

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10551

LOCATION WCR 47+16

FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-24-11	SHAKLEE USA X25-020	25	2N	65W	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>3:30 am</u>	TIME LEFT LOCATION <u>7:00 am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1020</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 972.76</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1013.43</u>		TREATMENT VIA			
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH				
CASING CONDITION <u>Good</u>					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			<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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety Meeting, Per Company Man, CIRC 40 bbls H<sub>2</sub>O with KCL, LEAD to COVER 749' AT 20% EXCESS = 282 SKS, 66.29 bbls SLURRY AT 148 lbs 1.32 yield, Tail to COVER 271' shoe AT 0% EXCESS = 100 SKS, 22.61 bbls SLURRY AT 15.2 lbs 1.27 yield, DROP plug, Displace 61.9 bbls H<sub>2</sub>O, Bump plug at 150 PSI over LIFT PSI, wait 5 min then bleed off PSI, Wash up, Rig down, WE HAVE 400 SKS LEAD 200 SKS TAIL, 23 QTS KCL,

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 4:45 am, CIRC 5:15 am, CEMENT 5:23 am to 5:51 am, Drop plug 5:57 am Displace 5:53 am  
10 bbls 210 PSI 5:55 am 7.0 bbls/m  
20 bbls 320 PSI 5:57 am 7.0 bbls/m  
30 bbls 420 PSI 5:58 am 7.0 bbls/m  
40 bbls 520 PSI 6:00 am 7.0 bbls/m  
50 bbls 620 PSI 6:01 am 7.0 bbls/m  
60 bbls 500 PSI 6:03 am 1.0 bbls/m  
61.9 bbls 480 PSI 6:05 am 1.0 bbls/m  
Bump Plug 600 PSI at 6:05 am, Float Collar Held, AVG Cement 3.17 bbls/m  
USED LEAD 20% EXCESS = 282 SKS 66.29 bbls SLURRY, Tail 0% EXCESS = 100 SKS 22.61 bbls SLURRY  
Left with 118 SKS LEAD, 100 SKS TAIL, 19 QTS KCL  
20 bbls SLURRY To The P.T

[Signature]  
AUTHORIZATION TO PROCEED

WSS  
TITLE

10-24-11  
DATE