

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9233

LOCATION C-49-26

FOREMAN Kirk Kallhoff  
Mike R. Fowler

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-24-10	HP Farms D32-03	32	3N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:30 pm	TIME LEFT LOCATION 12:30 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 734	TUBING DEPTH	SHOTS/FT			
PBTD 681.6	TUBING WEIGHT	OPEN HOLE			
CASING SIZE 8 5/8	TUBING CONDITION				
CASING DEPTH 725.67		TREATMENT VIA			
CASING WEIGHT 2416	PACKER DEPTH				
CASING CONDITION Good					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP			
			<input type="checkbox"/> OTHER			
					HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Post test, circ 40 BBLs H2O 2.810 w/ Dye mix, Pump 311  
SL cement at 30% excess at 1.27 yield at 15.2 lbs or until cement stops, Release plug Displace  
43.4 BBLs H2O, Pump Plug at 150 psi over LIFT Packer 5 min Release PSI wash up  
Rig Down H2O test ok  
Arrived w/ 650 gals cement 4 gallons Kel 16oz Dye 70.1 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:33 pm circ 10:53 pm cement 11:02 pm  
Drop Plug 11:30 pm Displace 11:30 pm

10 BBLs AT 5.5 BBLs/m 11:33 pm 410 psi  
20 BBLs AT 5.5 BBLs/m 11:35 pm 470 psi  
30 BBLs AT 5.5 BBLs/m 11:37 pm 540 psi  
40 BBLs AT 2.5 BBLs/m 11:40 pm 370 psi  
43.4 BBLs AT 1.0 BBLs/m 11:42 pm 340 psi  
Pump Plug 11:42 pm 510 psi

used 49% EXIPSS  
used 250 gals cement  
56.1 BBLs slurry

LF 6/

13 BBLs Back 10

*[Signature]*  
AUTHORIZATION TO PROCEED

TITLE

8-24-10

DATE