

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 # 10229

LOCATION 22-31

FOREMAN Kirk Kallhoff
miker LR marks

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-14-11	Cannon W 15-19	15	2N	66W	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>7:00am</u>	TIME LEFT LOCATION <u>12:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
<u>12 1/4</u>					
TOTAL DEPTH <u>1006</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>951.41</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>996.51</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2416</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"/> SOEEZE 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, Ps test, circ 60 bbls KCL H2O, 2nd 10 gal Dye, mix & Pump Lead cement 254 sks at 10% excess at 1.32 yield at 14.8 l/s, mix & Pump tail cement 100 sks at 1.27 yield at 15.2 l/s or until company man stops us, Per Coman, Release plug, Disp 60.6 BBLs H2O, Bump Plug at 150 psi over LIFT Psi, wait 5 min, Release Psi, wash up Rig Down H2O test OK

Arrived w/ 200 sks tail cement 450 sks lead cement 4 gal KCL 16 gal Dye 59.5 BBLs slurry Lead / 22.6 tail

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 9:50 am circ 10:01 am cement 10:16 am

Drop Plug 10:44 am Disp 10:44 am
10 BBLs at 4.0 BBLs/m 10:48 am 100 psi used 254 sks cement Lead 10% exc
20 BBLs at 3.5 BBLs/m 10:52 am 130 psi 59.5 BBLs slurry
30 BBLs at 3.5 BBLs/m 10:55 am 240 psi used 100 sks cement tail
40 BBLs at 3.0 BBLs/m 11:02 am 250 psi 22.6 BBLs slurry
50 BBLs at 2.0 BBLs/m 11:07 am 420 psi 354 sks cement total
60 BBLs at 1.0 BBLs/m 11:16 am 390 psi 82.1 BBLs slurry total
60.6 BBLs at 1.0 BBLs/m 11:16 am 390 psi
Bump Plug 11:16 am 530 psi

LIFT w/ 100 sks cement tail 196 sks cement Lead 2 gal 2 gal KCL & Dye BBLs Back 4

(Paul W. Den) Consultant 7-14-11 DATE

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