

# 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 # 10765

LOCATION WCR 49-46

FOREMAN Pgt Nowd

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-16-11	NEL C 18-22D	18	4N	64W	WYD	

CHARGE TO NOBLE	OWNER
MAILING ADDRESS	OPERATOR NOBLE
CITY	CONTRACTOR ENSIGN RIGS
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:50 PM	TIME LEFT LOCATION 1:30 AM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 713	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 659	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 3/8	TUBING CONDITION			TUBING	
CASING DEPTH 703		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24#	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION GOOD			<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, SATISFACTORY PER COMPANYMAN CIRC 40 BBLS H2O W/ KCL DYE IN 2ND 10 MIX & PUMP TILL DYE IS SEEN THEN PUMP TUB ONLY & GET 15.2 LBST 1.27 YKLD DONT GO OVER 20% W/ KCL OUTTACKING TO COMPANYMAN DROP PLUG DISPLACE 47 BBLS H2O BUMP PLUG 150 PSI OVER LIFT PRESSURE WAIT 5 MINUS RELEASE PSI WASHUP RIG DOWN H2O TESTED GOOD venturi 650SIS 3200 DYE 15% IS KCL

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS SATISFACTORY CIRC 12:05 AM CEMENT 12:15-12:31

DROP PLUG 12:31 DIS 12:35

10 12:37 210 PSI

20 12:39 260 PSI

30 12:41 380 PSI

40 12:45 270 PSI

48 12:50 270 PSI

BUMP PLUG 270 PSI AT 12:50 AM FLOST COLLAR HELD

USED 4% EXCESS 2435KLS, 55 BBLS SLURRY

LEFT WITH HOT SKS 1602. DYE 11 QTS KCL

8 BBLS BACK TO PIT

*John M. Taylor*  
AUTHORIZATION TO PROCEED

TITLE

DATE

12/16/11