

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10127

LOCATION Buttersen Ranch

FOREMAN Grant Lowe

## TREATMENT REPORT

DATE 5-21-11	WELL NAME Buttersen D02-25 HN	SECTION Z	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR H&P #343				
CITY		CONTRACTOR Noble				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 10:45pm		TIME LEFT LOCATION 9:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 734	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 683.70	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 708.23		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36lbs	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 1000psi, Circulate 50 bbls H<sub>2</sub>O/KCL with dye 16oz in 2nd 10 bbls, Mix and pump cement @ 15.2 density @ 1.27 yield, drop plug, displace 52.8' until dye is seen, pump tub only, drop plug displace 52.8 bbls, bump plug 500psi over lift press, wait 5 min, release press, Wash up, Rig down. Arrived with 640 sks, 32oz dye, 16gts KCL H<sub>2</sub>O tested Good.

JOB SUMMARY: DESCRIPTION OF JOB EVENTS: Safety meeting @ 6:30 AM, Circulate @ 7:30 AM, Cement @ 7:38 to 7:58 AM  
Drop plug @ 8:00 AM, displace @ 8:01 AM  
10 bbl - 250 psi @ 8:03 AM @ 7.0 bbl/min 10% Excess  
20 bbl - 300 psi @ 8:04 AM @ 7.0 bbl/min 347 sacks  
30 bbl - 350 psi @ 8:06 AM @ 7.0 bbl/min 78.48 bbl - slurry  
40 bbl - 450 psi @ 8:07 AM @ 7.0 bbl/min 3 bbls to pit  
50 bbl - 380 psi @ 8:09 AM @ 6.0 bbl/min  
52.8 bbl - 300 psi @ 8:10 AM @ 1.0 bbl/min  
Bump plug @ 500 psi @ 8:11 AM, 200 lbs over lift press per Co. man.  
Float collar held  
Left location with 293 sks, 16oz dye, 11gts KCL

*St. Regis*  
AUTHORIZATION TO PROCEED

TITLE

5-21-11

DATE