

Rhodes Yates Unit #13
660' FSL & 660' FWL, Sec 27, T26S, R37E
Lea County, New Mexico
API# 30-025-25693

6/10/2010

Injector Cleanout and Reactivation

Well Data

Tubing: 2-3/8", 4.7#, J-55 Cement Lined
Casing: 5-1/2", 14#, J-55 @ 3450'
TD: 3450' PBTB: 3378' Elevation: 2989' GL 14' KB

Baker Model AD-1 Injection Packer @ 2984' (by permission of NMOCD in 1993)

Rhodes Yates Seven Rivers Perforations

3167', 3177', 3181', 3186', 3189', 3197', 3200', 3203', 3209', 3213', 3219', 3222',
3224', 3233', 3238', 3242', 3249', 3251', 3253', 3255', 3257', 3266', 3268', 3274',
3277', 3284', 3286', 3292'; 1 spf
3312', 3320', 3327', 3336', 3342', 3349'; 2 spf

CIBP @ 3390' with 12' cmt on top (PBTB @ 3378')

Rhodes Yates Seven Rivers Perforations

3402' & 3410'; 2 spf

Procedure

1. Comply with all company and governmental safety regulations.
2. Rig up pulling unit. Unset Baker Model AD-1 injection packer and lay down 2-3/8" cement lined injection tubing.
3. TIH with 4-3/4" bit and collars on 2-7/8" workstring. Clean well out to PBTB @ 3378' with reverse unit. TOH with bit and collars.
4. TIH with 5-1/2" treating packer on 2-7/8" workstring. Set packer at +/-2984'. Acidize Rhodes Yates Seven Rivers 3167' - 3349' (34' net) with 3000 gal 80/20 acid/solvent (2400 gal 15% HCl and 600 gal toluene) with rock salt in 10# brine as diverter. Hold 300 psig on casing/workstring annulus during acid job. Flush acid to top perforation. TOH with treating packer. Lay down workstring.
5. TIH with 5-1/2" injection packer on 2-3/8", 4.7#, J-55 IPC or Glassbore injection tubing. Set packer at +/-2984'. Pressure test casing/tubing annulus to 500# for 30 minutes. Flange up wellhead and rig down pulling unit. Schedule MIT with NMOCD. Return well to injection.

Rhodes Yates Unit #13
Unitized interval is
Yates + 7R formations
T/ Yates = 3024'
T/ 7R = 3358'
TD of Well = 3450'

pk @ 2984' $\Delta = 40'$
WWW.ALLIANCEDF.COM
432-684-0911

3rd floor
NMOCD building
Terry Warnell
505-476-3466

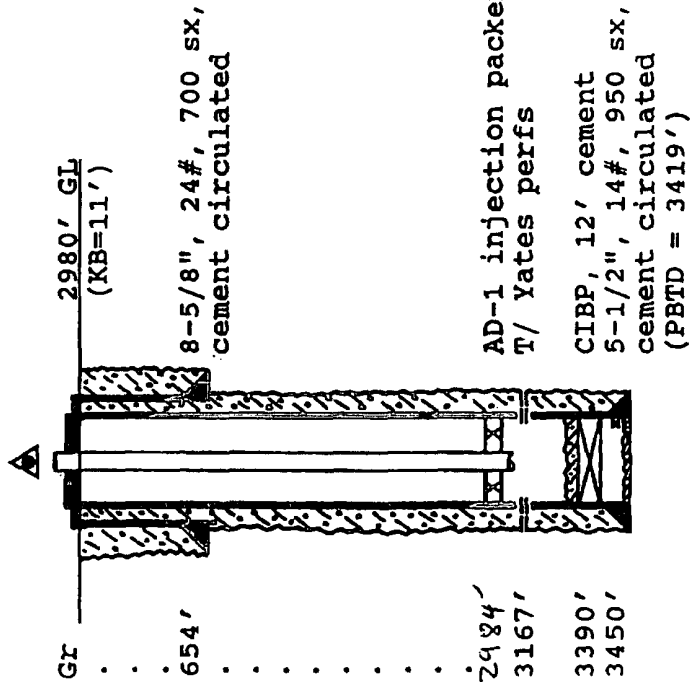
Proposed Injection Conversion

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes Yates Unit #13

FOOTAGE LOCATION: 660 FSL X 660 FWL sec./Twn/Rng: Unit M, Sec 27, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



Surface Casing: TABULAR DATA Set at 654'

Size 8-5/8", 24# Cemented with 700 sx.

TOC surface ' determined by circulated

Hole Size 12-1/4" Comp. Date 2-15-78

Intermediate casing: Set at _____

Size NONE Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at 3450'

Size 5-1/2", 14# Cemented with 950 sx.

TOC surface ' determined by circulated

Hole Size 7-7/8"

Injection Interval:

3167' to 3349' through: Perforations

Tubing: 2-3/8", 4.7#, J-55

Tops:

Salt 1215'-2878'

Yates 3045'

Seven Rivers 3362'

Warnell, Terry G, EMNRD

From: Warnell, Terry G, EMNRD
Sent: Wednesday, August 04, 2010 3:49 PM
To: Dickey, Sylvia, EMNRD
Cc: Hill, Larry, EMNRD; 'Jwacker@blackoakres.com'
Subject: BC Operating Rhodes Yates Well No. 13

Sylvia,

This afternoon Jason Wacker stopped by the office to review their recently run casing inspection log on the #13 well.

I agree with Mr. Wacker's interpretation and was pleased to see the pipe is still in fairly good shape. However, there are strong indications the packer will not be able to set within a 100 feet of the top perf and pass a MIT.

Based on our meeting I approve of BC Operating setting the packer within 100 feet of the top of the unitized interval of 3,024 feet.

Regards,

Terry G. Warnell
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3466