

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9231

LOCATION C 72-25

FOREMAN Kirk Kallers  
Miller R Turke & Grant

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-22-10	HKS 06-22D	6	6N	66W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 126
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 10:30pm	TIME LEFT LOCATION 1:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 902	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 852.26	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 846.36		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2412	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION seal			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM

PRESSURE SUMMARY			TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MINIMUM psi			<input type="checkbox"/> MISC PUMP	
			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test, circ 50 BBLs H<sub>2</sub>O, 2nd 1000 Dye mix & Pump 382 SKS cement at 3040 excess at 127 yield at 15.2 lbs or until cement stops, Release Plug Displace 54.2 BBLs H<sub>2</sub>O, Pump Plug at 150 psi over L. Fd psi wait 5 min Release psi, wash up Rig Down.

Arrived w/ 650 SKS cement 4 gallons Kcl 16oz Dye H<sub>2</sub>O test ok 86.1 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 11:46pm circ 12:01am cement 12:13am Drop Plug 12:38am Displace 12:38am

used 357 SKS cement 2140 excess 8012 BBLs slurry  
10 BBLs At 5.5 BBLs/m 12:42am 390psi  
20 BBLs At 3.0 BBLs/m 12:45am 300psi  
30 BBLs At 2.0 BBLs/m 12:49am 320psi  
40 BBLs At 2.0 BBLs/m 12:57am 370psi  
50 BBLs At 2.0 BBLs/m 1:05am 390psi  
54.2 BBLs At 1.0 BBLs/m 1:09am 470psi  
Bump Plug 1:09am 610psi

L. Fd w/ 293 SKS cement 2 gallons 3gals Kcl 6oz Dye 13 BBLs Back 13

AUTHORIZATION TO PROCEED TITLE DATE 8-22-10