

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9263
LOCATION WCR 7+38
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE 9-16-10	WELL NAME WCLi USX S 33-15P	SECTION 33	TWP 4N	RGE 68W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR ENSIGN 55				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 3:00pm		TIME LEFT LOCATION 7:50pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 795.0	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD 742.29	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 780.81		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24#	PACKER DEPTH		[] 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 R

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Psi test to 500psi, Circ 40 bbls of H₂O w/ Kcl 2nd 10 w/ 100e Dye, mix + pump 30% Excess, 336 sks of Cement @ 152' @ 1.27 yield or until stopped by Cement, Drop Plug Displace 47.2 bbls of H₂O Pump Plug @ 150 psi over 144 psi wait 5 min Release Psi wash up Rig Down
Arrived w 550 sks of Cement 491 Kcl 320e Dye
H₂O test OK
75.9 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 6:07pm Circ 6:20pm Cement 6:31pm
Drop Plug 7:00pm Displace 7:00pm

10 bbls 5.0/m	150 psi	7:04pm	Used 321 sks of Cement 24% Excess 72.6 bbls of Slurry
20 bbls 5.0/m	250 psi	7:06pm	
30 bbls 5.0/m	380 psi	7:08pm	
40 bbls 3.5/m	360 psi	7:11pm	
47.2 bbls 1.0/m	280 psi	7:14pm	
Bump Plug 490psi			7:14pm

10 bbls to pit

M. Saltzman
AUTHORIZATION TO PROCEED

TITLE

9-16-10
DATE