

BISON OIL WELL CEMENTING, INC.



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TREATMENT REPORT

DATE	2-10-12	WELL NAME	NORWICH C-28-27-0	SECTION	21	TWP	4	RGE	64	COUNTY	Weld	FORMATION
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CHARGE TO	Noble
MAILING ADDRESS	
CITY	
STATE ZIP CODE	
TIME ARRIVED ON LOCATION	6:00 PM
TIME LEFT LOCATION	9:30
DISTANCE TO LOCATION	
CONTRACTOR	Saxon 194
OPERATOR	Noble
OWNER	

WELL DATA		PRESSURE LIMITATIONS	
HOLE SIZE	13 1/4	THEORETICAL	INSTRUCTED
TUBING SIZE	9 1/4	SURFACE PIPE ANNULLUS LONG	
TUBING DEPTH	872.04	STRING	
TUBING WEIGHT	8578	TUBING	
CASING SIZE	908.04		
CASING DEPTH	24135		
CASING WEIGHT	6002		
CASING CONDITION	Good		

PRESSURE SUMMARY		TYPE OF TREATMENT	
BREAKDOWN or CIRCULATING	psi	ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ACID STIMULATION	MAXIMUM BPM
ANNULLUS	psi	ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	MISC PUMP	
MINIMUM	psi	OTHER	
			HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB
 Rig up, Safety, PSI test 500 PSI, Line 52 BBLs/hr, 1/2" mix
 mix thing a lead of 242.5 SKS next cement (20% excess) 1/32" yield at 14-81BS, then mix and
 Pump Tail of BOND 300 100 SKS at 127 gals at 15-2. Release Plug Displace 55.5 BBLs/hr Bump Plug
 150 PSI over 1/2" line 1.5 min. Release PRT Wash up Rig Down
 56.85 Slurry 22.61
 Arrived with 650 SKS 10 gals KCL 16.02 Dye, 200 3% 450 net H2O test

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS
 Deep Plug 8:09 PM Displace 8:09 PM
 242
 used 20% excess lead
 used 20% excess tail
 Slurry on lead 56.89
 Slurry on Tail 22.61

10 BBLs at 5-3 BBLs/hr 8:13 PM 260 PSI
 200 BBLs at 5-3 BBLs/hr 8:15 PM 360 PSI
 30 BBLs at 5-3 BBLs/hr 8:17 PM 420 PSI
 40 BBLs at 5-3 BBLs/hr 8:19 PM 510 PSI
 50 BBLs at 3-2 BBLs/hr 8:21 PM 470 PSI
 55.5 BBLs at 1-0 BBLs/hr 8:25 PM 390 PSI
 Bump Plug 1-0 BBLs/hr 8:25 PM 570 PSI
 BBLs Back to PT
 (15)

Left with 300 100 SKS next cement 208 SKS 5 KCL
 Day 2

DATE	2-10-12	TITLE	
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AUTHORIZATION TO PROCEED
 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.

REF. INVOICE # 11368

LOCATION WCR 55+42

FOREMAN Mike Rosales