

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

Form C-122 -
Revised 9-1-63

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 2-20-90		1-PT TEST	
Company SHELL WESTERN E&P INC.				Connection TEXACO			
Pool NORTH EUNICE BLINEBRY-TUBB- DRINKARD OIL & GAS				Formation TUBB		Unit NORTHEAST DRINKARD	
Completion Date 1-19-90		Total Depth 6669'		Plug Back TD 6422'		Elevation 3475' DF	
Cs. Size 5-1/2"	Wt. 15.5#	d 4.95"	Set At 6619'	Perforations: From 6091' To 6401'		Well No. 602	
Tbg. Size 2-3/8"	Wt. 4.70	d 1.995"	Set At 6048'	Perforations: From To		Unit Sec. Twp. Rge. E 15 21S 37E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At 6048'		County LEA	
Producing Thru TBG		Reservoir Temp. °F 187° @ 6246'		Mean Annual Temp. °F 60		State NM	
L 6590	H ---	G _g .795	% CO ₂ 9.5	% N ₂ 2.0	% H ₂ S 5 PPM	Prover BARTON	Meter Run 2.067
Taps FLG							

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	48 HRS						210	52			
1.	2.067 X 0.750					12.5	28	56			24 HRS
2.											
3.											
4.											
5.											

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 _{sp}	Rate of Flow Q, Mcfd
1	2.709	26.83	25.7	1.004	1.122	1.016	83
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.019	516	1.46	.979	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

$P_c = 223.2$ $P_c^2 = 49.8$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	.660	.936	.877	48.9
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.015$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.015$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 84$$

Absolute Open Flow	84	Mcfd @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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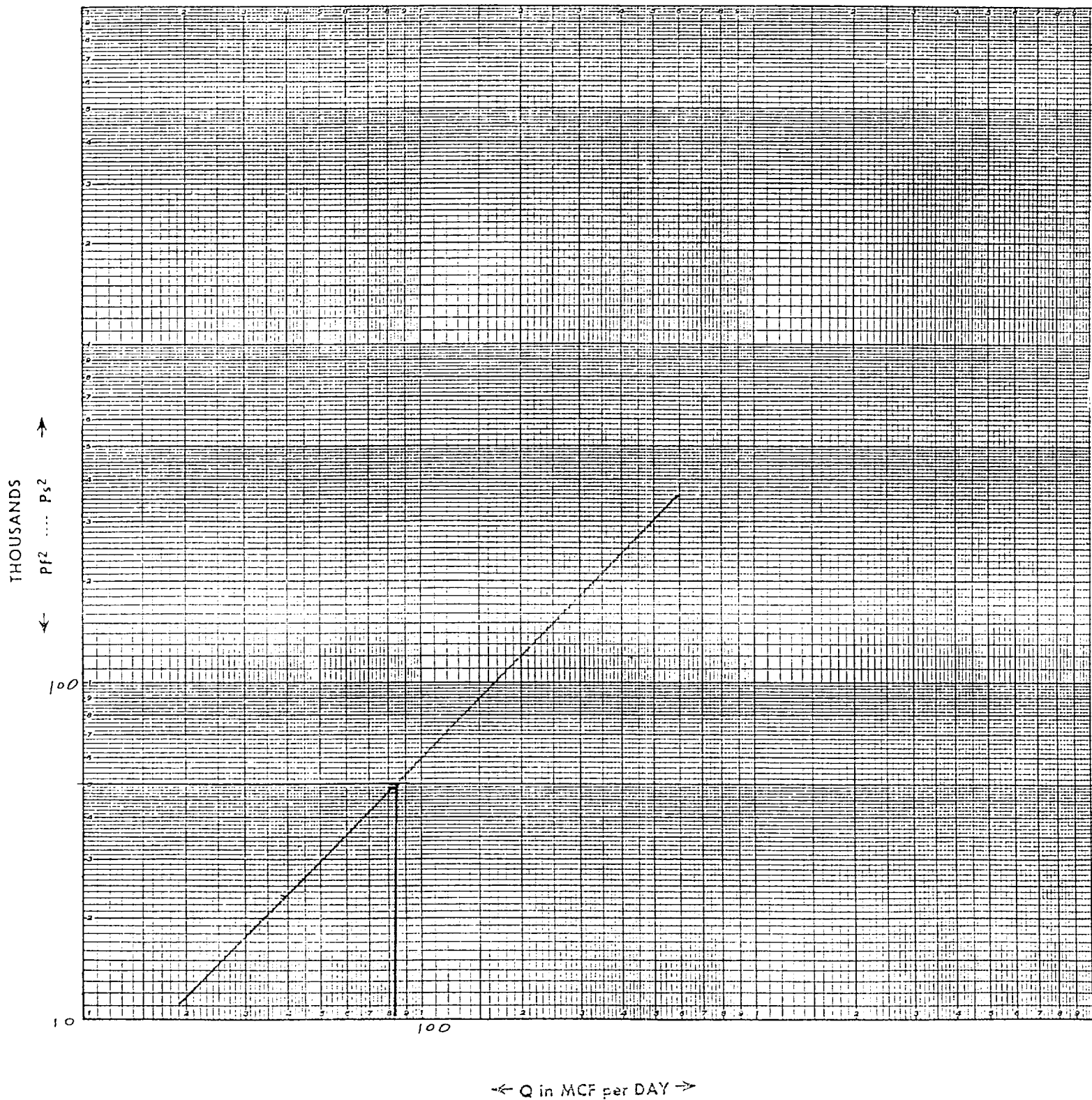
Remarks: DID NOT ATTEMPT 4-PT TEST DUE TO LOW DAILY FLOW.

MAR 14 1990

ORIGINAL SIGNED BY JERRY SEXTON DISTRICT SUPERVISOR	Conducted By: D. E. ASHMORE	Calculated By: D. E. ASHMORE	Checked By:
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GAS WELL
BACK PRESSURE CURVE

County Lee Field DRINKARD
Operator Shell Western E & P Inc.
Lease N. E. D. U. Well No. 602
Volume 84 MCF/24 hr.
Date 2-20-90



RECEIVED

MAR 12 1920

U.S. DEPT. OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

C-122D
Adopted 9-1-85

COMPANY Shell Western E & P ^{Inc.} LEASE N. E. D. U. WELL NO. 602 DATE 2-20-90

LOCATION: Unit E Section 15 Township 21S Range 37E

L 6590 H ~ L/H 1.000 G 795 %CO₂ 9.5 %N₂ 2.0 %H₂S 5 PPM

[illegible]