

ATTACHMENT #1

Primo #1A
Sec. 6, T31N-R10W
San Juan Co., N.M.

FRAC #1: Mesaverde (Point Lookout) 4924' - 5020'

Frac'd with 80,000 gal in 4 stages:
5,000 gal pad, 5,000 gal 100 mesh 3#/gal & 10,000 gal 20/40 sd 2#/gal.
Max pressure 450 psi. 30 BPM rate - Avg 350 psi.
Dropped total of 52 balls.

FRAC #2: Mesaverde (Cliffhouse) 4490' - 4551'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w2#sd/gal.
1st Stage: Avg. 30 BPM, 500 psi.
2nd Stage: Avg. 31 BPM, 800 psi.
3rd Stage: Avg. 30 BPM, 1100 psi.
Dropped 10 balls after 1st & 2nd stages. Flushed with 5,670 gals at
31 BPM, 1100 psi - ISIP 350 psi, 4" - 0.

FRAC #3: Mesaverde (Cliffhouse) 4208' - 4456'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w/2#sd/gal.
1st Stage: Avg. 26 BPM, 600 psi.
2nd Stage: Avg. 24 BPM, 900 psi.
3rd Stage: Avg. 17 BPM, 1450 psi.
Dropped 9 balls after 1st & 2nd stages. Pumped 250 gals HCL (15%) acid
between 2nd & 3rd stages. Flushed with 5,586 gals water at 15 BPM, 1500 psi.
ISIP - 500 psi, 5" - 300 psi, 10" - 250 psi.

FRAC #4: Chacra A Zone 3929' - 3990'

Frac'd with 30,000 gals 30# gel water in 2 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#/gal & 7,500 gal 20/40 w/2#/gal.
1st Stage: Avg of 25 BPM & 1100 psi. Dropped 8 balls.
2nd Stage: Avg of 25 BPM & 1200 psi.
Flushed with 5,334 gals water at 25 BPM & 1200 psi.
ISIP - 700 psi, 5" - 400 psi, 10" - 300 psi, 15" - 300 psi, final SIP 300 psi.

FRAC #5: Chacra D Zone 3444' - 3739'

Frac'd with 60,000 gals 30# gel water in 2 stages:
7,500 gal pad, 7,500 gal 100 mesh w/3#/gal & 15,000 gal 20/40 w/2#/gal.
1st Stage: Avg. 30 BPM, 600 psi.
2nd Stage: Avg. 29 BPM, 1200 psi.
Flushed with 5,124 gals water at 29 BPM & 1200 psi. ISIP - 700 psi,
5" - 400 psi, 10" - 100 psi.

FRAC #6: Pictured Cliffs 2711' - 2723'

Frac'd with 20,000 gals 30# gel water in 1 stage:
5,000 gal pad, 5,000 gal 100 mesh w/3#/gal & 10,000 gal 20/40 w/2#/gal.
Avg. 25 BPM, 350 psi. Flushed with 4,368 gals water at 25 BPM & 350 psi.
ISDP - 150 psi, 2" - 0.

