

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9349  
LOCATION WCR 64+59  
FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-30-10	State A 36-99 HZ	36	6N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>H&amp;P Rig 315</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:15 a.m.</u>	TIME LEFT LOCATION <u>5:00 p.m.</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 630.06</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>673.27</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				PRESSURE LIMITATIONS	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MINIMUM psi			<input type="checkbox"/> MISC PUMP		
			<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 H<sub>2</sub>O with KCL + Dye x 10 in 2<sup>nd</sup> 10 bbls, Mix + pump a min of 0% excess = 292 Sacks, 66 bbls Slurry, to a max of 30% excess = 375 sacks, 84.8 bbls Slurry at 15.2 lbs. 1.27 yield, Drop plug, Displace 48.7 bbls H<sub>2</sub>O, Bump plug at 500 Psi over Lift Psi, Wait 5 min. then Bleed off Psi, Washup, Rig down, H<sub>2</sub>O Tested good, We have 700 Sacks CEMENT, 32 oz. DYE, 20 Qts KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 2:11 pm, Circ 3:06 pm, Cement 3:16 pm

Drop Plug 3:41 pm, Displace 3:45 pm

10 bbls 300 Psi 3:48 pm 6.0 bbls/m

20 bbls 350 Psi 3:50 pm 6.0 bbls/m

30 bbls 420 Psi 3:52 pm 6.0 bbls/m

40 bbls 500 Psi 3:53 pm 5.0 bbls/m

48.7 bbls 300 Psi 4:00 pm 1.0 bbls/m

Bump Plug 900 Psi at 400 pm Psi held for 5 min

USED 0% EXCESS = 292 SACKS, 66 bbls SLURRY

Left with 408 Sacks cement, 22 oz. DYE, 15 Qts KCL,

AVG. Cement 250 Psi

AVG Displace 400 Psi 8 bbls Slurry To The P.T

*[Signature]*

AUTHORIZATION TO PROCEED

*[Signature]*

TITLE

10-30-10

DATE