



02530014

CEMENTING, INC.

REF. INVOICE # 8959

LOCATION wells Ranch

FOREMAN Kirk Kallho DP

mile R mile D miles

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## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-19-20	wells Ranch AF0613	6	5N	62W	weld	

CHARGE TO: Noble	OWNER	<div style="border: 2px solid black; padding: 5px; text-align: center;"> <b>RECEIVED</b>   <b>SEP 08 2010</b>   <b>COGCC</b> </div>
MAILING ADDRESS	OPERATOR: Noble	
CITY	CONTRACTOR: Ensign 55	
STATE OF CORE	DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION: 6:30pm	TIME LEFT LOCATION: 11:30pm	

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE: 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH: 580.2	TUBING DEPTH	SKITS/FT	SURFACE PIPE ANNULUS LONG		
PBTD: 527.27	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE: 8 7/8	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE
BREAKDOWN or CHOKING: psi	AVERAGE	psi	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
FINAL DISPLACEMENT: yds	ISIP	psi	<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
ANNULUS	5 MIN SIP	psi	<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
MAXIMUM	15 MIN SIP	psi	<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
MINIMUM		psi	<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER:		HYD/ISIP = RATE X PRESSURE X 4.0 B

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INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, Psi test circ 30 BBLs H2O 2nd W/L Dye misc Pump 246 sks cement at 30% excess at 122' mild at 152' 165' until cement stops up Release Plug Displace 32.1 BBLs H2O, Pump Plug at 132psi over Cifd Psi, wait 5min Release Psi Wash up Rig Down H2O test OK Arrived w/ 575 sks cement 4 gallons Red 1002 Dye 55.4 BBLs slurry

JOB SUMMARY  
 DESCRIPTION OF JOBLEVENTS: Safety meeting 9:34pm circ 10:19pm cement 10:27pm  
 Drop Plug 10:44pm Displace 10:44pm  
 10 BBLs At 5.5 BBLs/min 10:47pm 500psi used 30% excess  
 20 BBLs At 5.5 BBLs/min 10:49pm 520psi used 246 sks cement  
 30 BBLs At 3.5 BBLs/min 10:54pm 350psi 55.4 BBLs slurry  
 32.1 BBL At 1.0 BBLs/min 10:58pm 330psi  
 Pump Plug 10:58pm 490psi

4-19-20  
 AUTHORIZATION TO PROCEED  
 TITLE  
 DATE

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