

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8943

LOCATION wr 52-17 1/2

FOREMAN Kirk Railhord  
mike R, mike D, mike S

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-18-10	Ehrlich N35-32D	34	5N	67W	wild	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 126
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:15 pm	TIME LEFT LOCATION 9:30 pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 640.2	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 589.97	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

TREATMENT VIA			TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH 630.25			<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING WEIGHT 32 1/2	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
CASING CONDITION good			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	

PRESSURE SUMMARY					
BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
FINAL DISPLACEMENT psi	ISIP psi	<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
ANNULUS psi	5 MIN SIP psi	<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
MAXIMUM psi	15 MIN SIP psi	<input type="checkbox"/> MISC PUMP			
MINIMUM psi		<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40 S	

INSTRUCTIONS PRIOR TO JOB <sup>Ris up</sup> safety meeting, psi test, circ 35 BBLS H2O and 10 w/dye, mix E Pump  
271 sks cement at 30% excess at 1.27 yield at 15.2 lbs gravel/cf man stops 45, Release  
Plug Displace 35.9 BBLS H2O, Bump Plug at 150 psi over Lift psi wait 5 min Release psi,  
wash up Big Down H2O test OK  
Arrived w/ 575 sks cement 4 gallons Kcl 16oz Dye 61.1 BBLS slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 7:45pm circ 8:12pm cement 8:21pm  
Drop Plug 8:43pm Disp 8:43pm

10 BBLS at 5.5 BBLS/m 8:45pm 430psi used 99% excess per colman  
20 BBLS at 5.5 BBLS/m 8:47pm 550psi used 229 sks cement  
30 BBLS at 3.5 BBLS/m 8:51pm 470psi 42.3 BBLS slurry  
35.9 BBLS at 1.0 BBLS/m 8:54pm 270psi  
Bump Plug 8:54pm 440psi

Lift w/ 346 sks cement 3 gallons 2% Kcl 6oz Dye

BBLS Back 6

AUTHORIZATION TO PROCEED

TITLE

3-18-10

DATE