

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9561
LOCATION WCR 44 + 57
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>2-20-11</u>	WELL NAME <u>Lang C 22-280</u>	SECTION <u>22</u>	TWP <u>4N</u>	RGE <u>69W</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>8:42pm</u>		TIME LEFT LOCATION <u>12:50 AM</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>580.3</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
BHP <u>524.8</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>570</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 IHP = 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, Ccr 30 bbls of H₂O W KCL 2nd 10w 10oz Dye, mix & pump 30% Excess @ 246 sks of cement @ 15.21 @ 1.27 yield or until stopped by Co man, Drop Plug Displace 33.4 bbls of H₂O Bump Plug @ 150 psi over 1 ft psi wait 5 min Release psi Washup Rig Down H₂O test OK
Arrival w 700 sks of cement 491 KCL 32oz Dye 55.6 bbls of slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:34pm Ccr 11:16pm Cement 11:27pm
Drop Plug 11:45pm Displace 11:45pm

10 bbls	6.0/m	330 psi	11:47	used 257 sks of cement
20 bbls	6.0/m	400 psi	11:49	35% Excess
30 bbls	2.5/m	240 psi	11:52	58.1 bbls of slurry
33.4 bbls	1.0/m	215 psi	11:55	
Bump plug			4:20 11:55pm	

Left w 443 sks of Cement 391 1st KCL 22oz Dye
7 bbls of slurry Back

Michael Magness

AUTHORIZATION TO PROCEED

TITLE

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