

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10124
LOCATION Buttersen Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

DATE 5-18-11	WELL NAME Buttersen D 22-24	SECTION 22	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign #55				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 9:05AM		TIME LEFT LOCATION 11:30AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 761	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 704.54	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 750		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[] 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. press test 500psi. Circulate 40bbls ahead. 440/KCL with dye x's 16oz in 2nd 10bbls. Mix and pump cement @ 15.2 density @ 1.27 yield until dye is seen, then pump tub only. Drop plug, displace 441.8 bbls, bump plug @ 150psi over lift press, wait 5min. release press. Washup Rig down H₂O tested Good. Arrived with 700sks, 32oz dye, 10gts KCL**

JOB SUMMARY
DESCRIPTION OF JOB EVENTS **Safety meeting @ 9:53AM, Circulate @ 10:05AM, Cement @ 10:11AM to 10:24AM. Drop plug @ 10:26AM, Displace @ 10:29AM, 10bbls @ 250psi @ 10:30AM @ 7.0bbls/min 10% Excess 20bbls @ 325psi @ 10:31AM @ 7.0bbls/min 271 sacks 30bbls @ 440psi @ 10:33AM @ 7.0bbls/min 61.29 bbls slurry 40bbls @ 380psi @ 10:35AM @ 6.0bbls/min 44.8bbls @ 300psi @ 10:36AM @ 1.0bbls/min Bump plug @ 10:38AM @ 450lbs. Float collar held.**

left location with 429sks, 16oz dye 6gts KCL

5bbls to pit

[Signature]
AUTHORIZATION TO PROCEED

[Signature]
TITLE

5-18-11
DATE