

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11373
LOCATION WCR 49+50
FOREMAN Mike Rosalez

TREATMENT REPORT

DATE <u>2-18-12</u>	WELL NAME <u>ARD PC C-06-21-0</u>	SECTION <u>6</u>	TWP <u>4</u>	RGE <u>64</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Saxon 144</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1:45 AM</u>		TIME LEFT LOCATION <u>8:45 AM</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	
TOTAL DEPTH <u>660</u>	TUBING DEPTH	SHOTS/FT	INSTRUCTED	
<u>DBTD 608.61</u>	TUBING WEIGHT	OPEN HOLE		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION	TUBING		
CASING DEPTH <u>654.02</u>	<u>637.01</u>	TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT <u>24105</u>	PACKER DEPTH		TREATMENT RATE	
CASING CONDITION <u>Good</u>				
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, Sattymectm PSE TEST 500 PSE, Circ 40 BBls H₂O/KCL mix 2nd 10 Dye, mix + Pump 279 sks Cement (30% excess) 1:27 Lye at 15-2 or until Compman stop, Release Plug Displace 38.7 BBls H₂O Bump Plug 150 PSE over lift wait 5 min Release PSE, Wash up Rig Down 37.6 Slurry
Arrived with 650 sks 6 KCL 16 02 Dye H₂O TEST

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymectm 6:55 AM Circ. 7:13 AM Cement 7:21 AM
Drop Plug 7:39 AM Displace 7:39 AM

10 BBls at 5-1 BBls/m 7:42 AM 170 PSE Used 16 9% excess
20 BBls at 5-1 BBls/m 7:44 AM 270 PSE Used 250 sks Cement
30 BBls at 5-1 BBls/m 7:47 AM 230 PSE Slurry 56.54
38.7 BBls at 40 BBls/m 7:51 AM 190 PSE
Bump Plug 1-0 BBls/m 7:51 AM 390 PSE
Flow Collar held

BBls Back to Pit
Left with 400 sks Cement 2 KCL gals & Dye

May Stapleton
AUTHORIZATION TO PROCEED
TITLE
DATE 2-18-12