

16. RD Dowell. Unset pkr and lower to bottom perf to knock balls off of perfs. PU packer to previous depth and set pkr. RU swab line. Swab well for 1 day to clean up unspent acid and to determine fluid entry. The well will be fraced according the procedure below unless swab results indicate high fluid entry and 100% water. Contact Jon Snell at 688-6244 to discuss if necessary.
17. RU Dowell to nitrogen frac well as follows. Test treating lines to 6000 psi.

BASIC MATERIALS: 49,600 lb. of 12/20 mesh Brady Sand
 FLUID RESUME: 18,300 gal Foam 60Q-40Q
 8,320 gal WF140
 2,000 gal WF140 Tank Bottoms
 247,000 SCF Nitrogen
 30,000 SCF Nitrogen Cooldown

 10,520 gal Total Fluid

Fracture:

Depth(ft): Top 4395 Bottom 4418
 Rate(bpm): max 20 average 18
 Press(psi): max 6000 average 4500
 Service Co* DOWEL DOWELL-SCHLUM

Frac Composition:

Function*	amt	Brand name
<u>KCL</u> KCL	<u>167 PPT</u>	
<u>GELL</u> GELLING AGENT	<u>9 GPT</u>	<u>J-877 Liq Slurry Gel</u>
<u>BACT</u> BACTERIACIDE	<u>0.3 GPT</u>	<u>M275</u>
<u>BREA</u> BREAKER	<u>1.5 GPT</u>	<u>J-318 Breaker Aid</u>
<u>BREA</u> BREAKER	<u>4 PPT</u>	<u>J-218 Breaker</u>
<u>FOAM</u> FOAMER	<u>5 GPT</u>	<u>F-52.1 Foamer</u>

Design:

Stage	Fluid (ppg)	Vol(gal)	Cum Fluid Vol(gal)	Dirty Vol(bbls)	Cum Dirty Vol(bbls)	Prop(lb)	Cum Prop(lb)	Prop Size
Pad	7600		7600	181	181	0	0	-----
1.0	800		8400	19.9	201	800	800	12/20
3.0	1500		9900	40.6	241	4500	5300	12/20
5.0	3400		13300	99.3	341	17000	22300	12/20
7.0	3900		17200	122	463	27300	49600	12/20
Flush	1094		18290	26.1	489	0	49600	-----

Will need to put 500psi on BACKSIDE OF TBG
 During Frac Job
 SJD