

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9854

LOCATION 68-67

FOREMAN Kirk Kallhoff
Mike R. CR. Richardson

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-6-11	Wells Ranch PC AA 22-02	22	6N	63W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Cade 21
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 10:15pm	TIME LEFT LOCATION 3:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 585	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 533.55	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 578.82		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION good			<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: Pig up, safety meeting, PSI test, circ 3000 psi KCL H2O 2nd 1000 Dye, mix Pump 248 SKS cement at 30% excess at 127 yeild at 1512 lbs or until all cement steps up, no more than 50% excess per company, Release Plug Disp 33.9 BBLs H2O, Bump Plug at 150 psi over Lift PSI, wait 5 min, Release PSI, wash up, Rig down H2O test OK

Arrived w/ 575 SKS cement 4 gal RCL 1602 Dye 55.8 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: safety meeting, 2:02am circ 2:24am cement 2:32am

Drop Plug 2:52am Disp 2:52am

used 40% excess
used 267 SKS cement
60.1 BBLs slurry

10 BBLs at 5.5 BBLs/m 2:56am 350 psi
20 BBLs at 5.5 BBLs/m 2:59am 430 psi
30 BBLs at 2.5 BBLs/m 3:02am 310 psi
33.9 BBLs at 1.0 BBLs/m 3:05am 250 psi
Bump Plug 3:05am 410 psi

Lift w/ 300 SKS cement 3 gal 1st KCL 602 Dye

BBLs Back 15

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity