

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9007

LOCATION WCR 55-80

FOREMAN Kirk Kallhoff  
mile R mile D miles

## TREATMENT REPORT

DATE 5-23-10	WELL NAME mckay AB 02-14	SECTION 2	TWP 7N	RGE 64W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR cadr 21				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:00am		TIME LEFT LOCATION 12:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 1/2	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 846.3	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 788	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 831		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		[X] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[ ] 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

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, circ 60 BBls H2O 2nd 10 w/ Dye mix & Pump  
424 sks at 30% Excess at 1.27 yield at 15.2 lbs or until column stops vs. Release plug  
Displace 60.9 BBls H2O Bump Plug at 150psi over LIFT Psi wait 5min Release Psi wash up Rig down  
H2O test OK

Arrived w/ 575 sks cement 4 gallons Kcl 16oz Dye 95.7 BBls slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:39am circ 10:07am cement 10:20am  
Drop Plug 10:48am Displace 10:48am

used 5% Excess per column  
used 343 sks cement  
77.3 BBls slurry

10 BBls at 5.5 BBls/m 10:51am 370psi  
20 BBls at 4.0 BBls/m 10:54am 180psi  
30 BBls at 4.0 BBls/m 10:57am 360psi  
40 BBls at 4.0 BBls/m 10:59am 440psi  
50 BBls at 4.5 BBls/m 11:03am 500psi  
60 BBls at 1.0 BBls/m 11:09am 370psi  
60.9 BBls at 1.0 BBls/m 11:10am 380psi

Bump Plug NO  
LIFT w/ 232 sks cement 2 gallons 3gds Kcl 6oz Dye 13 BBls Back 11

*[Signature]* Rep 5-23-10  
AUTHORIZATION TO PROCEED TITLE DATE