

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9261

LOCATION WCR 44 + 43

FOREMAN Daniel Sathemaw

TREATMENT REPORT

DATE 9-8-10	WELL NAME Boatler G 22-220	SECTION 21	TWP 4N	RGE 65w	COUNTY Weld	FORMATION
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR ENSRON 136			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 10:30pm			TIME LEFT LOCATION 1:30AM			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 616.0	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
10 TO 563	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 606		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24#	PACKER DEPTH		+ SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			[] SQUEEZE 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 HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB: Rig up, Safety meeting, PSI test to 500 psi, Circ 30 bbls of H₂O 2nd DW 10oz Dye, mix # pump 261 sks of Cement @ 30% Eff. @ 152' @ 27 yield or until stopped By Coman, Drop Plug Displace 35.8 bbls of H₂O Bump Plug @ 150 psi over 1 ft psi, wait 5 min Release psi Washup Rig Down H₂O test ok

Arrived w 350 sks of Cement 69/1 KCL 32oz Dye 59 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 11:54 AM Circ 12:08 PM Cement 12:15 AM Drop Plug 12:39 AM Displace 12:39 AM

10 bbls 5.0/m 260 psi 12:42 AM	17% Eff. @ 152'
20 bbls 5.0/m 360 psi 12:44 AM	236 sks of Cement
30 bbls 5.8/m 310 psi 12:46 AM	53.3 bbls of Slurry
35.8 bbls 7.0/m 240 psi 12:50 AM	
Bump Plug 430 psi 12:50 AM	

Left w 314 sks 59/1 KCL 32oz Dye

8 bbls of Slurry Back

[Signature]

AUTHORIZATION TO PROCEED

TITLE

9-8-10

DATE