

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 97744
LOCATION WCB 47+38
FOREMAN Dawrel Saltzman

TREATMENT REPORT

DATE <u>3-4-11</u>	WELL NAME <u>aristocrat PC H 11-19D</u>	SECTION <u>6</u>	TWP <u>3N</u>	RGE <u>64W</u>	COUNTY <u>weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENGIN 121</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:50 AM</u>		TIME LEFT LOCATION <u>10:30 AM</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>708.10</u>	TUBING DEPTH	SHOTS/FT <u>CALLING</u>	SURFACE PIPE ANNULUS LONG	
<u>PBTD 658.98</u>	TUBING WEIGHT	RIG NO. <u>ENGIN 121</u>	STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION	WELL NAME & NO.	TUBING	
CASING DEPTH <u>701.50</u>		PROJECT NO.	TYPE OF TREATMENT	
CASING WEIGHT <u>24#</u>	PACKER DEPTH	TREATMENT VIA	TREATMENT RATE	
CASING CONDITION <u>good</u>		TASK (CIR, CEMENT, BUMP)		
PRESSURE SUMMARY			BREAKDOWN BPM	
BREAKDOWN or CIRCULATING psi	AVERAGE	1ST LEVEL	INITIAL BPM	
FINAL DISPLACEMENT psi	ISIP	2ND LEVEL	FINAL BPM	
ANNULUS psi	5 MIN SIP	3RD LEVEL	MINIMUM BPM	
MAXIMUM psi	15 MIN SIP	4TH LEVEL	MAXIMUM BPM	
MINIMUM psi		5TH LEVEL	AVERAGE BPM	
			HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig 4P. Safety meeting, psi test, Circ 40 bbls of H₂O KCL 2nd 10 w 10oz Dye mix
+ pump 301 sks of cement @ 30% Excess @ 15.2" @ 1.27 yield or until stopped by Co mow, Drop Plug
Displace 419 bbls of H₂O Bump Plug @ 150 psi over lift psi wait 5 min Release psi wash up riser
Arrival w 750 sks of cement 49/ KCL 3202 Dye
H₂O test ok
680 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting Circ Cement
Drop Plug Displace

10 bbls	5.0/m	180 psi	9:18 AM	used 264 sks of Cement 14% Excess 59.7 bbls of Slurry
20 bbls	5.0/m	320 psi	9:20 AM	
30 bbls	5.0/m	410 psi	9:22 AM	
40 bbls	1.0/m	250 psi	9:26 AM	
41.9 bbls	1.0/m	150 psi	9:28 AM	
Bump Plug	470 psi	9:28 AM		

Left w 486 sks of cement 39/ KCL 2202 Dye
8 bbls of Slurry Back

[Signature]

3-4-11