

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10226

LOCATION 55-70

FOREMAN Kirk Kallhauff
mike R CR

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-8-11	Howard USR A09-23	9	6N	64W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Saxon 143
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 4:30pm	TIME LEFT LOCATION 7:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 740	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 691.19	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

WELL DATA			PRESSURE LIMITATIONS		
CASING DEPTH 736.68		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
CASING WEIGHT 2416	PACKER DEPTH		1 SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION good			[] PRODUCTION CASING	INITIAL BPM	

PRESSURE SUMMARY			PRESSURE LIMITATIONS		
BREAKDOWN or CIRCULATING psi	AVERAGE psi		[] SQUEEZE CEMENT	FINAL BPM	
FINAL DISPLACEMENT psi	ISIP psi		[] ACID BREAKDOWN	MINIMUM BPM	
ANNULUS psi	5 MIN SIP psi		[] ACID STIMULATION	MAXIMUM BPM	
MAXIMUM psi	15 MIN SIP psi		[] ACID SPOTTING	AVERAGE BPM	
MINIMUM psi			[] MISC PUMP		
			[] OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, PSI test, circ 405 bbls KCL H2O 2nd 10a/Dye, mix & Pump 313 sks cement at 30% excess at 1.27 yeild at 15.2 lbs or until cement stops up, no more than 30% excess per column. Release plug Disp 44 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 KCL 16oz Dye 70.7 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: safety meeting 5:24pm circ 5:50pm cement 6:00pm

Drop Plug 6:17pm Disp 6:17pm

10 BBLs At 5.5 BBLs/m 6:20pm 280psi

used & excess

20 BBLs At 5.5 BBLs/m 6:22pm 350psi

used 241 sks cement

30 BBLs At 5.5 BBLs/m 6:24pm 480psi

54.3 BBLs slurry

40 BBLs At 2.5 BBLs/m 6:27pm 360psi

44 BBLs At 1.0 BBLs/m 6:30pm 320psi

Bump Plug 6:30pm 500psi

LPfw/ 334 sks cement 3 gal KCL 6oz Dye

BBLs Back 12

[Signature]

AUTHORIZATION TO PROCEED

TITLE

7-8-11

DATE