

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9011

LOCATION Hwy 66-19

FOREMAN Kirk Kallio  
mile 2 mile 5

## TREATMENT REPORT

DATE 5-29-10	WELL NAME Horse Iron P22-32D	SECTION 21	TWP 3N	RGE 67W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 5:00pm		TIME LEFT LOCATION 8:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 532	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBID 477.76	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 520.67		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	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 30 BBLs H2O and 10 1/4 Dye mix & Pump  
225 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until roman steps up, Release Plug  
Displace 30.4 BBLs H2O, Pump Plug at 150 psi over Lift Psi wait 5 min Release Psi, wash  
up Rig down H2O test OK  
Arrived w/ 650 sks cement 4 gallons Kel 1602 Dye 50.8 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 6:14pm circ 6:57pm cement 7:05pm  
Drop Plug 7:24pm Disp 7:24pm

used 40% Excess  
used 243 sks cement  
54.7 BBLs slurry  
10 BBLs at 5.5 BBLs/m 7:27pm 450psi  
20 BBLs at 5.5 BBLs/m 7:29pm 500psi  
30 BBLs at 1.0 BBLs/m 7:34pm 230psi  
30.4 BBLs at 1.0 BBLs/m 7:34pm 250psi  
Bump Plug 7:34pm 470psi

Lift w/ 407 sks cement 3 gallons 1st Kel 602 Dye 13 BBLs Back 8

Mike [Signature] CONSULTANT 5/29/10  
AUTHORIZATION TO PROCEED TITLE DATE