

BENNETT - CATHEY

Artesia, New Mexico 88210

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY ALPINE PETROLEUM Corp. WELL NAME FROEHLICK FEDERAL WELL #1
 DATE OF TEST 6-26-81 TO 6-29-81 FORMATION ABO PAGE 1 OF 2

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

JUL 30 1981

ELEMENT NUMBER RPG3#36641 RANGE 0-4,000
 CLOCK NUMBER 12653 RANGE 72 HOURS C. C. D.
 TIME WELL SHUT IN 2319 HOURS 6-26-81 ARTESIA, OFFICE
 TIME CLOCK STARTED 1748
 DEAD WEIGHT ELEMENT ON SURFACE 1162 LBS.
 TIME ELEMENT REACHED BOTTOM 1856
 DEAD WEIGHT ELEMENT ON BOTTOM 553 PSIA END OF FOUR POINT LBS.
 ELEMENT SET AT 4,331 FEET.
 TEMPERATURE 4,331 FT. 98 °F.
 69 PSIA DEAD WEIGHT AT THE END OF 68 HOURS 20 MINUTES.

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psia	PRESSURE AT MID-POINT OF PERFORATIONS psia
6-26-81							
REACHED BOTTOM		1856		1,237	13.2		1,250
START TEST	0	1915		1,237	13.2		1,250
	1/4	1930		1,210	13.2		1,223
	1/2	1945		1,190	13.2		1,203
	3/4	2000		1,172	13.2		1,185
END RATE 1	1	2015		1,151	13.2		1,164
	1 1/4	2030		1,116	13.2		1,129
	1 1/2	2045		1,085	13.2		1,098
END RATE 2	1 3/4	2100		1,067	13.2		1,080
	2	2115		1,040	13.2		1,053
	2 1/4	2130		987	13.2		1,000
	2 1/2	2145		903	13.2		916
END RATE 3	2 3/4	2200		862	13.2		875
	3	2215		792	13.2		805
	3 1/4	2230		723	13.2		736
	3 1/2	2245		656	13.2		669
END RATE 4	3 3/4	2300		594	13.2		607
START BUILD UP	4	2315		575	13.2		588
	0	2320		575	13.2		588
	1/4	2335		618	13.2		631
	1/2	2350		671	13.2		684
6-27-81	3/4	2405		725	13.2		738
	1	2420		760	13.2		773
	1 1/4	2435		785	13.2		798
	1 1/2	2450		821	13.2		834
	1 3/4	0105		848	13.2		861
	2	0120		869	13.2		882
	2 1/2	0150		899	13.2		912
	3	0220		930	13.2		943
	3 1/2	0250		955	13.2		968
	4	0320		977	13.2		990
	4 1/2	0350		993	13.2		1,006
	5	0420		1,008	13.2		1,021
	5 1/2	0450		1,020	13.2		1,033
	6	0520		1,032	13.2		1,045
	6 1/2	0550		1,042	13.2		1,055
	7	0620		1,048	13.2		1,061
	7 1/2	0650		1,057	13.2		1,070