

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10129
LOCATION Battersen Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-2-11	Battersen D22-28	15	3N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign #55</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>7:30am</u>	TIME LEFT LOCATION <u>9:45am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>662</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>608.49</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>651.45</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lbs</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			[] 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, Presstest 500psi, Circulate 40 bbls H₂O/KCL with dye x's 16oz in 2" 10 bbls, Cement @ 15.2 density @ 1.27 yield til dye is seen, pump tub only, drop plug, displace 38.7 bbls, bump plug @ 150psi over lift press, wait 5min, release press. Wash up Rig down, H₂O tested good.

Arrived on location with - 700 sks, 32oz dye, 15gls KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS

Safety meeting @ 8:15am, Circulate @ 8:27am, Cement @ 8:33 to 8:44.
Drop plug @ 8:46am, bump plug @ 8:56am @ 400 lbs,
10 bbl 280psi @ 8:49am @ 7.0 bbl/min 5% Excess
20 bbl 320psi @ 8:50am @ 7.0 bbl/min 225 sacks
30 bbl 450psi @ 8:52am @ 6.0 bbl/min 50.89 bbls slurry
38.7 bbl 250psi @ 8:54am @ 1.0 bbl/min 3 bbls slurry to pit
Float collar held.

Left location with - 475 sks, 16oz dye, 11gls KCL

AUTHORIZATION TO PROCEED

TITLE

DATE