

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10220

LOCATION 54-257

FOREMAN Kirk Kaillor  
mike R CR Richardson

## TREATMENT REPORT

DATE 6-26-11	WELL NAME Phillips 24-3-23	SECTION 24	TWP 5N	RGE 67W	COUNTY weld	FORMATION
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR Ensign 136			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 11:00pm			TIME LEFT LOCATION 1:45am			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 564	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 520.5	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 564		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		[ ] 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, Bit test, circ 30 bbls Rel H2O, 2nd 10w/Dye, mix Pump 2395Ks cement at 30% excess at 1.27 cyl/d at 15.2 lbs or until cement stops up, no more than 50% excess, Per cement, Release Plug Disp 33.1 bbls H2O, Bump Plug At 150 psi over Lift Psi, wait 5 min Release Psi washup, Rig Down H2O test OK

Arrived w/ 5755Ks cement 4 gal Rel 16oz Dye 538 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:00am circ 12:35am cement 12:43am  
Drop Plug 12:56am Disp 12:56am

used 10% excess  
used 2025Ks cement  
45.6 BBLs slurry  
10 BBLs At 5.5 BBLs/m 1:00am 350psi  
20 BBLs At 5.5 BBLs/m 1:02am 450psi  
30 BBLs At 2.5 BBLs/m 1:05am 320psi  
33.1 BBLs At 1.0 BBLs/m 1:07am 280psi  
Bump Plug 1:07am 510psi

Lift w/ 3735Ks cement 3 gal 1/2 Rel 6oz Dye BBLs Back 13

W.S.S. 6-26-11  
AUTHORIZATION TO PROCEED TITLE DATE