

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9756
LOCATION CCR 57+42
FOREMAN Daniel Sorkin

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-23-11	Coleman C 22-210	22	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>FRS 91136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:30 AM</u>	TIME LEFT LOCATION <u>8:00 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>609.0</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD <u>560.78</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>603.04</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
			[] SQUEEZE 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, Circ 30 bbls of H₂O w/ 2oz Dye mix + pump 2575 sks of Cement @ 30% Excess @ 15.2" @ 1.27 yield or until stopped By Cement. Drop Plug Displace 357 bbls of H₂O Bump Plug @ 150 psi over 1.1 ft psi wait 5 min Release PSI wash up Rig Down H₂O test OK

Arrived w 700 SKS of Cement 3 qt Ket 32oz Dye 58.1 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: Safety meeting 6:00 AM Circ 6:38 AM Cement 6:46 AM
Drop Plug 7:09 AM Displace 7:09 AM

10 bbls	6.0/m	300psi	7:10 AM	used 229 sks of cement
20 bbls	6.0/m	410psi	7:12 AM	15% Excess
30 bbls	3.5/m	460psi	7:14 AM	51.7 bbls of Slurry
357 bbls	1.0/m	280psi	7:17 AM	
Bump Plug		430psi	7:17 AM	

Left w 471 SKS of Cement 2 qt Ket 22oz Dye
12 bbls of Slurry Back

Michael Magness
AUTHORIZATION TO PROCEED
TITLE
DATE 3-23-11