

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8781
LOCATION WCR 88+59
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE <u>3-16-10</u>	WELL NAME <u>Shable 14-22</u>	SECTION <u>14</u>	TWP <u>7N</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>Cade Rig 21</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>12:15 AM</u>		TIME LEFT LOCATION <u>5:45 AM</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 1/2</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>794.33</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 746.20</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>789.33</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb.</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 S

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Psi check to 500 Psi, Circ 60 bbls H₂O with KCL + Dye 10 in 2 1/2 in, Per Company Man Mix + pump 30% excess = 378 sacks cement, 90 bbls slurry or tell Dye is seen then pump tub + 10 bbls slurry NO MAX EXCESS, Drop plug, Displace 57.6 bbls H₂O, Bump plug at NO MORE THEN 150 PSI OVER LIFT PSI, Wait 5 min then bleed off PSI, Washup, Rig down, Water Tested OK, We have 600 sacks cement, 32 oz Dye, 18 qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 3:19 am, Circ 3:55 am, CEMENT 4:06 am
Drop plug 4:37 am, Displace 4:39 am.
10 bbls 250 Psi 4:42 am 7.0 bbls/min
20 bbls 290 Psi 4:44 am 7.0 bbls/min
30 bbls 360 Psi 4:46 am 7.0 bbls/min
40 bbls 450 Psi 4:47 am 7.0 bbls/min
50 bbls 470 Psi 4:51 am 6.0 bbls/min
57.6 bbls 220 Psi 4:55 am .8 bbls/min
Bump Plug 320 Psi at 4:55 am
USED 20% excess = 367 sacks cement, 83 bbls slurry
Left with 233 sacks cement, 22 oz Dye, 12 qts KCL
10 bbls slurry to the pit

Jim C. Watts AUTHORIZATION TO PROCEED
Rep. TITLE
3-16-10 DATE