

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10247

LOCATION 68 + 69

FOREMAN

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-11-11	Wells Ranch USX AA 11 65 HW	11	6N	63 W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H+P 343
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:45 AM	TIME LEFT LOCATION 6:30 PM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 686.7	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 629.98	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 674.73		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lbs	PACKER DEPTH		SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SOEZE 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 B

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, PST Test, Cier 50 BBIs, KCL/H<sub>2</sub>O 2nd 10 min Dye, mix 500 Pump 370 SKS Cement, at 30% excess at 1.27 yield at 15.2 lbs, or until Compres Stops US, no more than 50% excess per Comp men. Release Plug, Displace 48.6 BBL H<sub>2</sub>O. Bump the Plug 200 PSI over last, wait 5 min. Retest PST washup Rig down

Arrive with 575 SKS cement 4 gal KCL, 1602 Dye

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 4:11 pm Cier 4:59 pm Cement 5:12 pm

DROP Plug 5:33 pm Displace 5:33 pm

10 BBIs AT 5.0 BBIs/min 5:36 pm 280 psi

20 BBIs AT 5.0 BBIs/min 5:38 pm 340 psi

30 BBIs AT 5.0 BBIs/min 5:40 pm 400 psi

40 BBIs AT 3.5 BBIs/min 5:43 pm 340 psi

48.6 BBIs AT 1.0 BBIs/min 5:47 pm 280 psi

Bump Plug at 5:47 pm 450 psi

used 20% excess

used 342 SKS cement

77.3 BBIs slurry

Left with 233 SKS cement 2 gal 3/4 KCL & Dye

BBIs BACK 14

*[Signature]*

CO. Lf

8-11-11

AUTHORIZATION TO PROCEED

TITLE

DATE

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