

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10632

LOCATION WEA 49 + 46

FOREMAN M. K. Rosta  
L.R. mack

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-4-11	N2E1 C-17-330	18	4	64	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 11:30 PM	TIME LEFT LOCATION 7:30 AM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 707	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 653.99	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		[ ] SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		[ ] PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		[ ] SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		[ ] ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			[ ] ACID STIMULATION		MAXIMUM BPM	
			[ ] ACID SPOTTING		AVERAGE BPM	
			[ ] MISC PUMP			
			[ ] OTHER			

INSTRUCTIONS PRIOR TO JOB Rig up, Saffy meter, PSI test 500 PSI Circulate 40 BBLs then KILL mix 2nd 100 lbs mix + Pump 299 sks Cement (30% Excess) 100 yield at 15-21 BS or until Company men stopper use, Release Plug Displace 41.6 BBLs then Pump Plug 150 over-kill wait 5 min wash up Rig Down H/W Test Arrived with 575 sks Cement 8 gals KCL 1602 Dye Slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Saffy meter 4:10 AM Circulate 5:27 AM Cement 536  
Pump Plug 5:57 AM Displace 5:57 AM

10 BBLs at 5-0 BBLs/min 6:01 AM 180 PSI Used 5 1/2% Excess  
20 BBLs at 5-0 BBLs/min 6:03 AM 210 PSI Used 243 sks Cement  
30 BBLs at 4-7 BBLs/min 6:06 AM 270 PSI 549 Slurry  
10 BBLs at 1-5 BBLs/min 6:08 AM 220 PSI  
11.6 BBLs at 1-5 BBLs/min 6:10 AM 240 PSI  
Bump Plug 1-5 BBLs/min 6:10 AM 480 PSI BBLs Back  
Flow Control (held) 11

Set with 332 sks Cement 4 KCL 500 Dye

*[Signature]*  
AUTHORIZATION TO PROCEED

TITLE

12-4-11

DATE

Customers hereby acknowledge and specifically agree to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.