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JAN 18 1963

O. C. C. ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Lusk Formation Morrow County Eddy

Initial X Annual Special Date of Test 1-4-63

Company ~~Delhi-Taylor Oil Corporation~~ Texas O, L & G Lease Jones-Federal Well No. ~~1-Z~~ 2

Unit G Sec. 25 Twp. 19S Rge. 31E Purchaser None

Casing 5 1/2 Wt. 20 I.D. 4.778 Set at 12,749 Perf. 12,422 To 12,536

Tubing 2 Wt. 4.7 I.D. 1.995 Set at 12,180 Perf. To

Gas Pay: From 12,422 To 12,536 L 12,180 xG -GL Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well G. C. Dual
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: Packer 12,169 Reservoir Temp. Compensated Instrument

OBSERVED DATA

Tested Through Orifice Well Tester (~~Prover~~) (~~Choke~~) (~~Meter~~) Type Taps

No.	Flow Data (Prover) (Line) Size	Flow Data (~~Choke~~) (Orifice) Size	Flow Data Press. ~~psig~~ In. Hg	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						3665	90			30.0
1.	3	1.50	20.5		80	505	85			4.5
2.	3	1.50	21.0		80	450	85			3.25
3.	3	1.50	21.5		80	377	85			3.5
4.	3	1.50	22.0		80	315	85			5.75
5.										

FLOW CALCULATIONS

No.	Coefficient (24-hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	985	[illegible]		1.000	.955	1.000	940.7
2.	997	[illegible]		1.000	.955	1.000	952.1
3.	1012	[illegible]		1.000	.955	1.000	966.5
4.	1027	[illegible]		1.000	.955	1.000	980.8
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 12,109 cf/bbl. Specific Gravity Separator Gas .658

Gravity of Liquid Hydrocarbons 49.8 deg. Specific Gravity Flowing Fluid

F_c $(1-e^{-s})$ P_c 5133.2 P_c^2 26,[illegible]

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	P_w
1.	1135.2					1,291	25,368		
2.	1027.2					1,055	25,604		
3.	991.2					982	25,677		
4.	980.2					965	25,794		
5.									

Absolute Potential: 1,020 MCFPD; n 1.000

COMPANY [illegible] Texas Engineering Service, Inc.

ADDRESS [illegible]. O. Box 4455 - Midland, Texas

AGENT and TITLE R. W. Harrington - Field Petroleum Engineer

WITNESSED

COMPANY

REMARKS

P_c and P_w are Bottom Hole Pressures as recorded with an Amerada RPG-3 Instrument.