

# BISON OIL WELL CEMENTING, INC.



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E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10249

LOCATION Hwy 34 24<sup>th</sup>

FOREMAN Kirkkaillho RF  
mike R CR marks

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-14-11	Williams F15-17D	15	5N	65W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 12:00am	TIME LEFT LOCATION 12:15 P.M.

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 687.5	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 632	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 677		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	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 Big up, safety meeting, Psited, circ 400 SKS KCL H2O and 10% Dye, mix Pump 291 SKS cement at 30% excess at 127 yd at 15.2 lbs, until cement stops us no more than 80% excess per cement, Release Plug Displace 40.2 BBLs A20, Bump Plug at 150 psi over Lift Psi, wait 5 min Release Psi, wash up, Rig Down  
H2O test OK

Arrived w/ 575 SKS cement 9 gal KCL 16oz Dye 65.8 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 10:09 AM circ 10:33 A.M cement 10:43 A.M  
Drop Plug 11:15 AM Disp 11:15 AM  
10 BBLs at 4.5 BBLs/m 11:18 A.M 400 PSI used 113% excess  
20 BBLs at 4.5 BBLs/m 11:20 AM 420 PSI used 478 SKS Cement  
30 BBLs at 3.5 BBLs/m 11:22 A.M 340 PSI 108.1 slurry  
40 BBLs at 1.0 BBLs/m 11:28 A.M 290 PSI  
40.2 BBLs at 1.0 BBLs/m 11:28 AM 290 PSI  
Bump Plug 11:28 AM 450 PSI

Lift w/ 97 SKS Cement 3 gal KCL 0 Dye BBLs Back 18

(Paul W. Dean) Noble Consultant 8-14-11

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.