

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10307

LOCATION 13-28

FOREMAN Kirk Kalbaugh
Mike R. Jossy Richard

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-12-11	Varra P31-76 NN	31	3N	67W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H&P 323
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 3:30pm	TIME LEFT LOCATION 1:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 715	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 671.08	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 710		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			[] SOOZE CEMENT		FINAL BPM
BREAKDOWN or CIRCULATING psi	AVERAGE psi		[] ACID BREAKDOWN		MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi		[] ACID STIMULATION		MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi		[] ACID SPOTTING		AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi		[] MISC PUMP		
MINIMUM psi			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, Perccaman, circ 50% KCL H2O, 2nd 10% Dye, mix & Pump 385 SKs cement at 30% Excess at 1.27 gals at 152 lbs, or until remain steps us, or more than 50% Excess unless told Byccaman, Release Plug Disp 51.8 BBls H2O, Bump Plug at 150 Psi over Lift Psi, wait 5 min Release Psi, washup Rig Down H2O test OK

Arrived w/ 650 SKs cement 4 gal KCL 16oz Dye

87 BBls slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:38pm circ 11:00pm cement 11:12pm

Drop Plug 11:36pm Displace 11:36pm

10 BBls at 5.0 BBls/m 11:39pm 250psi

20 BBls at 5.0 BBls/m 11:41pm 330psi

30 BBls at 5.0 BBls/m 11:43pm 400psi

40 BBls at 5.0 BBls/m 11:46pm 490psi

50 BBls at 1.0 BBls/m 11:50pm 280psi

51.8 BBls at 1.0 BBls/m 11:52pm 290psi

Bump Plug 11:52pm 440psi

used 30% Excess

used 385 SKs cement

87 BBls slurry

Lft w/ 265 SKs cement 2 gal 3% KCL & Dye

BBls Back 15

Timothy J. Smith
AUTHORIZATION TO PROCEED

WSS

TITLE

9-12-11

DATE