

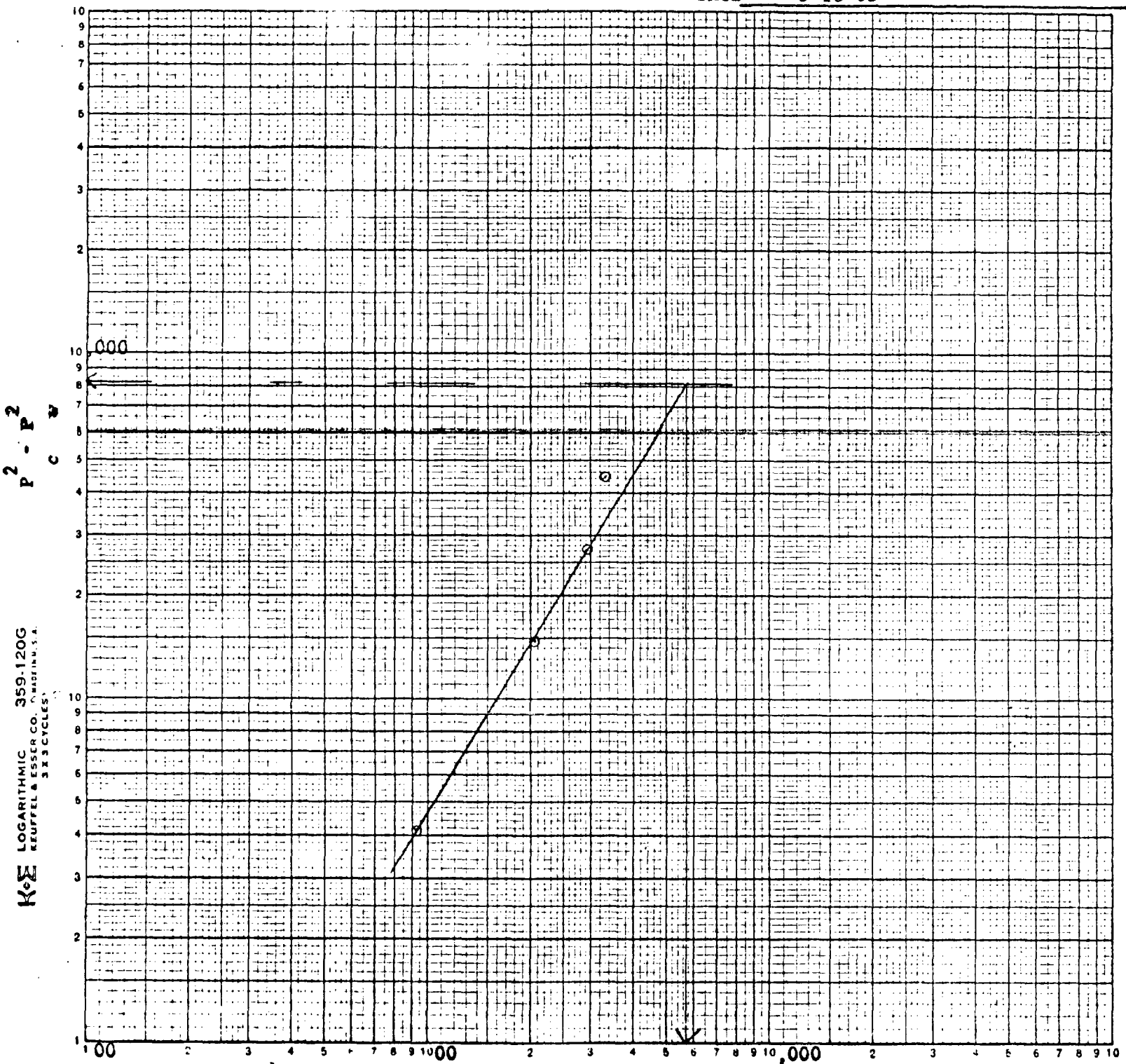
COMPANY Humble Oil & Refining Company

WELL Huapache # 10

LOCATION Sec. 10, Twp. 23-S, Rge. 22E

COUNTY Eddy

DATE 5-18-63



Q = MCFD
AP = 5,700 MCFD
N = .601
 $\theta = 59^\circ$

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Morrow Sand County Eddy
Initial _____ Annual _____ Special X Date of Test 5-18-63
Company Humble Oil & Refining Company Lease Huapache Unit Well No. 10
Unit _____ Sec. 10 Twp. 23-S Rge. 22-E Purchaser None
Casing 5-1/2 Wt. _____ I.D. _____ Set at _____ Perf. 9932 To 9942
Tubing 2-3/8 OD Wt. 4.60 I.D. 1.995 Set at 9750 Perf. 9932 To 9942
Gas Pay: From 9932 To 9942 L 9937 xG 0.600 est GL 5962 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer 9750 Reservoir Temp. 189

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Gluco) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2854	78	Pkr		
1.	3.00	1.500	555	7.5	122	2775	52			3.5
2.	3.00	1.500	653	31	103	2555	66			3.5
3.	3.00	2.000	660	16	92	2272	67			5.0
4.	3.00	2.000	686	21	110	1834	68			3.0
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.	14.36	65.27	568.2	.9452	1.000	1.031	914
2.	14.36	143.71	666.2	.9610	1.000	1.042	2067
3.	27.52	103.79	673.2	.9705	1.000	1.048	2905
4.	27.52	121.17	699.2	.9551	1.000	1.042	3319
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Nil cf/bbl.
Gravity of Liquid Hydrocarbons Nil deg.
P_c 9,936 (1-e⁻⁸) 0.336

Specific Gravity Separator Gas 0.600es
Specific Gravity Flowing Fluid Nil
P_c 2867.2 P_c 8220.8

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	2788.2	7774	9.082	82.48	27.71	7801.7	419.1	2793.3	97.4
2.	2568.2	6596	20.538	421.81	141.7	6737.7	1483.1	2595.7	90.5
3.	2285.2	5222	28.864	833.13	279.9	5501.9	2718.9	2345.6	81.8
4.	1817.2	3412	32.978	1087.55	365.42	3777.4	4443.4	1943.7	67.8
5.									

Absolute Potential: 5,700 MCFPD; n .601

COMPANY Humble Oil & Refining Company

ADDRESS Box 2347, Hobbs, New Mexico

AGENT and TITLE _____

WITNESSED Richard Turner

COMPANY Tom Hansen Company, Inc., Box 184, Odessa, Texas

REMARKS

Orig & 2 cc: N. M. O. C. C., Artesia, N. M.

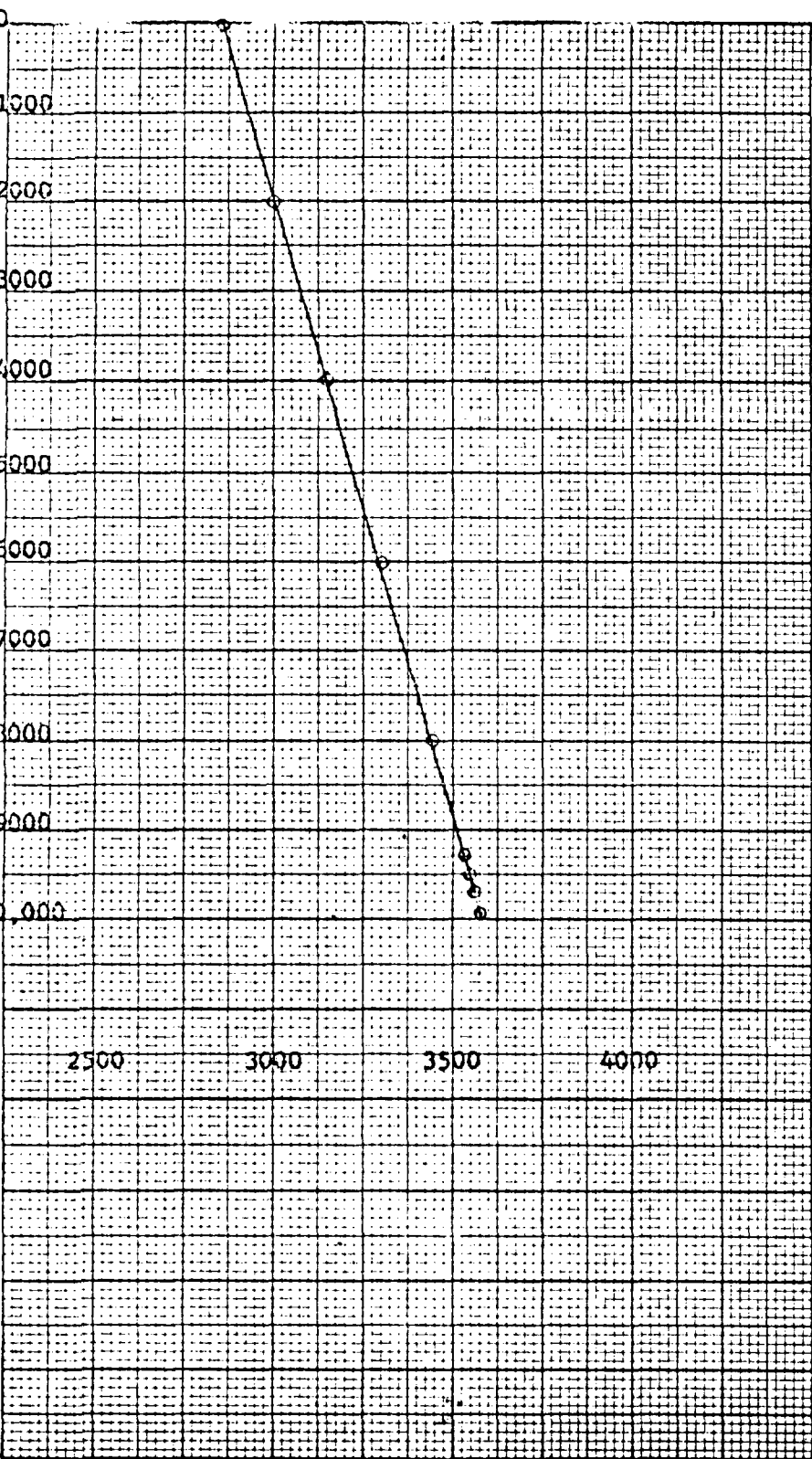
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INDIVIDUAL WELL DATA SHEET

Company Humble Oil & Refining Company Lease Huapache Unit Well No. 10
Field Wildcat County Eddy State New Mexico
Test Date 5-18-63 Time _____ Status of Well Shut In Shut In _____

GRAPHIC ANALYSIS



PRESSURE

Depth Feet	Pressure Lbs. Sq. In.	*Gradient Lbs./Ft.
0	2854	
2000	2999	.073
4000	3152	.077
6000	3302	.075
8000	3445	.072
9300	3534	.068
9500	3548	.070
R D 9700	3562	.070
Mid Perf 9937	(3579)	(.070)
Elev.-D.F. _____ Gr. _____		
Pressure Datum _____		
Top of Pay _____		
Tubing	2 3/8	Depth 9750
B.H.C.		Packer _____
Casing		Depth _____
Perf.	9932-42	
Total Depth _____		
Formation _____		
Casing Press. _____		
Tubing Press.	2854	
Top of Fluid	None	
Top of Water	None	
Hrs.-Shut In	72	Flowing
Temp. @ 9700	-	164 °F
Last Test Date	5-4-63	
Press. Last Test	3665	
B.H.P. Change	-86	
Gain-Loss, Day _____		
Instrument	11	Amerada 5300
Number	18444-N	RPG 3
Calibration No.	05 @ TC	F
Run By	Turner	
Calculated By	Turner	