Slurry  
40 BBls at 2-5 BBls/lm 10:11 PM 320 PSI  
42.1 BBls at 1-0 BBls/lm 10:15 PM 300 PSI  
Bump Plug 1-0 BBls/lm 10:15 PM 520 PSI  
Flow Collar held BBls back to P.T.

Left with sks Cement 12 gts KCL 0 Dye

[Signature] AUTHORIZATION TO PROCEED  
 TITLE  
 DATE 11-18-11

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.