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TREATMENT REPORT

DATE	12-6-11	WELL NAME	Watkins C 12-24	SECTION	12	TWP	4N	RGE	64W	COUNTY	Weld	FORMATION
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CHARGE TO	Noble	OWNER	Noble
Mailing Address			
CITY			
STATE ZIP CODE			
TIME ARRIVED ON LOCATION	3:30 AM		
TIME LEFT LOCATION	8:00 AM		
DISTANCE TO LOCATION			
CONTRACTOR	Saxon Rig 143		
OPERATOR	Noble		

WELL DATA		PRESSURE LIMITATIONS	
HOLE SIZE	12 1/4	THEORETICAL	INSTRUCTED
TUBING DEPTH	1074		
TUBING WEIGHT	PSTD 1026.97		
CASING SIZE	8 5/8		
CASING DEPTH	1070.41		
CASING WEIGHT	2416		
CASING CONDITION	Good		
PACKER DEPTH			
TREATMENT VIA			
TYPE OF TREATMENT		TREATMENT RATE	
TUBING			
STRING			
SURFACE PIPE ANNULLUS LONG			

PRESSURE SUMMARY		TYPE OF TREATMENT	
BREAKDOWN or CIRCULATING	psi	SOEZE CEMENT	FINAL BPM
AVERAGE	psi	ACID BREAKDOWN	MINIMUM BPM
ISIP	psi	ACID STIMULATION	MAXIMUM BPM
5 MIN SIP	psi	ACID SPOTTING	AVERAGE BPM
15 MIN SIP	psi	MISC PUMP	
	psi	OTHER	
MINIMUM	psi	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB
 Rig up, Safety meeting, Rec company, May, Cica 40 bbls, H₂O with KCL, Mix pump lead at 20% excess to cover 803 = 3025 K 70.99 bbls slurry at 14.8 lbs, 1.32 yield, Mix pump Tail at 0% excess to cover 271' shoe = 100 K 22.1 bbls slurry at 15.2 lbs, 1.27 yield, Drop plug, Displace 65.4 bbls H₂O, Bump plug at 150 psi, wait 5 min then bleed off psi, Wash Rig down, H₂O tested good, we have 400 Ks lead, 200 Ks Tail, 8 Qts KCL.

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS
 Safety meeting, 5:39 am, Cica 6.17 am, Cement 6:26 am to 7:01 am
 Drop Plug 7:04 am, Displace 7:05 am
 10 bbls 200 psi 7:07 am 7.0665/m 50 bbls 700 psi 7:14 am 7.0665/m
 20 bbls 240 psi 7:09 am 7.0665/m 60 bbls 700 psi 7:15 am 6.0665/m
 30 bbls 280 psi 7:40 am 7.0665/m 65.4 bbls 400 psi 7:19 am 10.6665/m
 40 bbls 500 psi 7:12 am 7.0665/m
 Bump Plug 550 psi at 7:19 am, Float collar held
 Used lead 20% excess = 302 Ks, 70.99 bbls slurry
 Tail 0% excess = 100 Ks, 22.1 bbls slurry
 Avg Cement 2.67 bbls/m
 Left with 98 Ks lead, 100 Ks Tail, 4 Qts KCL
 13 bbls slurry to the P.T.

DATE	12-6-11	TITLE	Cement
WELL CEMENTING, INC.		WELL CEMENTING, INC.	

Customer 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.