

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9330

LOCATION 70 Ranch

FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-14-10	70 Ranch usx BB 27-17	27	5N	63W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>8:45 pm</u>	TIME LEFT LOCATION <u>11:00 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>570.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PATD 520.22</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>562.33</u>		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
CASING WEIGHT <u>24 #</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rog up, Safety meeting PSI test to 500 psi, Ccr 30 bbls of H₂O w/ KCL 2
nd 10w/10oz Dye, mix + pump 30% Excess, 24/sks @ 15.2" @ 1.27 yield or until stopped
By Co man, Drop Plug Dis. 33.1 bbls of H₂O Bump Plug @ 150 psi over lift psi
wait 5 min Release psi wash up Rog Down
Arrived w 500 sks of Cement 5g/KCL 32oz Dye 545 bbls of Slurry
H₂O test OK

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:20pm Ccr 9:38pm Cement 9:46pm
Drop Plug 10:05pm Displace 10:05pm

10 bbls 50 #	220 psi	10:09 pm	38% Excess
20 bbls 50 #	320 psi	10:11 pm	257 sks of Cement
30 bbls 25 #	270 psi	10:14 pm	58.7 bbls of Slurry
33 bbls 100 #	200 psi	10:16 pm	
Bump Plug	390 psi	10:16 pm	

Left w 243 sks of Cement 4 g/l 1 qt KCL 22oz Dye

7 bbls of Slurry to pit

Randy Boye

10-14-10

AUTHORIZATION TO PROCEED

TITLE

DATE

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