

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10385

LOCATION WCR 31+6

FOREMAN Calvin Reimers

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-3-11	Ritchey USX WW 27-04	27	1N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>2:00 AM</u>	TIME LEFT LOCATION <u>8:15 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1430</u>	TUBING DEPTH	SHOTS/FT			
<u>PBTD 1379.66</u>	TUBING WEIGHT	OPEN HOLE			
CASING SIZE <u>8 5/8</u>	TUBING CONDITION				
CASING DEPTH <u>1422.73</u>		TREATMENT VIA			

CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		TYPE OF TREATMENT	TREATMENT RATE
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
			<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, Lead Mix pump 20% Excess to cover 1159' = 435 sks, 102.26 bbls Slurry at 14.8 lbs, 1.32 yield, Tail Mix + pump 0% Excess to cover 271' + shoe = 100 sks, 22.61 bbls Slurry at 15.2 lbs 1.27 yield, Drop plug, Displace 878 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 450 sks LEAD, 200 sks TAIL, 11 Qts KCL,

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 6:20 am, Circ 6:40 am, Cement 6:48 am to 7:23 am,

Drop Plug 7:24 am, Displace 7:25 am,  

10 bbls 290 Psi 7:28 am 7.0 bbls/hr	60 bbls 700 Psi 7:35 am 7.0 bbls/hr
20 bbls 400 Psi 7:29 am 7.0 bbls/hr	70 bbls 790 Psi 7:37 am 7.0 bbls/hr
30 bbls 510 Psi 7:31 am 7.0 bbls/hr	80 bbls 850 Psi 7:38 am 6.0 bbls/hr
40 bbls 600 Psi 7:32 am 7.0 bbls/hr	878 bbls 700 Psi 7:41 am 1.0 bbls/hr
50 bbls 650 Psi 7:34 am 7.0 bbls/hr	

Bump Plug 1320 Psi at 7:41 am Float Collar Held  
USED 20% EXCESS ON LEAD = 435 sks, 102.26 bbls Slurry, 0% EXCESS ON TAIL 100 sks 22.61 bbls Slurry, AVG Cement 4.97 bbls/hr  
LEFT WITH 15 sks LEAD, 100 sks TAIL, 7 Qts KCL  
45 bbls Slurry To The Pit

Michael Magnus 10-3-11  
AUTHORIZATION TO PROCEED TITLE DATE