



dugan production corp.



3/19/2007

30-045-30954

Surface - Federal.

New Mexico Oil Conservation Division
1220 South St. Francis Drive (Pinon Bldg)
P.O. Box 6429
Santa Fe, NM 87505

Re: Molly Pitcher SWD 4, Step-Rate-Test Request

Mr. Catanach / Mr. Perrin:

Dugan Production Corp. proposes to conduct a step-rate-test at the Molly Pitcher 4 SWD well. The well is located in Sec. 14, Twn. 30N, Rng 14W, 2610' FNL & 425' FEL. Injection is authorized by ADMINISTRATIVE ORDER SWD-840.

A wellbore schematic is attached.

Injection History:

Date	Pressure	Injection Volume
11/2002	350	10,355
12/2002	350	25,970
01/2003	400	21,396
02/2003	500	45,944
03/2003	500	48,670
04/2003	520	48,740
05/2003	580	52,400
06/2003	630	56,340
07/2003	630	55,607
08/2003	610	56,209
09/2003	625	50,053
10/2003	600	26,794
11/2003	600	44,780
12/2003	675	40,853
01/2004	650	39,421
02/2004	600	17,613
03/2004	550	37,481
04/2004	550	27,912
05/2004	550	38,267
06/2004	430	22,212
07/2004	714	39,062
08/2004	700	39,625
09/2004	480	52,147
10/2004	400	52,251
11/2004	400	52,823

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DIST. 3

(see p. 2)

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12/2004	400	41,245
02/2005	620	41,238
03/2005	400	22,101
04/2005	465	36,172
05/2005	600	13,498
06/2005	630	29,044
07/2005	760	43,433
08/2005	665	52,126
09/2005	640	35,580
10/2005	745	45,165
11/2005	680	33,197
12/2005	680	38,871
01/2006	640	38,064
02/2006	640	26,019
03/2006	640	36,280
04/2006	820	46,553
05/2006	800	43,895
06/2006	760	40,624
07/2006	820	46,609
08/2006	760	38,161
09/2006	800	38,130
10/2006	795	42,367
11/2006	795	35,720
12/2006	797	37,611
01/2007	800	37,668
02/2007	800	32,335

The well was not fracture treated.

A bottom hole pressure recording device will be installed on slick line at the top perforation.

The well will be shut-in for 24 hrs. prior to commencement of the test.

Starting pump rate will be 0.5 bpm and increased at 0.5 bpm each 15 minutes.

Pumping equipment will be able to pump at the rates and pressures needed for the test.

Adequate water will be available to complete the test.

Casing and bradenhead pressures will be monitored during the test.

The wellhead equipment will be rated for the anticipated pressures.

→ The Aztec NMOCD office will be notified at least 24 hours before starting the test.

Sincerely



John Alexander
Vice President

CC:

New Mexico Oil Conservation Division
1000 Rio Brazos
Aztec, NM 87410

Attachments

Dugan Production Corp.
Molly Pitcher SWD 4
2620' fml & 425' fwl S. 4 - T. 30N - R. 14W
San Juan Co., NM

8-5/8" 24 lb/ft. casing @ 228'.
Cement to surface.

Stage Tool @ 1806'.

Tubing 2-7/8" EUE 6.5 lb/ft. plastic lined.

Packer @ 4,068'. Baker AD-1 tension.

Perforations 4,132'-4,290' with one shot per two feet (total 78 holes)

5-1/2" 15.5 lb/ft. casing @ 4600'. Stage tool @ 1806'.
Stage 1 cement: 179 sx. Premium Lite FM with 8% gel, 5#/sx LCM-1,
1/4# celloflake and .4% sodium metasilicate.
Tailed with 245 sx. Type III cement with 1% CaCl₂ and 1/4# celloflake.
Circulate 5 bbls cement to surface.
Stage 2 cement: 200 sks. Premium Lite FM with 8% gel
5 lb/sk LCM-1, 1/4# celloflake, 0.4% sodium metasilicate, 3% CaCl₂.
Tailed with 75 sks. Type III cement with 1% CaCl₂ and 1/4# celloflake.
Circulate 10 bbls to surface.