

## YATES PETROLEUM CORPORATION

## DRILL STEM TESTS

ECHOLS STATE UNIT #3 - LG-5182

Unit M, Sec. 9-T11S-R38E

Lea County, New Mexico

DST #1 9422-9540' (118') Wolfcamp: TO 30"; SI 60"; TO 60"; SI 180".  
 Opened tools with weak blow, 1/2" in bucket. Increased to 2" in bucket at 5 mins, 1-1/2" at 10 mins, 2" at 30 mins. Closed tool. Opened tool with 1/2" in bucket, 5 mins 3/4" blow in bucket, 15 mins 1" blow in bucket, same to closed tool with 1" blow. NOTE: Charts indicate substantial tool and anchor pipe plugging during first flow period and possible slight plugging during the second flow. RECOVERY: 7-1/2 bbls slightly gas cut drilling fluid. SAMPLER: 20#, .01 cfg, 2300 cc mud. PRESSURES: BOTTOM: IHP 4728.8, IFP 226.4-224.9, ISIP 3414.6, FFP 245.3-344.8, FHP 4655.3.

DST #2 9966-10030': Packer failure. Sampler 2400 cc drilling mud.  
 RECOVERY: 1117' drilling mud. Charts:

	<u>TOP</u>	<u>BOTTOM</u>	<u>BELOW STRADDLE PKR</u>
IHP	5218	5169	5240
IFP	167-204	160-197	4648
ISIP	3877	3880	4648
FFP	204 -	197 -	5203
	hydrostatic pressure	hydrostatic pressure	
FSIP		0 -	0
		hydrostatic pressure	
FHP	5127	5114	5203

DST #3: Packer failure.

DST #4 9821-10090': Ran N2 cushion. Started bleeding N2 cushion off at 12:26 PM on 1/8" choke. Open on 1/4" choke at 12:46 PM with 2500 psi. Change surface choke to 3/8" at 12:59 with 2050 psi. Changed to 1/4" at 1:31 AM with 900 psi. Changed to 1/8" at 1:50 with 750 psi. Closed at surface to maintain 700 psi at 2:03 AM. Opened and start bleed off at 2:34 AM on 1/8" choke with 700 psi. Shut in at surface after 6 mins with 630 psi. Opened at surface and change to 1/4". Bleed to zero. Zero psi leave open without pressure for 45 mins.\* RECOVERY: 282' drilling mud and 7784' formation water. SAMPLER: .12 cfg, 2250 cc water with 500 psi. PRESSURES:

	<u>OUTSIDE:</u>	<u>OUTSIDE</u>
Depth	10083'	10079'
BHT	152°	152°
IHP	5262	5292
IFP	3733-3880	3767-3914
ISIP	3972	3988
FHP	5262	5292

\*Slight blow in bucket at 4:15 AM. Shut in 150 minutes.