

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9808
LOCATION WCR 61 + 46
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>5-7-11</u>	WELL NAME <u>State C 24-99 H2</u>	SECTION <u>24</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 132</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>7:23pm</u>			TIME LEFT LOCATION <u>8:50AM</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>809.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
MTD <u>756.04</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>799.2</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36#</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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PSI test, circ 50 bbls of H₂O w/ KCL 2nd 10 w/ 10oz Dye, mix & pump 436 bbls of cement @ 36% excess @ 152' @ 1.27 yield, or until stopped by company, Drop Plug Displace 58.4 bbls of H₂O Bump Plug @ 150 psi over lift per unit SMW Release ps, Wash up Rig Down

Arrival w/ 700 bbls of Cement 4 gal KCL 32 oz Dye 98.6 bbls of slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 6:32 AM Circ 6:52 AM Cement 7:04 AM
Drop Plug 7:42 AM Displace 7:42 AM

10 bbls	6.0 l/m	260 psi	7:47 AM	Used 436 bbls of Cement 36% excess 98.6 bbls of slurry
20 bbls	6.0 l/m	330 psi	7:18 AM	
30 bbls	6.0 l/m	430 psi	7:56 AM	
40 bbls	6.0 l/m	520 psi	7:52 AM	
50 bbls	3.5 l/m	380 psi	7:54 AM	
58.4 bbls	1.0 l/m	360 psi	7:56 AM	
<u>Bump Plug 7:56 AM 530 psi 7:56 AM</u>				

Left 264 bbls of Cement 2 gal 36 gal KCL 22 oz Dye 18 bbls of slurry Back

5-7-11

AUTHORIZATION TO PROCEED

TITLE

DATE