

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11534

LOCATION WCR 127, 104

FOREMAN Mike Rosalez

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-17-12	160 Creek PL 40 No Wt H	16	9	58	Weld	
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR HTP 326				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 12:30 AM		TIME LEFT LOCATION 2:30 PM				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
13 3/4				
TOTAL DEPTH 1241	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
POTD 1183.15	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 9 5/8	TUBING CONDITION	TREATMENT VIA	TUBING	
CASING DEPTH 1231				
CASING WEIGHT 36.18	PACKER DEPTH			
CASING CONDITION Good				

PRESSURE SUMMARY		TREATMENT RATE	
BREAKDOWN OF CIRCULATING PSI	AVERAGE PSI	TYPE OF TREATMENT	TREATMENT RATE
FINAL DISPLACEMENT PSI	ISIP PSI	[] SURFACE PIPE	BREAKDOWN BPM
ANNULUS PSI	5 MIN SIP PSI	[] PRODUCTION CASING	INITIAL BPM
MAXIMUM PSI	15 MIN SIP PSI	[] SQUEEZE CEMENT	FINAL BPM
MINIMUM PSI		[] ACID BREAKDOWN	MINIMUM BPM
		[] ACID STIMULATION	MAXIMUM BPM
		[] ACID SPOTTING	AVERAGE BPM
		[] MISC PUMP	
		[] OTHER	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PSE TEST 500 PSI, Circ 90 BBls H₂O / KCL mix 2nd
10 Dye mix + Pump at lead 352 sks (20% excess) / 169 gal at 13-1185 then Pump
out of 1183 sks at 1.27 gal at 15-2185, Release Plug Displace 918 BBls H₂O Pump Plug
150 PSI over 1st wait Couple min Release PSE Rig Down H₂O TEST 100 SEC Tail
Arrived with 750 sks Cement 1600 KCL at 1602 Dye Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 5:15 AM / 9:00 AM Circ. 9:30 AM Start Cement 10:00 AM
STOP Cement 10:30 AM DROP Plug 10:36 AM Displace 10:36 AM
10 BBls at 5-1 BBls/m 10:40 AM 60 PSI
20 BBls at 2.4 BBls/m 10:46 AM 100 PSI
30 BBls at 2.3 BBls/m 10:51 AM 170 PSI
40 BBls at 2.3 BBls/m 10:56 AM 100 PSI
50 BBls at 2.3 BBls/m 11:01 AM 100 PSI
60 BBls at 2.2 BBls/m 11:07 AM 170 PSI
70 BBls at 2.2 BBls/m 11:12 AM 230 PSI
80 BBls at 2.9 BBls/m 11:17 AM 370 PSI
90 BBls at 1.8 BBls/m 11:20 AM 400 PSI
Left with 500 sks Cement 915 KCL 10 Dye

TOP JOB
Used 34 - sks Cement
Slurry 10
310 sks
918 BBls / 1-8 BBls/m 11:23 AM 400 PSI
Bump Plug at 1-3 BBls/m 11:23 AM 500 PSI
Flow Celler held BBls Back to P
3

Lead used 20 90 excess
Used 363.50 Cement
TOP 109.2 Slurry
Tail 25 Slurry
Tail Used 0 excess
Used 113 sks Cement

SA M
AUTHORIZATION TO PROCEED

Consultant
TITLE

5-17-12
DATE