

**Plains Unit Federal #7  
Lusk (Delaware)  
Lea County, New Mexico**

**"I" SAND FRAC PROCEDURE**

- 1) POOH to  $\pm 6,850'$ . Set packer @  $\pm 6,850'$ . Load 2 7/8" x 5 1/2" annulus. Pressure up to 500 psi to test packer seals.
- 2) RU Stimulation Co. NU stimulation valve. Test surface lines to 5000 psi.
- 3) Fracture treat the interval 6,950'-7,010' down tubing with 19,700 gal YF 135D, 69,000 lbs 20/40 Ottawa Sand, and 15,000 lbs 20/40 super LC resin-coated sand as follows:

<u>STAGE</u>	<u>GEL VOLUME, gal</u>	<u>PROP. CONC., ppg</u>
PAD	8200	0
2 PPA	1000	2
4 PPA	1400	4
6 PPA	2000	6
8 PPA	3300	8
10 PPA	2300	10
10 PPA	1500	10
Flush	1580	0

Anticipated Treating Rate: 20 BPM  
Anticipated Treating Press.: 3,500 psi  
Maximum Treating Press.: 6,000 psi

Record ISIP. RDMO Stimulation Co. Leave well shut-in over night.

- 4) ND stimulation valve. Flow back and/or swab to recover load. Release packer and POOH.
- 5) RU reverse unit and power swivel. RIH w/bit for 5 1/2" 17# casing and clean out wellbore to 7,350'. POOH. RD reverse unit and power swivel.
- 6) RIH with production tubing as follows:
  - 1 Open Ended MA (31')
  - 1 Perf'd Sub (4')
  - 1 SN (2.25" I.D.)
  - 7 Jts 2 7/8" 6.5# J-55 Tubing
  - 1 TAC
  - $\pm 214$  Jts 2 7/8" 6.5# J-55 Tubing
  - Set SN @  $\pm 6,865'$
- 7) ND BOP. NU WH. RIH w/rods and pumps as follows:
  - 2 1/2" x 1 1/2" x 24' RHBC (HVR) Pump
  - 35 K Shear Tool
  - $\pm 47$  1" Rods
  - $\pm 158$  7/8" Rods
  - $\pm 69$  1" Rods
  - Pony Rods as needed
  - Space out pump. Hang well on.
- 8) RDMO pulling unit. turn well over to production. Put on test and report rates through computer system for 21 days.

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NOV 1 1964

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