

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 # 9377

LOCATION CR53-76

FOREMAN Kirk Kallhauff
Mike R Tucker L Guy +

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-3-10	Gable 451 AB 21-13P	21	7N	64W	weld	
CHANGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Calc 22				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 9:30am		TIME LEFT LOCATION 5:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 855.3	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 809.97	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 849.16		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SOEEZE 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 50 BBls H2O 2nd 100' Dye, mix E, Pump 362 SKS cement at 30% excess at 1.27 yd at 15.2 lbs/sec until roman stops 45, Release Plug Displace 51.5 BBls H2O Bump Plug at 150 PSI over LFT PSI wait 5 min Release PSI, wash up Rig Down.

Arrived w/ 575 SKS cement 4 gallons KCL 16oz Dye H2O test ok
81.7 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: safety meeting 3:14pm circ 3:33pm cement 3:46pm
Drop Plug 4:06pm Displace 4:06pm

used 79% excess
used 300 SKS cement
67.2 BBls slurry

10 BBls @ 5.5 BBls/m 4:09pm 360psi
20 BBls @ 5.5 BBls/m 4:11pm 370psi
30 BBls @ 5.5 BBls/m 4:13pm 470psi
40 BBls @ 5.5 BBls/m 4:15pm 570psi
50 BBls @ 1.0 BBls/m 4:20pm 350psi
51.5 BBls @ 1.0 BBls/m 4:21pm 350psi
Bump Plug 4:21pm 470psi

LFT w/ 275 SKS 2 gallons 3gts KCL 6oz Dye BBls Back)

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