

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10358
LOCATION Guttersen
FOREMAN Milk Rosale
L.R. Marks

TREATMENT REPORT

DATE <u>10-18-11</u>	WELL NAME <u>Liam D-34-33</u>	SECTION <u>34</u>	TWP <u>3</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 55</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>3:45</u>		TIME LEFT LOCATION				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>863</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>810.28</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>855.63</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>241BS</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, SATT meeting, PSE TEST, Circulate 50 BBls H₂O/KCL mix 2nd 10 Dye
mix + Pump 365 SKS Cement (30% Excess) yield 1.27 qt 15-21BS or until Comping men stopper
is: Release Plug Displace 51.43BS H₂O Bump Plug at 150 PSI over lift. Release PBI ctt 5 min
NASH up Rig Down H₂O TEST

Arrived with 575 SKS 20 gals of KCL 1602 Dye Slurry 82
JOB SUMMARY
DESCRIPTION OF JOB EVENTS SATT meeting 8:17 Circulate 8:34 PM Cement 8:46 PM
DROP Plug 9:16 PM Displace 9:16 PM

<u>10 BBls at 5-5 BBls/m</u>	<u>9:18 PM</u>	<u>330 PSI</u>	<u>used 19 % Excess</u>
<u>10 BBls at 5-5 BBls/m</u>	<u>9:21 PM</u>	<u>380 PSI</u>	<u>used 336 SKS Cement</u>
<u>30 BBls at 4-5 BBls/m</u>	<u>9:24 PM</u>	<u>420 PSI</u>	<u>75 Slurry</u>
<u>10 BBls at 4-5 BBls/m</u>	<u>9:27 PM</u>	<u>500 PSI</u>	
<u>10 BBls at 3-5 BBls/m</u>	<u>9:29 PM</u>	<u>450 PSI</u>	
<u>11.6 BBls at 1-5 BBls/m</u>	<u>9:31 PM</u>	<u>650 PSI</u>	<u>BBls BACK</u>
<u>Bump Plug</u>			<u>27</u>
<u>(Ident Hold Flow Collar)</u>			
<u>Hit with 239 SKS Cement 11 gals KCL & Dye</u>			

82 ONE COMPANY MAN 10-18-11
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