

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11425

LOCATION CR 70461

FOREMAN Patrownd

TREATMENT REPORT

DATE 2-23-11	WELL NAME SHOEMAKER PC A12-69H	SECTION 12	TWP 6N	RGE 54W	COUNTY WYO	FORMATION
CHARGE TO NOBLE			OWNER			
MAILING ADDRESS			OPERATOR NOBLE			
CITY			CONTRACTOR H&P 333			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 5:54 AM			TIME LEFT LOCATION 12:45 PM			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 87	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PAVD 821.51	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 872		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			<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

INSTRUCTIONS PRIOR TO JOB Rig up, SAT meeting, per comm. circ 50 BBLs H₂O with KCL DYE in 2nd 10, mix & pump till DYE is seen then pump tub out at 15:20 1.27 yd 1.27 yd 1.27 yd Don't go over 30% excess w/ mix out talking to co-man, drop PLUG displace 63.5 BBLs 11:20, bump PLUG 500 PSI over lift PSI wait 5 min. Release PSI, washup Rig Down well 600 SKS, 3202 DYE, 15 QLS KCL

JOB SUMMARY
DESCRIPTION OF JOB EVENTS SAT 10:00 CIR @ 10:50 mix 11:02 drop PLUG 11:35 displace 11:40
10 11:42 200 PSI 5 BBLs min
20 11:44 230 PSI 5 BBLs min
30 11:46 320 PSI 5 BBLs min
40 11:48 340 PSI 5 BBLs min
50 11:50 470 PSI 5 BBLs min
60 11:53 360 PSI 3 BBLs min
63.5 11:56 310 PSI 1 PDL min
Bump PLUG 700 PSI at 11:56 AM float collar H₂O used 15% excess = 418 SKS = 94.5 BBLs slurry Augment 3 BBLs min 15 BBLs to PIT Left with 182 SKS 1602 DYE 10 QLS KCL

AUTHORIZATION TO PROCEED

TITLE

DATE