

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11615

LOCATION L869

FOREMAN K. K. L. H. FF  
P. S. H. M. H. H.

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-11-12	Wells Ranch AA 24-63-14N	24	6N	63W	Weld	

CHARGE TO N24C	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR HEP 343
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 10:45 pm	TIME LEFT LOCATION 5:00 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 634	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBIT 582	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 624		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
CASING WEIGHT 36.15	PACKER DEPTH		1 SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION good			1 PRODUCTION CASING	INITIAL BPM	
			1 SQUEEZE CEMENT	FINAL BPM	
			1 ACID BREAKDOWN	MINIMUM BPM	
			1 ACID STIMULATION	MAXIMUM BPM	
			1 ACID SPOTTING	AVERAGE BPM	
			1 MISC PUMP		
			1 OTHER	HYD HP = 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, set log, mixing, Pithel, Per cement 40 Bbls Kcl H2O 2.1 100/1 Dye, mix Pump 342 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until all cement slips up, Release Plug Displace 44.9 Bbls H2O Pump Plug at 150 Psi cure 6.00 Psi, wait 5 min, Release Psi, washing Rig Down H2O test OK

Arrived w/ 600 sks cement 9 gal Kcl 16 cc dye 77.3 Bbls slurry

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Set log, mixing 1'02 gm cur 1'28 gm cement 1'37 gm displacement 1'56 gm Displace Plug 2'03 gm Displace 2'03 gm

10 Bbls at 6 Bbls/m 2'06 gm 400 psi

20 Bbls at 6 Bbls/m 2'10 gm 450 psi

30 Bbls at 6 Bbls/m 2'14 gm 500 psi

40 Bbls at 3.5 Bbls/m 2'11 gm 350 psi

44.9 Bbls at 1 Bbl/m 2'14 gm 300 psi

Pump Plug 2'14 gm 600 psi

used 40% Excess

used 369 sks cement

83.4 Bbls slurry

LFT 2/231 sks cement 3 gal Kcl 600 Dye

Bbls Run 14

AUTHORIZATION TO PROCEED

TITLE

DATE

Customer 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