

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 102316

LOCATION 32-51

FOREMAN Kirk Karlhoef
Mike R CR marks

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-23-11	LDS D17-310	17	3N	64W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:00pm</u>	TIME LEFT LOCATION <u>1:45am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>739</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD <u>687.18</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>731.69</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>2416</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE 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, Psitest, circ 40 BBLs KCL H2O and 10w/Dye mix & Pump 313 SLS cement at 30% Excess at 1.27 yield at 15.2 lbs, or until cement stops, no more than 50% Excess per cement, Release Plug Disp 43.7 BBLs H2O, Bump Plug at 150 psi or Lift Psi, wait 5 min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 575 SLS cement 4 gal KCL 16oz Dye 70.6 BBLs slurry

JOB SUMMARY 11:51pm

DESCRIPTION OF JOB EVENTS Safety meeting 12:19am circ 12:19am cement 12:31am

Drop Plug 12:53am Disp 12:53am
10 BBLs at 4.5 BBLs/m 12:57am 260psi used 20% Excess
20 BBLs at 4.5 BBLs/m 12:59am 390psi used 28.9 SLS cement
30 BBLs at 4.5 BBLs/m 1:02am 430psi 65.1 BBLs slurry
40 BBLs at 2.5 BBLs/m 1:05am 400psi
43.7 BBLs at 1.0 BBLs/m 1:08am 340psi
Bump Plug 1:08am 500psi

Lift 280 SLS cement 3 gal KCL & Dye BBLs Back 13

Robert L

AUTHORIZATION TO PROCEED

TITLE

DATE

7-23-11

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.