

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9619

LOCATION CR46-31

FOREMAN Kirk Kallho RP  
Mike R. Guy A L R

## TREATMENT REPORT

DATE 2-22-11	WELL NAME Five Rivers USR K09-22D	SECTION 10	TWP 4N	RGE 66W	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 5:30am		TIME LEFT LOCATION 9:45am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 570	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 514	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 554.1		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[ ] PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			[ ] SQUEEZE CEMENT		FINAL BPM
BREAKDOWN or CIRCULATING psi	AVERAGE psi		[ ] ACID BREAKDOWN		MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi		[ ] ACID STIMULATION		MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi		[ ] ACID SPOTTING		AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi		[ ] MISC PUMP		
MINIMUM psi			[ ] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psit test, circ 30664s KCL H2O 2nd 10w/Dye, mix Pump 241 SKS cement at 30% Excess at 127yeild at 152 lbs or until cement stops us, Release Plug Displace 32.7 BBls H2O, Pump Plug at 150 psi over Lift Psi, wait 5min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 650 SKS cement 4 gallons KCL 16oz Dye 54.4 BBls slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 7:58am circ 8:23am cement 8:31am  
Drop Plug 8:56am Displace 8:56am

10 BBls @ 5.5 BBls/m 9:00am 360 psi used 103% Excess  
20 BBls @ 5.5 BBls/m 9:02am 400 psi used 378 SKS cement  
30 BBls @ 2.5 BBls/m 9:08am 210 psi 85 BBls slurry  
32.7 BBls @ 1.0 BBls/m 9:08am 190 psi  
Bump Plug 9:08am 360 psi

Lift w/ 272 SKS Cement 3gal 1qt KCL 6oz Dye BBls Back 24

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