

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9725

LOCATION cr32-37

FOREMAN Kirk Kallhoff  
Mike R LR Jessie

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-22-11	warden H19-33D	19	3N	65W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 4:00 am	TIME LEFT LOCATION 9:00 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 779	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 725.98	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 773.77		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2415	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SOEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
				BREAKDOWN BPM	
				INITIAL BPM	
				FINAL BPM	
				MINIMUM BPM	
				MAXIMUM BPM	
				AVERAGE BPM	
				HYD HHP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING psi	AVERAGE psi	
FINAL DISPLACEMENT psi	ISIP psi	
ANNULUS psi	5 MIN SIP psi	
MAXIMUM psi	15 MIN SIP psi	
MINIMUM psi		

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Psi test, circ 40 Bbls KCL H2O 2nd 10w/ Dye, mix & Pump 330 sks cement at 30% excess at 127 yd at 152 lbs cement till cement stops us, Release Plug Displace 46.2 Bbls H2O, Bump Plug at 150 psi over Lift psi, wait 5 min Release psi, wash up Rig Down

Arrived w/ 575 sks cement 4 gal KCL 16oz Dye H2O test OK  
74.4 Bbls slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 7:17 am circ 7:35 am cement 7:44 am  
Drop Plug 8:15 am Disp 8:15 am

10 Bbls @ 5.5 Bbls/m 8:18 am 380 psi used 77% excess  
20 Bbls @ 5.5 Bbls/m 8:20 am 440 psi used 450 sks cement  
30 Bbls @ 5.5 Bbls/m 8:22 am 490 psi 101.3 Bbls slurry  
40 Bbls @ 3.5 Bbls/m 8:25 am 380 psi  
46.2 Bbls @ 1.0 Bbls/m 8:28 am 310 psi  
Bump Plug 8:28 am 450 psi

L5Hw/ 75 sks cement 3 gal KCL 6oz Dye Bbls Back 48

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledges and specifically agrees 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