

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10337

LOCATION WCC #34 +53

FOREMAN Mike Roskel
L.R. Mark

TREATMENT REPORT

DATE <u>9-11-11</u>	WELL NAME <u>HIPO D-27-230</u>	SECTION <u>27</u>	TWP <u>3N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Ensign 121</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>2:10 PM</u>		TIME LEFT LOCATION				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>850</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>782.82</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>827.5</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>21 LBS</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up. Safety meeting, PSI TEST, Circulate 50 BBLs H₂O / KCL mix 2nd 10 Dept
pump 360 sks cement (30% excess) yield 1.27 qt/15.2 LBS or until Company man stops us. NO
more than 30 excess per Company man. Release Plug + Displace 49.8 BBLs H₂O Bump Plug 150 PSI over 1st
Unit 5 min Release PSI, Wash up Rig Down H₂O Test
Arrived with 375 sks Cement 3 gal KCL 16 oz Dye Slurry 81.4

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 10:15 PM Circulate 1022 PM Cement 10:46 PM
DROP Plug 11:18 PM Displace 11:21 PM

<u>10 BBLs 4+40 BBLs m</u>	<u>11:23 pm 120 PSI</u>	<u>used 13 % Excess</u>
<u>20 BBLs 4+40 BBLs m</u>	<u>11:26 pm 160 PSI</u>	<u>used 314 sks Cement</u>
<u>30 BBLs 4+40 BBLs m</u>	<u>11:32 pm 220 PSI</u>	<u>Slurry 71.0</u>
<u>40 BBLs 4+20 BBLs m</u>	<u>11:39 pm 310 PSI</u>	
<u>49.8 BBLs 4+10 BBLs m</u>	<u>11:50 pm 440 PSI</u>	
<u>Bump 11:50</u>	<u>590 PSI</u>	

Left with 261 sks Cement / gal KCL 16 oz Dye BBLs Back 13

[Signature] 9-11-11
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.