

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10356  
 LOCATION WCR 57 + 42  
 FOREMAN Mike Rosalez  
L.R. Marks Robe

## TREATMENT REPORT

DATE <b>10-14-11</b>	WELL NAME <b>Sater</b>	SECTION <b>14</b>	TWP <b>23</b>	RGE <b>64W</b>	COUNTY <b>Weld</b>	FORMATION
CHARGE TO <b>Noble</b>		OWNER				
MAILING ADDRESS		OPERATOR <b>Noble</b>				
CITY		CONTRACTOR <b>H+P 322</b>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <b>4:50 PM</b>		TIME LEFT LOCATION <b>12:30</b>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <b>13 3/4</b>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <b>681</b>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<b>PBTD 632</b>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <b>9 5/8</b>	TUBING CONDITION		TUBING		
CASING DEPTH <b>676</b>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <b>36 LBS</b>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <b>Good</b>			<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, Sattymetry, PSE Test Circulate 50 BBLs H<sub>2</sub>O/KCL mix 2nd 10 Dye mix + Pump 367 Sks Cement (30% Excess) yield 1.27 at 15-2 LBS or unt: 1 Compagnon stops vs: Release Plug Displace 48 BBLs H<sub>2</sub>O, Bump Plug 200 PSE over lift wait 5 min Release PSE Wash up Rig Down H<sub>2</sub>O Test Good

Arr Arrived with 575 Sks Cement 8 gts of KCL 16 oz Dye Slurry 83  
 JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS Sattymetry 10:15 PM Circulate 10:30 PM Cement 10:42 PM  
Drop Plug 11:21 PM Displace 11:21 PM

10 BBLs at 5-5 BBLs/m 11:24 PM 260 PSE used 33 % Excess  
20 BBLs at 5-5 BBLs/m 11:26 PM 310 PSE used 377 Sks Cement  
30 BBLs at 5-5 BBLs/m 11:28 PM 410 PSE 85 Slurry  
40 BBLs at 3-5 BBLs/m 11:31 PM 370 PSE  
48 BBLs at 1-5 BBLs/m 11:35 PM 350 PSE  
Bump Plug 11:35 PM 500 PSE

Left with 198 Sks Cement 3 gts KCL 0 oz Dye  
BBB BAKKHOPT  
12

Roger Foster AUTHORIZATION TO PROCEED  
WSS TITLE  
10-14-11 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