

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10215

LOCATION 51-22

FOREMAN Kirk Hallhoff  
Mike R. L.R. Richardson

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-18-11	Pioneer K07-08 D	7	2N	64W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:30pm	TIME LEFT LOCATION 1:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 885	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 832.38	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

CASING DEPTH 877.08		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 2415	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, psi test, circ 5000 lbs Kcl H2O, 2nd 1000 lbs Dye, mix & Pump 3745 Ks cement at 30% excess at 127 yield at 15.2 lbs or until cement steps up, no more than 50% excess per cement, Release Plug Disp 53 BBLs H2O, Bump Plug at 150 psi over LiPt Psi, wait 5 min Release Psi washing, Rig Down H2O test OK  
Arrival w/ 6500 lbs cement 4 gal Kcl 16 gal Dye 84.5 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS: Safety meeting 11:30pm circ 11:50pm cement 12:03am  
Drop Plug 12:23am Disp 12:23am  
10 BBLs at 5.5 BBLs/m 12:26am 300 psi used 4% excess  
20 BBLs at 5.5 BBLs/m 12:28am 320 psi used 3000 lbs cement  
30 BBLs at 5.5 BBLs/m 12:30am 430 psi 67.6 BBLs slurry  
40 BBLs at 5.5 BBLs/m 12:32am 530 psi  
50 BBLs at 2.5 BBLs/m 12:35am 440 psi  
53 BBLs at 1.0 BBLs/m 12:37am 320 psi  
Bump Plug 12:37am 520 psi

L Plug / 3500 lbs cement 2 gal 3% Kcl & Dye BBLs Back 10

AUTHORIZATION TO PROCEED

TITLE

6-18-11

DATE