

DEC 10 1964

NEW MEXICO OIL CONSERVATION COMMISSION

O. C. C. Form C-122
ARTESIA, OFFICE
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Penn. - Morrow County Eddy
Initial X Annual _____ Special _____ Date of Test 10-5-64
Company Harvey E. Yates Lease Mondo Singer C Well No. 1
Unit G Sec. 18 Twp. 20s Rge. 27e Purchaser _____
Casing 4 1/2 Wt. 11.60 I.D. 4 Set at 10,246 Perf. Open hole To T. D. 10399
Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 10,112 Perf. open end To _____
Gas Pay: From 10,246 To 10,399 L 10,112 xG .621 -GL 6279 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer 10,112 Reservoir Temp. N. A.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	3					3307	69	Packer		72+ SI
1.	3	1.75	600	23	82	2997	69			1
2.	3	1.75	610	30	80	2989	72			1
3.	3	1.75	650	42	74	2732	72			1
4.	3	1.75	710	76	68	2397	72			1
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	20.15	118.74	613.2	0.9755	0.9910	1.048	2434
2.	20.15	136.71	623.2	0.9813	0.9910	1.048	2.07
3.	20.15	166.88	663.2	0.9868	0.9910	1.058	3478
4.	20.15	229.74	723.2	0.9924	0.9910	1.063	4939
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 70,000 cf/bbl.
Gravity of Liquid Hydrocarbons 52 deg.
P_c 9.936 (1-e^{-s}) 0.351

Specific Gravity Separator Gas .611
Specific Gravity Flowing Fluid .621
P_c 3320.2 P_c 11,023.73

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	3010.2	9060	24.184	584.87	205.29	9255.29	1754.4	3043.38	.1653
2.	2902.2	8422	27.89	777.85	273.02	8696.02	2327.7	2946.28	.3825
3.	2795.2	7812	34.567	1194.88	419.40	8231.7	2792.03	2868.82	.36428
4.	2410.2	5808	49.074	2408.26	845.30	6653.3	4370.43	2613.15	.78703
5.									

Absolute Potential: 10,000 MCFPD; n .774

COMPANY Harvey E. Yates
ADDRESS 305 Garber Building, Artesia, New Mexico

AGENT and TITLE Marshall P. Morris

WITNESSED James D. Monroe

COMPANY Harvey E. Yates

REMARKS

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