

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11044

LOCATION 49-32

FOREMAN Kirk Kallhoff
Pole, Leon, Scott

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-18-12	Butterball D19-17D	19	3N	64W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:30 am</u>	TIME LEFT LOCATION <u>4:00 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>738</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBD 651</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>732</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>2415</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
			<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		

PRESSURE SUMMARY			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 Rig up, safety meeting, Pstest, Permeameter circ 40 hrs Kel H2O, 2nd 1000/ Dye, mix & Pump 3135s cement at 30% excess at 1.27 yield or until 11 cement stops us. Release Plug, Disp 44 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 sds cement 4 gal Kel 16oz Dye 7017 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 2:33pm circ 2:51pm cement 2:58pm stop cement 3:12pm Drop Plug 3:14pm Displace 3:14pm

10 BBLs at 6 BBLs/m 3:15pm 300psi	Used 4% excess
20 BBLs at 6 BBLs/m 3:17pm 350psi	Used 250 sds cement
30 BBLs at 6 BBLs/m 3:18pm 500psi	56.5 BBLs slurry
40 BBLs at 3.5 BBLs/m 3:20pm 300psi	
44 BBLs at 1.0 BBLs/m 3:22pm 300psi	
Bump Plug 3:22pm 530psi	

Left w/ 400 sds cement 3 gal Kel 16oz Dye BBLs Back 10

[Signature] 6/11/12 6-18-12

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledge and specifically agree 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.