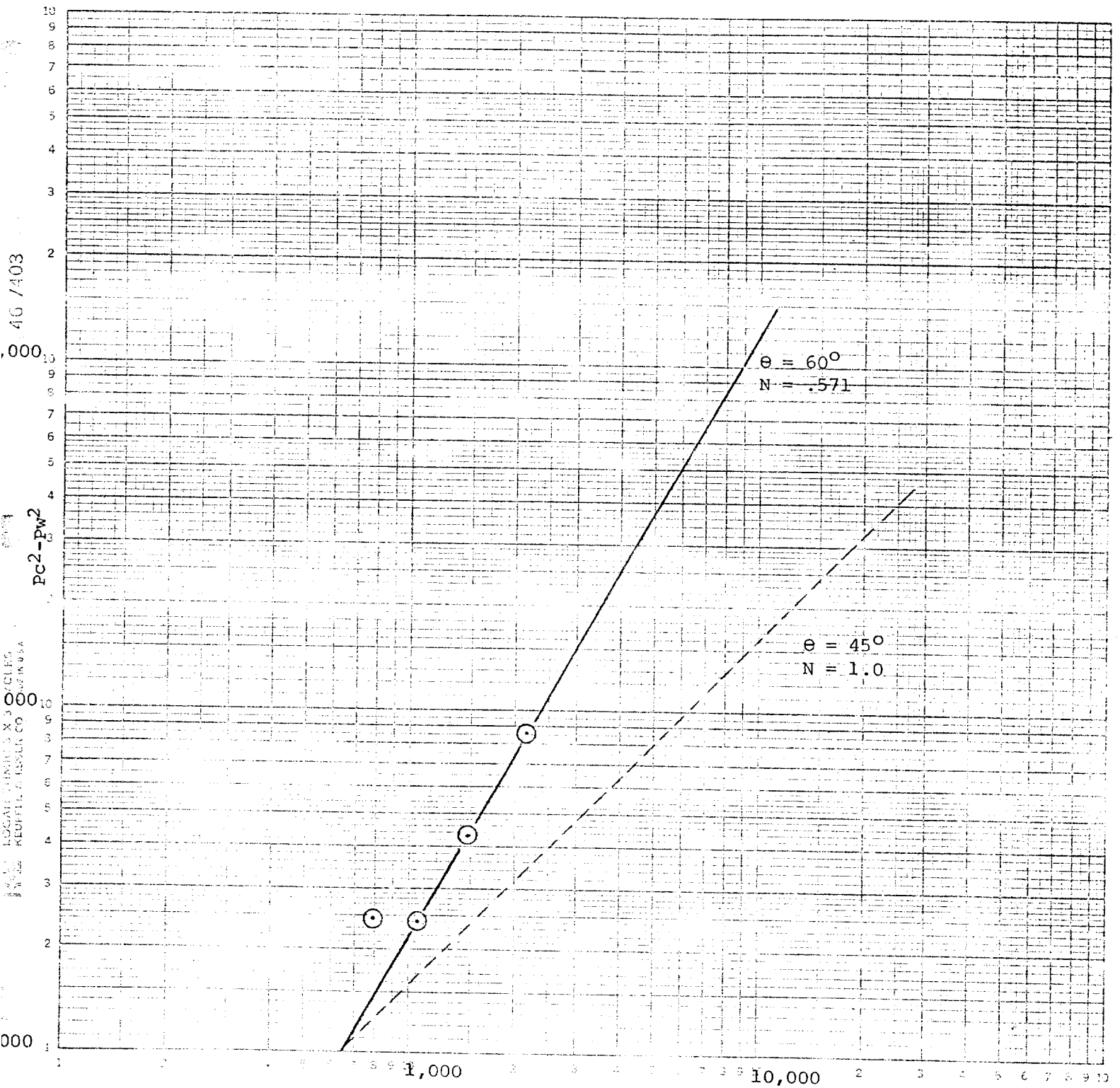


Getty Oil Company
 Getty Federal 33 No. 1
 G-33-26-33
 August 12, 1981



QMCF/Day

AUG 20 1981

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/12/81			
Company Getty Oil Company				Connection United Pipeline Company					
Pool Lower Penn				Formation Penn				Unit	
Completion Date 4/30/81		Total Depth 16180		Plug Back TD 16136		Elevation 3228		Farm or Lease Name Getty Federal 33 Jol.	
Csg. Size 4.500	Wt. 13.5	d 3.875	Set At 16180	Perforations: From 15999 To 16050				Well No. 1	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 15900	Perforations: From 0 To 0				Unit Sec. Twp. Rge. G 33 26S 33E	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single						Packer Set At 15900		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 187 @ 16025		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 16025	H 16025	G _g 0.573	% CO ₂ 0.56	% N ₂ 0.94	% H ₂ S 0	Prover 0	Meter Run 4.0	Taps Flange	

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							8550	97			
1.	4.00	X	1.500	767	4.0	110	8400	97	0	0	0.7
2.	4.00	X	1.500	767	7.0	107	8400	95	0	0	0.7
3.	4.00	X	1.500	767	13.0	96	8275	94	0	0	0.5
4.	4.00	X	1.500	767	27.0	79	8000	92	0	0	0.5
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.85	55.86	780.0	0.9551	1.3207	1.0415	796
2	10.85	73.89	780.0	0.9577	1.3207	1.0425	1057
3	10.85	100.70	780.0	0.9671	1.3207	1.0461	1459
4	10.85	145.12	780.0	0.9822	1.3207	1.0529	2150
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.16	570	1.64	0.922	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.16	567	1.64	0.920	Specific Gravity Separator Gas _____ XXXXXXXXXX
3	1.16	556	1.60	0.914	Specific Gravity Flowing Fluid _____ XXXXX
4	1.16	539	1.55	0.902	Critical Pressure _____ 675 P.S.I.A.
5					Critical Temperature _____ 347 R

P _c 8516.8 P _c ² 72536				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	70782	8369	70044	2491
2	70782	8374	70129	2406
3	68694	8255	68146	4390
4	64211	7994	63901	8635
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 0.4002$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.3742$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7254$$

Absolute Open Flow _____ 7254 _____ Mcfd @ 15.025	Angle of Slope θ _____ 60.0	Slope, n _____ 0.571
Remarks: _____		

Approved by Commission: _____	Conducted By: _____ Krafft	Calculated By: _____ Micikas	Checked By: _____ Botes
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Getty Oil Company

Central Exploration and Production Division

P.O. Box 730

Hobbs, New Mexico 88240

Date: May 21, 1981

NEW MEXICO OIL CONSERVATION DIVISION

P.O. BOX 1980

HOBBS, NEW MEXICO 88240

Getty 33 Federal 5 3 Well No. 1

UNIT LTR. G, 1650' ENL, 1980 'FEL

SECTION 33, T26S, R33E, LEA COUNTY, NEW MEXICO

DEVIATIONS

DEPTH	DEGREES OFF	DEPTH	DEGREES OFF
250'	$\frac{1}{2}$	7943'	$2-\frac{1}{2}$
600'	$\frac{1}{2}$	8566'	$2-3/4$
805'	$\frac{1}{2}$	9060'	$2-3/4$
1300'	$\frac{1}{2}$	9765'	$\frac{1}{2}$
1760'	$3/4$	9900'	1
2141'	$3/4$	10342'	$1-\frac{1}{4}$
2621'	1	10875'	2
3020'	1	11359'	$2 \ 1/4$
3520'	$1-\frac{1}{2}$	11635'	2
4000'	1	12227'	2
4494'	1	13000'	3
4900'	$1-\frac{1}{2}$	13057'	2
5416'	2	13553'	$2 \ 3/4$
5963'	$1-3/4$	14629'	$2 - \frac{1}{2}$
6455'	$1-\frac{1}{2}$	14924'	$2 - \frac{1}{4}$
6955'	$1-3/4$	15155'	$2 - \frac{1}{2}$
7450'	$1-3/4$	15812'	$2 \ 3/4$

The above information is correct and complete to the best of my knowledge.

Dale R. Crockett
Dale R. Crockett, AREA SUPERINTENDENT

STATE OF NEW MEXICO

COUNTY OF LEA

My Commission expires:
11/27/82.

SWORN TO BEFORE ME, the undersigned on this
the 5th day of June, 1981

Bennetta D. Holdridge
Bennetta D. Holdridge, Notary Public in and
for the County of Lea, State of New Mexico