

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9730

LOCATION Cr 43-30

FOREMAN Kirk Kanhoj
Mike R. L.R. Jossie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-31-11	Moser PC M22-21 D	22	3N	6Sw	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00am	TIME LEFT LOCATION 1:00 pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 746	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 692.63	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	

TREATMENT VIA			TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH 738						
CASING WEIGHT 2416	PACKER DEPTH					
CASING CONDITION sand						

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, Psitest, circ 40 BBLs KCL H2O 2nd 10ml Dye, mix pump 316 SKs cement at 30% excess at 1.27 yield at 15.2 lbs or until cement stops us, Release Plug, Displace 44.1 BBLs H2O, Pump Plug at 150 psi over LPT psi, wait 5 min Release psi, wash up Rig Down.

Arrived w/ 575 SKs cement 4 gal KCL 16oz Dye 1420 OK
7:12 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 11:16am circ 11:39am cement 11:49am
Drop Plug 12:08pm Displace 12:08pm

10 BBLs At 5.5 BBLs/m 12:11pm 270psi used 10% excess
20 BBLs At 5.5 BBLs/m 12:13pm 350psi used 267 SKs cement
30 BBLs At 5.5 BBLs/m 12:15pm 450psi 60.3 BBLs slurry
40 BBLs At 2.5 BBLs/m 12:18pm 340psi
44.1 BBLs At 1.0 BBLs/m 12:20pm 320psi
Bump Plug 12:20pm 470psi

LPT w/ 308 SKs cement 3 gal KCL 6oz Dye 13 BBLs Back 10

AUTHORIZATION TO PROCEED TITLE DATE 3-31-11