

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9762
LOCATION WCR 42 + 33
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>4-8-11</u>	WELL NAME <u>Carlson K 23-220</u>	SECTION <u>23</u>	TWP <u>4N</u>	RGE <u>66W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENSOGN ICG</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:24pm</u>		TIME LEFT LOCATION <u>9:39pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>616.1</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD <u>564.97</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>608.0</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</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
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PSI test, Circ 30 bbls of H₂O w KCL, 2nd 10 w 16oz Dye
mix & pump 261 sks of Cement @ 30% Excess @ 15.2" @ 1.27 yield or until stopper by Comm
Drop Plug Displace 35.9 bbls of H₂O Bump Plug @ 150 psi over 1st psi wait 5 min Release PSI
Washup Rig Down H₂O test ok
Arrived w 700 sks of Cement 4al KCL 32oz Dye 59.0 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 7:54pm Circ 8:14pm Cement 8:27pm
Drop Plug 8:48pm Displace 8:48am

10 bbls	6.0 / m	340 psi	8:52pm	used	386 sks of cement
20 bbls	6.0 / m	390 psi	8:53pm	92% Excess	
30 bbls	3-5 / m	440 psi	8:55pm	87.3 bbls of Slurry	
35.9 bbls	1.0 / m	240 psi	8:57pm		
Bump Plug		400 psi	8:57pm		

Left w 374 sks 391 gal KCL 16oz Dye
4 bbls of Slurry Back

[Signature] AUTHORIZATION TO PROCEED
RIG SUPERVISOR TITLE
4-8-11 DATE

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.