

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10143  
LOCATION 46431  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE <b>7-9-11</b>	WELL NAME <b>Five Rivers, USXK09-010</b>	SECTION <b>3</b>	TWP <b>4N</b>	RGE <b>66W</b>	COUNTY <b>Weld</b>	FORMATION
CHARGE TO <b>Noble</b>			OWNER			
MAILING ADDRESS			OPERATOR <b>Noble</b>			
CITY			CONTRACTOR <b>Ensign #126</b>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <b>5:30pm</b>			TIME LEFT LOCATION <b>9:15pm</b>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <b>12 1/4</b>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <b>570</b>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <b>524.55</b>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <b>8 5/8</b>	TUBING CONDITION		TUBING		
CASING DEPTH <b>564</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

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 per Co Man, Press test to 500psi, Circulate 30 bbls H<sub>2</sub>O/KCL with dye x's 16oz in 2nd 10 bbls, Mixard pump cement @ 15.2 density @ 1:27 yield til dye is seen pump tub only, not to exceed 70% excess without consulting Co. man. Drop plug, displace 33.4 bbls, bump plug @ 150psi over lift press, wait 5 min, release pres. Wash up, Rig down. Arrived on location with 700 sks, 32oz dye, 20ft KCL. H<sub>2</sub>O tested good.

JOB SUMMARY: Safety meeting @ 6:30pm, Circulate @ 7:55pm, Cement @ 8:00 to 8:18  
DESCRIPTION OF JOB EVENTS: Drop plug @ 8:20pm, Displace @ 8:21pm, 10 bbls @ 380psi @ 8:22pm @ 7.0 bbls/min, 80% Excess, 334 sks, 75.5 bbls slurry, 5 bbls to pit.  
20 bbls @ 420psi @ 8:24pm @ 7.0 bbls/min  
30 bbls @ 300psi @ 8:25pm @ 3.0 bbls/min  
33.4 bbls @ 350psi @ 8:26pm @ 1.0 bbls/min  
Bump plug @ 570psi @ 8:27, Float collar held

left location with 366 sks, 16oz dye, 17ft KCL

[Signature] AUTHORIZATION TO PROCEED  
Co-MAN TITLE  
7-9-11 DATE