

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10141
LOCATION Buttersen Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

DATE 7-7-11	WELL NAME Guthersen State CC 20-31D	SECTION 20	TWP 4N	RGE 63W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign # 121				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 11:00pm		TIME LEFT LOCATION 2:10AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 655	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD-602.95	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 648.33		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	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 500 psi. Circulate 40 bbls H₂O/KEL with dye & 16oz in 2nd 10 bbls. 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 38.4 bbls, bump plug @ 150 psi over lift press. Wait 5 min. Release press. Unship Rig Down. Arrived on location with 600 sks, 32oz dye, 2 qts KEL, H₂O tested good.

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting @ 12:00am, Circulate @ 12:45am, Cement 12:51 to 1:07am, Displace Drop plug @ 1:10am, Displace @ 1:12am.
10 bbls @ 280 psi @ 1:13am @ 7.0 bbls/min 17% EXCESS
20 bbls @ 350 psi @ 1:14am @ 7.0 bbls/min 250 sacks
30 bbls @ 450 psi @ 1:16am @ 7.0 bbls/min 56.5 bbls slurry
38.4 bbls @ 300 psi @ 1:19am @ 1.0 bbls/min 4 - bbls to pit
Bump plug @ 550 psi @ 1:22am,
Float collar held.

Left location with 350 sks, 16oz dye, 1 qt KEL.

May Stapleton
AUTHORIZATION TO PROCEED

TITLE

7-7-11

DATE