

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10721
LOCATION WLR 22+31
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE <u>9-12-12</u>	WELL NAME <u>CANNON WIS-08-14N</u>	SECTION <u>15</u>	TWP <u>2N</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>Ensign Rig 132</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>11:00 am</u>		TIME LEFT LOCATION <u>3:45 pm</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1030</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD <u>985.44</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING	
CASING DEPTH <u>102399</u>		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT <u>36 lb.</u>	PACKER DEPTH		<input 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 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 to 500 psi, Circ 30 bbls H₂O with KCL, Mix pump 379 sks Lead at 14.8 lps, 1.2 yield at 30% Excess to Cover 730', Mix pump 140 sks Tail at 15.2 lps, 1.2 yield to Cover 300' + Shoe at 0% Excess, Drop plug, Displace 76.1 bbls H₂O, Bump plug at 150 psi over lift Psi wait 5 min bleed off Psi, Wash up, Rig down, we have 544 sks Lead 200 sks Tail, 10 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS

Safety Meeting 1:40 pm, Circ 1.5 lps, Cement 203 pm to 2:32 pm
Drop Plug 2:33 pm, Displace 2:34 pm
10 bbls 400 Psi 2:37 pm 6.0 bbls/min
20 bbls 400 Psi 2:39 pm 6.0 bbls/min
30 bbls 500 Psi 2:41 pm 6.0 bbls/min
40 bbls 600 Psi 2:43 pm 6.0 bbls/min
50 bbls 610 Psi 2:45 pm 6.0 bbls/min
60 bbls 700 Psi 2:46 pm 6.0 bbls/min
70 bbls 550 Psi 2:49 pm 4.2 bbls/min
76.1 bbls 600 Psi 2:50 pm 2.0 bbls/min
Bump Plug 1600 Psi
Left with 165 sks Lead, 60 sks Tail, 7 qts KCL

USED

379 sks 89.07 bbls slurry Lead

140 sks 31.66 bbls slurry Tail

Total 519 sks 120.75 bbls Slurry

29 bbls Slurry TO THE PIT

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledge and specifically agree 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