

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10373

LOCATION WCR 35+12

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE 9-17-11	WELL NAME CROISSANT USX WW 11-08D	SECTION 11	TWP 1N	RGE 66W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR ENSIGN Rig 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 11:00 am		TIME LEFT LOCATION 5:00 pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1266	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1215.86	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 1259.44		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb.	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			<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 Rigup, Safety meeting, Per Company Man, Circ 40 bbls H₂O with KCL, Lead Mix + pump 20% Excess to Cover 995' = 374 SKs, 87.92 bbls Slurry at 14.8 lbs. 132 yield, Tail mix + pump 0% Excess to Cover 271' + shoe = 100 SKs, 22.61 bbls Slurry at 15.2 lbs. 127 yield, Drop plug, Displace 77.4 bbls H₂O, Bump plug at 500 Psi over Lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H₂O Tested good, We have 400 SKs Lead, 200 SKs Tail, 8 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety Meeting 2:42 pm, Circ 3:05 pm, Cement 3:12 pm to 3:52 pm
Drop Plug 3:54 pm, Displace 3:55 pm
10 bbls 260 Psi 3:58 pm 70 bbls/m 50 bbls 580 Psi 4:05 pm 70 bbls/m
20 bbls 350 Psi 4:00 pm 70 bbls/m 60 bbls 600 Psi 4:06 pm 70 bbls/m
30 bbls 450 Psi 4:01 pm 70 bbls/m 70 bbls 650 Psi 4:08 pm 60 bbls/m
40 bbls 510 Psi 4:03 pm 70 bbls/m 77.4 bbls 490 Psi 4:11 pm 10 bbls/m
Bump Plug 990 Psi at 4:11 pm Float Collar Held
USED LEAD 20% Excess 374 SKs, 87.92 bbls Slurry
Tail 0% Excess 100 SKs, 22.61 bbls Slurry
Avg Cement 2.76 bbls/m
Left with 26 SKs Lead, 100 SKs Tail, 4 Qts KCL
30 bbls Slurry to the Pit

Ed KCP AUTHORIZATION TO PROCEED W.SS TITLE 9-17-11 DATE