

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9529

LOCATION 1247-352

FOREMAN Kirk Kallala
Mike R. Buckle, Guy +

TREATMENT REPORT

DATE 12-12-10	WELL NAME Dinner 13-35	SECTION 13	TWP 6N	RGE 65W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cade 21				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 3:30am		TIME LEFT LOCATION 8:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 634.3	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 580.67	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 626		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2415	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 or CIRCULATING psi	AVERAGE psi	HYD HHP = RATE X PRESSURE X 40 S	
FINAL DISPLACEMENT psi	ISIP psi	INITIAL BPM	
ANNULUS psi	5 MIN SIP psi	FINAL BPM	
MAXIMUM psi	15 MIN SIP psi	MINIMUM BPM	
MINIMUM psi		MAXIMUM BPM	

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, circ 30 bbls H2O 2nd 100' Dye mix Pump 268
sls cement at 3040 Excess at 127 yield at 1512 lbs cement 11 cement stops w/s. Release Pkg
Displace 36.9 BBLs H2O, Bump Pkg at 150 psi over L.P.T. Psi, wait 5 min. Release Psi
wash up, Rig Down H2O test OK

Arrived w/ 575 sls cement 4 gallons Red 16oz Dye 60.5 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 6:40am circ 7:01am cement 7:09am
Dye Pkg 7:29am Displace 7:29am

10 BBLs at 5.5 BBLs/m 7:31am 330psi	used 41% Excess
20 BBLs at 5.5 BBLs/m 7:33am 410psi	used 293 sls cement
30 BBLs at 3.5 BBLs/m 7:38am 350psi	65.7 BBLs slurry
36.9 BBLs at 1.0 BBLs/m 7:42am 250psi	
Bump Pkg 7:42am 340psi	

L.P.T. w/ 282 sls cement 3 gallons 1st Red 16oz Dye BBLs Back 14

AUTHORIZATION TO PROCEED
TITLE
DATE 12-12-10

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