

# BISON OIL WELL CEMENTING, INC.



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## TREATMENT REPORT

DATE	12-22-11	WELL NAME	PHARM 1133-110
SECTION	33	TWP	7N
AGE	66W	COUNTY	Weld
FORMATION			

REF. INVOICE # 10772

LOCATION 74-29

FOREMAN Kirk Kallio

Tacker David

CHARGE TO	Noble
MAILING ADDRESS	Noble
CITY	Golden, CO
STATE ZIP CODE	80130
TIME ARRIVED ON LOCATION	10:30am
TIME LEFT LOCATION	1:30pm
DISTANCE TO LOCATION	
CONTRACTOR	Saxon 143
OPERATOR	Noble
OWNER	

WELL DATA		PRESSURE LIMITATIONS	
TUBING SIZE	12 1/4	THEORETICAL	INSTRUCTED
TUBING DEPTH	996	SURFACE PIPE ANNULLUS LONG	
TUBING WEIGHT	948.37	STRING	
TUBING CONDITION	8 5/8	TUBING	
CASING DEPTH	993		
CASING WEIGHT	2415		
CASING CONDITION	good		
PRESSURE SUMMARY		TYPE OF TREATMENT	
BREAKDOWN or CIRCULATING	psi	ISURFACE PIPE	
AVERAGE	psi	PRODUCTION CASING	
ACID BREAKDOWN	psi	SQUEEZE CEMENT	
ACID STIMULATION	psi	MINIMUM BPM	
ACID SPOTTING	psi	MAXIMUM BPM	
MISC PUMP	psi	AVERAGE BPM	
OTHER		HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, Per cement, circ 405Ks RCL H2O, mixed Pump 273 SKS  
 Lead cement at 2040 excess at 1:32 yield at 1418 lbs, mixed Pump Tail cement 100SKS at 1:22 yield at  
 152155, Release Pkg Disp 60.11 BBS 1120, Pump Pkg at 150 psi over LIFT Pkg, wait 5 min Release  
 Pkg, wash up Rig down  
 Arrived at 405Ks well cement 200 SKS 3rd cement 45 gal RCL  
 JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS: Safety meeting, 11:27am  
 Displace 12:30pm  
 Pump Pkg 12:30pm  
 10 BBS at 6.0 BBS/m 12:32pm 140psi  
 20 BBS at 6.0 BBS/m 12:34pm 270psi  
 30 BBS at 6.0 BBS/m 12:35pm 300psi  
 40 BBS at 6.0 BBS/m 12:37pm 400psi  
 50 BBS at 6.0 BBS/m 12:39pm 500psi  
 60 BBS at 6.0 BBS/m 12:43pm 300psi  
 60.11 BBS at 12:43pm 300psi 1.08 BBS/m  
 Pump Pkg 12:43pm 450psi

used 273 SKS cement lead  
 64.1 BBS slurry  
 used 100 SKS cement tail  
 22.6 BBS slurry  
 60 BBS at 6.0 BBS/m 12:43pm 300psi  
 60.11 BBS at 12:43pm 300psi 1.08 BBS/m  
 Pump Pkg 12:43pm 450psi

LEAD/127SKS Well cement 100SKS 3rd cement 3 gal RCL  
 BBS BBS 8