

BISON OIL WELL CEMENTING, INC.



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TREATMENT REPORT

DATE	4-23-12	WELL NAME	Haffmann (02-210)	SECTION	2	TWP	4N	RGE	64W	COUNTY	Weld	FORMATION	
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CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 132
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	7:30pm	TIME LEFT LOCATION	12:45pm

HOLE SIZE	12 1/4	PERFORATIONS		THEORETICAL	INSTRUCTED
TUBING DEPTH	716	SHOTS/FT			
TUBING WEIGHT	PBTD 664.56	OPEN HOLE			
CASING SIZE	8 5/8	TUBING CONDITION			
CASING DEPTH	710	TREATMENT VIA			
CASING WEIGHT	2415	PACKER DEPTH			
CASING CONDITION	Good				

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[] ACID BREAKDOWN	MINIMUM BPM	FINAL BPM	PRESSURE SUMMARY	
FINAL DISPLACEMENT	psi	ISIP	psi	[] ACID STIMULATION	MAXIMUM BPM	AVERAGE BPM		
ANNUUS	psi	5 MIN SIP	psi	[] ACID SPOTTING				
MAXIMUM	psi	15 MIN SIP	psi	[] MISC PUMP				
MINIMUM	psi			[] OTHER				
						HYD HHP = RATE X PRESSURE X 40.8		

INSTRUCTIONS PRIOR TO JOB: Rig up safety, modify, lift bit, Permen c/c 4000s Kel H2O, 2nd gen dye, mix, Pump 302 SKS cement at 30% excess at 12:45 yield at 15213 cement all cement ships up, Release Pkg, Disp 42.3 BBS H2O, Pump Pkg at 150psi cut lift Pkg, wait 5 min Release Pkg, wash up Pkg down
 Arrived 11:50 SKS cement 4 gal Kel 100 dye
 JOB SUMMARY
 DESCRIPTION OF JOB EVENTS: Safety, modify, 11:09pm c/c 11:24pm cement 11:31pm stop cement 11:52pm
 Pump Pkg 11:53pm Displace 11:53pm
 10 BBS at 6.0 BBS/m 11:55pm 400psi
 20 BBS at 6.0 BBS/m 11:57pm 500psi
 30 BBS at 6.0 BBS/m 11:58pm 520psi
 40 BBS at 2.5 BBS/m 12:00pm 380psi
 42.3 BBS at 1.0 BBS/m 12:02pm 300psi
 Pump Pkg 12:02pm 570psi
 13 BBS BBS slurry
 450 393 SKS cement
 used 69% excess
 88.8 BBS slurry
 120 ft OK
 68.3 BBS slurry

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Customers hereby acknowledge and specifically agree 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.
 AUTHORIZATION TO PROCEED
 TITLE
 DATE
 4-23-12
 455
 13 BBS BBS 26
 450 393 SKS cement 4 gal Kel 100 dye