

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9023

LOCATION cr/22-95

FOREMAN Kirk Hallford
Mike R Tucker L

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-19-10	willson 1160-29-22	29	11N	60W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Fert S</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:45pm</u>	TIME LEFT LOCATION <u>4:30pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1070.2</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1019.64</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 9/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1068.71</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2416</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

PRESSURE SUMMARY		
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 Rig up, Safety meeting, Psi test, circ 40 BBLS H2O 2nd 10 w/Dye mix & Pump (and 22)
SKS cement at 1.69 yield at 30% Excess at 13.1 lbs, mix & Pump tail 100 SKS cement at 1.27 yield at
15.2 lbs or until cement stops us, Release Plug Displace 64.9 BBLS H2O, Bump Plug at 150 psi
over Lift Psi, wait 5 min Release Psi wash up Rig Down H2O test ok
Arrived w/ 650 SKS cement 4 gallons Kcl 16oz Dye 68.3 Lead slurry 22.6 tail

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 2:26pm circ 2:46pm cement 2:55pm

Drop Plug 3:25pm Disp 3:25pm

used 327 SKS cement

used 30% Excess

68.3 BBLS slurry Lead

22.6 BBLS slurry tail

10 BBLS at 5.5 BBLS/m 3:28pm 370psi

20 BBLS at 5.5 BBLS/m 3:30pm 370psi

30 BBLS at 5.5 BBLS/m 3:32pm 430psi

40 BBLS at 5.5 BBLS/m 3:34pm 480psi

50 BBLS at 5.5 BBLS/m 3:36pm 580psi

60 BBLS at 3.5 BBLS/m 3:39pm 370psi

64.9 BBLS at 1.0 BBLS/m 3:42pm 340psi

Bump Plug 3:42pm 460psi

Lft w/ 323 SKS cement 3 gallons Kcl 16oz Dye

BBLS Back 22

AUTHORIZATION TO PROCEED

TITLE

DATE

6-19-10