

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 # 10237

LOCATION 46-29

FOREMAN Kick Kallho FS
miller CR

TREATMENT REPORT

DATE 7-27-11	WELL NAME Five Rivers K08-17D	SECTION 8	TWP 4N	RGE 66W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 121				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 11:30am		TIME LEFT LOCATION 3:15pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 613	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD 562.42	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 606.5		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SOOZE 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, safety meeting, psi test, circ 40 bbls KCL H2O, 2nd 10 min Dye, misc Pump 259 sks cement at 30% excess at 1.27 yrild at 15.2 lbs, or until cement stops, no more than 80% excess per cement, Release Plug Disp 35.8 BBLs H2O, Bump Plug At 150 psi over lift psi, wait 5 min Release psi, washup Rig Down H2O test OK

Arrived w/ 750 sks cement 4 gal KCL 16 gal Dye 58.5 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: safety meeting 12:43 pm circ 1:52 pm cement 2:02 pm

Drop Plug 2:21 pm Disp 2:21 pm

10 BBLs At 5.0 BBLs/m 2:24 pm 270 psi

20 BBLs At 5.0 BBLs/m 2:26 pm 370 psi

30 BBLs At 3.5 BBLs/m 2:29 pm 340 psi

35.8 BBLs At 1.0 BBLs/m 2:34 pm 280 psi

Bump Plug 2:34 pm 490 psi

used 30% excess

used 259 sks cement

58.5 BBLs slurry

Lift w/ 491 sks cement 3 gal KCL 16 gal Dye

BBLs Back 3

Ray Stetson

AUTHORIZATION TO PROCEED

TITLE

7-27-11

DATE