

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9814
LOCATION WCR 14 + 37
FOREMAN Daniel Sg Heman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-18-11	Miller X 31-06	31	2N	65W	Weld	

CHARGE TO <u>Nohle</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Nohle</u>
CITY	CONTRACTOR <u>ENSIAN 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>2:42 AM</u>	TIME LEFT LOCATION <u>6:15 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1046.2</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTP 99484</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>10370</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>29#</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 Pigup, Safety meeting, psi test, Circ 40 bbls of H₂O w KCL 2% 100oz Dye, mix + pump Lead
315 SKS of Cement BFW III Neat @ 14.8" @ 1.32 yd, yield 30% Excess Bring up weight to 15.2" BFW III 3%
Pump 100 SKS @ 1.27 yd, Drop Plug Displace 63.3 bbls of H₂O, Bump Plug @ 150 psi over lift psi
44.1 gpm Release psi washup Rig Down
Arrival w 500 SKS Neat 200 SKS 3% 591 KCL 320z Dye 96.6 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS			
<u>Safety meeting</u>	<u>4:22 AM</u>	<u>Circ 5:01 AM</u>	<u>Cement 5:13 AM</u>
<u>Drop Plug</u>	<u>5:42 AM</u>	<u>Displace</u>	<u>5:42 AM</u>
<u>10 bbls 5.0/m</u>	<u>190 psi</u>	<u>5:46 AM</u>	
<u>20 bbls 5.0/m</u>	<u>270 psi</u>	<u>5:49 AM</u>	
<u>30 bbls 5.0/m</u>	<u>400 psi</u>	<u>5:54 AM</u>	
<u>40 bbls 5.0/m</u>	<u>450 psi</u>	<u>5:56 AM</u>	
<u>50 bbls 5.0/m</u>	<u>510 psi</u>	<u>5:58 AM</u>	
<u>60 bbls 2.5/m</u>	<u>490 psi</u>	<u>6:00 AM</u>	
<u>63.3 bbls 1.0/m</u>	<u>420 psi</u>	<u>6:03 AM</u>	
<u>Bump Plug</u>	<u>590 psi</u>	<u>6:03 AM</u>	

Left w 185 neat 100 3% Cement 491 KCL 220z Dye 33 bbls of Slurry Back

[Signature]
AUTHORIZATION TO PROCEED

TITLE

5-18-11

DATE