

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 11612

LOCATION 31-45

FOREMAN Rick Kallheff
Pete Marie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-7-12	Lorenz F22-07-111-V	22	SW	65W	Weld	

CHARGE TO Nyle	OWNER
MAILING ADDRESS	OPERATOR Nyle
CITY	CONTRACTOR Ensign 121
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00am	TIME LEFT LOCATION 3:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 606	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
2 BBL 558	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 600		TREATMENT VIA			
CASING WEIGHT 36 lb	PACKER DEPTH				
CASING CONDITION good					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM		
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM		
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM		
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM		
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM		
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM		
			<input type="checkbox"/> MISC PUMP			
			<input type="checkbox"/> OTHER			
						HYD FRD = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB: Rig up, set flow metering, PSI test, Per cement 400 lbs Kcl H2O 2nd 1000 Dye mix & Pump 32.7 SK cement at 30% excess at 1.27 gpm at 15.2 lbs cement. 11 stopped by cement Release Plug Disp 43.1 BBLs H2O, Pump Plug At 150psi over L.F. PSI, wait 5 min Release PSI, Wash up Rig Down.

H2O test ok

73.5 BBLs slurry

Arrived at 6:50 SK cement 4 gpm Kcl 1600 Dye

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Set flow metering 12:54 gpm over 1:07 gpm cement 1:12 gpm stop at 1:50 gpm

Drop Plug 1:54 gpm Displace 1:54 gpm

10 BBLs At 6 BBLs/min 1:57 gpm 400psi

20 BBLs At 6 BBLs/min 1:59 gpm 400psi

30 BBLs At 6 BBLs/min 2:00 gpm 450psi

40 BBLs At 2.5 BBLs/min 2:03 gpm 280psi

43.1 BBLs At 1 BBL/min 2:05 gpm 280psi

Pump Plug 2:05 gpm 590psi

Used 70% excess

used 427 SK cement

96.5 BBLs slurry

LFW/223 SK cement 3 gpm Kcl 600 Dye

BBLs Back 4.3

[Signature]

AUTHORIZATION TO PROCEED

[Signature] Nyle Well Site Supervisor

TITLE

10-7-12

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