

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9804
LOCATION Hwy 14 & 390
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>4-27-11</u>	WELL NAME <u>Peterson PC LE 19-06</u>	SECTION <u>19</u>	TWP <u>8N</u>	RGE <u>59W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>ENSign 128</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>7:23 AM</u>			TIME LEFT LOCATION <u>2:30 PM</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1185.1</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD <u>1129.37</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION	TREATMENT VIA	TUBING		
CASING DEPTH <u>1174.29</u>			TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 #</u>	PACKER DEPTH		SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			PRODUCTION CASING		INITIAL BPM
			SQUEEZE 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, psi test, Circ 40 bbls of H₂O which 1st 10 w/ 10cc Dye, mix + pump
Lead of 481 sks cement @ 30% excess @ 14.8" @ 1.32 yield mix tail @ 100 sks of cement @ 15.2"
@ 1.27 yield. Drop Plug Displace 71.7 bbls of H₂O Bump Plug @ 150 psi over lift psi wait 5 min.
Release psi wash up Rig Down

Arrived w/ 550 sks neat 200 sks 3% cement 591 kcl 32cc Dye Total slurry 1356 bbls

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:19 PM Circ 12:38 PM Cement 12:47 PM

Drop Plug 1:24 PM Displace 1:24 PM

10 bbls 6.0 /m 270 psi 1:28 PM

20 bbls 6.0 /m 310 psi 1:29 PM BFW neat used 481 sks of cement

30 bbls 6.0 /m 420 psi 1:32 PM 30% excess

40 bbls 6.0 /m 460 psi 1:33 PM BFW 3% used 100 sks

50 bbls 6.0 /m 510 psi 1:35 PM Total slurry 1356

60 bbls 6.0 /m 590 psi 1:37 PM

70 bbls 1.0 /m 480 psi 1:40 PM

71.9 bbls 1.0 /m 460 psi 1:42 PM

Bump Plug 620 psi 1:42 PM

Lead w/ 100 sks of cement 491 kcl 22cc Dye 51 bbls of slurry back

4-27-11

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledges and specifically agrees 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