

CITIES SERVICE OIL Co.

ELIZANDO FEDERAL "A" No. 4

BOTTOM HOLE PRESSURE BUILD-UP TEST,

PRESSURES FOR CALCULATING 4-POINT BACK

PRESSURE TEST AND PRESSURE BUILD-UP TEST

TABULATION OF PRESSURE AND TIME

TEST CONDUCTED BY:

JOHN WEST ENGINEERING COMPANY

TEST DATE: DECEMBER 10 TO 14, 1976

TEST DEPTH: 11,456 FEET

ELEMENT No.: 11756 (0-5000 PSI)

OPER.: D. TYSON

<u>DATE</u>	<u>TIME</u>	<u>CUM. HRS./MIN.</u>		<u>PSIG @ 11,465 FEET</u>
12-10-76	10:00 AM			2235 GAUGE REACHED 11,465', OPEN CHOKE
	10:30			1820
12-10-76	11:00	00 HRS.	00 MIN.	1802 SHUT-IN, BEGIN BUILD-UP
		00	15	3277
		00	30	4255
	11:45 AM	00	45	4594
	12:00 NOON	01	00	4624
	12:30 PM	01	30	4646
		02	00	4652
		03	00	4661
		04	00	4664
		05	00	4670
12-10-76	9:30 PM	10	00	4679
12-11-76	2:30 AM	15	00	4685
	7:30 AM	20	00	4688
12-11-76	5:30 PM	30	00	4691
12-12-76	3:30 AM	40	00	4694
	1:30 PM	50	00	4700
12-12-76	11:30 PM	60	00	4703
12-13-76	9:20 AM	70	20	4703 GAUGE OUT TO CHANGE CHART
12-13-76	10:10 AM	71	10	4706 GAUGE BACK TO 11,465 FEET
	10:30 AM	71	30	4709 OPEN CHOKE TO LIGHT HEATER
	12:30 PM	73	30	4646 BEGIN RATE 1, 15/64 CHOKE
		73	45	4232
		74	00	4249
		74	15	4227
	1:30 PM	74	30	4218 END RATE 1
		74	45	3930 18/64 CHOKE
		75	00	3859
		75	15	3854
	2:30 PM	75	30	3845 END RATE 2
		75	45	3438 25/64 CHOKE
		76	00	3313
		76	15	3286
	3:30 PM	76	30	3274 END RATE 3
		76	45	2994 30/64 CHOKE
		77	00	2838
		77	15	2814
12-13-76	4:30 PM	77	30	2802 END RATE 4, SHUT-IN FOR B.U.