

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8993  
LOCATION WCR 122+ Hwy 390  
FOREMAN Calvin Reimers

## TREATMENT REPORT

DATE <u>5-30-10</u>	WELL NAME <u>Shable PC GK 19-99HZ</u>	SECTION <u>19</u>	TWP <u>11N</u>	RGE <u>61W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H+P Rig 315</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1:50pm</u>		TIME LEFT LOCATION <u>8:00am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1470</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1416.77</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1460</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> MISC PUMP		
MINIMUM psi			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, per Company Man, Circ 50 bbls H<sub>2</sub>O with KCL, Lead Mix + pump 50% Excess to cover 950' = 445 Sacks cement, 133.9 bbls Slurry at 13.1 lbs. 1.69 yield, Tail 20% Excess to cover 510' + Shre = 272 Sacks cement, 61.5 bbls Slurry at 15.2 lbs. 1.27 yield, Drop plug, Displace 109.5 bbls H<sub>2</sub>O, Pump plug at no more than 500 Psi over lift P, Wait 5 min. then bleed off Psi, Wash up, Rig down, H<sub>2</sub>O Tested good, We have 1150 Sacks cement, 31 qts KCL, Pump Slurry at 8 bbls/m, Pump Displace at 7 bbls/m, Dye x 10 in 12 10 bbls, 32 oz Dye

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 4:48 am, Circ 5:14 am, Cement 5:23 am, Drop plug 6:23 am, Displace 6:25 am  
10 bbls 200 Psi 6:30 am 70 bbls/m 70 bbls 570 Psi 6:41 am 70 bbls/m  
20 bbls 230 Psi 6:31 am 70 bbls/m 80 bbls 660 Psi 6:42 am 70 bbls/m  
30 bbls 270 Psi 6:33 am 70 bbls/m 90 bbls 710 Psi 6:44 am 70 bbls/m  
40 bbls 330 Psi 6:35 am 70 bbls/m 100 bbls 680 Psi 6:46 am 60 bbls/m  
50 bbls 400 Psi 6:37 am 70 bbls/m 109.5 bbls 560 Psi 6:51 am 8 bbls/m  
60 bbls 460 Psi 6:39 am 70 bbls/m Did not Bump Plug, Psi Held for 5 min  
Lead 50% Excess = 445 Sacks, 133.9 bbls Slurry, Tail 272 Sacks, 61.5 bbls Slurry  
USED at Total of 717 Sacks cement,  
Left with 433 Sacks cement, 22 oz Dye, 26 qts KCL,

56 bbls Slurry To The Pit

[Signature]  
AUTHORIZATION TO PROCEED

Well Site Supervisor  
TITLE

5-30-10

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.