

COMPLETION SUBSEQUENT REPORT
HARDIE LS #4B
10/19/99

9/29/99 MIRUSU NU well head & Frac valve - pressure test CSG & head to 3000#. Held Ok. Ran TDT & CCL logs.

10/6/99 RU & Perf 1st stage - the Point Lockout formation @ the following intervals with 2 JSPF, .330 inch diameter, total 18 shots:

5262'	5304'	5351'
5269'	5313'	5366'
5274'	5319'	5371'
5281'	5329'	5381'
5285'	5336'	5386'
5297'	5344'	5397'

Frac 1st stage 5262' - 5397' pumped /500 GALS of 15% HCL Acid ahead then Frac w/91,927# 16/30 Arizona sand & 70% Quality N2 Foam. Displaced w/N2 Foam. ISIP 970# - 5 min SI 840#.

10/7/99 RU & set CIBP @ 5210'. Pressure test OK. RU & perf 2nd stage - Menefee Shale Formation @ the following intervals with 1 JSPF, .330 inch diameter, total 17 shots:

4927'	5023'	5118'
4950'	5030'	5125'
4958'	5057'	5133'
4965'	5064'	5138'
4980'	5080'	5149'
4997'	5091'	

Frac 2nd Stage 4927' - 5149' - pumped 500 GAL of 15% HCL Acid ahead then Frac w/ 95,832# 16/30 Arizona sand & 70% quality N2 foam - displaced w/N2 foam. ISIP 1346#, 5 min 1282#, 10 min 1263#. RU & set CIBP @ 4910'. Pressure test OK. RU & perf 3rd stage - Cliffhouse Formation @ the following intervals with 1 JSPF, .330 inch diameter, total 18 shots:

4696'	4776'	4838'
4704'	4786'	4851'
4709'	4793'	4863'
4734'	4816'	4869'
4742'	4822'	4877'
4761'	4827'	4889'

Frac 3rd Stage 4696' - 4889' - pumped 500 GAL of 15% HCL Acid ahead then Frac w/ 98,373# 16/30 Arizona sand & 70% quality N2 foam - displaced w/N2 foam. ISIP 1680#, 5 min 1520#, 10 min 1501#. RU flowline & Start flowing back Frac.

(continued on back)