

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9562
 LOCATION Hwy 392 & 63
 FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-23-11	Basher PC AA-17-18	17	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:24 pm</u>	TIME LEFT LOCATION <u>2:46 am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>58010</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 527.91</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>569.68</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 OF 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 Ris up, Safety meeting, PSI test, Circ 30 bbls at H₂O w/ KCL 2nd 10 w/ 10oz Dye mix + pump 246
SKs of Cement @ 30% Excess @ 152¹⁵ @ 1.27 yield or until stopped by Co. Annul. Drop Plug Displace 33.5 bbls of
H₂O Pump Plug @ 150 psi over 1.6 ft psi unit 5 min Release psi wash up R. is Down

Arrived w 60 SKs of Cement 4 gal KCL 32oz Dye 55.6 bbls of Slurry
H₂O test ok

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety meeting 1:22 AM Circ 1:44 AM Cement 1:54 AM
Drop Plug 2:19 AM Displace 2:19 AM

<u>10 bbls 5.0 l/m 290 psi 2:24 AM</u>	<u>used 307 SKs of Cement</u>
<u>20 bbls 5.0 l/m 290 psi 2:26 AM</u>	<u>62% Excess</u>
<u>30 bbls 2.5 l/m 210 psi 2:29 AM</u>	<u>69.4 bbls of Slurry</u>
<u>33.5 bbls 1.0 l/m 200 psi 2:33 AM</u>	
<u>Pump Plug 380 psi 2:33 AM</u>	

Left w 293 SKs 3 gal 1 gal KCL 22oz Dye
27 bbls of Slurry Back

I am Bowma WSS 2-23-11
 AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledge and specifically agree 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.