

BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202
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E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10245

LOCATION 46-61

FOREMAN Rich Kallha FP
miller LR marks

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-8-11	Sater CC 18-23	18	4N	63W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:15 Am	TIME LEFT LOCATION 2:30pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 573	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 521.22	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 566.92		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[X] 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

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, Safety meeting, PSI Test, Circ 30 BBLs, KCL H2O 2nd w/ Dye, mix + Pump
243 sks Cement at 30% Excess at 1:27 yell at 15.2 lbs on until 10 min steps use, No more
then 50% excess Per Comp man, Release Plug, Displace 33.2 BBLs H2O Bump Plug at 150 PSI
over left PSI wait 5 min Release PSI, Wash up Rig Down H2O Test OK
Arrived with 575 sks Cement 4 gal. KCL 1602 Dye 54.9 BBLs Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:45am Circ 1:10am Cement 1:18am
DRUP Plug 1:38am Displace 1:38am

10 BBLs at 5.0 BBLs/m 1:41am 280psi used 20% Excess
20 BBLs at 5.0 BBLs/m 1:43am 350psi used 224 sks cement
30 BBLs at 2.5 BBLs/m 1:46am 270psi 50.6 BBLs slurry
33.2 BBLs at 1.0 BBLs/m 1:48am 240psi
Bump Plug 1:48am 490psi

LFT with 351 sks cement 3 gal 1602 Dye BBLs Back 10

John M Taylor
AUTHORIZATION TO PROCEED

TITLE

8-8-2011

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