

OPEN FLOW TEST DATA

Date: June 27, 1956

Operator: El Paso Natural Gas Company Lease: Johnson # 4

Location: 2001'S, 1175'E, Sec. 17-28-9 County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Aztec Pictured Cliff

Casing: 5 1/2 " Set @ 2310 ' Tubing: 1 1/4 " Set @ 2204 '
 Pay Zone: 2216 ' To: 2258 ' Total Depth: c/o - 2270 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 717 psig / 12 = 729 psia (Shut-in 14 days)
 Shut-In Pressure Tubing: 717 psig / 12 = 729 psia
 Flowing Pressure: P : 160 psig / 12 = 172 psia
 Working Pressure: P_w : 162 psig / 12 = 174 psia
 Temperature: T : 75 °F / 460 = 535 ° Absolute
 F_{pv} (from tables) : 1.018 Gravity .710 n .85

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \frac{14.1605 \times 172 \times .9859 \times .9193}{1.018} = 2247 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = 2247$$

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\left[\frac{531,441}{501,165} \right]^n$$

$$= (1.0604)^{.85} 2247 = 1.0511 \times 2247$$

$$Aof =$$

$$2,362$$

$$\text{MCF/D}$$

Tested By: K. C. McBride and R. A. Ullrich

Witnessed By:



L. D. Galloway

OIL CONSUMPTION	PERMISSION
NO. 1	1
NO. 2	2
NO. 3	3
NO. 4	4
NO. 5	5
NO. 6	6
NO. 7	7
NO. 8	8
NO. 9	9
NO. 10	10
NO. 11	11
NO. 12	12
NO. 13	13
NO. 14	14
NO. 15	15
NO. 16	16
NO. 17	17
NO. 18	18
NO. 19	19
NO. 20	20
NO. 21	21
NO. 22	22
NO. 23	23
NO. 24	24
NO. 25	25
NO. 26	26
NO. 27	27
NO. 28	28
NO. 29	29
NO. 30	30
NO. 31	31
NO. 32	32
NO. 33	33
NO. 34	34
NO. 35	35
NO. 36	36
NO. 37	37
NO. 38	38
NO. 39	39
NO. 40	40
NO. 41	41
NO. 42	42
NO. 43	43
NO. 44	44
NO. 45	45
NO. 46	46
NO. 47	47
NO. 48	48
NO. 49	49
NO. 50	50
NO. 51	51
NO. 52	52
NO. 53	53
NO. 54	54
NO. 55	55
NO. 56	56
NO. 57	57
NO. 58	58
NO. 59	59
NO. 60	60
NO. 61	61
NO. 62	62
NO. 63	63
NO. 64	64
NO. 65	65
NO. 66	66
NO. 67	67
NO. 68	68
NO. 69	69
NO. 70	70
NO. 71	71
NO. 72	72
NO. 73	73
NO. 74	74
NO. 75	75
NO. 76	76
NO. 77	77
NO. 78	78
NO. 79	79
NO. 80	80
NO. 81	81
NO. 82	82
NO. 83	83
NO. 84	84
NO. 85	85
NO. 86	86
NO. 87	87
NO. 88	88
NO. 89	89
NO. 90	90
NO. 91	91
NO. 92	92
NO. 93	93
NO. 94	94
NO. 95	95
NO. 96	96
NO. 97	97
NO. 98	98
NO. 99	99
NO. 100	100