

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 8788

LOCATION WCR 52+17 1/2

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-29-10	Ehrlich N 34-23D	34	5N	6.7W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>3:30 pm</u>	TIME LEFT LOCATION <u>7:30 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>6076</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 56199</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>601.17</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>32 lb</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE	BREAK-DOWN BPM
CASING CONDITION <u>Good</u>		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM

PRESSURE SUMMARY				<input type="checkbox"/> SOOZE CEMENT	FINAL BPM
BREAKDOWN OF CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP	
MINIMUM	psi			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company man, Circ 34 bbls H₂O with KCL + Dye & 10 in 2 1/2 10 bbls, Mixt pump 30% Excess = 257 Sacks cement, 58 13 bbls Slurry at 152 lb, 1.27 yield or tell Dye is seen Then pump tub only, Drop plug, Displace 342 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, We have 600 Sacks cement, 26 oz Dye, 8 Qts KCL.

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 6:06 pm, Circ 6:31 pm, Cement 6:39 pm, Drop plug 6:54 pm, Displace 6:58 pm

10 bbls 200 Psi 6:58 pm 70 bbls/pm
20 bbls 310 Psi 7:00 pm 70 bbls/pm
30 bbls 300 Psi 7:02 pm 45 bbls/pm
342 bbls 210 Psi 7:07 pm 15 bbls/pm

Bump Plug 320 Psi at 7:07 pm
USED 23% Excess = 243 Sacks 5496 bbls Slurry
Left with 357 Sacks cement, 16 oz Dye, 4 Qts KCL
5 bbls Slurry To The Pit

Charles C. Coney
 AUTHORIZATION TO PROCEED

TITLE

DATE

3-29-10