

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9222

LOCATION cr 12-31

FOREMAN Kirk Kallhoff
Mike R Tucker L

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-30-10	Flatiron Highlands Ranch W8 NW 09-22D	9	1 N	66 E	Weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR Ensign 136			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 2:15am			TIME LEFT LOCATION 5:15am			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1155.4	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1104.62	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 1148.72		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		L-150 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

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test circ 60 BBLs H2O 2nd to 4th dye, misc Pump Load cement at 30% excess at 1.32 yield at 14.8 lbs min & Pump Tail cement at 1.27 yield 15.2 lbs cement all cement steps w/ Release Plug Displace 70.3 BBLs H2O, Pump Plug at 150 psi over Lift Psi, wait 5 min Red tag Psi Work up Rig Down H2O test OK

Arrived w/ 700 sks cement 4 gallons Kel 6oz dye Lead slurry 78.4 tail slurry 24.6

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 2:55am circ 3:26am cement 3:39am

Drop Plug 4:22am Displace 4:22am
10 BBLs at 5.5 BBLs/m 4:24am 330psi used 3240 excess Lead
20 BBLs at 5.5 BBLs/m 4:26am 400psi Lead slurry 79.6 3415 sks cement
30 BBLs at 5.5 BBLs/m 4:28am 570psi Tail slurry 24.6 1095 sks cement
40 BBLs at 5.5 BBLs/m 4:30am 630psi
50 BBLs at 5.5 BBLs/m 4:32am 740psi
60 BBLs at 5.5 BBLs/m 4:34am 770psi
70.3 BBLs at 6.0 BBLs/m 4:39am 520psi
Pump Plug 4:39am 630psi

Lift w/ 250 sks cement 2 gallons 2gts Kel 6oz dye 13 BBLs Back 20

AUTHORIZATION TO PROCEED TITLE DATE 7-30-10

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