

EL PASO NATURAL GAS COMPANY

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates County Lea
 Initial _____ Annual _____ Special X Date of Test 3-24/4-1-60
 Company E. G. Rodman Lease Hadfield Well No. 1
 Unit 0 Sec. 21 Twp. 35 Rge. 37 Purchaser El Paso Natural Gas Company
 Casing 7 Wt. 24.0 I.D. _____ Set at 2650 Perf. 2997 To 3000
 Tubing 2 Wt. 4.7 I.D. _____ Set at 3000 Perf. 2997 To 3000
 Gas Pay: From 3100 To 3145 L 2997 x G .664 = GL 1990 Bar. Press. 13.2
 Producing Thru: Casing _____ Tubing X Type Well Single
 Date of Completion: 2-23-47 Single-Bradenhead-G. G. or G. O. Dual
 Packer: _____

Flow Data							Tubing Data		Casing Data		Duration
No.	Line Line Size	x	Orifice Orifice Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	of Flow hr.
1.	4	X	1.250	147	9.00	68	296				72
2.	4	X	1.250	182	10.89	66	292				24
3.	4	X	1.250	158	22.09	74	268				24
4.	4	X	1.250	166	29.16	64	229				24
5.							205				24

ILLEGIBLE

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No.	Coefficient Fig. (24-hour)	$\sqrt{h_w D_w}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{gv}	Rate of Flow Q-MCFPD = 13.225 psia
1.	9.643	37.97		.9924	.9506	1.015	350.5
2.	9.643	46.11		.9943	.9506	1.018	427.9
3.	9.643	61.50		.9868	.9506	1.015	564.6
4.	9.643	72.29		.9962	.9506	1.017	671.3

Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
 Gravity of Liquid Hydrocarbon _____ deg.
 F_c 9.936 (1-e^{-S}) 0.128

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 309.2 P₂ 95.6

No.	P _t (psia)	P _t ²	P _c ² - P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	F _w	P _c ² - P _w ²
1.	305.2	93.1	2.5	3.482	12.12	1.55	94.6	1.0
2.	281.2	79.1	16.5	4.252	18.08	2.31	81.4	14.2
3.	242.2	58.7	36.9	5.610	31.47	4.03	62.7	32.9
4.	218.2	47.6	48.0	6.670	44.49	5.69	53.3	42.3

Wellhead Potential: 1,040 MCFPD; θ_t 63.4; n_t .500
 ABS. Potential: 1,140 MCFPD; θ 63.4; n .500

Conducted by: J. B. Murray
 Witnessed by: _____
 Calculated by: J. B. Murray