

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 # 11362

LOCATION WCA 74+61

FOREMAN Mike Rosale

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-28-12	FOSS 06-31	C	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cad-21</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:00 AM</u>	TIME LEFT LOCATION <u>5:00</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>540</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>487.57</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	

CASING DEPTH	533	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT	241BS	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION	Good		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM

PRESSURE SUMMARY			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP	
MINIMUM	psi			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Saffymuck, PSE TEST 500 PSI Circ 30 BBls H₂O/KCL mix and 10 Dye, mix + Pump 229 sks Cement (30% EXCESS) at 127 gals at 15-2 lbs or until Compensator stoppers, Release Plug Displace 31 BBls H₂O Pump Plug 150 PSE over 15' wait 5 min Release PSE, Washup Rig Down H₂O TEST Cool
Arrived with 600 sks Cement 10 gals KCL 1600 Dye Slurry 51.79

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Saffymuck 2:55 AM Circ. 3:35 AM Cement 3:41 AM
Drop Plug 4:04 AM Displace 4:04 AM

10 BBls at 5-0 BBls/m 4:08 AM 190 PSI used 41 90 EXCESS
20 BBls at 5-0 BBls/m 4:12 AM 330 PSI used 249 sks Cement
30 BBls at 1-0 BBls/m 4:15 AM 230 PSI Slurry 56.32
31 BBls at 1-0 BBls/m 4:17 AM 290 PSI
Bump Plug 1-0 BBls/m 4:17 AM 490 PSI

Flow Collar held

BBls Back to P.T

Left with sks Cement 9 gals KCL 13 @ Dye

(17)

Lloyd Rowell

1-28-12

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.