

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9306

LOCATION CR 13 34

FOREMAN Kirk Kallhoff
Mike R. Tucker

TREATMENT REPORT

DATE 9-30-10	WELL NAME Herbs T 13-01	SECTION 13	TWP 13N	RGE 63W	COUNTY weld	FORMATION
CHANGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Code 24				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 10:45am		TIME LEFT LOCATION 7:30pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 730.1	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 676.56	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 720.12		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		[X] 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 S

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, psi test, circ 40 BBLs H2O and 100 lb Dye, mix & Pump 309 SKS cement at 30% excess at 1.27 yield at 15.2 lbs, cement 11 cement stops in, Release Plug Displace 43 BBLs H2O, Pump Plug at 150 psi over Lift Psi, wait 5 min Release Psi, wash up Rig Down.

Arrived w/ 650 SKS cement 4 gallons Kel 162 Dye H2O test OK
69.7 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: safety meeting 5:35pm circ 6:00pm cement 6:10pm
Drop Plug 6:45pm Displace 6:45pm

10 BBLs At 5.5 BBLs/m 6:48pm 410 psi
20 BBLs At 5.5 BBLs/m 6:50pm 500 psi
30 BBLs At 5.5 BBLs/m 6:52pm 580 psi
40 BBLs At 3.5 BBLs/m 6:57pm 380 psi
43 BBLs At 1.0 BBLs/m 7:00pm 310 psi
Bump Plug 7:00pm 420 psi

used 34% EXCESS
used 321 SKS cement
71.9 BBLs slurry

Left w/ 329 SKS cement 3 gallons Kel 62 Dye

BBLs Back 10

Randy Doyle

AUTHORIZATION TO PROCEED

TITLE

9-30-10

DATE

Customers hereby acknowledge and specifically agree 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