

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9362  
LOCATION WCR 44+31  
FOREMAN Calvin Reimers

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-22-10	McWilliams 15-3-17	15	4N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN Rig 55</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>2:15 A.M.</u>	TIME LEFT LOCATION <u>12:30 P.M.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>535</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULLUS LONG		
<u>PBTD 478.88</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>522.74</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
			<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
			<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
			<input type="checkbox"/> 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 30 bbls H<sub>2</sub>O with KCL + Dye x 10 in 2nd 10 bbls, Mix pump tell Dye is seen then mix 5 bbls Slurry + tub at 152 lbs. 1.27 yield, Drop plug, Displace 30.5 bbls. Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min, then bleed off Psi, Washup, Rig down, H<sub>2</sub>O tested good, We have 600 sacks cement, 32 oz. Dye, 15 Qts. KCL, Rig to Circ at more then 7 bbls/m to pop out tabs on float collar,

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 10:45 am, Circ 11:07 am, Cement 11:16 am to 11:40 am, Drop plug 11:41 am, Displace 11:42 am

10 bbls 300 Psi 11:46 am 7.0 bbls/m  
20 bbls 400 Psi 11:48 am 7.0 bbls/m  
30.5 bbls 300 Psi 11:51 am 1.0 bbls/m  
Bump Plug 450 Psi at 11:51 am Psi held for 5 min  
USED 117% EXCESS = 378 sacks, 85.49 bbls Slurry  
Left with 222 sacks, 22 oz. Dye, 12 Qts KCL  
Avg cement rate 3.56 bbls/m

27 bbls Slurry To the PiT

AUTHORIZATION TO PROCEED

TITLE

11-22-10

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