

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9015

LOCATION Hwy 66-19

FOREMAN Kirk Kallio
Mike R. Miles

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-2-10	Horse Iron P 22-31D	21	3N	67W	weld	

CHARGE TO waste	OWNER
MAILING ADDRESS	OPERATOR waste
CITY	CONTRACTOR Ensiga 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 2:00pm	TIME LEFT LOCATION 5:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 562	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 519.04	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 563.19		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2412	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
				BREAKDOWN BPM	
				INITIAL BPM	
				FINAL BPM	
				MINIMUM BPM	
				MAXIMUM BPM	
				AVERAGE BPM	
				HYD HHP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY			TYPE OF TREATMENT		
BREAKDOWN or CIRCULATING psi	AVERAGE psi		TREATMENT RATE		
FINAL DISPLACEMENT psi	ISIP psi		BPM		
ANNULUS psi	5 MIN SIP psi		MAXIMUM BPM		
MAXIMUM psi	15 MIN SIP psi		AVERAGE BPM		
MINIMUM psi			HYD HHP = RATE X PRESSURE X 40.8		

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test, circ 30661s H2O and 10% dye mix, Pump 238 sls cement at 30% excess at 1.27 yield at 15.2 lbs or until cement stops up, Release Plug Displace 33.06 BBls H2O, Pump Plug at 150 psi over Lift psi wait 5 min Release psi wash up Rig Down
53.7 BBls slurry
Arrived w/ 700 sls cement 4 gallons Kcl 16oz Dye

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 3:06pm circ 3:47pm cement 3:56pm
Drop Plug 4:17pm Displace 4:17pm

used 36% excess
used 250 sls cement
56.1 BBls slurry
10 BBls at 5.5 BBls/m 4:20pm 450psi
20 BBls at 5.5 BBls/m 4:22pm 550psi
30 BBls at 2.5 BBls/m 4:25pm 360psi
33 BBls at 1.0 BBls/m 4:27pm 320psi
Bump Plug 4:27pm 540psi

LFW w/ 450 sls cement 3 gallons 1qt Kcl 6oz Dye 13 BBls Back 9

6-2-10
AUTHORIZATION TO PROCEED TITLE DATE