

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9553
LOCATION WCR 52+292
FOREMAN Daniel Seltman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-29-11	Booth N25-320	26	3N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN 55</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:58 AM</u>	TIME LEFT LOCATION <u>10:30 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>871.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 828.83</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>865.52</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>25 #</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER	HYD HHP = 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, Safety meeting, Psi test, Circ 50 bbls of H₂O w/ KCL 2nd low 100 bbls e mix + pump 368 sks of cement @ 30% Excess @ 15.2" @ 6.27 yd/d or until stopped by Co M
Drop Plug Displace 52.6 bbls of H₂O, Bump Plug @ 150 psi over 1 ft psi wait 5 min
Release psi washup Rig Down H₂O test OK
Arrival w 200 sks of Cement 491 KCL 32oz Due 83.2 bbls of Slurry

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety meeting 8:05 AM - Over 8:13 AM Cement 8:25 AM
Drop Plug 8:47 AM Displace 8:47 AM

10 bbls 6.0/m 410 psi 8:55 AM	used 286 sks of cement 0% Excess 64.6 bbls of slurry
20 bbls 6.0/m 430 psi 8:57 AM	
30 bbls 6.0/m 550 psi 8:59 AM	
40 bbls 6.0/m 490 psi 9:01 AM	
50 bbls Bump at 46 bbls of mix water	
52.6 bbls Bump at 1300 psi 9:02 AM	
Bump Plug	

Left w 414 sks of Cement 291 skt KCL 22oz Due 25 Back to Pit

1-29-11

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.