

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10218

LOCATION 57-66

FOREMAN Kirk Kallho FF  
mike R CR Richard m

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-24-11	Howard A27-17D	21	6N	64W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00am	TIME LEFT LOCATION 4:15pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 909	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 860.51	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 7/8	TUBING CONDITION			TUBING	
CASING DEPTH 902.22		TREATMENT VIA			

CASING DEPTH 902.22		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, circ 5000s RCL H2O, 2nd 10w/Dye, mix Pump 3850s cement at 30% Excess at 127 yield at 15.2 lbs/can till cement steps up, no more than 50% Excess Per cement Release Plug Disp 54.8 BBLs H2O, Bump Plug at 150psi over Lift psi, wait 5min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 7500s cement 4gall RCL 16oz Dye 86.8 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 2:26pm circ 2:45pm cement 2:56pm  
Drop Plug 3:19pm Disp 3:19pm  
10 BBLs At 5.5 BBLs/m 3:22pm 290psi used 25% Excess  
20 BBLs At 5.5 BBLs/m 3:24pm 360psi used 371sks  
30 BBLs At 5.5 BBLs/m 3:26pm 450psi 83.5 BBLs slurry  
40 BBLs At 5.5 BBLs/m 3:29pm 560psi  
50 BBLs At 3.5 BBLs/m 3:32pm 460psi  
54.8 BBLs At 1.0 BBLs/m 3:34pm 400psi  
Bump Plug 3:34pm 550psi

Lift at 278sks cement 2gall 3gts RCL & Dye BBLs Back 15

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