

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11230

LOCATION 80-69

FOREMAN Kirk Kallhauff
Mike P. Griston

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-12-12	Ball Branch AC 011-72 NW	3	7-N	6-36W	Weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR H&P 322			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 12:30am			TIME LEFT LOCATION 6:30am			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 880	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 827	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 870		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3615	PACKER DEPTH		SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			PRODUCTION CASING		INITIAL BPM
			SQUEEZE CEMENT		FINAL BPM
			ACID BREAKDOWN		MINIMUM BPM
			ACID STIMULATION		MAXIMUM BPM
			ACID SPOTTING		AVERAGE BPM
			MISC PUMP		
			OTHER		HYD HP = RATE X PRESSURE X 4.08

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, Set Plug, cement, Psil test, Per cement circ 60 BBLs H2O 2nd 100/ Dye, mix g Pump 475 SKs cement at 30% Excess at 1127 yield at 15.2 lbs cement all stopped By cement, Release Plug Disp 63.9 BBLs H2O Bump Plug At 150 psi over L. ft Psi, wait 5 min Release Psi, Wash up Rig Down H2O test ok
Arrived w/ 750 SKs cement 4 gal Red 16oz Dye 107.4 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Set Plug, cement 4:22am circ 4:48am cement 4:59am stop cement 5:22am
Drop Plug 5:25am Displace 5:25am
10 BBLs At 6 BBLs/min 5:28am 300psi Used 13% Excess
20 BBLs At 6 BBLs/min 5:30am 300psi Used 414 SKs cement
30 BBLs At 6 BBLs/min 5:31am 350psi 93.6 BBLs slurry
40 BBLs At 6 BBLs/min 5:33am 450psi
50 BBLs At 6 BBLs/min 5:35am 500psi
60 BBLs At 2.5 BBLs/min 5:37am 400psi
63.9 BBLs At 1 BBL/min 5:39am 350psi
Bump Plug 5:39am 500psi

L. ft 1/1 336 SKs cement 2g. 112g 1 SKL 6oz Dye BBLs Back 11
8-12-12

AUTHORIZATION TO PROCEED

TITLE

DATE