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 # 11431
LOCATION CR 38+29
FOREMAN Pat Noud

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-5-12	Kern L04-20D	4	3N	66W	Weld	

CHARGE TO NOBLE	OWNER
MAILING ADDRESS	OPERATOR NOBLE
CITY	CONTRACTOR Eusi 8N 126
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:00 Am	TIME LEFT LOCATION 6:00 AM

WELL DATA

HOLE SIZE 12¼	TUBING SIZE	PERFORATIONS
TOTAL DEPTH 715	TUBING DEPTH	SHOTS/FT
PBTD 660	TUBING WEIGHT	OPEN HOLE
CASING SIZE 8 5/8	TUBING CONDITION	
CASING DEPTH 710		TREATMENT VIA
CASING WEIGHT 24#	PACKER DEPTH	
CASING CONDITION 600D		

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE ANNULUS LONG		
STRING		
TUBING		

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		

TYPE OF TREATMENT	TREATMENT RATE
[X] SURFACE PIPE	BREAKDOWN BPM
[ ] PRODUCTION CASING	INITIAL BPM
[ ] SQEEZE CEMENT	FINAL BPM
[ ] ACID BREAKDOWN	MINIMUM BPM
[ ] ACID STIMULATION	MAXIMUM BPM
[ ] ACID SPOTTING	AVERAGE BPM
[ ] MISC PUMP	
[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up safty meeting, ~~circ 40BBL~~ per coman circ 40BBLS H2O with KCL
Dye in 2nd 10 mix + pump till dye is seen then pump thd only at 15.2# 1.27 yield
Dont go over 30% excess with out talking to co-man, drop plug displace 42BBLS H2O
Bump plug 150 psi over lift psi wait 5 min, release psi, washup rig down
we have 700 sks 3202 dye 8 qts KCL

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safty 354 circ 4:35 mix 4:43 drop plug 4:59
Displace 5:02
10 504 180 psi 5 BBLS min
20 506 300 psi 5 BBLS min
30 508 430 psi 5 BBL min
42 5:17 280 psi 1 BBL min
Bump plug 420 psi at 5:17 Am float collar held
used 16% excess = 271 sks = 61 BBLS slurry
Avg cement 4.3 BBLS per min
Left with 429 sks 1602 dye 4 qts KCL

7 BBLS to pit

[signature] 3-5-12

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.