

# BISON OIL WELL CEMENTING, INC.



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INVOICE #

89415

LOCATION

WCR 34-53

FOREMAN

Kirk Kallhoff  
mile R mile D mile S

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-21-10	Guterson D15-28	10	3N	64W	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 128
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	2:00am	TIME LEFT LOCATION	11:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	12 1/4	TUBING SIZE		THEORETICAL	INSTRUCTED
TOTAL DEPTH	683	TUBING DEPTH		SURFACE PIPE ANNULUS LONG	
PBTD 633.09		TUBING WEIGHT		STRING	
CASING SIZE	8 7/8	TUBING CONDITION		TUBING	
CASING DEPTH	677.55	TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT	32.15			[ ] 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 Bubbles H2O 2nd 10w/Dye mix Pump  
289 SKS cement at 30% excess at 1.27 yield at 15.2 lbs cement/man steps up, Displace  
38.5 BBLS H2O, 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 4 gallons Kel 16oz Dye 65.2 BBLS slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 9:49am Circ 10:05am cement 10:16am  
Drop Plug 10:48am Disp 10:48am

10 BBLS At 5.5 BBLS/m 10:51am 450psi used 50% excess per cement  
20 BBLS At 5.5 BBLS/m 10:53am 540psi used 333 SKS cement  
30 BBLS At 3.5 BBLS/m 10:56am 460psi used 75.3 BBLS slurry  
38.5 BBLS At 1.0 BBLS/m 11:00am 280psi  
Bump Plug 11:00am 390psi

Lift w/ 742 SKS cement 2 gallons Kel 6oz Dye BBLS Back 16

Tammy Raman AUTHORIZATION TO PROCEED  
Rig Supervisor TITLE  
3-21-10 DATE