

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9253
LOCATION Hwy 191 + CR 23
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>8-15-10</u>	WELL NAME <u>Drake 11 18-04</u>	SECTION <u>18</u>	TWP <u>7N</u>	RGE <u>66W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Fort 5</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>11:30 AM</u>		TIME LEFT LOCATION <u>4:30</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>565.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>520.00</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>560.63</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			<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 Rig up, Safety meeting, Psi test to 500psi, Circ 30 bbls of H₂O, 2nd 10/w Dye, mix
And pump 30% Excess 239 sks of Cement @ 152 lb @ 1.27 yield or until stopped by Cement + 5
bbls of mix to get 10 bbls of Slurry top it, Drop Plug Displace 33.1 bbls of H₂O Bump Plug @ 150psi
over 1.44 Psi, wait 5 min Release Psi, washup Rig Down H₂O test OK
Arrive w 550 sks of Cement 49 lb KCL 32oz Dye 54 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 2:39pm Circ 2:54pm Cement 3:03pm
Drop Plug 3:25pm Displacement 3:25pm

<u>10 bbls 5.0/m</u>	<u>200 psi</u>	<u>3:33 pm</u>	<u>used 257 sks of Cement</u> <u>39% Excess</u> <u>57.7 bbls of Slurry</u>
<u>20 bbls 5.0/m</u>	<u>280 psi</u>	<u>3:36 pm</u>	
<u>30 bbls 2.5/m</u>	<u>270 psi</u>	<u>3:39 pm</u>	
<u>33.1 bbls 1.0/m</u>	<u>200 psi</u>	<u>3:42 pm</u>	
<u>Bump Plug</u>	<u>390 psi</u>	<u>3:42 pm</u>	

Left w 293 sks of Cement 39 lb KCL 22oz Dye

13 bbls to pit

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledge and specifically agree 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