

# BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102  
Denver, Colorado 80202  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10771

LOCATION 49-38

FOREMAN Kirk Kallhoff  
Tucker Darlo

## TREATMENT REPORT

DATE 12-21-11	WELL NAME Ogema C31-20D	SECTION 31	TWP 4N	RGE 6W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 10:30pm		TIME LEFT LOCATION 2:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 708	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 653.68	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 698		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		1 SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SQUEEZE CEMENT		FINAL BPM
			[ ] ACID BREAKDOWN		MINIMUM BPM
			[ ] ACID STIMULATION		MAXIMUM BPM
			[ ] ACID SPOTTING		AVERAGE BPM
			[ ] MISC PUMP		
			[ ] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Ps. test, Per Coman circ 403 bbls RCL H2O 2nd 104 Dye, mix & Pump 300 sks cement at 1:27 yield at 15.2 lbs, cement 11 stopped By Coman, no more than 50% excess, Release Pkg Displace 41.7 BBLs H2O, Bump Pkg At 150 psi or List Psi, wait 5 min Release Psi, wash up Rig Down H2O test OK  
Arrived w/ 575 sks cement 11 gal RCL 1602 Dye 67.8 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 12:22am circ 12:44am cement 12:51am  
Dye Pkg 1:07am Displace 1:07am  
10 BBLs At 60 BBLs/min 1:09am 120psi used 10% excess  
20 BBLs At 60 BBLs/min 1:10am 250psi used 254 sks cement  
30 BBLs At 60 BBLs/min 1:12am 350psi 57.4 BBLs slurry  
40 BBLs At 10 BBLs/min 1:15am 200psi  
41.7 BBLs At 10 BBLs/min 1:16am 270psi  
Bump Pkg 1:46am 410psi

Left w/ 321 sks cement 3 gal RCL 602 Dye

BBLs Back 10

AUTHORIZATION TO PROCEED

TITLE

DATE 12-21-11

Customer 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