

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9518

LOCATION C-68-67

FOREMAN Kirk Kallhoff
Mike R, Teller L, Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-23-10	Gunner State AA16-99H2	16	6N	63W	Weld	

CHARGE TO Nole	OWNER
MAILING ADDRESS	OPERATOR Nole
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 11:00pm	TIME LEFT LOCATION 3:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 650	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBITD 640.23	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 9 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 685.47		TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 3615	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

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, psi test, circ 50 SKS H2O 2nd 10ml/Dye mix Pump 372 SKS cement at 30% excess at 1:27 yield at 1521bs cement till cement stops us. Release Plug Displace 49.4 BBLs H2O. Pump Plug at 150 psi over Lift Psi, vent 5 min, Release Psi wash up. Rig Down H2O test OK

Arrived w/ 650 SKS cement 4 gallons KCL 16oz Dye 83.9 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 1:30 am circ 1:53 am cement 2:04 am
Drop Plug 2:24 am Displace 2:24 am

10 BBLs @ 5.5 BBLs/m 2:27 am 350 psi
20 BBLs @ 5.5 BBLs/m 2:29 am 380 psi
30 BBLs @ 5.5 BBLs/m 2:31 am 440 psi
40 BBLs @ 3.5 BBLs/m 2:35 am 340 psi
49.4 BBLs @ 1.0 BBLs/m 2:40 am 280 psi
Bump Plug 2:40 am 410 psi

used 440 Excess
used 300 SKS cement
67.1 BBLs slurry

Lift w/ 350 SKS cement 2 gallons 3oz KCL 6oz Dye 13 BBLs Back 10

[Signature]

AUTHORIZATION TO PROCEED

TITLE

11-23-10

DATE