

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9643  
LOCATION WCR 76455  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE <b>3-22-11</b>	WELL NAME <b>Richter USA AB 27-25</b>	SECTION <b>27</b>	TWP <b>7N</b>	RGE <b>64W</b>	COUNTY <b>Weld</b>	FORMATION
CHARGE TO <b>Noble</b>		OWNER				
MAILING ADDRESS		OPERATOR <b>Noble</b>				
CITY		CONTRACTOR <b>Code # 21</b>				
STATE / ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <b>8:15 pm</b>		TIME LEFT LOCATION <b>3:00 AM</b>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <b>12 1/4</b>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <b>816</b>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD- <b>766.98</b>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <b>8 5/8</b>	TUBING CONDITION		TUBING		
CASING DEPTH <b>808.98</b>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <b>24 lbs</b>	PACKER DEPTH		[ ] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <b>Good</b>			[ ] 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 per Co. man, circ 50 bbls H<sub>2</sub>O with KEL + dye x 10 in 2<sup>nd</sup> 10, mix and pump til dye is seen, then pump tub only @ 15.2 lbs e 1.27 yd/d, drop plug, displace 48.8 bbls H<sub>2</sub>O, bump plug @ 500 lbs psi over lift press, wait 5 min, release press. Wash up, Rig down. H<sub>2</sub>O tested good.**  
**We have 600 sks, 32 oz dye, 11 gts KEL**

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS **Safety meeting @ 12:50 AM, circulate 1:22 AM, Cement 1:31 AM to 1:49 AM, Drop plug @ 1:50 AM, Displace 1:51 AM**  
**10 bbls - 210 psi @ 1:54 AM @ 7.0 bbls/min 15% excess**  
**20 bbls - 310 psi @ 1:56 AM @ 7.0 bbls/min 68.9 bbls slurry**  
**30 bbls - 425 psi @ 1:57 AM @ 7.0 bbls/min 305 sacks**  
**40 bbls - 500 psi @ 2:03 AM @ 6.0 bbls/min**  
**48.8 bbls - 350 psi @ 2:08 AM @ 1.0 bbls/min**  
**Bump plug @ 2:08 AM @ 950 psi Float collar held**

**Left with 345 sks, 22 oz dye, 6 gts KEL**  
**Avg cement - 3.83 bbls/min**  
**13 bbls slurry to pit**

**Amir K. K.** **Co Rep** **3-22-11**  
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