Form 15-100 (9-54)

EL PASO NATURAL GAS COMPANY

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation 7 R County Lea

Initial X Annual ____ Special ____ Date of Test 9-11-61

Company C. E. Long Lease Pech State Well No. 2

Unit K Sec. 32 Twp. 21 Rge. 36 Purchaser Phillips Petroleum Corporation

Casing 5 1/2" Wt. 14.0 I.D. ____ Set at 3910 Perf. 3754 To 3800

Tubing 2 3/8 Wt. 4.7 I.D. ____ Set at 3888 (Assumed) Perf. 3820 To ____ Garrett Sleeve

Gas Pay: From 3754 To 3800 L 3820 x G .650 = GL ____ Bar. Press. 13.2

Producing Thru: Casing ____ Tubing X Type Well Single

Single - Bradenhead - G. G. or G. O. Dual

Date of Completion: 12-12-56 Packer: None

No.	Flow Data: Line Size x Orifice Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data: Press. psig	Tubing Data: Temp. °F.	Casing Data: Press. psig	Casing Data: Temp. °F.	Duration of Flow Hr.
SI					603		617		72
1.	4" X 2.750	15	4.50	80	569		590		3
2.	4" X 2.750	17	7.50	90	547		587		3
3.	4" X 2.750	19	10.00	84	519		554		3
4.	4" X 2.750	20	12.00	74	480		535		3
5.	4" X 2.750	19	8.00	86	470		526		20

No.	Coefficient (24-Hour)	$\sqrt{h_w P_w}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	53.05	11.23		.9813	.9608	XXX.	561.7
2.	53.05	15.05		.9723	.9608	XXX.	745.9
3.	53.05	17.94		.9777	.9608	XXX.	894.0
4.	53.05	19.96		.9868	.9608	XXX.	1,004
5.	53.05	16.05		.9759	.9608	XXX.	818.0

Gas Liquid Hydrocarbon Ratio 146.2 Mcf/bbl.

Gravity of Liquid Hydrocarbons 29.5 @ 60 deg.

F_c Measured $(1-e^{-s})$ --

Specific Gravity Separator Gas .9608

Specific Gravity Flowing Fluid .8789

P_c 630.2 P_c^2 397.1

No.	P_w P_t (psia)	P_t^2	$P_c^2 - P_t^2$	F_cQ	$(F_cQ)^2$	$(F_cQ)^2(1-e^{-s})$	P_w^2	$P_c^2 - P_w^2$
1.	582.2	339.0	58.1				363.8	33.3
2.	560.2	313.8	83.3				360.2	36.9
3.	532.2	283.2	113.9	- Measured -			321.7	75.4
4.	493.2	243.2	153.9				300.5	96.6
5.	483.2	233.5	163.6				290.7	106.4

Wellhead Potential: 1,230 MCFPD; θ_t 63.5 ; n_t .499

ABS. Potential: 1,690 MCFPD; θ 61.0 · n .554

Conducted by: J. B. Murray

Witnessed by: C. E. Long

Calculated by: J. B. Murray