

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10376

LOCATION WCR 31+4

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE 9-20-11	WELL NAME Vista USX WW 33-070	SECTION 33	TWP 1N	RGE 66W	COUNTY Weld	FORMATION
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR Saxon Rig 145			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 5:30 pm			TIME LEFT LOCATION 11:30 pm			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1426	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1380.48	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 1419.73		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		X SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Cick 40 bbls H₂O with KCL Dye x 16 in 1 1/2" 10 bbls Lead to cover 1155' at 20% Excess = 434 sks, 102.02 bbls Slurry at 14.8 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 87.9 bbls H₂O, Bump plug at 580 Psi over Lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H₂O Tested good, We have 450 sks Lead, 200 sks Tail, 32 oz Dye, 20 qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety Meeting 8:26 pm, Cick 9:03 pm, Cement 9:07 pm, to 9:08 pm
Drop Plug 10:03 pm, Displace 10:04 pm
10 bbls 280 Psi 10:06 pm 7.0 bbls/m 60 bbls 600 Psi 10:15 pm 7.0 bbls/m
20 bbls 300 Psi 10:08 pm 7.0 bbls/m 70 bbls 700 Psi 10:16 pm 7.0 bbls/m
30 bbls 350 Psi 10:10 pm 7.0 bbls/m 80 bbls 750 Psi 10:18 pm 6.0 bbls/m
40 bbls 420 Psi 10:11 pm 7.0 bbls/m 87.9 bbls 550 Psi 10:21 pm 1.0 bbls/m
50 bbls 550 Psi 10:13 pm 7.0 bbls/m
Bump Plug 1060 Psi at 10:21 pm Float Collar Held
Avg Cement 2.96 bbls/m
4500 Lead 20% Excess = 434 sks, 102.02 bbls Slurry, Tail 0% Excess 100 sks, 22.61 bbls Slurry
Left with 16 sks Lead, 100 sks Tail, 16 oz Dye, 16 qts KCL
12 bbls Slurry To The P-T

 AUTHORIZATION TO PROCEED
 TITLE
9-20-11 DATE