

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10325

LOCATION 46-57

FOREMAN Kirk Kallhoff
Jossy Jeff

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-18-11	Wilmoth C 14-29	14	4N	64W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign #26
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00pm	TIME LEFT LOCATION 1:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 668	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 612	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 660		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	PACKER DEPTH		1 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 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 Rigged, safety meeting, Psitest Per coren, cler 40% H₂O, 2nd 104 Dye, mix Pump
283 SKs cement at 30% Excess at 11:27 yield at 15.2 Bbls until cement stops 48, no more than 50%
Excess, Release Plug Displ 38.9 BBlS H₂O, Bump Plug At 150 Bbls Lift PSI, wait 5 min Release PSI,
wash up Rig Down H₂O test OK
Arrived w/ 650 SKs cement 4 gal Kel 16oz Dye 64 BBlS slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 11:30pm circ 12:04am cement 12:16am
Drop Plug 12:14am Displace 12:14am

10 BBlS At 5.0 BBlS/m 12:48am 270psi used 66% Excess
20 BBlS At 5.0 BBlS/m 12:50am 340psi used 364 SKs cement
30 BBlS At 3.0 BBlS/m 12:52am 290psi 82.3 BBlS slurry
38.9 BBlS At 1.0 BBlS/m 12:58am 200psi
Bump Plug NO, Float Hauld

LFW 286 SKs cement 3 gal Kel 6oz Dye BBlS Back 6

[Signature]
AUTHORIZATION TO PROCEED

TITLE

DATE

10-18-11

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.