

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9602

LOCATION C-68-67

FOREMAN Kirk Kallhauf  
Mike R Guy

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-17-11	Wells Ranch PLAA 22-13	22	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade 22</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>8:30am</u>	TIME LEFT LOCATION <u>12:45pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>625</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBD 574.68</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 9/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>618.67</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb</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	[ ] ACID BREAKDOWN	MINIMUM 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	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi Test, circ 30 bbls KCL M20 2nd 10 wt Dye, mix Pump 26.5 SKS cement at 30% excess at 11:27am at 1512 lbs or until cement stops us, Release Plug Displace 36.6 BBLs M20 Pump Plug at 150psi or LIFT Psi, wait 5 min Release Psi washup Rig Down.

1470 test OK

Arrived w/ 575 SKS cement 4 gallons KCL 16 wt Dye

597 BBLs slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 11:02am circ 11:24am cement 11:32am

Drop Plug 11:52am Displace 11:52am

10 BBLs at 5.5 BBLs/m 11:54am 460psi

used 279 SKS cement

20 BBLs at 5.5 BBLs/m 11:56am 540psi

used 36% excess

30 BBLs at 3.5 BBLs/m 12:00pm 390psi

62.4 BBLs slurry

36.6 BBLs at 1.0 BBLs/m 12:04pm 320psi

Pump Plug 12:04pm 530psi

LPT w/ 296 SKS cement

3 gallons 2 wt KCL

602 Dye

BBLs Back 14

Jim Turner

Jim Turner

1-17-11

AUTHORIZATION TO PROCEED

TITLE

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.