

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10146
LOCATION Guttersen Ranch
FOREMAN Gran + Lowe

TREATMENT REPORT

DATE 7-15-11	WELL NAME Karch D10-22	SECTION 10	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign #126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 3:00 AM		TIME LEFT LOCATION 6:00 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 702	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD - 650.50	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 694.59		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION 6000			[] 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

INSTRUCTIONS PRIOR TO JOB: Rig up, Safety meeting per Co man. Press test to 500psi Circulate 40 bbls 10/60KCL with dye, x's 16oz in 2nd 10 bbls. Mix and pump cement @ 15.2 density @ 1.27 yield until dye is seen, pump tub only, not to exceed 35% excess with out consulting with Co. man. Drop plug spc 41.4 bbls bump plug @ 150psi over lift press. wait 5 min, release press Wash up Rig down. 10 test good. Arrived on location with 700 sks, 32oz dye, 11gts KCL

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: Safety meeting @ 4:00 am, Circulate @ 4:30 am, Cement @ 4:40 to 4:54 am
Drop plug @ 4:57 am Displace @ 4:58 am
10 bbls @ 300psi @ 4:59 am @ 7.0 bbls/min 35% Excess
20 bbls @ 400psi @ 5:01 am @ 7.0 bbls/min 307 Sacks
30 bbls @ 480psi @ 5:03 am @ 7.0 bbls/min 69.4 bbls slurry
40 bbls @ 400psi @ 5:04 am @ 1.0 bbl/min 7 bbls to pit
41.4 bbls @ 400psi @ 5:05 am @ 1.0 bbl/min
Bump plug @ 525psi @ 5:06 am Float collar Held

left location with 393 sks, 16oz dye, 7gts KCL

Robert L. L.
AUTHORIZATION TO PROCEED

TITLE

7-15-11
DATE