

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9741
LOCATION WCR 44457
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>2-25-11</u>	WELL NAME <u>Coleman C22-180</u>	SECTION <u>22</u>	TWP <u>4N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENSIGN 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>9:23pm</u>		TIME LEFT LOCATION <u>4:20</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>560.10</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PATD <u>512-31</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>555.34</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</u>	PACKER DEPTH		+ SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] PRODUCTION CASING		INITIAL BPM
			[] SOOZE 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, Safety meeting, PSI test, fair 30 lbs of H₂O w/ KCL 2nd 10 w/ 10 oz Dye mix & pump
238 sks of cement @ 30% Excess @ 152 1/2 @ 1.27 yield or until stopped by Cement, Drop Plug
Displace 32.6 bbls of H₂O, Bump Plug @ 150 psi over 1.1 ft psi, wait 5 min Release psi wash up Rig
Down
H₂O test ok

Arrival w 750 sks of cement 4 gal KCL 32 oz Dye 53.8 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 12:00 AM Circ 2:42 AM Cement 2:53 AM
Drop Plug 3:12 AM Displace 3:12 AM

10 bbls	6.0/m	300 psi	316 psi	48% Excess
20 bbls	6.0/m	330 psi	318 psi	271 sks of cement
30 bbls	2.5/m	230 psi	321 psi	61.2 bbls of Slurry
32.6 bbls	1.0/m	210 psi	322 psi	
Bump Plug	520 PSI	322 psi		

Left w 479 sks of cement 3 gal 1 gal KCL 22 oz Dye
10 bbls of Slurry Back

PHX Co. Inc. WSS 2-25-11
AUTHORIZATION TO PROCEED TITLE DATE