

BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202
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TREATMENT REPORT

DATE	8-1-12	WELL NAME	Lorenz F22-17D	SECTION	22	TWP	5N	RGE	65W	COUNTY	Udd	FORMATION
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CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 226
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	6:45pm	TIME LEFT LOCATION	10:30pm

WELL DATA				PRESSURE LIMITATIONS			
HOLE SIZE	12 1/4	TUBING SIZE		PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH	628	TUBING DEPTH		SHOTS/FT			
PBD 572		TUBING WEIGHT		OPEN HOLE			
CASING SIZE	8 5/8	TUBING CONDITION					
CASING DEPTH	621						
CASING WEIGHT	2415	PACKER DEPTH					
CASING CONDITION	Good						

PRESSURE SUMMARY				TYPE OF TREATMENT			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[] ACID BREAKDOWN	MINIMUM BPM	FINAL BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	[] ACID STIMULATION	MAXIMUM BPM		
ANNULUS	psi	5 MIN SIP	psi	[] ACID SPOTTING	AVERAGE BPM		
MAXIMUM	psi	15 MIN SIP	psi	[] MISC PUMP			
MINIMUM	psi			[] OTHER			

INSTRUCTIONS PRIOR TO JOB: Rig up, set by morning, 1st day. Per cement crew 4/0 BBLs KCL H2O 2nd 1000 lbs, water. Pump 268 SKs cement at 30% excess of 1.27 yield of 152 lbs, or until cement stops up, Release Pkg. Dis 36.4 BBLs H2O, Pump Pkg at 150psi or Lift Pkg, wait 5 min Release Pkg, wash up Rig Down. Acid at 6000s cement 4000 KCL 1600 lbs. 60.6 BBLs H2O. H2O at 0.15

JOB SUMMARY
Description of Job Events: Set by morning 8:05pm for 8:13pm cement 8:14pm stopped 9:15pm. Dis 36.4 BBLs H2O, Pump Pkg at 150psi or Lift Pkg, wait 5 min Release Pkg, wash up Rig Down. Acid at 6000s cement 4000 KCL 1600 lbs. 60.6 BBLs H2O. H2O at 0.15

DATE	8-1-12	TITLE	
AUTHORIZATION TO PROCEED	Steve Rowe		

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.