

0+5-NMOCD

1-File

1-Engr. PWS

1-BW

1-BLM-Roswell

1-Laura Richardson-Midland

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 9-1-85

45F
F.1e

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-12-83		JUL 26 1983			
Company Getty Oil Company ✓						Connection None		O. C. D. ARTESIA, OFFICE			
Pool Pecos Slope <i>Abo</i>						Formation Abo		Unit			
Completion Date 4/15/83			Total Depth 4200		Plug Back TD 4161		Elevation 3779.5		Field Name G.C. Fed. Com		
Csg. Size 5.5	Wt. 14 & 15.5	d 5.012	Set At 4200	Perforations: From 3873 To 3915				Well No. 1			
Tbg. Size 2 B/8	Wt. 4.7	d 1.995	Set At 3712	Perforations: From open To ended				Unit C	Sec. 7	Twp. 6-S	Rge. 26F
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Chaves			
Producing Thru tbg		Reservoir Temp. °F 91 @ 4200'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico			
L 3712	H 0.7361	G _g 0.736	% CO ₂ 9.	% N ₂ 7	% H ₂ S 0	Prover		Meter Run 3"	Taps		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	3"		1.0"				970	76	969	76	
1.	3"		"	300	8	76	910	76	938	"	.75 hr.
2.	3"		"	300	14	76	890	76	925	"	.5 hr.
3.	3"		"	300	24	75	855	76	910	"	.5 hr.
4.	3"		"	300	48	75	820	76	870	"	1 hr
5.	3"										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.801	61.72	313.2	0.9850	1.166	1.027	283
2.	"	66.22	313.2	0.9850	1.166	1.027	375
3.	"	86.70	313.2	0.9859	1.166	1.027	491
4.	"	122.61	313.2	0.9859	1.166	1.027	694
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1.	0.451	536	1.46	0.949	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.	0.451	536	1.46	0.949	Specific Gravity Separator Gas <u>0.736</u> X X X X X X X X			
3.	0.451	536	1.46	0.949	Specific Gravity Flowing Fluid _____ X X X X X			
4.	0.451	536	1.46	0.949	Critical Pressure <u>694</u> P.S.I.A. P.S.I.A.			
5.					Critical Temperature <u>367</u> R R			

$P_c = 983.2$ $P_w = 966.7$				
NO.	P _r	P _w	P _r ²	P _w ²
1		938	874.2	92.5
2		925	855.6	111.1
3		910	828.1	138.6
4		870	792.1	209.8
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.222$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6876$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,088$$

Absolute Open Flow <u>3088</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>9635</u>
Remarks: _____			
Approved By Commission: Conducted By: <i>Joe Tippy</i> Calculated By: <i>Phillip Smith</i> Checked By: <i>D. Steiner</i>			

RECEIVED

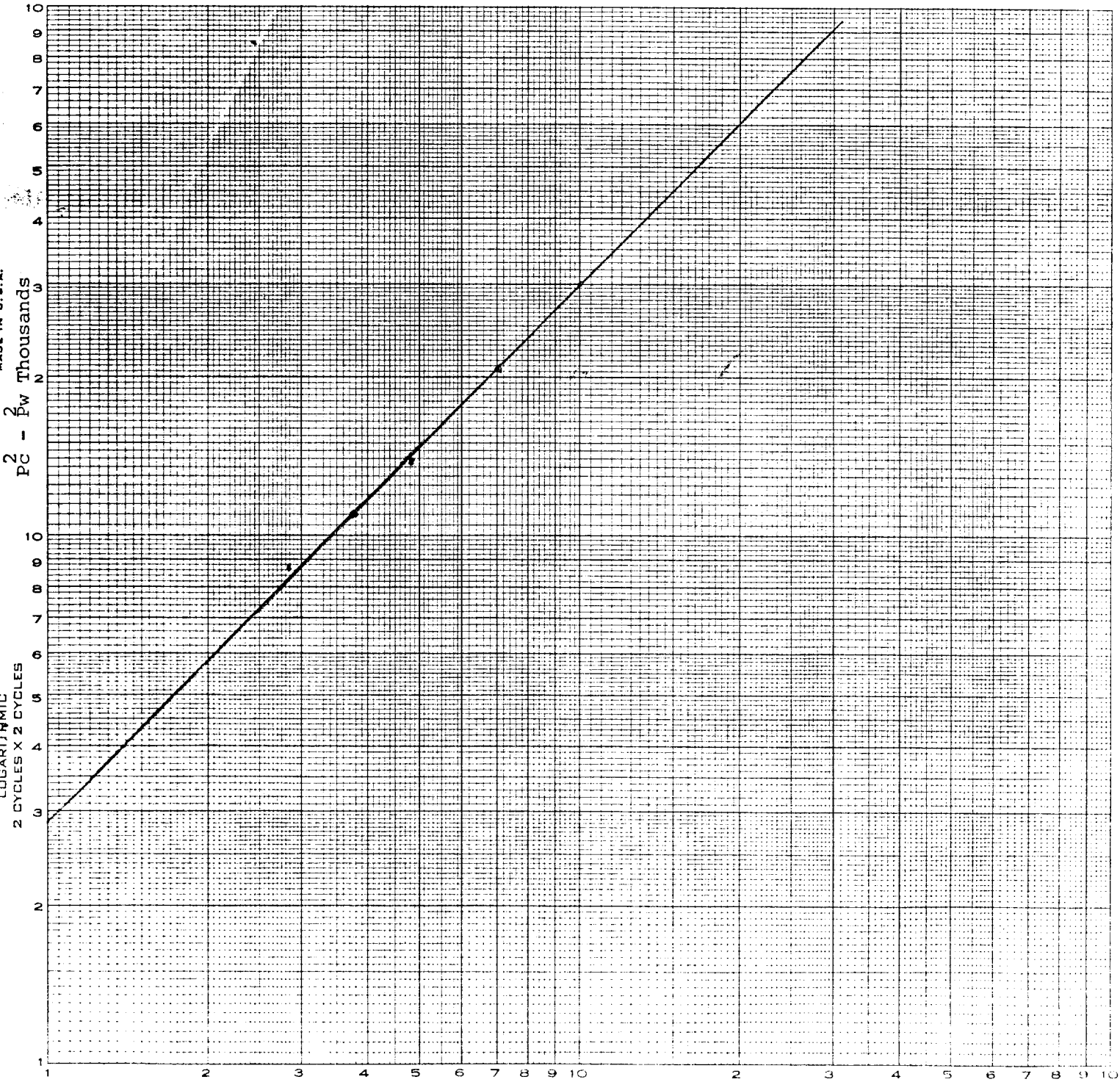
JUL 21 1983

O.G.R.
HOBBS OFFICE

Getty Oil Company
 G.C. Fed Com #1
 C, 7-6S-26E
 Chaves
 7/12/83

DIETZGEN CORPORATION
 MADE IN U.S.A.

NO. 34D-L22 DIETZGEN GRAPH PAPER
 LOGARITHMIC
 2 CYCLES X 2 CYCLES



Q1 = 1310 Mcfd
 Q2 = 142.5 Mcfd

Log Q1 3.1173
 Log Q2 2.1538

n = 0.9635

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JUL 21 1983
HOLLAND

NEW-TEX LAB

PHONE 505/393-3561

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: GETTY OIL CO.
ADDRESS: BOX 730
CITY, STATE: HOBBS NEW MEXICO 88240

ANALYSIS NUMBER: 980
DATE OF RUN: 07/04/83
DATE SECURED: 07/13/83

SAMPLE IDENT: GETTY GC FED. COM. #1
SAMPLING PRESS: SAMPLING TEMP:

REMARKS: ABO GAS

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	6.655	
CARBON DIOXIDE	9.199	
METHANE	76.111	
ETHANE	4.773	1.273
PROPANE	1.800	0.494
ISO-BUTANE	0.292	0.095
NORMAL BUTANE	0.599	0.188
ISO-PENTANE	0.168	0.061
NORMAL PENTANE	0.184	0.066
HEXANES	0.102	0.042
HEPTANES PLUS	0.117	0.034
TOTAL	100.000	2.273

PROPANE GPM: 0.49 BUTANES GPM: 0.28
ETHANE GPM: 1.27 PENTANES PLUS GPM: 0.22

SPECIFIC GRAV (CALC): 0.7361
MOLE WEIGHT: 21.33

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		936	953
14.650		934	950
14.730		939	955
14.735		939	956

RH HAMILTON

