

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9510

LOCATION cr 43-40

FOREMAN Kirk Kallhoff

m. v. R. Tucker, Guy A

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-7-10	Frazier 33-15	33	4N	6SW	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:00am	TIME LEFT LOCATION 7:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 586	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBSO 531.05	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 576.22		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2415	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			BREAKDOWN BPM		

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi	ISIP psi	5 MIN SIP psi	15 MIN SIP psi	HYD HHP = RATE X PRESSURE X 40.8
FINAL DISPLACEMENT psi					
ANNULUS psi					
MAXIMUM psi					
MINIMUM psi					

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Bit test, Circ 30 BBLs H<sub>2</sub>O 2.104 Dye, mixing Pump 248 SKS cement at 30% excess at 1.27 yield out 152 lbs cement. Release Plug Displace 33.8 BBLs H<sub>2</sub>O Pump Plug at 150 psi over Lifted Psi with 5 min Release Psi. Wash up Rig Down H<sub>2</sub>O test OK

Arrived w/ 650 SKS cement 4 gallons Kcl 1600 Dye 52.6 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 5:15am Circ 6:05am cement 6:15am

Drop Plug 6:134am Displace 6:134am

16 BBLs at 5.5 BBLs/m 6:138am 440psi

20 BBLs at 5.5 BBLs/m 6:140am 470psi

30 BBLs at 2.5 BBLs/m 6:143am 300psi

33.8 BBLs at 1.0 BBLs/m 6:146am 260psi

Pump Plug 6:146am 470psi

used 60% excess

used 307 SKS cement

68.9 BBLs slurry

L Plug 343 SKS cement 3 gallons 1st Kcl 602 Dye

13 BBLs Back 25

AUTHORIZATION TO PROCEED

TITLE

DATE

11-7-10

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