

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 9718

LOCATION cr 46-29

FOREMAN Kirk Kallhoff
Mike R LR Jrsic

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMAT
3-10-11	Five Rivers K08-24D	8	4N	66W	Weld	

LEASING TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:30am	TIME LEFT LOCATION 11:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 616	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 573.31	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 610.97		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM

PRESSURE SUMMARY					
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
MINIMUM psi			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test, circ 30 bbls KCL H2O, 2nd 10w/ Dye, mix & Pump 261 slks cement at 30% Excess, at 1.27 yield at 15.2 lbs or until cement stops vis, Release plug Displace 36.5 BBls H2O, Bump Plug At 150psi over Lift psi, wait 5min Release psi, wash up Rig down H2O test OK

Arrived w/ 575 slks cement 4 gal KCL 16oz Dye 58.8 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 9:45am circ 10:11am cement 10:22am
Drop Plug 10:47am Displaced 10:47am

10 BBls At 5.5 BBls/m 10:50am 310psi used 49% Excess
20 BBls At 5.5 BBls/m 10:52am 380psi used 300 slks cement
30 BBls At 3.5 BBls/m 10:55am 250psi 67.4 BBls slurry
36.5 BBls At 1.0 BBls/m 11:00am 210psi
Bump Plug 1.0 BBls/m 11:00am 380psi

Lift w/ 275 slks cement 3 gal 1qt KCL 6oz Dye BBls Back 6

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.