

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9225

LOCATION Cr 49-22

FOREMAN Kirk Kallhoff
Mike R. Tucker Grant L

TREATMENT REPORT

DATE 8-5-10	WELL NAME Pioneer 10808	SECTION 8	TWP 2N	RGE 64W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 1:00am		TIME LEFT LOCATION 7:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1070.6	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1022.62	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 1066.7		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2416	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		
PRESSURE SUMMARY			BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HHP = RATE X PRESSURE X 40.8		
BREAKDOWN or CIRCULATING psi	AVERAGE psi				
FINAL DISPLACEMENT psi	ISIP psi				
ANNULUS psi	5 MIN SIP psi				
MAXIMUM psi	15 MIN SIP psi				
MINIMUM psi					

INSTRUCTIONS PRIOR TO JOB Rigup, safety meeting, psi test, circ 60 BBLs H2O 2nd 10 1/4 Dye mix Pump Lead cement at 30% excess at 1.32 yield at 14.8155 300SKS, mix Pump tail cement 109 SKS at 1.27 yield at 15.2165 cement till cement steps up, Release Plug Displace 65.1 BBLs H2O Pump Plug at 150psi 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 lead string 70.3 tail string 24.6

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 5:07am circ 5:23am cement 5:37am
Drop Plug 5:58am Displace 5:58am
10 BBLs at 5.5 BBLs/m 6:01am 340psi used 180 SKS cement Lead
20 BBLs at 5.5 BBLs/m 6:03am 340psi used 109 SKS cement tail
30 BBLs at 5.5 BBLs/m 6:05am 850psi 42.3 BBLs string Lead
40 BBLs at 5.5 BBLs/m 6:07am 860psi 24.6 BBLs string tail
50 BBLs at 5.5 BBLs/m 6:09am 1040psi
60 BBLs at 3.5 BBLs/m 6:12am 630psi
65.1 BBLs at 1.0 BBLs/m 6:15am 470psi
Bump Plug 6:15am 590psi

Lft w/ 286 SKS cement 2 gallons 2gts Kcl 6oz Dye BBLs Back 24

AUTHORIZATION TO PROCEED

TITLE

8-5-10

DATE