

# BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 10368

LOCATION WCR 57+42

FOREMAN Calvin Reimers

## TREATMENT REPORT

DATE <u>9-12-11</u>	WELL NAME <u>SATER C 26-67HN</u>	SECTION <u>23</u>	TWP <u>4N</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>H&amp;P Rig 322</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>11:00 am.</u>		TIME LEFT LOCATION <u>8:15 pm.</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>680</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 632.8</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>674.56</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb.</u>	PACKER DEPTH		[X] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SOOZE 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

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Circ 50 bbls H<sub>2</sub>O with KCL + Dye x 16 in 2<sup>nd</sup> 10 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 lbs 127 yield, Don't go over 30% Excess without Talking to Company Man, Drop plug, Displace 489 bbls H<sub>2</sub>O, Bump plug at 500 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down, H<sub>2</sub>O Tested good, We have 700 sks, 3202 Dye, 10 Qts KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 6:18 pm, Circ 6:45 pm, Cement 6:54 pm to 7:16 pm

Drop Plug 7:19 pm, Displace 7:21 pm  
10 bbls 250 Psi 7:23 pm 7.0 bbls/m  
20 bbls 300 Psi 7:25 pm 7.0 bbls/m  
30 bbls 390 Psi 7:26 pm 7.0 bbls/m  
40 bbls 410 Psi 7:28 pm 6.0 bbls/m  
489 bbls 250 Psi 7:32 pm 1.0 bbls/m  
Bump Plug 730 Psi at 7:32 pm Float Collar Held  
USED 28% Excess = 361 sks, 81.65 bbls Slurry  
Left with 339 sks, 16 oz Dye 5 Qts KCL  
Avg Cement 3.71 bbls/m  
5 bbls Slurry to the P.T

Roger Foster

AUTHORIZATION TO PROCEED

WSS

TITLE

9-12-11

DATE