

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9026
LOCATION WCR 49+30
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-5-10	NOPENS D 19-31	24	3N	61W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:30 AM</u>	TIME LEFT LOCATION <u>8:00 AM</u>

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>672</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
<u>PBTD 622.52</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION	TREATMENT VIA	TUBING	
CASING DEPTH <u>665.64</u>				
CASING WEIGHT <u>24 lb</u>	PACKER DEPTH		TYPE OF TREATMENT	TREATMENT RATE
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
			<input type="checkbox"/> MISC PUMP	
			<input type="checkbox"/> 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 Company Man, Circ 30 bbls H₂O with KCL + Dye x 10 in 2nd 10 bbls, Mix + pump Tell Dye is seen then pump Tub only, at 15.2 lbs 1.27 yield, Drop plug, Displace 39.6 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 OK, WE HAVE 600 SACKS CEMENT, 32 oz. Dye, 23 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 6:07 AM, Circ 6:21 AM, CEMENT 6:27 AM
Drop plug 6:55 AM, Displace 6:56 AM

10 bbls 300 Psi 7:00 AM 7.0 bbls/min
20 bbls 410 Psi 7:02 AM 7.0 bbls/min
30 bbls 480 Psi 7:04 AM 6.0 bbls/min
39.6 bbls 290 Psi 7:06 AM 8.6 bbls/min

Bump Plug 570 Psi at 7:06 AM Psi Held for 5 min
USED 30% EXCESS = 284 SACKS CEMENT, 64.23 bbls Slurry
Left with 316 SACKS CEMENT, 22 oz. Dye 20 Qts KCL
18 bbls Slurry To The Pit

Tam AUTHORIZATION TO PROCEED
Rig Supervisor TITLE
6-5-10 DATE