

# 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 # 10297

LOCATION 47-16

FOREMAN Kirk R  
mike marks L.R.

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-25-11	Powers x22-04	22	2	65W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Cade 21
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:45 AM	TIME LEFT LOCATION 12:00 PM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 916	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 866.47	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

CASING DEPTH 909.27	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH	4-18 SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION Good		[ ] PRODUCTION CASING	INITIAL BPM

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi	[ ] SQUEEZE CEMENT		FINAL BPM	
FINAL DISPLACEMENT psi	ISIP psi	[ ] ACID BREAKDOWN		MINIMUM BPM	
ANNULUS psi	5 MIN SIP psi	[ ] ACID STIMULATION		MAXIMUM BPM	
MAXIMUM psi	15 MIN SIP psi	[ ] ACID SPOTTING		AVERAGE BPM	
MINIMUM psi		[ ] MISC PUMP			
		[ ] OTHER			HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PSI Test, Circulate 50 BBLs H<sub>2</sub>O/KCL mix, 2nd 10 Pgs. mix and Pump 387 sks Cement (30% excess) yield 1.27 at 15.2 lbs, or until 50 pgs. by company man. No more than 30% excess per company man. Release Plug and Displace 55.1 BBLs H<sub>2</sub>O Pump Plug at 150 PSI. Over 1 ft BE wait 5 min Release PSI wash up Rig Down H<sub>2</sub>O Test Load. Arrived with 750 sks Cement 3 gal KCL 1602 Dye Slurry 87.5

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:44 AM Circulate 10:18 AM Cement 10:29 AM  
Drop Plug 10:58 AM Displace 10:58 AM

10 BBLs at 5-0 BBLs/m	11:01 AM	260 PSI	Used 87.3% excess
20 BBLs at 5-0 BBLs/m	11:03 AM	300 PSI	Used 386 sks Cement
30 BBLs at 5-0 BBLs/m	11:05 AM	390 PSI	87.3% slurry
40 BBLs at 5-0 BBLs/m	11:07 AM	490 PSI	
50 BBLs at 5-0 BBLs/m	11:13 AM	500 PSI	
55.1 BBLs 1-0 BBL/m out	11:15 PM	450 PSI	
Pump Plug 11:15 at	610 PSI		

Left with 344 sks Cement 2 gal 3ats & Dye BBLs Back to Surface 8

AUTHORIZATION TO PROCEED

TITLE

DATE

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.