

Walsh

ENGINEERING & PRODUCTION CORP.

PETROLEUM ENGINEERING
RESERVOIR STUDIES
EVALUATIONS
GEOLOGICAL STUDIES
LEASE MANAGEMENT
CONTRACT PUMPING
DRILLING SUPERVISION
WORKOVER SUPERVISION

EWELL N. WALSH, P.E.
President

ODESSA NATURAL CORPORATION
JICARILLA JOINT VENTURE "KD" NO. 6
JANUARY 13, 1978

12-30-77 P.B.T.D. 7480'

Perforations:	7292'-7316', 2 shots per foot.
Pad:	9,916 gallons
Water:	49,916 gallons
Sand:	40,000 lbs.
Flush:	4,916 gallons
Breakdown:	3,900 psig
Ave. Treating Press:	2,700 psig
Max. Treating Press:	3,600 psig
Ave. Injection Rate:	40.0 BPM
Hydraulic Horsepower:	2,647 HHP
Instantaneous SIP:	1,600 psig
5 minute SIP:	1,500 psig
10 minute SIP:	1,300 psig
15 minute SIP:	1,200 psig

Temporary Bridge Plug at 7260'

Perforations:	7178'-7224' & 7236'-7241'. 1 shot per foot.
Pad:	6,500 gallons
Water:	68,130 gallons
Sand:	80,000 lbs.
Flush:	4,865 gallons
Breakdown:	4,000 psig
Ave. Treating Press:	3,300 psig
Max. Treating Press:	3,600 psig
Ave. Injection Rate:	47.0 BPM
Hydraulic Horsepower:	3,802 HHP
Instantaneous SIP:	1,750 psig
5 minute SIP:	1,300 psig
10 minute SIP:	1,250 psig
15 minute SIP:	1,200 psig