

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10171
LOCATION WCR 44+51
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-3-11	FRICK PC C 17-65 HN	18	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN Rig 132</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>8:10 am.</u>	TIME LEFT LOCATION <u>4:00 pm.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>717</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>FBTD 667.11</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>709.87</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>3616</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	

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, PER COMPANY MAN, CIRC 50 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump tell Dye is seen then pump tub only at 15 2lb. 127 yield, Do not go over 60% Excess without Talking to Company MAN, Drop plug, Displace 51.5 bbls. H₂O, Bump plug at 500 Psi over Lift Psi, Wash up, Rig down, H₂O Tested good, WE HAVE 700 sks, 32 oz Dye, 15 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 1:55 pm, CIRC 2:15 pm, CEMENT 2:26 pm to 2:50 pm

Drop Plug 2:51 pm, Displace 2:52 pm

10 bbls 410 Psi 2:55 pm 7.0 bbls/m

20 bbls 420 Psi 2:57 pm 7.0 bbls/m

30 bbls 520 Psi 2:59 pm 7.0 bbls/m

40 bbls 580 Psi 3:00 pm 7.0 bbls/m

50 bbls 380 Psi 3:03 pm 1.0 bbls/m

51.5 bbls 380 Psi 3:04 pm 1.0 bbls/m

Bump Plug 780 Psi at 3:04 pm Float Collar Held

USED 20% Excess = 357 sks, 80.74 bbls Slurry

Left with 343 sks, 16 oz Dye, 10 qts KCL

16 bbls Slurry To The Pit

[Signature]

AUTHORIZATION TO PROCEED

TITLE

7-3-11

DATE