

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 9590

LOCATION C-74-65

FOREMAN Kirk Ralshoff
Mike R. Tucker, Guy A.

TREATMENT REPORT

DATE 12-24-10	WELL NAME WCLP PL AA04-19	SECTION 4	TWP 6N	RGE 63W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cade 22				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:30am		TIME LEFT LOCATION 11:30am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 720.2	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 663.6	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 9/8	TUBING CONDITION		TUBING		
CASING DEPTH 709.2		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		[X] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION seal			[] PRODUCTION CASING		INITIAL BPM
			[] SOOZE 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 B

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, Bitest, circ 40 SWS H2O 2nd 10' Dye, mix E Pump 30 S
SKS cement at 30% Excess at 127 yield at 152 lbs cement all cement stops 45, Release Plug
Displace 42.2 BBls H2O, Bump Plug at 150 PSI over C.F. PSI Unit 5 min Release PSI, wash up
Rig Down H2O test OK

Arrived w/ 575 SKS cement 4 gallons Red 16oz Dye 68.8 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 9:50am circ 10:02am cement 10:11am
Drop Plug 10:30am Displace 10:30am

used 21% Excess
used 286 SKS cement
64 BBls slurry
10 BBls at 5.5 BBls/m 10:33am 320 psi
20 BBls at 5.5 BBls/m 10:35am 340 psi
30 BBls at 5.5 BBls/m 10:37am 510 psi
40 BBls at 2.5 BBls/m 10:43am 320 psi
42.2 BBls at 1.0 BBls/m 10:44am 270 psi
Bump Plug 10:44am 410 psi

Left w/ 289 SKS cement 3 gallons Red 6oz Dye BBls Back 9

 AUTHORIZATION TO PROCEED
WSD TITLE
12-24-10 DATE