

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9837

LOCATION 33-42

FOREMAN Kirk Kallho RP

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-4-11	mosier K 23-20D	23	4N	66W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 126
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:15am	TIME LEFT LOCATION 10:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 608	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 540	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		

TYPE OF TREATMENT			TREATMENT RATE		
CASING DEPTH 579	TREATMENT VIA		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING WEIGHT 2416	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
CASING CONDITION good			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	

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

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psi test, circ 3055 LK H2O 2nd 104 Dye, mix Pump 257 SKS cement at 1.27 yield at 152 PSI or until cement stops, Release Plug Displace 336 BBLs H2O, Bump Plug at 150 psi over LK Psi, wait 5 min Release Psi wash up Rig Down

Arrived w/ 575 SKS cement 4 gallons Kcl 16oz Dye H2O 104 Dye 58 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 7:42am circ 8:10am cement 8:24am
Drop Plug 9:00am Displace 9:00am

10 BBLs at 3.5 BBLs/m 9:04am 160 psi used 70% Eccress
20 BBLs at 3.5 BBLs/m 9:08am 260 psi used 336 SKS cement
30 BBLs at 2.5 BBLs/m 9:17am 340 psi 75.9 BBLs slurry
356 BBLs at 1.0 BBLs/m 9:22am 240 psi
Bump Plug 9:22am 370 psi

L Plug 239 SKS cement 3 gal 16 LK 6oz Dye BBLs Back 20

AUTHORIZATION TO PROCEED TITLE DATE 5-4-11

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.