WALSH

PETROLEUM ENGINEERING RESERVOIR STUDIES EVALUATIONS GEOLOGICAL STUDIES

ENGINEERING & PRODUCTION CORPORATION

LEASE MANAGEMENT
CONTRACT PUMPING
DRILLING SUPERVISION
WORKOVER SUPERVISION

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Odessa Natural Corporation

SUNDRY NOTICE
Little Federal No. 3

con't

3-22-77

15 minute SIP

Set retainer 6398. $3\frac{1}{2}$ BPM. Squeeze perfs 6432.-6474, with 50 sacks Class "B" neat cement. Maximum and final pressure 2500 psig. Perforate 6274.-6291, 6331.-6342. & 6346.-6350. with 1 shot per foot. Sand water frac as follows:

Pad -9,300 Gals. water with 1% KCl, $2\frac{1}{2}$ # FR-20 per 1000 gals and 1 gal Frac Flow per 1000 gals. -61,700 gals. with 1% KCl, $2\frac{1}{2}$ # Water FR-20 per 1000 gals and 1 gal. Frac Flow per 1000 gals in first 5000 gals. -75,000 lbs. 20-40 Sand Flush - 5,000 gals. - 2,600 psig Breakdown Press. - 2,700 psig Ave. Treat Press. Max. Treat Press. - 3,500 psig (flush) -43 BPM Ave. Injection Rate Hydraulic Horsepower - 2,846 HHP Instanteous SIP - 1,550 psig 5 minute SIP - 1,300 psig 10 minute SIP - 1,200 psig

- 1,100 psig