

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10140
LOCATION 70153
FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-3-11	Howard USX A09-020	9	6N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Saxin #143
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 8:00am	TIME LEFT LOCATION 10:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 706	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 654.59	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 700.04		TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 241lbs	PACKER DEPTH			[] SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION Good				[] PRODUCTION CASING	INITIAL BPM
				[] SQUEEZE CEMENT	FINAL BPM
				[] ACID BREAKDOWN	MINIMUM BPM
				[] ACID STIMULATION	MAXIMUM BPM
				[] ACID SPOTTING	AVERAGE BPM
				[] MISC PUMP	
				[] 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 per Co man, press test to 500psi. Circulate 80bbls H₂O/KEL with dye xs 16oz Znd 10bbls. Mix and pump cement @ 15.2 density @ 1.27 yield til dye is seen, pump tub only, not to exceed 30% excess without consulting Co man. Drop plug, displace 41.6 bbls, bump plug @ 150psi over, lift press, wait 5 min. release press, H₂O is good. Arrived on location with 660sk, 32oz dye, 20gts KEL, H₂O has soap in it.

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting @ 8:40 AM, Circulate @ 9:13 AM, Cement @ 9:20 to 9:38 AM
Drop plug @ 9:39 AM, Displace @ 9:40 AM,
10 bbls @ 250 psi @ 9:41 AM @ 7.0 bbls/min 0% EXCESS
20 bbls @ 350 psi @ 9:43 AM @ 7.0 bbls/min 230 SKS
30 bbls @ 400 psi @ 9:45 AM @ 7.0 bbls/min 52 bbls slurry
40 bbls @ 380 psi @ 9:47 AM @ 1.0 bbls/min 8 bbls to pit.
41.6 bbls @ 380 psi @ 9:48 AM @ 1.0 bbls/min
Bump plug @ 9:49 @ 600 psi Float collar held

Left location with 430 sks, 16oz dye, 16gts KEL

[Signature]
AUTHORIZATION TO PROCEED

TITLE

7-3-11
DATE