

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11507

LOCATION 392-57

FOREMAN Kirk Kallbach
Pete Mike

TREATMENT REPORT

DATE 5-7-12	WELL NAME Raygo A 14-68-14N	SECTION 14	TWP 6N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR HEP 323				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 2:30pm		TIME LEFT LOCATION 2:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 871	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 815.08	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 861.23		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3615	PACKER DEPTH		+ SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE 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: Rigged, Safety meeting, Permitted, Performed C/C 60 BBls KCL H2O, 2nd 106 1/2 Dye, Mix & Plug 470 sks cement at 127 yd at 15.2 lbs or until cement stops us, Release Plug, Disp 63 BBls H2O Bump Plug At 150psi our LPT Psi, wait 5 min Release Psi, wash up Rig Down

Arrived w/ 750 sks cement 4 gal KCL 16oz Dye

H2O test OK
106.3 BBls slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 12:17 pm C/C 12:33 pm cement 12:43 pm stop cement 1:04 pm

Drop Plug 1:06 pm Displace 1:06 pm
10 BBls At 6 BBls/m 1:09 pm 350 psi
20 BBls At 6 BBls/m 1:10 pm 350 psi
30 BBls At 6 BBls/m 1:11 pm 350 psi
40 BBls At 6 BBls/m 1:13 pm 450 psi
50 BBls At 6 BBls/m 1:14 pm 500 psi
60 BBls At 2.5 BBls/m 1:16 pm 380 psi
63 BBls At 1.0 BBls/m 1:18 pm 300 psi
Bump Plug 1:18 pm 690 psi

Used 414 sks cement
Used 14% EXCESS
93.6 BBls slurry

LPT w/ 336 sks cement 2 gal 2% KCL

BBls Bank 2

[Signature]
AUTHORIZATION TO PROCEED

TITLE

5-7-12

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.