

BISON OIL WELL CEMENTING, INC.



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INVOICE # 8945

LOCATION wcr 34-53

FOREMAN Kirk Kallhoff
Miller R Miller D Miller S

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-21-10	Gutterson D15-28	10	3N	64W	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>2:00am</u>	TIME LEFT LOCATION <u>11:30am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
<u>12 1/4</u>					
TOTAL DEPTH <u>683</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 633.09</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>677.55</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>32.15</u>	PACKER DEPTH	[] SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION <u>good</u>		[] 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 4 bbls H2O 2nd 10w/Dye mix Pump
289 sks cement at 30% excess at 1.27 yield at 15.2 lbs cement. 11 re/man stops 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 re/man
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

LFT w/ 742 sks cement 2 gallons Kel 6oz Dye
BBls Back 16

Tam R AUTHORIZATION TO PROCEED Rig Supervisor TITLE 3-21-10 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.