

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10155

LOCATION WCR 55+36

FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-5-11	TANA D 11-27D	2	3N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H&P Rig 343
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:10pm.	TIME LEFT LOCATION 11:30pm.

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 720	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 671.80	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 715.14		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
CASING WEIGHT 24 lb.	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION Good			<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	

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 40 bbls H<sub>2</sub>O with KCL + Dye x 10 in 2nd 10 bbls, Mix + pump tell Dye is seen then 10 bbls Slurry + Tub at 152 lb. 1.27 yield not to go over 30% Excess with out Talking to Company Man, Drop Plug, Displace 42.7 bbls H<sub>2</sub>O, Bump plug at 150 Psi over lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H<sub>2</sub>O Tested good, We have 700 SKs, 32 oz Dye, 11 Qts KCL

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:42pm, Circ 10:06pm, Cement 10:13pm to 10:27pm

Drop plug 10:31pm, Displace 10:33pm

10 bbls 400 Psi 10:36pm 7.0 bbls/m

20 bbls 480 Psi 10:37pm 7.0 bbls/m

30 bbls 580 Psi 10:39pm 7.0 bbls/m

40 bbls 480 Psi 10:41pm 4.5 bbls/m

42.7 bbls 400 Psi 10:42pm 1.0 bbls/m

Bump Plug 690 Psi at 10:42pm. Float Collar Held

USED 30% Excess = 305 SKs, 68.98 bbls Slurry

AVG CEMENT 492 bbls/m

Left with 39.5 SKs, 22 oz Dye, 7 Qts KCL

10 bbls Slurry To The P.T

*Demetrius Rahl*

CO. REP

6-5-11

AUTHORIZATION TO PROCEED

TITLE

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