

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9746
LOCATION WCR 47 + 50
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-8-11	Welded Keller PC 601-300	1	4N	65W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:23 PM</u>	TIME LEFT LOCATION <u>3:45 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>7450</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTP 694.79</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>73902</u>		TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>24 #</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 40 bbls of H₂O w/ KCL 2nd 10w 100cc Dye, Mix + Pump 315 sks of cement @ 30% Excess @ 15.2 lb @ 1.27 y.cld or until stopped by Co man, Drop Plug Displace 44.2 bbls of H₂O Bump Plug @ 150 psi over lift psi. wait 5 min Release PSI washup Rig Down 1/20 test ok

Arrived w/ 750 sks of cement 491 KCL 32oz Dye 71.2 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 1:48 AM Circ 2:19 AM Cement 2:28 AM Drop plug 2:46 AM Displace 2:46 AM

10 bbls	5.0/m	170psi	2:50 AM	0% Excess
20 bbls	5.0/m	200psi	2:52 AM	243 sks of cement
30 bbls	5.0/m	330psi	2:54 AM	549 bbls of Slurry
40 bbls	2.5/m	280psi	2:57 AM	
44.2 bbls	1.0/m	180psi	3:00 AM	
Bump Plug		440psi	3:00 AM	

Left w/ 507 sks of cement 391 KCL 22oz Dye

7 bbls of Slurry Back

Roger Foster

AUTHORIZATION TO PROCEED

WSS

TITLE

3-8-11

DATE