

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9604

LOCATION cr 32-13

FOREMAN Kirk Kallhauff  
mile R, Guy A, Chad

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-21-11	Selich P19-27D	19	3N	67W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:30am	TIME LEFT LOCATION 7:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 888.1	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 839.18	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 884.49		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<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

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, Psil test, circ 50 bbls 12CL H2O 2nd 10w/Dye, mix & Pump 376 SKS cement at 30% excess at 1.27 yield at 15.2 lbs or until cement stops us, Release Plug Displace 53.4 bbls H2O, Bump Plug at 150psi over LIFT Psi wait 5min, Release Psi, wash up Rig Down

Arrival w/ 650 SKS cement 4 gallons KCL 16oz Dye H2O test OK  
84.8 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 5:25am circ 5:47am cement 5:59am  
Drop Plug 6:22am Displace 6:22am

10 BBLs at 5.5 BBLs/m 6:24am 440psi used 25% excess  
20 BBLs at 5.3 BBLs/m 6:26am 380psi used 364 SKS cement  
30 BBLs at 5.5 BBLs/m 6:28am 500psi 81.5 BBLs slurry  
40 BBLs at 5.5 BBLs/m 6:30am 520psi  
50 BBLs at 2.5 BBLs/m 6:33am 340psi  
53.4 BBLs at 1.0 BBLs/m 6:36am 280psi  
Bump Plug 6:36am 420psi

LSTW/ BBLs Back 27

 AUTHORIZATION TO PROCEED  
 TITLE  
1-21-11 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.