

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8994

LOCATION 4x55-80

FOREMAN Kirk Kallho
mile 2 mile D mile 5

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-26-10	Dillard 451 AB 09-99 HZ	21	6N	62W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Cade 22
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:15pm	TIME LEFT LOCATION 3:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 835.6	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 787.79	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 826.31		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	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		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> MISC PUMP		
MINIMUM psi			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, circ 60 BBLs H2O and 10 gal Dye mix & Pump
450 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until column stops 45, Release Plug
Displace 60.8 BBLs H2O, Bump Plug at 150psi over Lift Psi, wait 5 min Release Psi, wash up
rig Down 101.7 BBLs slurry
Arrived w/ 700 sks cement 4 gallons KCL 1602 Dye H2O test OK

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 1:34am Circ 1:48 am cement 2:02 am
Drop Plug 2:34 am Displace 2:34 am

10 BBLs At 5.5 BBLs/m 310psi 2:38 am
20 BBLs At 5.5 BBLs/m 370psi 2:40 am
30 BBLs At 5.5 BBLs/m 450psi 2:42 am
40 BBLs At 5.5 BBLs/m 570psi 2:44 am
50 BBLs At 5.5 BBLs/m 550psi 2:46 am
60 BBLs At 1.0 BBLs/m 340psi 2:51 am
60.8 BBLs At 1.0 BBLs/m 350psi 2:51 am
Bump Plug 490psi 2:51 am

used 1340 Excess
used 34.3 sks cement
88.8 BBLs slurry

Lift w/ 307 sks 1 gallon KCL 602 Dye

BBLs Back 12

AUTHORIZATION TO PROCEED

TITLE

4-26-10

DATE