

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9605

LOCATION CR 54-257

FOREMAN Kirk Kallhoff
mike R Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-22-11	Booth 025-180	25	5N	67W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:30am	TIME LEFT LOCATION 9:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 680	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 624.29	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 669.79		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 24 lb	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION sand			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
PRESSURE SUMMARY			BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HHP = RATE X PRESSURE X 40.8		

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 fly, mudding, psi test, circ 40 BBLs KCL H2O and 10c/Dye, mix & Pump 288 SKS cement at 30% excess at 1.27 yd/lb at 152 lbs until man stops us. Release Plug Displace 39.7 BBLs H2O, Pump Plug at 150 psi over Lift psi, wait 5 min Release psi, wash up Rig down.

Arrived w/ 575 SKS cement 4 gallons KCL 16oz Dye 64.9 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: set fly, mudding 8:00am circ 8:21am cement 8:30am
Drop Plug 8:46am Displace 8:46am

10 BBLs @ 5.5 BBLs/m 8:49am 330psi used 13% excess
20 BBLs @ 5.5 BBLs/m 8:51am 410psi used 250 SKS
30 BBLs @ 3.5 BBLs/m 8:53am 310psi 56.4 BBLs slurry
39.7 BBLs @ 1.0 BBLs/m 8:58am 220psi
Pump Plug 8:58am 380psi

Lift w/ 325 SKS cement 3 gallons KCL 6oz Dye BBLs BCL 12

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.