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NEW MEXICO OIL CONSERVATION COMMISSION

JAN 25 1965

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS O. C. C. Revised 12-1-55
ARTESIA, OFFICE

Pool Wildcat Formation Morrow County Eddy
Initial _____ Annual _____ Special Correction _____ Date of Test 1-12-65
Company Yates Drilling Company Lease Pecos River Deep Unit Well No. 3
Unit H Sec. 13 Twp. 20s Rge. 26e Purchaser --
Casing 5 1/2 Wt. 17 I.D. 4.892 Set at 10,256 Perf. Open hole To 10,392
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 10,193 Perf. Open end To _____
Gas Pay: From 10,252 To 10,266 L 10,193 xG .610 -GL 6217 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1-7-65 Packer 10,193 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	1.75				3095	68	Packer		72+ SI
1.	3	1.75	500	7	70	2941	67			1
2.	3	1.75	500	20	72	2785	66			1
3.	3	1.75	500	35	72	2596	65			1
4.	3	1.75	690	50	68	2384	64			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	59.97	513.2	0.9905	0.9992	1.042	1246
2.	20.15	101.29	513.2	0.9887	0.9992	1.042	2100
3.	20.15	133.99	513.2	0.9887	0.9992	1.042	2779
4.	20.15	187.48	703.2	0.9924	0.9992	1.060	3971
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 64,000 cf/bbl.
Gravity of Liquid Hydrocarbons 50 deg.
P_c 9.936 (1-e^{-s}) 0.348
Specific Gravity Separator Gas .601
Specific Gravity Flowing Fluid .610
P_c 3108.2 P_c 9660

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	F _g
1.	2954.2	8727	12.280	150.798	52.477	8779.477	881	2963.010	.99334
2.	2798.2	7829	20.865	435.348	151.501	7980.501	1679	2824.977	.99063
3.	2609.2	6807	27.612	762.422	265.322	7072.322	2587	2659.388	.98565
4.	2397.2	5746	39.456	1556.776	541.758	6288.758	3371	2505.499	.80614
5.									

Absolute Potential: 9.980 MCFPD; n .88 (87877)

COMPANY Yates Drilling Company

ADDRESS 309 Carper Building

AGENT and TITLE Marshall B. Morris

WITNESSED Cliff Loyd

COMPANY S. P. Yates

REMARKS