

# BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202  
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## TREATMENT REPORT

DATE	4-18-12	WELL NAME	RET HQ9 - 31D	SECTION	9	TWP	3N	RGE	65W	COUNTY	Weld	FORMATION
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CHARGE TO	Noble	OWNER	
MALING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensinger 136
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	6:30	TIME LEFT LOCATION	12:30 AM

PRESSURE LIMITATIONS	
THEORETICAL	INSTRUCTED
TREATMENT RATE	

WELL DATA	
HOLE SIZE	12 1/4
TUBING DEPTH	747
TUBING WEIGHT	691.6
TUBING CONDITION	856
CASING DEPTH	737
CASING WEIGHT	241bs
CASING CONDITION	Good
PRESSURE SUMMARY	
BREAKDOWN OR CIRCULATING	psi
AVERAGE	psi
ISIP	psi
ACID STIMULATION	psi
ACID BREAKDOWN	psi
SOEZE CEMENT	psi
PRODUCTION CASING	psi
SURFACE PIPE	psi
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
ACID SPOTTING	
MISC PUMP	
OTHER	
HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB	
Rig up safety meeting, PST test, per company circ 40 BBLs KCL H2O, 2nd 10 W/Dye, mix & pump 316 SKS cement at 30% excess, at 127 yds of 150 lbs or until stopped by 0 man, release plug Drop 44 BBLs H2O, bump plug 150 PSI over lift PST, wait 5 min release PST, wait 120 tested ok	
Job Summary	
Arrived by 650 SKS cement 4 gal KCL 16 oz Dye.	
71.4 BBLs slurry.	
DESCRIPTION OF JOB EVENTS	
Drop plug 11:23 pm Displace 11:23 pm	
10 BBLs AT 6 BBLs/min 11:24 pm at 200 PSI	
20 BBLs AT 6 BBLs/min 11:27 pm at 400 PSI	
30 BBLs AT 6 BBLs/min 11:28 pm at 500 PSI	
40 BBLs AT 2.5 BBLs/min 11:29 pm at 550 PSI	
44 BBLs AT 1 BBLs/min 11:30 pm at 550 PSI	
Bump Plug AT 11:30 700 PSI	

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Bump Plug AT 11:30 700 PSI	
Left w/ 358 SKS cement 3 gal KCL 60 oz Dye	
17 BBLs Back	
DATE	
4-18-12	
TITLE	
AUTHORIZATION TO PROCEED	

Customers hereby acknowledge and specifically agree 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.