

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10304

LOCATION 80-23

FOREMAN Kirk Hall, FF
Mike Sissy Richard

TREATMENT REPORT

DATE 9-5-11	WELL NAME Drake PL mm 14-150	SECTION 14	TWP 7N	RGE 67W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 55				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:30am		TIME LEFT LOCATION 1:30pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 652	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 604.09	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 649.54	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT 2416	PACKER DEPTH	✓ SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION good		[] PRODUCTION CASING		INITIAL BPM	
		[] SOOZE CEMENT		FINAL BPM	
		[] ACID BREAKDOWN		MINIMUM BPM	
		[] ACID STIMULATION		MAXIMUM BPM	
		[] ACID SPOTTING		AVERAGE BPM	
		[] MISC PUMP			
		[] 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, Psitest, Perccoman Circ 40345 KCL H2O 2nd 104/ Dye mix Pump 276
SKs cement at 30% excess at 127 yield at 152 lbs, no more than 50% excess or until stopped by cement.
Release Plug Disp 38.4 BBls H2O Bump Plug at 150 Pricer L.F. Psi, wait 5min, Release Psi, wash up
Rig Down H2O test ok
Arrived w/ 650 SKs cement 4500 KCL 16oz Dye 62.4 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 7:24am circ 11:50am cement 12:00pm
Disp Plug 12:20pm Disp 12:20pm
10 BBls at 5.0 BBls/min 12:23pm 260psi used 10% excess
20 BBls at 5.0 BBls/min 12:26pm 310psi used 234 SKs
30 BBls at 3.5 BBls/min 12:29pm 290psi 52.9 BBls slurry
38.4 BBls at 1.0 BBls/min 12:34pm 260psi
Bump Plug 12:34pm 450psi

used green Dye Perccoman

L.F. w/ 416 SKs cement 3500 KCL 6oz Dye BBls Back 2

[Signature]

AUTHORIZATION TO PROCEED

TITLE

DATE

9-5-11