

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9259
LOCATION WCR 44 + 43
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-4-10	Boulter G22-310	2#	4N	65w	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>6:15pm</u>	TIME LEFT LOCATION <u>10:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>575.12</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBD 533.13</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>576.22</u>		TREATMENT VIA			
CASING WEIGHT <u>29#</u>	PACKER DEPTH			TYPE OF TREATMENT	TREATMENT RATE
CASING CONDITION <u>good</u>				<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
				<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

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 Reg up. Safety meeting. Psi test to 510psi. Circ 30 bbls of H₂O w/ KCL 2nd @ 10w
10oz Dye, mix + pump 30% Excess - 243 sks of Cement @ 15.2' @ 1-27 yield or until stopped by
Co man. Drop Plug Displace 33.9 bbls of H₂O Bump Plug @ 150psi over 1st psi wait 5 min
Release psi wash up Reg Down
Arrived w 550 sks of Cement 4 1/2 KCL 32oz Dye
H₂O test OK
54.9 bbls of Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 8:12pm Circ 8132pu Cement 8:42pm
Drop Plug 9:00pm Displace 9:00pm

10 bbls	5.0/m	200psi	9:04pm	214 sks Cement
20 bbls	5.0/m	340psi	9:06pm	14% Excess
30 bbls	2.5/m	290psi	9:10pm	48.4 Bbls of Slurry
33.9 bbls	1.0/m	320psi	9:11pm	
Bump Plug		530psi	9:11pm	

Left w 336 sks of Cement 8 1/2 KCL 22oz Dye
8 bbls of Slurry Back

M. J. [Signature]
AUTHORIZATION TO PROCEED

TITLE

9-4-10
DATE