

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10161

LOCATION Wells Ranch

FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-13-11	Wells Ranch PCAA 22-05	22	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade Rig 21</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>9:50 pm</u>	TIME LEFT LOCATION <u>4:30 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>651</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 602.03</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>645.83</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>2416</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
				BREAKDOWN BPM	
				INITIAL BPM	
				FINAL BPM	
				MINIMUM BPM	
				MAXIMUM BPM	
				AVERAGE BPM	
				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 16 in 2<sup>nd</sup> 10 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 lbs, 1.27 yield, Do not go over 30% Excess without Talking to Company Man, Drop plug, Displace 38.3 bbls H<sub>2</sub>O, Bump plug at 150 Psi over Lift Pij, Wait 5 min then bleed off Psi, Wash up, Rig down, H<sub>2</sub>O Tested good, We have 700 sks, 32 oz Dye, 21 qts KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 2:48 am, Circ 3:18 am, Cement 3:24 am to 3:34 am

Drop plug 3:35 am, Displace 3:36 am

10 bbls 250 Psi 3:38 am 7.0 bbls/m

20 bbls 310 Psi 3:39 am 7.0 bbls/m

30 bbls 400 Psi 3:41 am 6.0 bbls/m

38.3 bbls 360 Psi 3:46 am 1.0 bbls/m

Bump Plug 580 Psi at 3:46 am Float Collar Held

USED 10% EXCESS = 233 SKS, 52.7 bbls Slurry

AVG CEMENT 5.27 bbls/m

Left with 467 sks, 16 oz Dye, 17 qts KCL

1 bbls Slurry To The P.T

*[Signature]*

AUTHORIZATION TO PROCEED

TITLE

6-13-11

DATE