

# 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 # 9594

LOCATION 32-13

FOREMAN Kirk Kallhoff  
Mike R, James D

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-2-11	Se Rich P19-18D	19	3N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:00am</u>	TIME LEFT LOCATION <u>7:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>930</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>878.16</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

TYPE OF TREATMENT			TREATMENT RATE		
CASING DEPTH <u>923.21</u>	TREATMENT VIA		SURFACE PIPE		BREAKDOWN BPM
CASING WEIGHT <u>2416</u>	PACKER DEPTH		[ ] PRODUCTION CASING		INITIAL BPM
CASING CONDITION <u>good</u>			[ ] SQUEEZE CEMENT		FINAL BPM

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

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test, circ 50 bbls H2O and 10 gal dye, mix 393 sks cement at 30% excess at 1.27 yield at 152 lbs or until cement steps up, Release Plug Displace 55.9 BBLs H2O, Bump Plug at 150 psi over Lift psi wait 5 min Release psi wash up Rig Down  
H2O test OK  
88.8 BBLs slurry  
Arrived w/ 650 sks cement 4 gallons Kel 16 oz dye

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 5:00pm circ 5:32pm cement 5:44pm  
Drop Plug 6:14pm Displace 6:14pm

10 BBLs at 5.5 BBLs/m 6:16pm 340psi used 53% excess  
20 BBLs at 5.5 BBLs/m 6:18pm 550psi used 464 sks cement  
30 BBLs at 5.5 BBLs/m 6:20pm 560psi 104.5 BBLs slurry  
40 BBLs at 5.5 BBLs/m 6:22pm 660psi  
50 BBLs at 3.5 BBLs/m 6:25pm 750psi  
55.9 BBLs at 1.0 BBLs/m 6:28pm 540psi  
Bump Plug 6:28pm 600psi

6 Fdw/186 sks cement 2 gallons 3 qts Kel 6 oz dye 13 BBLs Back 2

1-2-11  
AUTHORIZATION TO PROCEED \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.