

REF. INVOICE # 9752

LOCATION WCR 46.4 29

FOREMAN Daniel Sattman

TREATMENT REPORT						
DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-16-11	Five Rivers KCB-23	8	4N	66W	Weld	
CHARGE TO			OWNER			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION			TIME LEFT LOCATION			
12:15 pm			5:00 pm			
WELL DATA						

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 652.9	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 606.4	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 648.5		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 27#	PACKER DEPTH		1 - SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			1 - PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			1 - SQUEEZE CEMENT		FINAL BPM
			1 - ACID BREAKDOWN		MINIMUM BPM
			1 - ACID STIMULATION		MAXIMUM BPM
			1 - ACID SPOTTING		AVERAGE BPM
			1 - MISC PUMP		
			1 - OTHER		
BREAKDOWN or CIRCULATING psi			AVERAGE psi		HYD HHP = RATE X PRESSURE X 40.8
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, Ps. test, Circ 30 bbls at H₂O well and 100 H₂O over mix & pump 227 SKs of Cement @ 30/10 Excess @ 15.2" @ 1.27 g/cc or until Stopped by Cement. Drop Plug Displace 38.6 bbls at H₂O Bump Plug @ 150 psi over lift psi wait 5 min Release PI wash up Rig Down

Arrived w 750 SKS of cement 4/1 K/L 32oz Dye

62.6 bbls of slurry

DESCRIPTION OF JOB EVENTS

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Safety Meeting	3:22 pm	Clerk	3:37 pm	Canent	3:46 pm
Drop Pkg	4:06 pm	Displace	4:06 pm		

106615 5.0/m 240psi 4:11pm
206618 5.0/m 310psi 4:13pm
306615 3.5/m 390psi 4:15pm
38.66615 1.0/m 280psi 4:20pm
Bump Plug 480psi 4:20pm

Used 269 sks of cement
25% Excess
597 mls of slurry

Left w 968 Sks of Cement 391 at Vol 7602 Dye

6 Nails of Sherry Back

AUTHORIZATION TO PROCEED

TITLE

DATE _____

Customers hereby acknowledges 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