

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11080
LOCATION 42 & 43
FOREMAN Tucker Lehmkehl

TREATMENT REPORT

DATE <u>8/20/12</u>	WELL NAME <u>Black RL 621-17D</u>	SECTION <u>21</u>	TWP <u>4N</u>	RGE <u>65W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:00 am</u>		TIME LEFT LOCATION <u>9:00 am</u>				

WELL DATA

PRESSURE LIMITATIONS

HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>708</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>654</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>658</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lbs</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 PSF test Per Coman Circ 40 bbls kill the well to edge
Mix 3 sacks cement at 30% excess w/ yield 112 at 15.2 lbs or until cement stops release
Plug Disp 41.6 bbls 1720 Bump Plug 150 psi over lift psi 15 min Release psi Wash up rig down
1000 psi ok

Arrived w/ 750 str 4 gal kill 1100 edge 678 bbls slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 7:02 am Circ 7:36 Cement 7:44
stop cement 8:01 Drop Plug 8:06 Disp 8:06

10 bbls at 8:08 am	200 psi	Used 73 % excess
20 bbls at 8:11	320	Used 356 sacks cement
30 bbls at 8:12	360	64.6 bbls slurry
40 bbls at 8:17	296	
41.6 bbls at 8:20	530	
Bump Plug at 8:20 am	330 psi	

BBLS Back - 10

[Signature]

AUTHORIZATION TO PROCEED

TITLE

8/20/12
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.