

W MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

1-100
1-File
1-C-122
Form C-122
Revised 4-1-68

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-14-79		APR 16 1979	
Company Texas Oil & Gas Corporation				Connection					
Pool <i>East Lake morrow</i> <i>Undesignated</i>				Formation Morrow				Unit O. C. C. ARTESIA, OFFICE	
Completion Date 1/18/79		Total Depth 9680'		Plug Back TD 9606'		Elevation 3336 KB		Farm or Lease Name Coquina Fed. Com.	
Cng. Size 4 1/2"	Wt. 11.6	d 	Set At 9680	Perforations: From 9453 To 9526		Well No. 1			
Thq. Size 2-3/8"	Wt. 4.7	d 	Set At 9359	Perforations: From Open Ended To		Unit Sec. Twp. Rye C 32 18S 27E			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At 9359		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 168 @ 9490		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 9490	H	Gg .725	% CO ₂ 10.99	% N ₂ 1.71	% H ₂ S .01	Prover	Meter Run X	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							2015	67			
1.	3"	X	2.000"	48	75	30	1010	66			1 Hr.
2.	3"	X	2.000"	29	38	40	1014	70			1 Hr.
3.	3"	X	2.000"	29	18	60	785	78			1 Hr.
4.	3"	X	2.000"	29	7	70	817	79			1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d
1	21.32	67.749	61.2	1.030	1.174	1.005	1755
2	21.32	40.044	42.2	1.020	1.174	1.004	1026
3	21.32	27.560	42.2	1.000	1.174	1.007	695
4	21.32	17.187	42.2	.9905	1.174	1.006	429
5.							

NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d
1.	.086	490	1.30	.991	None Produced	.725	X X X X X X X X	X X X X X	714	376	P.S.I.A.	P.S.I.A.
2.	.059	500	1.33	.992								
3.	.059	520	1.39	.987								
4.	.059	530	1.41	.988								
5.												

NO.	P ₁ ²	P ₂ ²	P ₃ ²	P ₄ ² - P ₅ ²
1	2720.2	7399	1484.2	2203
2			1420.2	2017
3			1351.2	1826
4			1462.2	2138
5				

(1) $\frac{R_f^2}{P_1^2 - P_2^2} = 1.424$

AOF = Q $\left[\frac{P_1^2}{P_1^2 - P_2^2} \right]^n = 2499$

(2) $\left[\frac{R_f^2}{P_1^2 - P_2^2} \right]^n = 1.424$

Absolute Open Flow 2,500 Mc/d @ 15.025	Angle of Slope θ 45°	Slope, n 1.000
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Remarks:

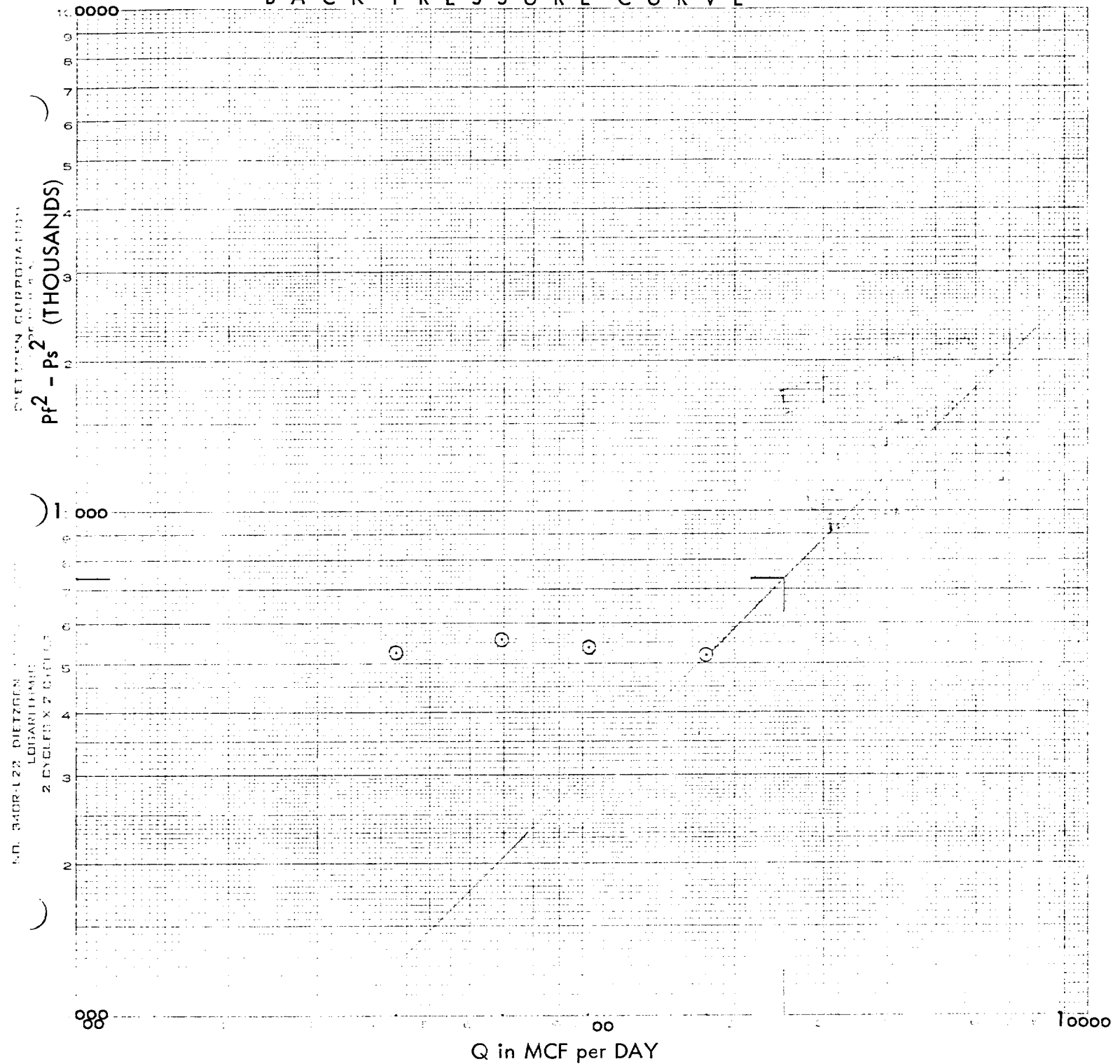
COMPANY Texas Oil & Gas Corporation

LEASE Coquina Fed. Com. WELL 1

COUNTY Eddy STATE New Mexico

DATE 2-14-79

BACK PRESSURE CURVE



$\theta = 45^\circ$

$n = 1.000$

AOF = 2,500 MCF/DAY

**MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator Texas Oil & Gas Corp.			Lease Coquina Federal Com.		Well No. 1
Unit Letter C	Section 32	Township 18 South	Range 27 East	County Eddy	
Actual Footage Location of Well: 710 feet from the North line and 2330 feet from the West line					
Ground Level Elev. 3319.5	Producing Formation MORROW	Pool <i>East Lake Morrow</i> <u>Undesignated</u>		Dedicated Acreage: 320 Acres	

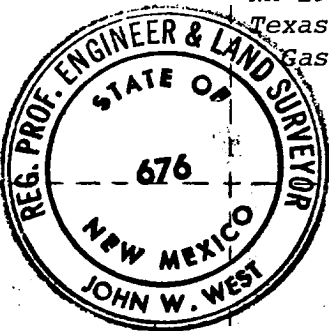
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Coquina dedicated, remainder not dedicated.

<i>Christiansen</i> Oil & Gas Inc. (W.I.) NM-A-32593 (R.I.-U.S.A.)	<i>Gilmore (W.I.)</i> NM-23537 (R.I.-U.S.A.) <i>Coquina (W.I.) (R.I.-U.S.A.)</i> NM-19840	(R.I.-U.S.A.) NM-19378 Texas Oil & Gas Corp. (W.I.)
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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Stephen P. Baker

Name
Stephen P. Baker

Position
District Drilling Engineer

Company
Texas Oil & Gas Corp.

Date
October 20, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
August 17, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **John W. West 676**
Ronald J. Eidson 3239

