

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10203

LOCATION WCR 396+27.5

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-15-11	FIVE RIVERS K 04-20D	4	4N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>SAXON Rig 145</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:50am</u>	TIME LEFT LOCATION <u>10:00am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
<u>12 1/4</u>					
TOTAL DEPTH <u>584</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 534.3</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
<u>577</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING WEIGHT <u>2416</u>	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
CASING CONDITION <u>Good</u>			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM

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 Company Man, Circ 30 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Don't go over 60% Excess with out Talking to Company Man, Drop plug, Displace 34 bbls H₂O, Bump plug at 150 Psi OVER Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, We have 700 SKs, 320z Dye 110 lbs KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 8:27am, Circ 8:34am, Cement 8:42am to 8:59am

Drop plug 9:00am, Displace 9:07am

10 bbls 500 Psi 9:05am 7.0 bbls/min

20 bbls 560 Psi 9:06am 7.0 bbls/min

30 bbls 450 Psi 9:08am 4.5 bbls/min

34 bbls 290 Psi 9:10am 1.0 bbls/min

Bump Plug 510 Psi at 9:10am Float Collar Held

USED 70% EXCESS = 323 SKs, 73.05 bbls Slurry

AVG CEMENT 4.29 bbls/min

Left with 377 SKs, 160z DYE, 8 Qts KCL

24 bbls Slurry To The P.T

[Signature]

8-15-11

AUTHORIZATION TO PROCEED

TITLE

DATE