

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10383

LOCATION WCR 31+4

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE <u>10-1-11</u>	WELL NAME <u>Vista USX LWN 33-170</u>	SECTION <u>33</u>	TWP <u>1N</u>	RGE <u>66W</u>	COUNTY <u>Weld</u>	FORMATION
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>1:05 pm</u>		TIME LEFT LOCATION <u>5:45 pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1436</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1386.7</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1430.33</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2416</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, per Company, Man, Circ 40 bbls H₂O with KCL, Lead-Mix pump 20% Excess to cover 1165' = 438 sks, 102.97 bbls Slurry at 148 lb. 132 yield, Tail mix pump 0% Excess to cover 271' = 100 sks, 22.61 bbls Slurry at 152 lb. 127 yield, Drop plug, Displace 387 bbls H₂O, Bump plug at 150 bbls excess left in, wait 5 min then bleed off psi, Washup, Rig down, H₂O tested good, We have 500 sks Lead, 200 sks Tail, 20 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 3:10 pm, Circ 3:43 pm, Cement 3:50 pm to 4:47 pm Pump Start 4:58 pm Pump Stop 4:47 pm
10 bbls 280 Psi 4:52 pm 70 bbls 700 Psi 5:03 pm 70 bbls 720 Psi 5:04 pm 70 bbls 780 Psi 5:06 pm 6.0 bbls 883 bbls 630 Psi 5:09 pm 1.0 bbls 600 Psi 5:01 pm 70 bbls 700 Psi
Bump Plug 750 Psi at 5:09 pm Flant Collar Held
USED 20% Excess on Lead = 438 sks, 102.97 bbls Slurry
0% Excess on Tail = 100 sks, 22.61 bbls Slurry
Left with 62 sks Lead, 100 sks Tail, 16 qts KCL

30 bbls Slurry To the P.T

AUTHORIZATION TO PROCEED

TITLE

10-1-11

DATE

Customers hereby acknowledge and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity