

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-298-8143
 E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10187

LOCATION WCR 396+27.5

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-22-11	FIVE RIVERS K 09-30D	4	4N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>SAXON Rig 145</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:30 AM.</u>	TIME LEFT LOCATION <u>4:00 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>586</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 535.78</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		


		TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH <u>579.21</u>	TREATMENT VIA	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH	<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
CASING CONDITION <u>Good</u>		<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, per Company Man, Circ 30 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump till Dye is seen then pump tub only at 152 lbs 1.27 yield, Don't go over 50% excess without talking to Company Man, Drop plug, Displace 34.1 bbls H₂O, Bump plug at 150 PSI over Lift PSI, wait 5 min, then bleed off PSI, Washup, Rig down, H₂O Tested good, We have 705 SKs, 32 oz Dye, 10 Qts KCL

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety Meeting 1:52 pm, Circ 2:37 pm, Cement 2:43 pm to 3:01 pm
Drop Plug 3:03 pm, Displace 3:04 pm
10 bbls 470 Psi 3:07 pm 7.0 bbls/m
20 bbls 510 Psi 3:09 pm 7.0 bbls/m
30 bbls 440 Psi 3:10 pm 4.5 bbls/m
34.1 bbls 300 Psi 3:12 pm 1.0 bbls/m
Bump Plug 530 Psi at 3:12 pm Float Collar Held
USED 5 7/8 % EXCESS = 300 SKs, 67.85 bbls Slurry
Aug CEMENT 3.76 bbls/m
Left with 405 SKs, 16 oz Dye, 7 Qts KCL

17 bbls Slurry To The Pit


 AUTHORIZATION TO PROCEED

Co-Man
 TITLE

7-22-11
 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.