

FRACTURING SERVICE TREATING RE

00169347

BILLED ON
TICKET NO. 630211

FORM #2012 R-3

Field 21 Sec. 54 Twp. 54 WELL DATA Rng. 16 County WELD State CO

Formation Name Lode II Type

Formation Thickness From To

Initial Prod: Oil Bpd. Water Bpd. Gas Mcfd.

Present Prod: Oil Bpd. Water Bpd. Gas Mcfd.

Isolation Tool # Mandrel Size Extensions In.

Packer Type Set At

Bottom Hole Temp. RBPE

Head Or Flange Pstd

CASING NEW USED WEIGHT SIZE FROM TO MAXIMUM PSI ALLOWABLE

LINER

TUBING

OPEN HOLE

PERFORATIONS

PERFORATIONS

PERFORATIONS

MATERIALS

Treat. Fluid LCC Density Lb./Gal. API

Displ. Fluid LCC Density Lb./Gal. API

Prop. Type Bulk Sand Size 20/40 Lb. 300000

Prop. Type Size Lb.

Radioactive Tracer Carrier Units-MCI

Surfactant Type LCC Gal. 35 @ /1000 Gal.

Surfactant Type Gal. @ /1000 Gal.

Fluid Loss Type Gal.-Lb. @ /1000 Gal.

Gelling Agent LCC Gal.-Lb. 565 @ /1000 Gal.

Gelling Agent Gal.-Lb. @ /1000 Gal.

Breaker Type SP Gal.-Lb. 5 @ /1000 Gal.

Breaker Type GRW-3 Gal.-Lb. 5 @ /1000 Gal.

Crosslinker G-4-18 Gal.-Lb. 33 @ /1000 Gal.

Stabilizer G-51-57A Gal.-Lb. 400 @ /1000 Gal.

Buffer Type Gal.-Lb. @ /1000 Gal.

Buffer Type 13A-40 Gal.-Lb. 400 @ /1000 Gal.

Bactericide Gal.-Lb. @ /1000 Gal.

Non-Foamer Gal.-Lb. @ /1000 Gal.

Clay Control CLA-Fix II Gal.-Lb. 101 @ /1000 Gal.

Diverter Gal.-Lb. @ /1000 Gal.

Friction Reducer Gal.-Lb. @ /1000 Gal.

Perfpac Balls Qty. Size S.G.

Other

JOB DATA

CALLS OUT ON LOCATION JOB STARTED JOB COMPLETED

DATE 12-8 DATE 12-8 DATE 12-8 DATE 12-8

TIME 1100 TIME 1200 TIME 1355 TIME 1644

PERSONNEL AND SERVICE UNITS

NAME UNIT NO. & TYPE LOCATION

CARTER 46623 50028 Brignton

MARSHALL C9171 5866 "

CORLEY 80893 5603 "

VAN FLEET D1708 5893 "

MANN C9167 7013 "

LUCERO C9137 6494 "

WILLIAMS 81400 0186 "

SPARKS 56577 5350 "

LAURSEN 48932 "

YEGGER 70154 Eng "

RECEIVED

FEB 27 1989

COLO. OIL & GAS CONS. COMM.

ACID DATA

Acid Type % Gal.-Bbl.

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Surfactant Type Gal. @ /1000 Gal.

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NE Agent Type Gal. @ /1000 Gal.

Clay Control Type Gal.-Lb. @ /1000 Gal.

Corrosion Inhibitor Gal.-Lb. @ /1000 Gal.

Corrosion Inhibitor Gal.-Lb. @ /1000 Gal.

Cracking Inhibitor Gal.-Lb. @ /1000 Gal.

Iron Sequester Gal.-Lb. @ /1000 Gal.

Friction Reducer Gal.-Lb. @ /1000 Gal.

DEPARTMENT STIMULATION

DESCRIPTION OF JOB MT-T-FROC HT

JOB DONE THRU: TUBING CASING ANNULUS TSS./ANN.

PRESSURES IN PSI

Circulating Displacement

Breakdown Maximum 5600

Average 4500 Fracture Gradient

ISIP 3740 5 Min. 3490 10 Min. 3400 15 Min.

HYDRAULIC HORSEPOWER

Ordered 3000 Available 3000 Used

AVERAGE RATE IN BPM

Treating 12 Displ. 12 Overall 12

SUMMARY

Preflush: Bbl.-Gal. Type

Lead & Bkdn: Bbl.-Gal. Pad: Scf-Bbl.-Gal. 15000

Treatment: Bbl.-Gal. 41000 Displ: Bbl.-Gal. 4200

Gas Assist Tons-Scf @ Scf./Bbl.

Foam Quality % Total Volume Foam Bbl.-Gal.

Total Volume: Bbl.-Gal. 10700 Fluid-Foam

REMARKS

Customer Representative X Frank Anderson

Copies Requested

Halliburton Operator R Carter

CUSTOMER